ACADEMIC YEAR

2022-2023

ADD ON/CERTIFICATE PROGRAMS

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KINGS COLLEGE OF ENGINEERING

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CERT ISO 9001

ACADEMIC YEAR 2022-2023

1.2.2.1 NUMBER OF ADDON / CERTIFICATE PROGRAMS OFFERED

S.No	Department	No. of courses
1.	Civil Engineering	17
2.	Computer Science Engineering	12
3.	Electronics and Communication Engineering	16
4.	Electrical and Electronics Engineering	10
5.	Mechanical Engineering	13
6.	Science & Humanities	01
7.	Training & Placement	03
TOTAL		**72**

29/5/23

IAQC COORDINATOR

29/5/2023

PRINCIPAL

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

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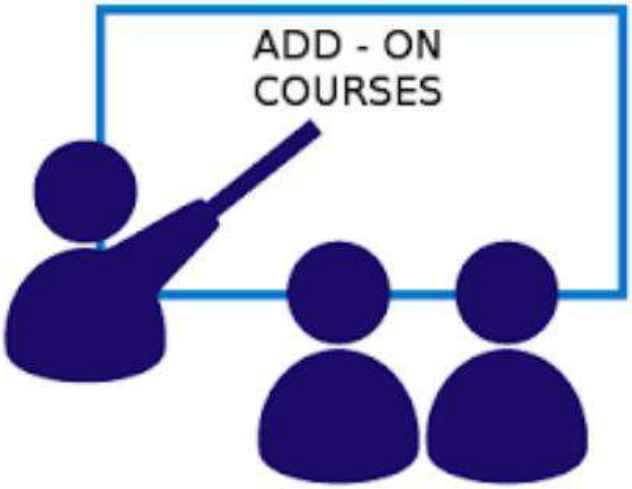
ACADEMIC YEAR 2022-2023



S.No	Department	Page No
1.	Civil Engineering	4-114
2.	Computer Science Engineering	115-484
3.	Electronics and Communication Engineering	485-617
4.	Electrical and Electronics Engineering	618-659
5.	Mechanical Engineering	660-747
6.	Science & Humanities	748-763
7.	Training & Placement	764-830
8.	IQAC – FOSS Training	831-842

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR

2022-2023

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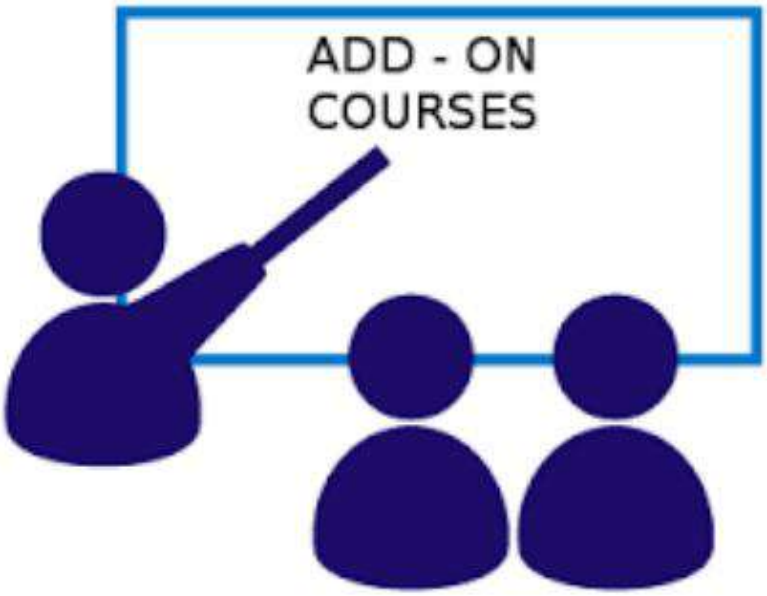
DEPARTMENT OF CIVIL ENGINEERING



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DEPARTMENT OF CIVIL ENGINEERING

ADD ON PROGRAMS / CERTIFICATE COURSES DURING THE ACADEMIC YEAR

ACADEMIC YEAR 2022-2023			
S.No	**COURSE TITLE**	**NO. OF HOURS HANDLED**	**NO.OF STUDENTS ATTENDED**
1.	Value added course (VAC) on Town Planning and management - III Yr	30hrs	20
2.	Certificate Course on "AutoCADD" - II Yr	30hrs	20
3.	Certificate course on "Autocad" - III Yr	30hrs	20
4.	Certificate course on "Sketchup" - IV Yr	30hrs	21
5.	Bridge Couse on "Engineering Mechanics" – II Yr	30hrs	23
6.	Bridge Couse on "Strength of Materials" - II Yr	30hrs	23
7.	Bridge Course on "Structural Design and Drawing" – IV Yr	30hrs	21
8.	Refresher Course on Basics in Surveying- II Yr	30hrs	23
9.	Refresher Course on Units & Measurements -III yr	30hrs	20
10.	Refresher Course on "Quantity Surveying" - IV Yr	30hrs	21
11.	Skill Development course on "Microsoft Office" – II Yr	30hrs	23
12.	MHRD sponsored IIT Bombay certification course on "QCAD"– II Yr	30hrs	23
13.	MHRD sponsored IIT Bombay certification course on "INKSCAPE"– III Yr	30hrs	20
14.	MHRD sponsored IIT Bombay certification course on "LATEX"– IV Yr	30hrs	21
15.	MHRD sponsored IIT Bombay certification course on "GIMP"– II Yr	30hrs	23
16.	MHRD sponsored IIT Bombay certification course on "BLENDER"– III Yr	30hrs	20
17.	MHRD sponsored IIT Bombay certification course on "BLENDER"– IV Yr	30hrs	21

Total No. of Courses organized: 17

No. of students attended : 363

26/05/23

FACULTY-INCHARGE

26/05/2023

HOD/CIVIL

HOD
Department of Civil Engineering
Kings College of Engineering,
Punalkulam, Thanjavur - 613 303

26/05/2023

PRINCIPAL

PRINCIPAL
Kings College of Engineering.
PUNALKULAM - 613 303

VALUE ADDED COURSE

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DEPARTMENT OF CIVIL ENGINEERING

SUBJECT : TOWN PLANNING AND MANAGEMENT

SEMESTER : V

QUESTION BANK

(Version : 1)

PREPARED BY

Mr.R.CHANDRASEKAR, AP/CIVIL

TOWN PLANNING AND MANAGEMENT **L T P C**
2 0 0 2

UNIT I INTRODUCTION TO TOWN PLANNING **6**

Definition of Basic Terms – House, Home, Apartments, Multi storied Buildings, Special Buildings, Objectives and Strategies of National Housing Policies including Slum Housing Policy, Principle of Sustainable Housing

UNIT II HOUSING PROGRAMMES **6**

Basic Concepts, Contents and Standards for Housing Programmes - Sites and Services, Neighborhoods'- Plotted land development programs, Open Development Plots, Apartments

UNIT III DEVELOPMENT PLANS, PLAN FORMULATION AND EVALUATION **6**

Scope and Content of Regional Plan, Master Plan, Detailed Development Plan, Development Control Rules, Development of small Town and smart cities-case studies

UNIT IV PLANNING AND DESIGN OF URBAN DEVELOPMENT PROJECTS **6**

Site Analysis, Layout Design, Planning Standards, Project Formulation – Evaluation, Plan Implementation

UNIT V LEGISLATION, DEVELOPMENTAND MANAGEMENT OF URBAN SYSTEM **6**

Town and Country Planning Act, Land Acquisition and Resettlement Act etc., Urban Planning Standards and Regulations, Involvement of Public, Private, NGO, CBO

TOTAL : 30 PERIODS

6/9/22

STAFF INCHARGE
(Ms.K.Elakkiya)

06/09/2022

HOD/CIVIL
(Dr.R.Saravanan)

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DEPARTMENT OF CIVIL ENGINEERING
COURSE PLAN

Sub. Code	:	**Branch/Year/Sem**	: B.E CIVIL /III/V
Sub Name	: Town Planning and Management	**Batch**	: 2020-2024
Staff Name	: Ms.K.Elakkiya	**Academic Year**	: 2022-2023(ODD)

COURSE OBJECTIVE

The objective of the course is to train the students to have a comprehensive knowledge of .

- Town Planning.
- Design and construction
- Financing of housing.
- Cost effective construction materials and methods.
- Regulations and laws related to Urban Planning.

TEXTBOOKS:

T1. Goel, S.L Urban Development and Management, Deep and Deep publications, New Delhi 2002

T2. Edwin S.Mills and Charles M.Becker, Studies in Urban development, A World Bank publication, 1986

REFERENCES:

R1. Tamil Nadu Town and Country Planning Act 1971, Government of Tamil Nadu, Chennai

R2. CMDA, Second Master Plan for Chennai, Chennai 2008

WEB RESOURCES

W1. https://www.slideshare.net/CharlieGupta1/town-planning-ppt **(Topic.No:01)**

W2. https://www.slideshare.net/bkpraseeda/housing-standards **(Topic.No:10)**

W3. https://www.youtube.com/watch?v=BA4Hy90s59s **(Topic.No:12)**

W4. https://archive.nptel.ac.in/courses/124/107/124107158/ **(Topic.No:17)**

W5. https://archive.nptel.ac.in/courses/124/107/124107158/ **(Topic.No:20)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	INTRODUCTION TO TOWN PLANNING					6
01	Definition of Basic Terms – House, Home	T1 W1	5	BB/PPT	1	1
02	Apartments, Multi storied Buildings	T1	12	BB/PPT	2	3
03	Special Buildings	T1	22	BB/PPT	1	4
04	objectives and Strategies of National Housing Policies including Slum Housing Policy	R1	28	BB/PPT	1	5
05	Principle of Sustainable Housing	T1	31	BB/PPT	1	6
LEARNING OUTCOME At the end of this unit, students will be able to • Learn about the Fundamental of town plan • Understand the policy act						
UNIT II	HOUSING PROGRAMMES					6
7	Basic Concepts, Contents and Standards for Housing Programmes	T2 W2	51	BB/PPT	2	8
8	Sites and Services, Neighborhoods'	T1	62	BB/PPT	1	9
9	Plotted land development programs	T2	65	BB/PPT	2	11
10	Open Development plots and apartments	T2	72	BB/PPT	1	12
LEARNING OUTCOME At the end of this unit, students will be able to • Land development • Apartment design						
UNIT III	DEVELOPMENT PLANS, PLAN FORMULATION AND EVALUATION					6
11	Scope and Content of Regional Plan,	T1	82	BB/PPT	1	13
12	Master Plan, Detailed Development Plan	T1 W3	85	NPTEL	2	15
13	Development Control Rules	T1 T2	93	BB/PPT	1	16
14	Development of small Town and smart cities	T1	115	BB/PPT	2	18

CONTENT BEYOND THE SYLLABUS

- Study of building construction in India.

INTERNAL ASSESMENT DETAILS

ASS NO	I	II
TOPIC	1-14	15-24
DATE		

6/9/22

Prepared by
Mr.R.CHANDRASEKAR, AP/CIVIL

06/09/2022

Verified By
HOD/CIVIL

06/9/2022

Approved by
PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING
TIME TABLE (AUG 2022 – DEC 2022, ODD SEM)
VALUE ADDED COURSE : B.E – CE (Regulation 2017)

Batch:2020 - 2024 Strength:20

Year: III Semester: V Class Room: 235 Block: II

Session	1	2	3	4	12.30 pm - 01.10 pm LUNCH	5	6	7	8
Day	09.15am - 10.00am	10.00am - 10.45am	11.00am - 11.45am	11.45am - 12.30pm		01.10 pm - 01.55 pm	01.55pm - 02.40pm	02.50pm - 03.35pm	03.35pm - 04.20pm
SAT	Town Planning and Management								

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	Town Planning and Management	2	Ms.K.Elakkiya	CE	4

06/09/2022

HOD /CIVIL

[Dr. R. Saravanan]

06/9/2022.

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

VALUE ADDED COURSE REPORT

The Department of Civil Engineering organized a value added course (TOWN PLANNING AND MANAGEMENT) for III Year students on 11.8.2022 to 15.11.2022.

OBJECTIVE

The objective of the course is to enrich the students upgrading and their knowledge in their program. To furnish the student's knowledge, Town Planning and Management was chosen as value added course for III year students.

SESSION DETAILS

Ms.K.Elakkiya, AP/CIVIL, handled the session for III year students. She elaborated about the fundamental of town plan, policy act, land development and regional plan. She described the development of small town and smart cities, town, country planning act and urban plan standards.

III YEAR CIVIL STUDENT ATTENDING THE COURSE

OUTCOME OF THE COURSE

At the end of session, the students would be able to know,

- Town Planning
- Financing of housing
- Design and construction of smart cities.
- Cost effective construction materials and methods
- Regulations and laws related to Urban Planning.

21/11/22
Course Coordinator

21/11/2022
HOD/CIVIL

21/11/2022
PRINCIPAL

CERTIFICATE COURSE

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 25.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **CERTIFICATE COURSE** on **"AUTOCAD"** in this academic year 2022-2023, Second year students are requested to enroll their name to Mr.R.CHANDRASEKAR, AP/CIVIL on or before **04.08.2022**.

25/7/22

COORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

25/07/22

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFIED COURSE ON AUTOCAD

SYLLABUS

UNIT I INTRODUCTION TO AUTOCAD 6

Initial setup in autocad – UCS setting – limits – unit setup for imperial and metric units – overview of ribbon icon – command line – using help autocad – drawing tools – modification tools – dimension setting for different units.

UNIT II PLANNING OF 2D FOR RESIDENTIAL BUILDING 6

Creation of plan – standards for creating plan view – door window placing in plan view – text placing single muti-text and symbol – area calculation.

UNIT III CREATION OF DIFFERENT STAIRCASE IN PLAN VIEW 6

Standard size for riser and tread – straight stair staircase – dog-legged – spiral staircase – array for stair creation – block and grouping staircase.

UNIT IV CREATION OF ELEVATION AND SECTION 6

Projection plan view to elevation – construction line generation – different levels in elevation – section line – cross-section projection of 2d plan – levels in section – leader and multi-leader for annotation.

UNIT V SITE PLAN CREATION AND SHEET SETUP 6

Generating site plan using document – different scales – sheet setup for A0, A1, A2, A3 & A4 – Legend setup and notes – page setup for printing and pdf exporting.

TOTAL : 30 PERIODS

25/7/22

CO-ORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

25/07/22

HOD/CIVIL
(DR.R.SARAVANAN)

Format-QP06

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (11.8.2022 - 20.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 11.8.2022

Strength:19

Batch:2021 - 2025 Block: II

Year: II Semester: III Class Room : 234

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Date	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
11.8.22	ORIENTATION		BREAK	CC		LUNCH BREAK	RFC		BREAK	SDC	
12.8.22	RFC			CC			BC(I)			SDC	
16.8.22	BC(II)			RFC			CC			SDC	
17.8.22	BC(II)			RFC			BC(I)			CC	
18.8.22	BC(I)			CC			BC(II)			SDC	
20.8.22	SDC			RFC			BC(II)			BC(I)	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.R.Ramchandar	CIVIL	2
BC(I)	Bridge Course I (SOM)	-	Mr.R.Ramchandar	CIVIL	8
BC(II)	Bridge Course II (EM)	-	Ms.D.Sharmila	CIVIL	8
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	10
CC	Certification Course - AutoCADD	-	Mr.R.Chandrasekar	CIVIL	10
SDC	Skill Development Course (MS OFFICE)	-	Mr.R.Sundharam	CIVIL	10

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.R.Ramchandar	S.Mohan	09
	G.V.Naaviniyaa	10

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS				
CC	Certification Course - AutoCADD	VAI	Mr.R.Chandrasekar	CIVIL
LIB/NET	Library / Internet	VAI	Mr.R.Ramchandar	CIVIL
NPTEL	NPTEL Swayam Courses	VAI	Mr.R.Ramchandar	CIVIL
T&P (A)	Training & Placement - Aptitude	VAI	Dr.K.Sudhakar	T&P
T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P

DEPT. TTC 16/8/22

HOD 10/08/2022

PRINCIPAL 10/8/2022

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ACADEMIC YEAR 2022-23 (ODD SEM)
CERTIFICATE COURSE ON "AUTOCAD"
ASSESSMENT MARKS

II YEAR CIVIL / III SEM

S.No.	Reg. Number	Student Name	Total marks(50)
1	821121103001	AKALYA J	45
2	821121103002	ANITHA B	43
3	821121103003	ARULPANDIYAN A	41
4	821121103004	ARUNKUMAR M	37
5	821121103005	HALITH A M	35
6	821121103006	MADHAN D S	36
7	821121103007	MANIKKARAJ R	34
8	821121103008	MATHANKUMAR S	36
9	821121103009	MOHAN S	38
10	821121103010	NAAVINIYAA G V	40
11	821121103011	NITHISH KUMAR T S	35
12	821121103012	PASHAGAN G (VOC)	36
13	821121103013	PRAGADISH M	35
14	821121103014	PRASANNA R	38
15	821121103015	SARAVANAN K	35
16	821121103016	SURYA.V	41
17	821121103017	TAMILARASAN T	42
18	821121103018	VENKATACHALAM D	40
19	821121103019	VIJAY S	38
20		SANJAIMANI M	36
21		SINDHU G	42
22		SURUTHI A	41
23		MOHAMMED RIYAZ J	38

27/8/22

COURSE INCHARGE
(Mr.CHANDRASEKAR)

27/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFICATE COURSE REPORT

The Department of Civil Engineering organized a certificate Course for II Year students on 01.08.2022 to 24.9.2022.

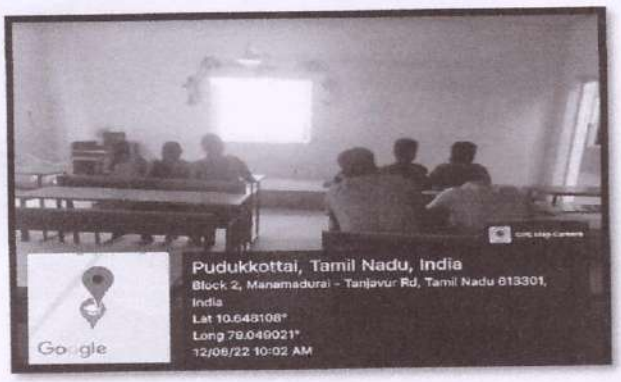
OBJECTIVE

The objective of the course is:

- To learn the concepts of 2D drafting in AutoCAD.
- To know the concept of 2D planning and design concepts.

SESSION DETAILS

Mr.R.CHANDRASEKAR, AP/CIVIL, handled the session for II year students. He explained 2D planning and approval drawing concepts. He explained the concepts in unit conversion from feet to meter, sheet and printing setup for different paper size.



II YEAR CIVIL STUDENTS ATTENDING THE AUTOCAD PROGRAM

OUTCOME OF THE COURSE

At the end of session, the students would be able to:

- Understand the concepts in 2D planning.
- Know the concept of Imperial and metric planning.
- Learn the concepts in approval drawing.
- Know the sheet setup for all sizes.
- Learn about the layout plan.

03/12/2022
PREPARED BY

(R.CHANDRASEKAR)

03/12/2022
HOD/CIVIL

03/12/2022
PRINCIPAL

A NAAC ACCREDITED INSTITUTION

KINGS COLLEGE OF ENGINEERING

RECOGNISED UNDER 2(F) &12(B) OF UGC, APPROVED BY AICTE, NEW DELHI & AFFILIATED TO ANNA UNIVERSITY, CHENNAI
PUNALKULAM, GANDARVAKKOTTAI TALUK, PUDUKKOTTAI DISTRICT - 613 303

CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT **S.MOHAN** OF II YR CIVIL ENGINEERING HAS PARTICIPATED IN THE **"CERTIFIED COURSE ON AUTOCAD"** ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING, KINGS COLLEGE OF ENGINEERING, THANJAVUR,

FROM AUGUST 2022 TO OCTOBER 2022.

COURSE INCHARGE	HOD/CIVIL	PRINCIPAL
Mr.R.CHANDRASEKAR	Dr.R.SARAVANAN	Dr.J.ARPUTHA VIJAYA SELVI

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **CERTIFICATE COURSE** on **"AUTOCAD"** in this academic year 2022-2023, Third year students are requested to enroll their name to Mr.R.CHANDRASEKAR, AP/CIVIL on or before **01.08.2022**.

20/7/22

COORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

20/07/22

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFIED COURSE ON AUTOCAD

SYLLABUS

UNIT I INTRODUCTION TO AUTOCAD 6

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Creation of plan – standards for creating plan view – door window placing in plan view – text placing single muti-text and symbol – area calculation.

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Standard size for riser and tread – straight stair staircase – dog-legged – spiral staircase – array for stair creation – block and grouping staircase.

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Projection plan view to elevation – construction line generation – different levels in elevation – section line – cross-section projection of 2d plan – levels in section – leader and multi-leader for annotation.

UNIT V SITE PLAN CREATION AND SHEET SETUP 6

Generating site plan using document – different scales – sheet setup for A0, A1, A2, A3 & A4 – Legend setup and notes – page setup for printing and pdf exporting.

TOTAL : 30 PERIODS

R. Chandra 20/7/22

CO-ORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

R. Saravanan 20/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

Format-QP06

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (1.8.2022 - 6.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2020 - 2024 | Strength:20

Year: III | Semester: V | Class Room : 235 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	ORIENTATION		BREAK	COMM.SKILL		LUNCH BREAK	BC		BREAK	CC	
TUE	RFC			COMM.SKILL			BC			CC	
WED	RFC			T&P(A)	T&P(SS)		BC			CC	
THU	RFC			COMM.SKILL			BC			CC	
FRI	RFC			COMM.SKILL			BC			CC	
SAT	RFC			COMM.SKILL			BC			CC	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.R.Sundharam	CIVIL	2
BC	Bridge Course	-	Ms.K.Elakkiya	CIVIL	12
COMM.SKILL	Communication Skill	-	Mr.J.Radhakrishnan	ENGLISH	10
RFC	Refresher Course	-	Mr.R.Ramchandar	CIVIL	10
T&P (A)	Training & Placement - Aptitude		Dr.K.Sudhakar	T&P	1
T&P(SS)	Training & Placement - Softskill		Mr.B.Suresh Babu	T&P	1
CC	Certification Course - AutoCADD	-	Mr.R.Chandrasekar	CIVIL	12

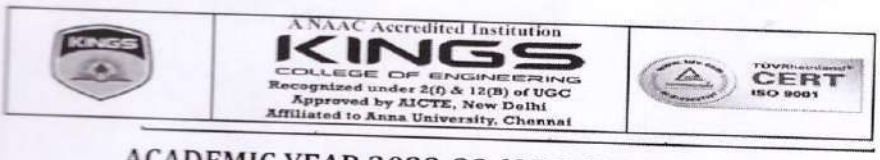
CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.R.Sundharam	G.Bharath S.Sneha	01 13

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
CC	Certification Course - AutoCADD	VAI	Mr.R.Chandrasekar	CIVIL	2
GATE / CE	GATE / Competitive Exam	VAI	Ms.D.Shrividhya	CIVIL	2
LIB/NET	Library / Internet	VAI	Mr.R.Sundharam	CIVIL	1
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	1
T&P (A)	Training & Placement - Aptitude	VAI	Dr.K.Sudhakar	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P	1
VAC	Value Added Course on Urban Planning	VAI	Mr.R.Chandrasekar	CIVIL	3

30/7/22
DEPT. TTC

30/07/2022
HOD

30/7/2022
PRINCIPAL



ACADEMIC YEAR 2022-23 (ODD SEM)
CERTIFICATE COURSE ON "AUTOCAD"
ASSESSMENT MARKS

III YEAR CIVIL / V SEM

S.No.	Reg. Number	Student Name	Total marks(50)
1	821120103001	BHARATH G	42
2	821120103002	DHARUN KUMAR K	38
3	821120103003	HARIHARAN B	36
4	821120103004	JAILAKSHMAN S	33
5	821120103005	JENOVA JASMINE N	37
6	821120103006	KATHIRESWARI P	36
7	821120103007	KIRUTHIKASRI J	39
8	821120103008	MAHARISH H	44
9	821120103009	MOHAMED FAISAL B	33
10	821120103010	NIKESHA J	40
11	821120103013	SNEHA S	45
12	821120103014	SRIRAM M C	37
13	821120103015	VISHNU R	36
14	821120103301	AKARAMUTHALVAN D	39
15	821120103302	ATHITHIYAN E	35
16	821120103303	DULASIRAM S	36
17	821120103305	HARI HARAN U	38
18	821120103306	JOSHUVA M	40
19	821120103307	KRISHNA KANTH N	35
20	821120103308	MADHAVAN S	38

15/10/22
COURSE INCHARGE
(Mr.CHANDRASEKAR)

15/10/22
HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFICATE COURSE REPORT

The Department of Civil Engineering organized a certificate Course for III Year students on 01.08.2022 to 15.10.2022.

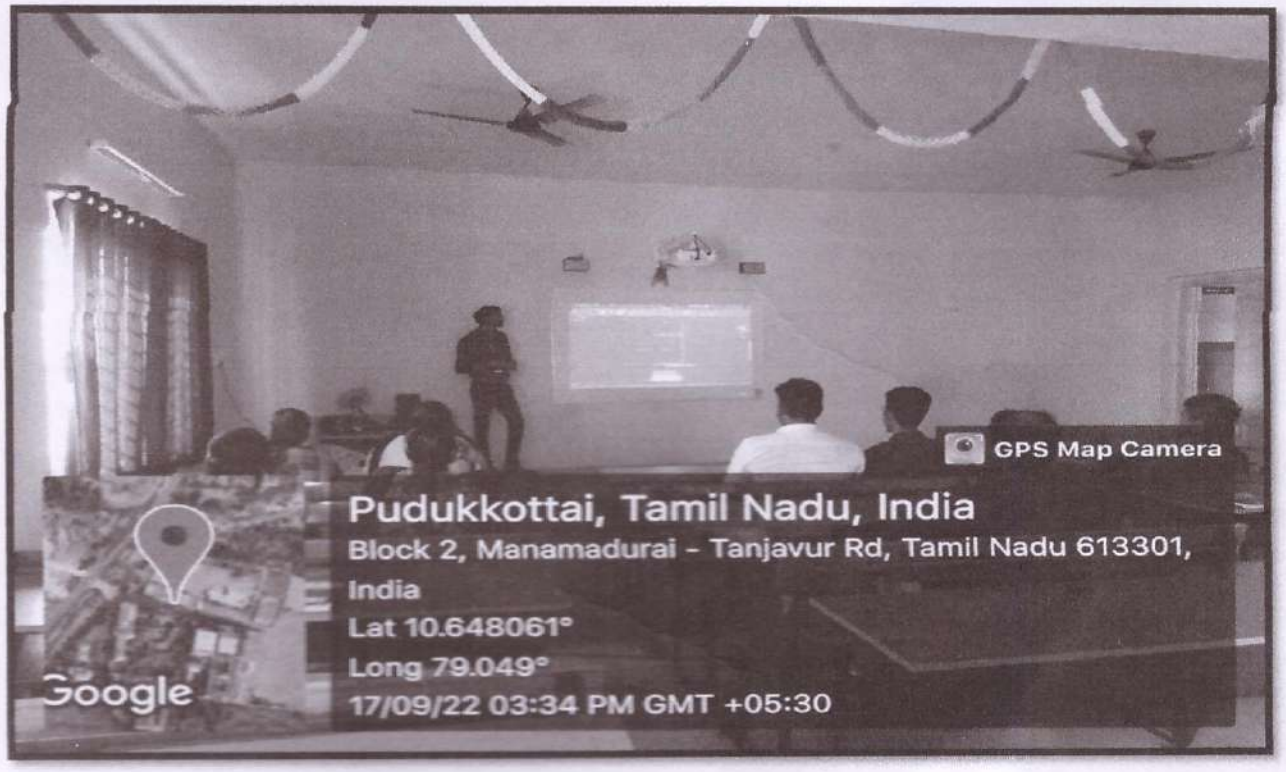
OBJECTIVE

The objective of the course is:

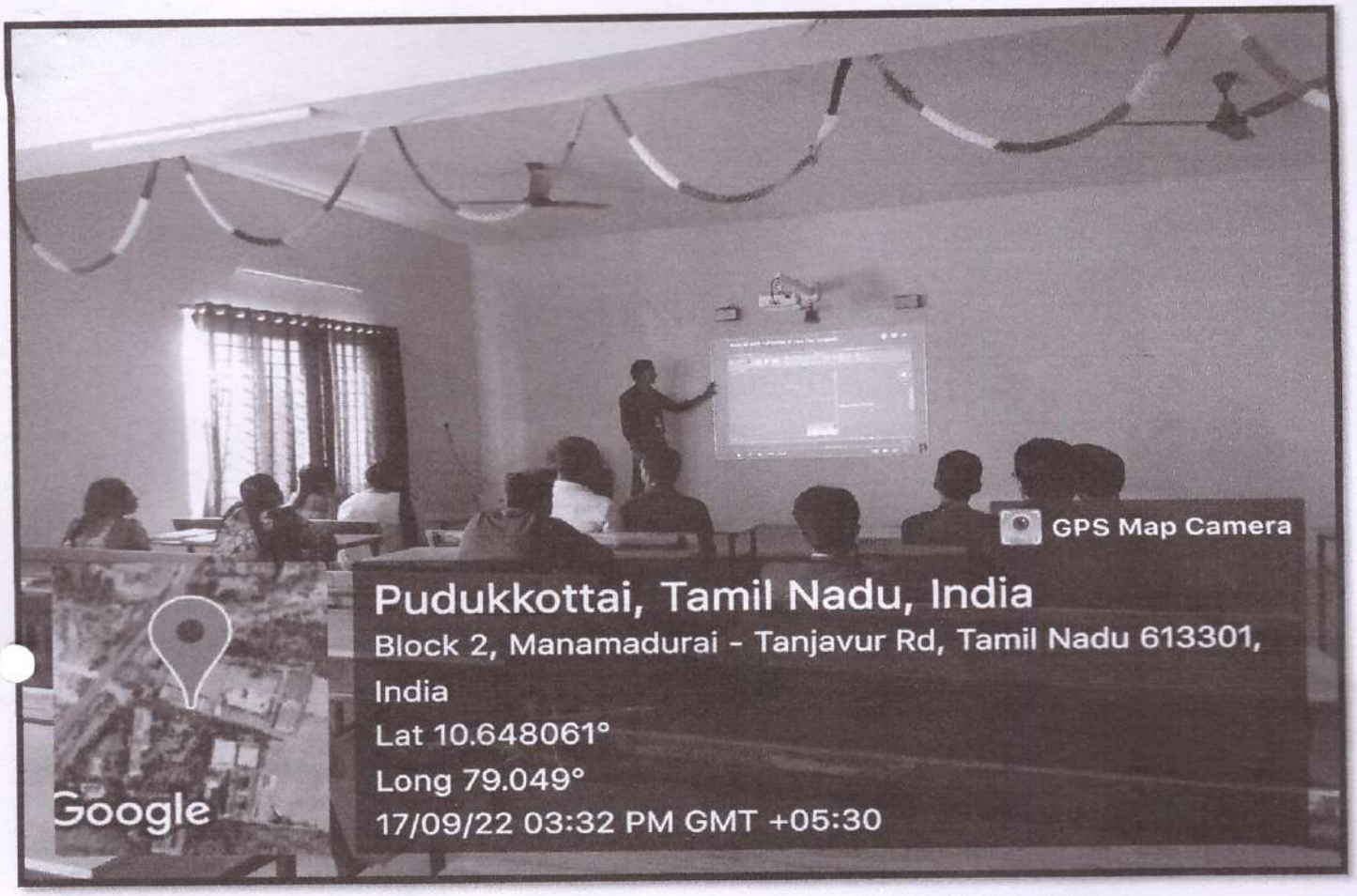
- To learn the concepts of 2D drafting in AutoCAD.
- To know the concept of 2D planning and design concepts.

SESSION DETAILS

Mr.R.CHANDRASEKAR, AP/CIVIL, handled the session for III year students. He explained 2D planning and approval drawing concepts, unit conversion from feet to meter, sheet and printing setup for different paper size.



III YEAR CIVIL STUDENTS ATTENDING THE AUTOCAD PROGRAM



III YEAR CIVIL STUDENTS ATTENDING THE AUTOCAD PROGRAM

OUTCOME OF THE COURSE

At the end of session, the students would be able to:

- Understand the concepts in 2D planning.
- Know the concept of Imperial and metric planning.
- Learn the concepts in approval drawing.
- Know the sheet setup for all sizes.
- Learn about the layout plan.

03/12/2022

PREPARED BY

03/12/2022

HOD/CIVIL

03/12/20

PRINCIPAL

Welcome you all for.....

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFICATE COURSE ON

AutoCAD

PRESENTED BY

Mr.R.CHANDRASEKAR

Introduction To AutoCAD

- AutoCAD is a commercial computer-aided design and drafting software application. Developed and marketed by Autodesk, AutoCAD was first released in December 1982 as a desktop app running on microcomputers with internal graphics controllers.
- AutoCAD is used in industry, by architects, project managers, engineers, graphic designers, city planners and other professionals. It was supported by 750 training centers worldwide in 1994.

TOPICS IN THE 30 HOURS PROGRAM

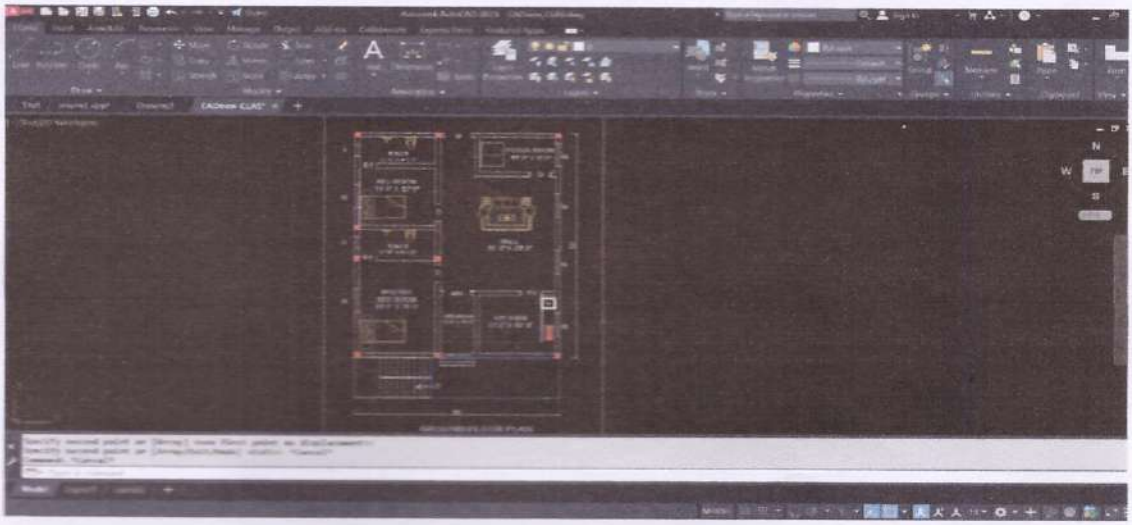
- Introduction to AutoCAD.
- Initial setup in AutoCAD.
- Creation of 2D Plan in feet.
- Drawing and modification tools.
- Dimension setting and style.
- Design center and tool palattes.
- Door, window in 2Dplan.
- Introduction to approval drawing concepts.
- Creation of 2D Plan, elevation, section and site plan in meter.
- Legends and sheet creation.
- Sheet setup for A0-A4 size.
- Printing setup and export pdf for all sizes.

AUTOCAD WORKSPACE

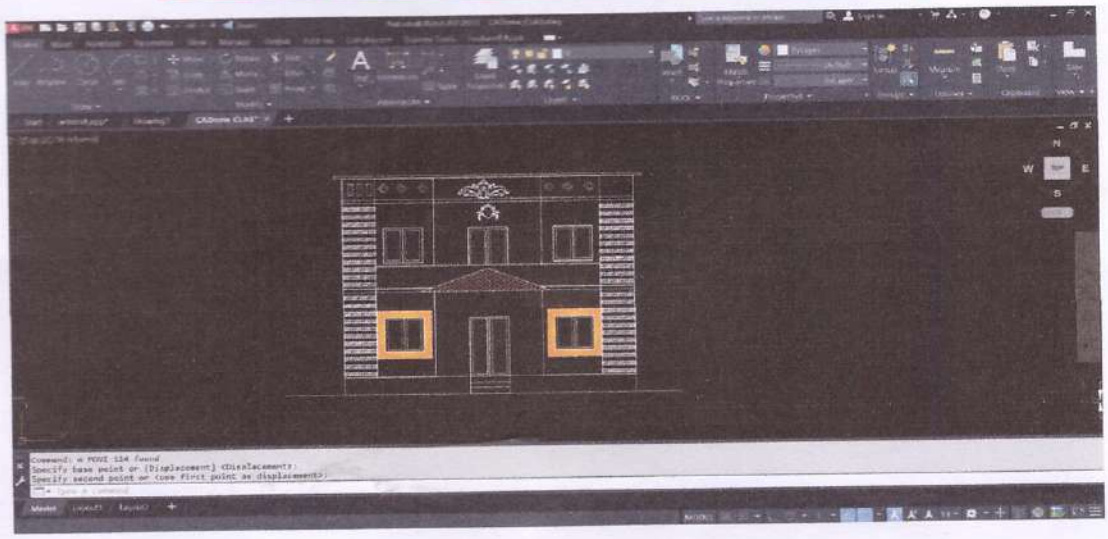
DRAWING AND MODIFICATION AND DIMENSION SHORTCUTS

DRAWING SHORTCUTS	MODIFY SHORTCUTS	DIMENSION SHORTCUTS
line (L)	Move(M)	Dimension Linear
Construction line (XL) ray(RAY)	Copy(CO/CP)	Dimension Aligned
Rectangle (REC)	Erase (E)	Dimension Angular
Circle (C)	Offset (O)	Dimension Radius
Arc (A)	Rotate(RO)	Dimension Diameter
Polyline(PL)	Mirror (MI)	Dimension ArLength
Polyline EDIT (PE)	Trim (Tr)	Dimension Continue
Polygon (POL)	Extend (EX)	Dimension Baseline
Ellipse (EL)	Scale (SC)	
Hatch (H)	Stretch (S)	
Hatch Edit (HE)	Break (BR)	
Single text (DT)	join (J)	
Multi text (T)	Fillet (F)	
Spline (SPL)	Chamfer (CHA)	

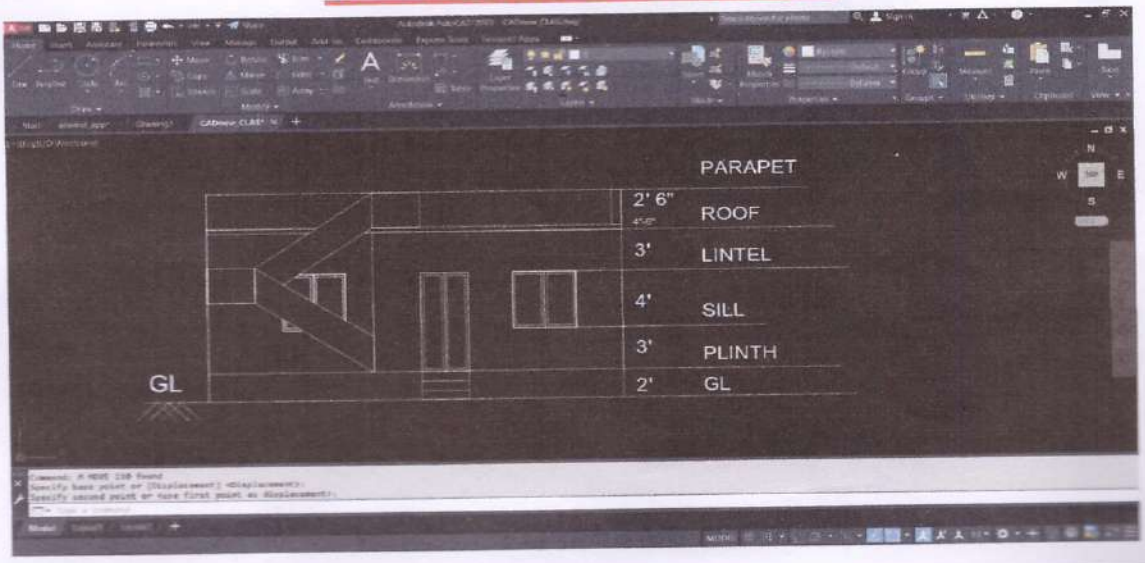
2D FEET PLAN IN AUTOCAD



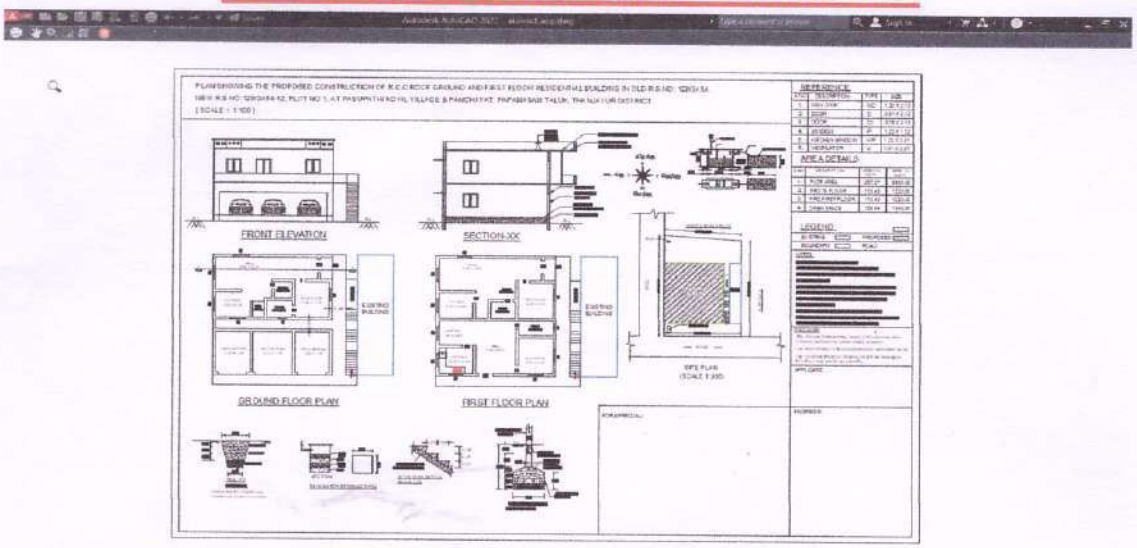
2D FEET ELEVATION IN AUTOCAD



LEVELS IN ELEVATION



APPROVAL DRAWING SAMPLE



THANK YOU

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PUNALKULAM, GANDARVAKKOTTAI TALUK, PUDUKKOTTAI DISTRICT - 613 303

CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT **H.MAHARISH** OF III YR CIVIL ENGINEERING HAS PARTICIPATED IN THE **"CERTIFIED COURSE ON AUTOCAD"** ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING, KINGS COLLEGE OF ENGINEERING, THANJAVUR,

FROM AUGUST 2022 TO OCTOBER 2022.

COURSE INCHARGE	HOD/CIVIL	PRINCIPAL
Mr.R.CHANDRASEKAR	Dr.R.SARAVANAN	Dr.J.ARPUTHA VIJAYA SELVI

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **CERTIFICATE COURSE** on **"SKETCH-UP"** in this academic year 2022-2023, Final year students are requested to enroll their name to Mr.R.CHANDRASEKAR, AP/CIVIL on or before **01.08.2022**.

20/7/22

COORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

20/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFIED COURSE ON SKETCHUP 3D

SYLLABUS

UNIT I INTRODUCTION TO SKETCHUP 3D 6

Initial setup in sketchup – unit setup for imperial and metric units – overview of 3d – modeling and modify tools – dimension setting for different units – using help sketchup.

UNIT II CREATION OF 3D AND COMPONENTS FOR RESIDENTIAL BUILDING 6

Creation of plan in 2d – generating 3d model from 2d plan –placing door, windows in plan view – 3d text – placing components using ware house export and importing.

UNIT III CREATION OF STAIRCASE RAILING RAMP 6

Standard size for riser and tread – straight stair staircase – dog-legged – spiral staircase – railing creation for stair and separate rail design – sloped ramp and circular ramp.

UNIT IV CREATION OF FLOOR AND ROOF 6

Floor creation – material choosing for floors – generating sloped roof , pitched roof, curved roof– roof tiles and material modification – elevation design concepts.

UNIT V INTERIOR DESIGN CONCEPTS AND RENDERING 6

Selection of materials – material editing and custom wall texture editing – lighting setup and intensity adjustments – different rendering engines used for rendering (Vray, Enscape, Artlantis Studio,Lumion etc) – rendering setup and rendering.

TOTAL : 30 PERIODS

20/7/22

COORDINATOR
(Mr.R.CHANDRASEKAR, AP/CIVIL)

20/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

Format-QP06

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DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (1.8.2022 - 6.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2019 - 2023 | Strength:20

Year: IV | Semester: VII | Class Room : 233 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	Orientation		BREAK	CC		LUNCH BREAK	COMM.SKILL		BREAK	BC	
TUE	RFC			CC			COMM.SKILL			BC	
WED	RFC			CC			COMM.SKILL			BC	
THU	T&P(SS)	T&P(A)		CC			COMM.SKILL			BC	
FRI	RFC			CC			COMM.SKILL			BC	
SAT	RFC			CC			COMM.SKILL			BC	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.K.Arun	CIVIL	2
COMM.SKILL	Communication Skill	-	Mr.D.Dinesh	ENGLISH	12
BC	Bridge Course	-	Mr.R.Ramchandar	CIVIL	12
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	08
T&P (A)	Training & Placement - Aptitude	-	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		Dr.K.Sudhakar	T&P	1
CC	Certification Course - Sketchup	-	Mr.R.Chandrasekar	CIVIL	12

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.K.Arun	B.Agalya M.Jayaseelan	01 08

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
LIB/NET	Library / Internet	VAI	Mr.K.Arun	CIVIL	1
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	1
RC	Refresher Course	VAI	Ms.S.Gayathri	CIVIL	2
T&P (A)	Training & Placement - Aptitude	VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI	Dr.K.Sudhakar	T&P	1

DEPT. TTC

HOD 30/07/2022

PRINCIPAL 30/7/2022

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ACADEMIC YEAR 2022-23 (ODD SEM)
CERTIFICATE COURSE ON "SKETCH-UP"
ASSESSMENT MARKS

IV YEAR CIVIL / VII SEM

S.No.	Reg. Number	Student Name	Total Marks (50)
1	821119103001	AGALYA B	45
2	821119103002	ANBUMANI S	38
3	821119103003	ARUNKUMAR M	36
4	821119103004	ARUNPRASAD S	37
5	821119103005	DIVYA S	43
6	821119103006	JANANI T S	44
7	821119103007	JAYACHANDRAN N	39
8	821119103008	JAYASEELAN M	40
9	821119103010	KURALARASAN R	38
10	821119103011	MADHUMITHA R	42
11	821119103012	MONIKA M	41
12	821119103013	PREMKUMAR J	35
13	821119103014	RENGESWARI R	46
14	821119103015	RUBIKA M	39
15	821119103016	SANTHOSH S	38
16	821119103017	SATHYA P	37
17	821119103018	STALIN P	36
18	821119103019	VIMAL R	34
19	821119103301	DANIEL NAVIS F	35
20	821119103501	KARTHIKEYAN R	34
21		ABIRAMI	38

20/10/22

COURSE INCHARGE
(Mr.CHANDRASEKAR)

20/10/22

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

CERTIFICATE COURSE REPORT

The Department of Civil Engineering organized a certificate Course for IV Year students on 01.08.2022 to 20.10.2022.

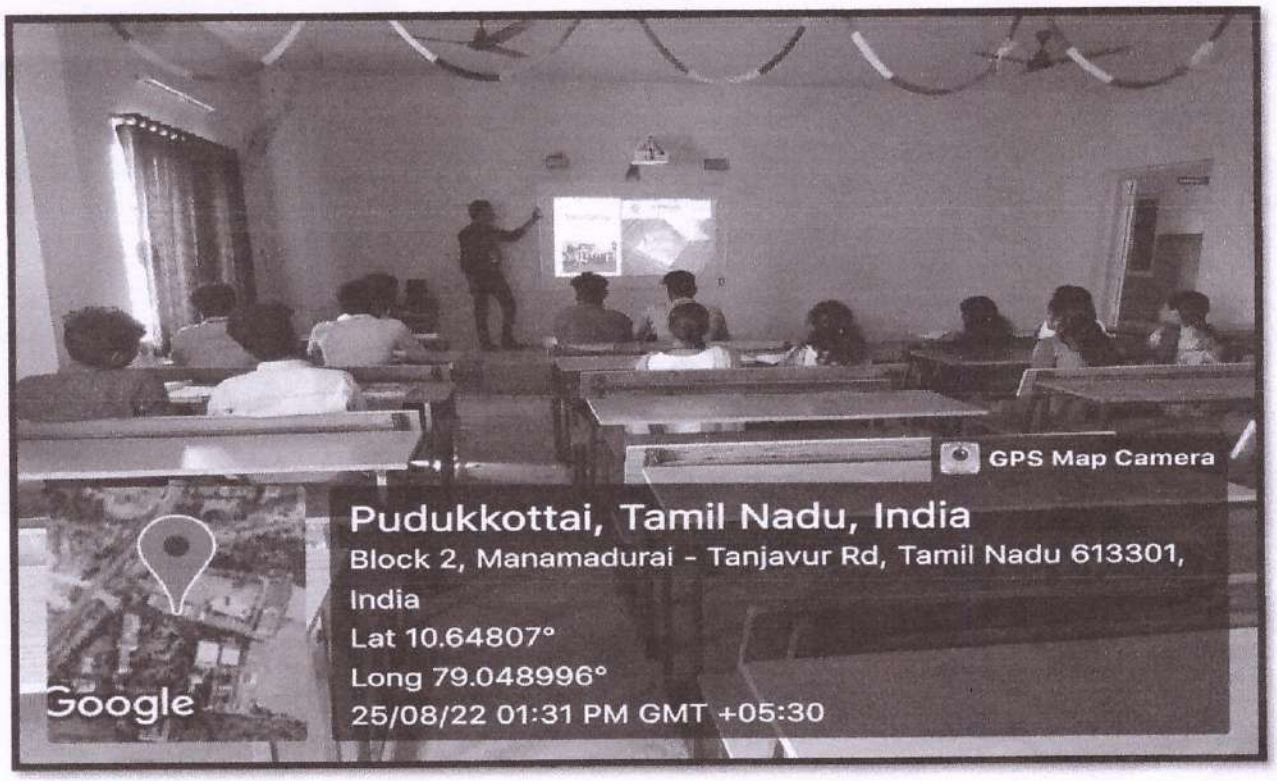
OBJECTIVE

The objective of the course is:

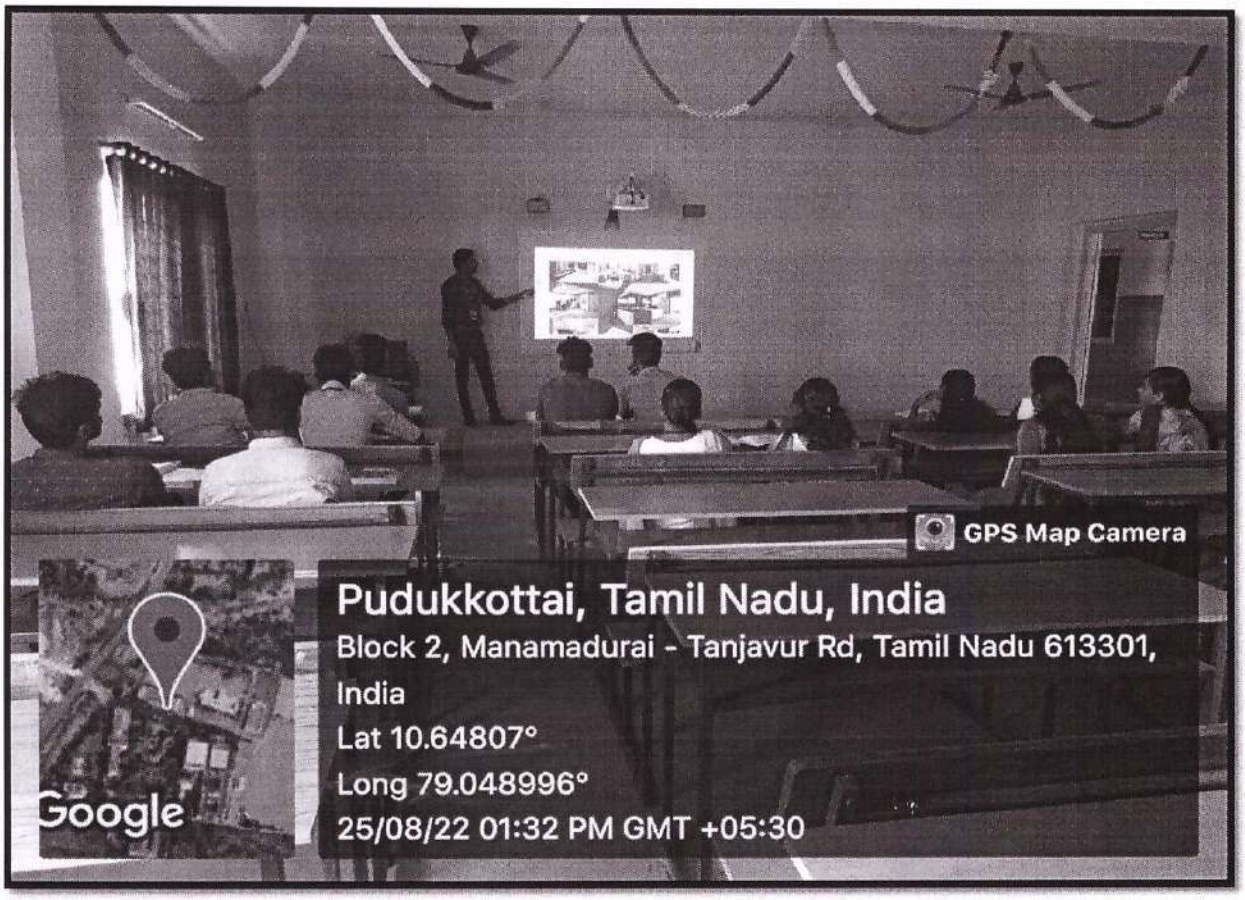
- To learn the concepts of 3D modelling in sketchup.
- To know the concept of 3D elevation and interior design concepts in sketchup.
- To know about the various rendering concepts.

SESSION DETAILS

Mr.R.CHANDRASEKAR, AP/CIVIL, handled the session for IV year students. He explained about the Sketchup 3D, various elevation and interior design concepts.



IV YEAR CIVIL STUDENTS ATTENDING THE SKETCHUP PROGRAM



IV YEAR CIVIL STUDENTS ATTENDING THE SKETCHUP PROGRAM

OUTCOME OF THE COURSE

At the end of session, the students would be able to:

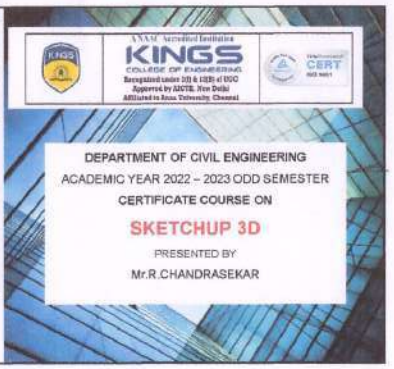
- Understand the concepts in 3D modelling.
- Know the concept of 3D elevation.
- Understand the various concept in interior design.
- Know the concept of lighting in interior design.
- Know about the rendering in sketchup.

03/12/2022
PREPARED BY
(R. CHANDRASEKAR)

03/12/2022
HOD/CIVIL

03/12/2022
PRINCIPAL

Welcome you all for.....



Introduction To SketchUp

- SketchUp is a 3D modeling computer program for a broad range of drawing and design applications — including architectural, interior design, industrial and product design, landscape architecture, civil and mechanical engineering, theater, film and video game development.
- Owned by Trimble Inc., the program is currently available as a web-based application, *SketchUp Free*, and three paid subscriptions, *SketchUp Shop, SketchUp Pro, and SketchUp Studio*, each with increasing functionality.
- SketchUp was developed by startup company @Last **Software** of Boulder, Colorado, co-founded in 1999 by **Brad Schell** and **Joe Esch.**
- Google acquired @Last Software on March 14, 2006
- Trimble Navigation (now Trimble Inc.) acquired SketchUp from Google on June 1, 2012

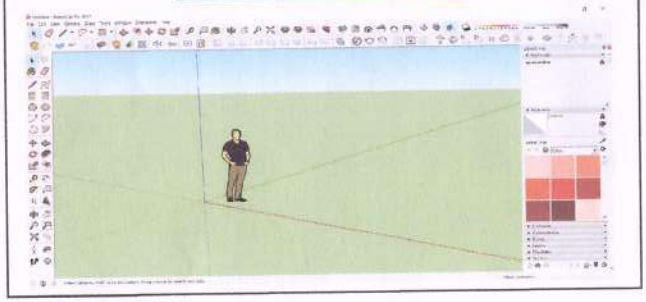
TOPICS IN THE 30 HOURS PROGRAM

- Introduction to sketchup.
- 3d Modeling in sketchup.
- Creation of 2D Plan and 3D plan.
- Creation of Door, Window.
- Creation of Floor and Different roof Types.
- Elevation Design Concepts.
- Creation of Staircase, Railing and Ramp.
- Introduction to Interior design.
- Interior light setting in room.
- Components Import.
- Importing Textures for Wall tiles etc.
- Intro to Rendering Engine (Vray, Enscape, Artlantis Studio,Lumion etc).
- Photo Realistic rendering.

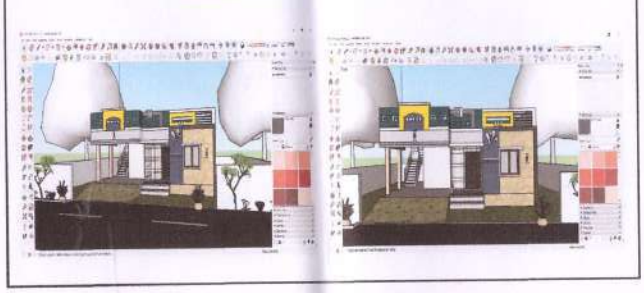
SKETCHUP TEMPLATE SELECTION

- Open sketchup 3D.
- Choose template and select simple template-feet & inches.
- Select start using sketchup.

SKETCHUP WORKSPACE

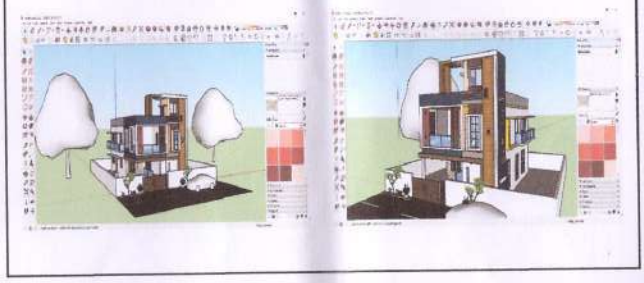


3D MODEL IN SKETCHUP



RENDERING VIEW OF PREVIOUS MODEL

3D MODEL IN SKETCHUP



RENDERING VIEW OF PREVIOUS MODEL

SketchUp Exterior Design

Sketchup Interior Design

Sketchup Interior Design

Sketchup 3d plan

Sketchup 3d plan

THANK YOU

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PUNALKULAM, GANDARVAKKOTTAI TALUK, PUDUKKOTTAI DISTRICT - 613 303

CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT **M.JAYASEELAN** OF IV YR CIVIL ENGINEERING HAS PARTICIPATED IN THE **"CERTIFIED COURSE ON SKETCH UP 3D"** ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING, KINGS COLLEGE OF ENGINEERING, THANJAVUR,

FROM AUGUST 2022 TO OCTOBER 2022.

COURSE INCHARGE	HOD/CIVIL	PRINCIPAL
Mr.R.CHANDRASEKAR	Dr.R.SARAVANAN	Dr.J.ARPUTHA VIJAYA SELVI

BRIDGE COURSE

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 25.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **BRIDGE COURSE II (ENGINERING MECHANICS)**on this academic year 2022-2023, Second year students are requested to enroll their name to Mr.Ramdchandar AP/CIVIL on or before **04.08.2022**.

R. Ramchandar 25/7/22

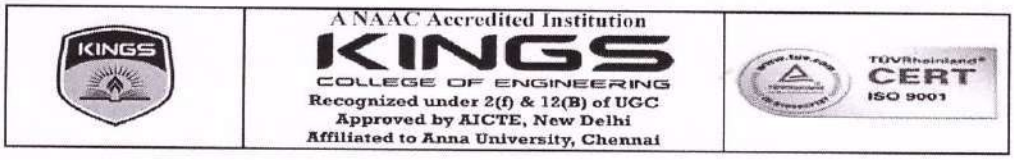
Coordinator

(Mr.Ramchandar AP/CIVIL)

R. Saravanan 25/07/22

HOD/CIVIL

(DR.R.SARAVANAN)



DEPARTMENT OF CIVIL ENGINEERING

BRIDGE COURSE II

ENGINEERING MECHANICS

YEAR/SEMESTER: II/III

ACADEMIC YEAR: 2022-2023(ODD SEM)

PREPARED BY

MS.D.SHARMILA / AP /CIVIL

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (11.8.2022 - 20.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 11.8.2022

Batch:2021 - 2025 Strength:19

Year: II Semester: III Class Room : 234 Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Date	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
11.8.22	ORIENTATION		BREAK	CC		LUNCH BREAK	RFC		BREAK	SDC	
12.8.22	RFC			CC			BC(I)			SDC	
16.8.22	BC(II)			RFC			CC			SDC	
17.8.22	BC(II)			RFC			BC(I)			CC	
18.8.22	BC(I)			CC			BC(II)			SDC	
20.8.22	SDC			RFC			BC(II)			BC(I)	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.R.Ramchandar	CIVIL	2
BC(I)	Bridge Course I (SOM)	-	Mr.R.Ramchandar	CIVIL	8
BC(II)	Bridge Course II (EM)	-	Ms.D.Sharmila	CIVIL	8
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	10
CC	Certification Course - AutoCADD	-	Mr.R.Chandrasekar	CIVIL	10
SDC	Skill Development Course (MS OFFICE)	-	Mr.R.Sundharam	CIVIL	10

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.R.Ramchandar	S.Mohan	09
	G.V.Naaviniyaa	10

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS				
CC	Certification Course - AutoCADD	VAI	Mr.R.Chandrasekar	CIVIL
LIB/NET	Library / Internet	VAI	Mr.R.Ramchandar	CIVIL
NPTEL	NPTEL Swayam Courses	VAI	Mr.R.Ramchandar	CIVIL
T&P (A)	Training & Placement - Aptitude	VAI	Dr.K.Sudhakar	T&P
T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P

DEPT. TTC 10/8/22

HOD 10/08/2022

PRINCIPAL 10/8/2022

ENGINEERING MECHANICS

COURSE OBJECTIVE

- To Learn the use scalar and vector analytical techniques for analyzing forces in Statically determinate structures.
- To learn the principles of friction, forces and to apply the concepts of various engineering systems.
- To develop basic dynamics concepts – force, momentum, work and energy.

UNIT I FUNDAMENTAL CONCEPTS OF UNITS 6

Fundamental Concepts and Principles - Systems of Units - Method of Problem Solutions - Resultant of Forces - Unit Vectors- Newton's First Law of Motion .

UNIT II EQUILIBRIUM OF RIGID BODIES 6

Principle of Transmissibility - Equivalent Forces - Vector Product of Two Vectors -Varignon's Theorem - Scalar Product of Two Vectors.

UNIT III DISTRIBUTED FORCES 6

Centroids of lines and areas – symmetrical and unsymmetrical shapes- Moment of Inertia – Radius of Gyration of an Area - Parallel-Axis Theorem - Moments of Inertia of Composite Areas.

UNIT IV FRICTION 6

The Laws of Dry Friction- Coefficients of Friction - Angles of Friction- Wedge friction- Wheel Friction- Rolling Resistance -Ladder friction.

UNIT V DYNAMICS OF PARTICLES 6

Kinematics - Newton's Second Law of Motion - Work of a Force - Principle of Work and Energy- Principle of Impulse and Momentum- Impact of bodies.

TOTAL PERIODS: 30

COURSE OUTCOME

At the end of the course the students would be able to

- Illustrate the vectorial and scalar representation of forces and moments
- Analyse the rigid body in equilibrium
- Evaluate the properties of distributed forces

STAFF INCHARGE
(Ms.D.SHARMILA)

25/07/22

HOD/CIVIL
(Dr.R.SARAVANAN)

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TUV CERT ISO 9001

ACADEMIC YEAR 2022-23 (ODD SEM)
BC-ENGINEERING MECHANICS
ASSESSMENT MARKS

II YEAR CIVIL / V SEM

S.No.	Reg. Number	Student Name	Total marks(50)
1	821121103001	AKALYA J	50
2	821121103002	ANITHA B	50
3	821121103003	ARULPANDIYAN A	50
4	821121103004	ARUNKUMAR M	50
5	821121103005	HALITH A M	40
6	821121103006	MADHAN D S	45
7	821121103007	MANIKKARAJ R	40
8	821121103008	MATHANKUMAR S	40
9	821121103009	MOHAN S	50
10	821121103010	NAAVINIYAA G V	50
11	821121103011	NITHISH KUMAR T S	45
12	821121103012	PASHAGAN G (VOC)	45
13	821121103013	PRAGADISH M	40
14	821121103014	PRASANNA R	40
15	821121103015	SARAVANAN K	40
16	821121103016	SURYA.V	50
17	821121103017	TAMILARASAN T	50
18	821121103018	VENKATACHALAM D	45
19	821121103019	VIJAY S	50
20		SANJAIMANI M	40
21		SINDHU G	50
22		SURUTHI A	45
23		MOHAMMED RIYAZ J	45

SUBJECT INCHARGE
(MS.D.SHARMILA)

30/08/23

HOD/CIVIL
(DR.R.SARAVANAN)

ENGINEERING MECHANICS

FUNDAMENTALS OF ENGINEERING MECHANICS

ENGINEERING MECHANICS: The subject of Engineering Mechanics is that branch of Applied Science, which deals with the laws and principles of Mechanics, along with their applications to engineering problems.

The subject of Engineering Mechanics may be divided into the following two main groups: 1. Statics, and 2. Dynamics

STATICS: It is that branch of Engineering Mechanics, which deals with the forces and their effects, while acting upon the bodies at rest.

DYNAMICS: It is that branch of Engineering Mechanics, which deals with the forces and their effects, while acting upon the bodies in motion. The subject of Dynamics may be further sub-divided into the following two branches: 1. Kinetics, and 2. Kinematics

KINETICS: It is the branch of Dynamics, which deals with the bodies in motion due to the application of forces.

KINEMATICS: It is that branch of Dynamics, which deals with the bodies in motion, without any reference to the forces which are responsible for the motion.

RIGID BODY: A rigid body (also known as a rigid object) is a solid body in which deformation is zero or so small it can be neglected. The distance between any two given points on a rigid body remains constant in time regardless of external forces exerted on it. A rigid body is usually considered as a continuous distribution of mass.

FORCE: It is defined as an agent which produces or tends to produce, destroys or tends to destroy motion. *e.g.*, a horse applies force to pull a cart and to set it in motion. Force is also required to work on a bicycle pump. In this case, the force is supplied by the muscular power of our arms and shoulders.

SYSTEM OF FORCES: When two or more forces act on a body, they are called to form a system of forces. Following systems of forces are important from the subject point of view;

1. **Coplanar forces**: The forces, whose lines of action lie on the same plane, are known as coplanar forces.
2. **Collinear forces**: The forces, whose lines of action lie on the same line, are known as collinear forces
3. **Concurrent forces:** The forces, which meet at one point, are known as concurrent forces. The concurrent forces may or may not be collinear.
4. **Coplanar concurrent forces**: The forces, which meet at one point and their lines of action also lie on the same plane, are known as coplanar concurrent forces.
5. **Coplanar non-concurrent forces:** The forces, which do not meet at one point, but their lines of action lie on the same plane, are known as coplanar non-concurrent forces.
6. **Non-coplanar concurrent forces**: The forces, which meet at one point, but their lines of action do not lie on the same plane, are known as non-coplanar concurrent forces.
7. **Non-coplanar non-concurrent forces**: The forces, which do not meet at one point and their lines of action do not lie on the same plane, are called non-coplanar non-concurrent forces.

FRICTION

INTRODUCTION:

If a block of one substance is placed over the level surface of the same or different material, a certain degree of interlocking of the minutely projecting particles takes place. This does not involve any force, so long as the block does not move or tends to move. But whenever one of the blocks moves or tends to move tangentially with respect to the surface, on which it rests, the interlocking property of the projecting particles opposes the motion. This opposing force, which acts in the opposite direction of the movement of the block, is called *force of friction* or simply *friction.* It is of the following two types:

1. Static friction. **2.** Dynamic friction

STATIC FRICTION: It is the friction experienced by a body when it is at rest. Or in other words, it is the friction when the body tends to move.

DYNAMIC FRICTION: It is the friction experienced by a body when it is in motion. It is also called kinetic friction. The dynamic friction is of the following two types:

1. **Sliding friction**: It is the friction, experienced by a body when it slides over another body. 2. **Rolling friction**: It is the friction, experienced by a body when it rolls over another body.

LIMITING FRICTION: The maximum value of frictional force, which comes into play, when a body just begins to slide over the surface of the other body, is known as limiting friction. It may be noted that when the applied force is less than the limiting friction, the body remains at rest, and the friction is called static friction, which may have any value between zero and limiting friction.

COEFFICIENT OF FRICTION: It is the ratio of limiting friction to the normal reaction, between the two bodies, and is generally denoted by μ. Mathematically, coefficient of friction,

$$\mu = \frac{F}{R} = \tan \phi \qquad \text{or} \qquad F = \mu R$$

ϕ = Angle of friction,

F = Limiting friction, and

R = Normal reaction between the two bodies.

UNITS OF WORK:

The units of work (or work done) are :

1. **One N-m**: It is the work done by a force of 1 N, when it displaces the body through 1 m. It is called joule (briefly written as J), Mathematically. **1 joule = 1 N-m** 2. **One kN-m:** It is the work done by a force of 1 kN, when it displaces the body through 1 m. It is also called kilojoule (briefly written as kJ). Mathematically. **1 kilo-joule = 1 kN-m**

POWER: The power may be defined as the rate of doing work. It is thus the measure of performance of engines. e.g. an engine doing a certain amount of work, in one second, will be twice as powerful as an engine doing the same amount of work in two seconds.

UNITS OF POWER: In S.I. units, the unit of power is watt (briefly written as W) which is equal to 1 N-m/s or 1 J/s. Generally, a bigger unit of power (kW) is used, which is equal

CLOCKWISE COUPLE:

A couple, whose tendency is to rotate the body, on which it acts, in a clockwise direction, is known as a clockwise couple as shown in Fig. (*a*). Such a couple is also called positive couple.

ANTICLOCKWISE COUPLE:

A couple, whose tendency is to rotate the body, on which it acts, in an anticlockwise direction, is known as an anticlockwise couple as shown in Fig. (*b*). Such a couple is also called a negative couple.

CHARACTERISTICS OF A COUPLE:

A couple (whether clockwise or anticlockwise) has the following characteristics:
1. The algebraic sum of the forces, constituting the couple, is zero. 2. The algebraic sum of the moments of the forces, constituting the couple, about any point is the same, and equal to the moment of the couple itself. 3. A couple cannot be balanced by a single force. But it can be balanced only by a couple of opposite sense. 4. Any no. of co-planer couples can be reduced to a single couple, whose magnitude will be equal to the algebraic sum of the moments of all the couples

EQUILIBRIUM: If the resultant of a number of forces, acting on a particle is zero, the particle will be in equilibrium. Such a set of forces, whose resultant is zero, are called equilibrium forces. The force, which brings the set of forces in equilibrium is called an equilibrant.

PRINCIPLES OF EQUILIBRIUM: Though there are many principles of equilibrium, yet the following three are important from the subject point of view : 1. **Two force principle:** As per this principle, if a body in equilibrium is acted upon by two forces, then they must be equal, opposite and collinear. 2. **Three force principle:** As per this principle, if a body in equilibrium is acted upon by three forces, then the resultant of any two forces must be equal, opposite and collinear with the third force. 3. **Four force principle:** As per this principle, if a body in equilibrium is acted upon by four forces, then the resultant of any two forces must be equal, opposite and collinear with the resultant of the other two forces.

METHODS FOR THE EQUILIBRIUM OF COPLANAR FORCES: Though there are many methods of studying the equilibrium of forces, yet the following are important from the subject point of view : 1. Analytical method. 2. Graphical method.

LAMI'S THEOREM: It states, "If three coplanar forces acting at a point be in equilibrium, then each force is proportional to the sine of the angle between the other two." Mathematically,

$$\frac{P}{\sin\alpha} = \frac{Q}{\sin\beta} = \frac{R}{\sin\gamma}$$

CENTROID AND MOMENT OF INERTIA

CENTRE OF GRAVITY: The point, through which the whole weight of the body acts, irrespective of its position, is known as centre of gravity (briefly written as C.G.). It may be noted that everybody has one and only one centre of gravity.

CENTROID: The plane figures (like triangle, quadrilateral, circle etc.) have only areas, but no mass. The centre of area of such figures is known as centroid. The method of finding out the centroid of a figure is the same as that of finding out the centre of gravity of a body.

KINETICS: It is the branch of Dynamics, which deals with the bodies in motion due to the application of forces.

KINEMATICS: It is that branch of Dynamics, which deals with the bodies in motion, without any reference to the forces which are responsible for the motion.

PRINCIPLE OF DYNAMICS:

1. A body can posses acceleration only when some force is applied on it. Or in other words, if no force is applied on the body, then there will be no acceleration, and the body will continue to move with the existing uniform velocity. 2. The force applied on a body is proportional to the product of the mass of the body and the acceleration produced in it.

NEWTON'S LAWS OF MOTION: Following are the three laws of motion, which were enunciated by Newton,

1. Newton's First Law of Motion states, "Everybody continues in its state of rest or of uniform motion, in a straight line, unless it is acted upon by some external force."
2. Newton's Second Law of Motion states, "The rate of change of momentum is directly proportional to the impressed force, and takes place in the same direction, in which the force acts."

$$F = ma = \text{Mass} \times \text{Acceleration}$$

3. Newton's Third Law of Motion states, "To every action, there is always an equal and opposite reaction."

30/08/2022

(SUBJECT INCHARGE)

30/08/2022

(HOD/CIVIL)

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DEPARTMENT OF CIVIL ENGINEERING

BRIDGE COURSE - I

STRENGTH OF MATERIALS

ACADEMIC YEAR 2022-2023

YEAR/SEMESTER: II/03

PREPARED BY

Mr.R.RAMCHANDAR, AP/ CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 01.08.2022

CIRCULAR

This is to inform, that our department is going to conduct a **bridge Course on STRENGTH OF MATERIALS** on this academic year 2022-2023 for II year, 3rd semester students. All students are requested to enroll their name to Mr.R.Ramchandar AP/CIVIL on or before **11.08.2022**.

R. Ramchandar 01/8/22

Coordinator
(Mr.R.Ramchandar AP/CIVIL)

R. Saravanan 01/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

SYLLABUS

STRENGTH OF MATERIALS

COURSE OBJECTIVE

1. To learn the fundamental concepts of Stress, Strain and deformation of solids.
2. To know the mechanism of load transfer in beams.
3. To analyze plane and space trusses

UNIT I STRESS, STRAIN AND DEFORMATION OF SOLIDS 6

Simple stresses and strains – Elastic constants – Relationship between elastic constants – Stress Strain Diagram – Ultimate Stress – Yield Stress .

UNIT II TRANSFER OF LOADS AND STRESSES IN BEAMS 6

Types of loads, supports, beams – Concept of Shearing Force and Bending Moment – Theory of Simple Bending – Stress Distribution due to bending moment and shearing force.

UNIT III DEFLECTION OF BEAMS 6

Elastic curve - Double integration method - Macaulay's method.

UNIT IV TORSION 6

Theory of Torsion - Power transmitted to shaft – Shaft in series and parallel – Closed and Open Coiled helical springs.

UNIT V ANALYSIS OF TRUSSES 6

Determinate and indeterminate trusses - method of sections and tension coefficient– Analysis of Space trusses by tension coefficient method.

TOTAL: 30 PERIODS

COURSE OUTCOME

At the end of the course, the students will be able to

1. Understand the concepts of stress and strain
2. Understand the concepts of Stresses In Beams.
3. Gain knowledge on Deflection Of Beams.
4. Apply basic equation of torsion in design of circular shafts and helical springs,
5. Analyze the pin jointed plane and space trusses.

05/8/22

STAFF INCHARGE

05/08/2022

HOD/CIVIL

DEPARTMENT OF CIVIL ENGINEERING

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Batch:2021 - 2025 | Strength:19

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17.8.22	BC(II)			RFC			BC(I)			CC	
18.8.22	BC(I)			CC			BC(II)			SDC	
20.8.22	SDC			RFC			BC(II)			BC(I)	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
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	G.V.Naaviniyaa	10

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T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P

DEPT. TTC 10/8/22

HOD 10/08/2022

PRINCIPAL 10/8/2022

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ACADEMIC YEAR 2022-23 (ODD SEM)
BRIDGE COURSE ON "STRENGTH OF MATERIALS"
ASSESSMENT MARKS

II YEAR CIVIL / 03 SEM

S.No.	Reg. Number	Student Name	Total marks(50)
1	821121103001	AKALYA J	48
2	821121103002	ANITHA B	42
3	821121103003	ARULPANDIYAN A	40
4	821121103004	ARUNKUMAR M	42
5	821121103005	HALITH A M	36
6	821121103006	MADHAN D S	38
7	821121103007	MANIKKARAJ R	37
8	821121103008	MATHANKUMAR S	40
9	821121103009	MOHAN S	48
10	821121103010	NAAVINIYAA G V	46
11	821121103011	NITHISH KUMAR T S	38
12	821121103012	PASHAGAN G (VOC)	36
13	821121103013	PRAGADISH M	42
14	821121103014	PRASANNA R	40
15	821121103015	SARAVANAN K	38
16	821121103016	SURYA.V	45
17	821121103017	TAMILARASAN T	48
18	821121103018	VENKATACHALAM D	46
19	821121103019	VIJAY S	46
20		SANJAIMANI M	40
21		SINDHU G	45
22		SURUTHI A	44

R. Ramchandar 30/8/22

COURSE INCHARGE
(Mr.R.RAMCHANDAR)

30/08/22

HOD/CIVIL
(DR.R.SARAVANAN)

UNIT - I

1. Define: Strain Energy.

When an elastic body is under the action of external forces the body deforms and work is done by these forces. If a strained, perfectly elastic body is allowed to recover slowly to its unstrained state. It is capable of giving back all the work done by these external forces. This work done in straining such a body may be regarded as energy stored in a body and is called strain energy or resilience.

2. Define: Proof Resilience.

The maximum energy stored in the body within the elastic limit is called Proof Resilience.

3. Write the formula to calculate the strain energy due to axial loads (tension).

$$U = \int \frac{P^2}{2AE}\, dx \qquad \text{limit } 0 \text{ to } L$$

Where,

P = Applied tensile load.
L = Length of the member.
A = Area of the member.
E = Young's modulus.

4. Write the formula to calculate the strain energy due to bending.

$$U = \int \frac{M^2}{2EI}\, dx \qquad \text{limit } 0 \text{ to } L$$

Where,

M = Bending moment due to applied loads.
E = Young's modulus.
I = Moment of inertia.

5. Write the formula to calculate the strain energy due to torsion.

$$U = \int \frac{T^2}{2GJ}\, dx \qquad \text{limit } 0 \text{ to } L$$

Where, T = Applied Torsion.
G = Shear modulus or Modulus of rigidity.
J = Polar moment of inertia.

6. Write the formula to calculate the strain energy due to pure shear.

$$U = k \int \frac{V^2}{2GA}\, dx \qquad \text{limit } 0 \text{ to } L$$

Where, V= Shear load.
G = Shear modulus or Modulus of rigidity.
A = Area of cross section.
k = Constant depends upon shape of cross section.

7. Write down the formula to calculate the strain energy due to pure shear, if shear stress is given.

$$U = \frac{\tau^2 V}{2G}$$

Where, τ = Shear Stress.
G = Shear modulus or Modulus of rigidity.
V = Volume of the material.

8. Write down the formula to calculate the strain energy , if the moment value is given.

$$U = \frac{M^2 L}{2EI}$$

Where, M = Bending moment.
L = Length of the beam.
E = Young's modulus.
I = Moment of inertia.

9. Write down the formula to calculate the strain energy , if the torsion moment value is given.

$$U = \frac{T^2 L}{2GJ}$$

Where, T = Applied Torsion.
L = Length of the beam.
G = Shear modulus or Modulus of rigidity.
J = Polar moment of inertia.

10. Write down the formula to calculate the strain energy, if the applied tension load is given.

$$U = \frac{P^2 L}{2AE}$$

Where,

P = Applied tensile load.
L = Length of the member.
A = Area of the member.
E = Young's modulus.

11. Write the Castigliano's first theorem.

In any beam or truss subjected to any load system, the deflection at any point is given by the partial differential coefficient of the total strain energy stored with respect to force acting at a point.

$$\delta = \frac{\partial U}{\partial P}$$ Where, δ = Deflection, U= Strain Energy stored, P = Load.

12. What are uses of Castigliano's first theorem?

1. To determine the deflection of complicated structure.
2. To determine the deflection of curved beams springs.

13. Define: Maxwell Reciprocal Theorem.

In any beam or truss the deflection at any point 'A' due to a load 'W' at any other point 'C' is the same as the deflection at 'C' due to the same load 'W' applied at 'A'.

$\delta_A = \delta_C$

14. Define: Unit load method.

The external load is removed and the unit load is applied at the point, where the deflection or rotation is to found.

15. Give the procedure for unit load method.

1. Find the forces P1. P2. ..... in all the members due to external loads.
2. Remove the external loads and apply the unit vertical point load at the joint if the vertical deflection is required and find the stress.
3. Apply the equation for vertical and horizontal deflection.

16. Compare the unit load method and Castigliano's first theorem

In the unit load method, one has to analyze the frame twice to find the load and deflection. While in the latter method, only one analysis is needed.

17. Find the strain energy per unit volume, the shear stress for a material is given as 50 N/mm ^{2}. Take G= 80000 N/mm ^{2}.

$U = \frac{\tau^2}{2G}$ per unit volume

$= 50^2 / (2 \times 80000)$

$= 0.015625$ N/mm ^{2}. per unit volume.

18. Find the strain energy per unit volume, the tensile stress for a material is given as 150 N/mm ^{2}. Take E = 2 x10 N/mm ^{2}.

$U = \frac{f^2}{2E}$ per unit volume

$= (150)^2 / (2 \times (2 \times 10^2))$

$= 0.05625$ N/mm ^{2}. per unit volume.

19.Define : Modulus of resilience.

The proof resilience of a body per unit volume. (ie) The maximum energy stored in the body within the elastic limit per unit volume.

20. Define : Trussed Beam.

A beam strengthened by providing ties and struts is known as Trussed Beams.

R. Ramchandra 30/8/22

30/08/22

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Recognised by UGC 2(f) & 12(B)
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Punalkulam, Near Thanjavur, Pudukkottai Dt - 613303

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. ***J.AKALYA*** *of* ***II YR*** *Civil Engineering has completed* ***BRIDGE COURSE*** *in the topic* ***STRENGTH OF MATERIALS*** *organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during* ***AUGUST 2022.***

Mr.R.RAMCHANDAR	**Dr.R.SARAVANAN**	**Dr.J.ARPUTHA VIJAYA SELVI**
COURSE INCHARGE	**HOD/CIVIL**	**PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. **S.VIJAY** of **II YR** Civil Engineering has completed **BRIDGE COURSE** in the topic **STRENGTH OF MATERIALS** organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during **AUGUST 2022**.

R. Ramchandar	R. Saravanan	J. Arputha
Mr.R.RAMCHANDAR	**Dr.R.SARAVANAN**	**Dr.J.ARPUTHA VIJAYA SELVI**
COURSE INCHARGE	HOD/CIVIL	PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 22.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **bridge Course on STRUCTURAL DESIGN AND DRAWING** on this academic year 2022-2023 for final year, 7th semester students. All students are requested to enroll their name to Mr.R.Ramchandar AP/CIVIL on or before **29.07.2022.**

R. Ramchandar 22/07/22

Coordinator
(Mr.R.Ramchandar AP/CIVIL)

R. Saravanan 22/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

BRIDGE COURSE

STRUCTURAL DESIGN AND DRAWING

YEAR/SEMESTER: IV/07

ACADEMIC YEAR : 2022-2023 (ODD SEM)

PREPARED BY

Mr.R.RAMCHANDAR, AP/CIVIL

SYLLABUS
STRUCTURAL DESIGN AND DRAWING

OBJECTIVES:

- The course aims at providing students with a solid background on the principles of structural engineering design.
- Students will be acquire the knowledge of liquid retaining structures, retaining wall and industrial structures.

UNIT -I RETAINING WALLS 6

Reinforced concrete Cantilever Retaining Walls–Horizontal Backfill with Surcharge–Design of Shear Key-Design and Drawing.

UNIT-II FLAT SLAB AND BRIDGES 6

Design of Flat Slabs with and without drops by Direct Design Method of IS code- Design and Drawing - IRC Specifications and Loading.

UNIT-III LIQUID STORAGE STRUCTURES 6

RCC Water Tanks - On ground - Design and Drawing

UNIT-IV INDUSTRIAL STRUCTURES 6

Structural steel Framing - Steel Roof Trusses

UNIT-V GIRDERS AND CONNECTIONS 6

Plate Girders – Behaviour of Components

TOTAL: 30 PERIODS

COURSE OUTCOME

At the end of the course, the students will be able to

- Design and draw reinforced concrete Cantilever Retaining Walls
- Design and draw flat slab as per code provisions
- Design and draw reinforced concrete Water tanks
- Gain knowledge on Structural steel Framing
- Gain knowledge on Deign of Plate Girder

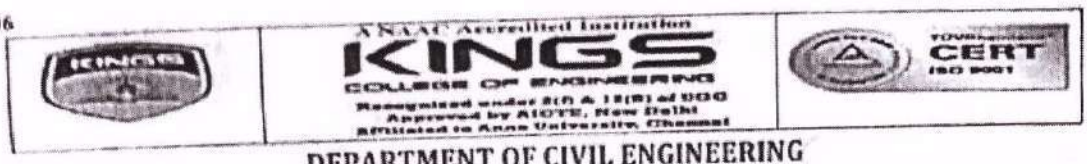
R. Ramchandar 22/7/22

STAFF INCHARGE
(Mr.R.RAMCHANDAR)

R. Saravanan 28/07/2022

HOD/CIVIL
(Dr.R.SARAVANAN)

Format-QP06



DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (1.8.2022 - 6.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2019 - 2023 Strength:20

Year: IV Semester: VII Class Room : 233 Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	Orientation		BREAK	CC		LUNCH BREAK	COMM.SKILL		BREAK	BC	
TUE	RFC			CC			COMM.SKILL			BC	
WED	RFC			CC			COMM.SKILL			BC	
THU	T&P(SS)	T&P(A)		CC			COMM.SKILL			BC	
FRI	RFC			CC			COMM.SKILL			BC	
SAT	RFC			CC			COMM.SKILL			BC	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.K.Arun	CIVIL	2
COMM.SKILL	Communication Skill	-	Mr.D.Dinesh	ENGLISH	12
BC	Bridge Course	-	Mr.R.Ramchandar	CIVIL	12
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	08
T&P (A)	Training & Placement - Aptitude	-	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		Dr.K.Sudhakar	T&P	1
CC	Certification Course - Sketchup	-	Mr.R.Chandrasekar	CIVIL	12

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.K.Arun	B.Agalya M.Jayaseelan	01 08

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
LIB/NET	Library / Internet	VAI	Mr.K.Arun	CIVIL	1
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	1
RC	Refresher Course	VAI	Ms.S.Gayathri	CIVIL	2
T&P (A)	Training & Placement - Aptitude	VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI	Dr.K.Sudhakar	T&P	1

DEPT. TTC

HOD 30/07/2022

PRINCIPAL 30/7/2022

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ACADEMIC YEAR 2022-23 (ODD SEM)

BRIDGE COURSE ON "STRUCTURAL DESIGN AND DRAWING"

ASSESSMENT MARKS

IV YEAR CIVIL / 07 SEM

S.No.	Reg. Number	Student Name	Total Marks (50)
1	821119103001	AGALYA B	46
2	821119103002	ANBUMANI S	36
3	821119103003	ARUNKUMAR M	37
4	821119103004	ARUNPRASAD S	38
5	821119103005	DIVYA S	45
6	821119103006	JANANI T S	40
7	821119103007	JAYACHANDRAN N	36
8	821119103008	JAYASEELAN M	42
9	821119103010	KURALARASAN R	45
10	821119103011	MADHUMITHA R	44
11	821119103012	MONIKA M	40
12	821119103013	PREMKUMAR J	38
13	821119103014	RENGESWARI R	42
14	821119103015	RUBIKA M	40
15	821119103016	SANTHOSH S	38
16	821119103017	SATHYA P	44
17	821119103018	STALIN P	46
18	821119103019	VIMAL R	40
19	821119103301	DANIEL NAVIS F	36
20	821119103501	KARTHIKEYAN R	38
21		ABIRAMI	45

R. Ramchandar 30/8/22

COURSE INCHARGE
(Mr.R.RAMCHANDAR)

30/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

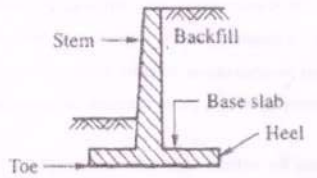
STRUCTURAL DESIGN AND DRAWING

CANTILEVER RETAINING WALL

Cantilever retaining wall:

Cantilever retaining walls are constructed of reinforced concrete. They consist of a relatively thin stem and a base slab. The base is also divided into two parts, the heel and toe. The heel is the part of the base under the backfill. The toe is the other part of the base.

Parts of cantilever retaining wall:



Why use a cantilever wall instead of gravity?

Cantilevered retaining walls use much less material than a traditional gravity walls. The retaining wall operates like a beam, cantilevering the load to a large, fixed structural base, and converting horizontal pressures from behind the wall into vertical pressures on the ground below.

Step 3: Stability calculation

a) Find load

W= Area*Density

a) Find moment

M= w*length

c) Point of application at a

$$z = \frac{\sum m}{\sum w}$$

d) Eccentricity

e= (z-b/2)

Maximum and minimum pressure at base:

- Maximum pressure at toe
- Maximum pressure at heel

Step 4: Design of heel slab

a) Find load

W= Area * Density

a) Find moment

M= w*length

a) Deduction

1) Upward pressure 'abjh'

2) Upward pressure 'ghj'

3)Moment Deduction 'abjh'

4)Moment Deduction 'ghj'

d) Max. Service BM in heel slab

M= M-Md

e) Factored moment

Mu= M*1.5

f) Find Ast

Mu= (0.87*fy*Ast*d) [(1-Ast*fy)/(b*d*fck)]

check

$$P = K_a \cdot \frac{\omega H^2}{2}$$

Step 7: Design of shear key

Passive pressure = $K_p \times P$

$K_p = \frac{1}{K_a}$ =

Total passive pressure $P_p = P_p \times \alpha$

Shear stress at function

$\tau_v = \frac{V_u}{bd}$

$V_u = V \times 1.5$

$V = (1 \times K_p - \mu \omega)$

$\tau_c > \tau_v$ Safe

Step 8: Reinforcement details

Thank you

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. **S.DIVYA** of **IV YR** Civil Engineering has completed **BRIDGE COURSE** in the topic **STRUCTURAL DESIGN AND DRAWING** organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during **AUGUST 2022**.

Mr.R.RAMCHANDAR COURSE INCHARGE	**Dr.R.SARAVANAN** HOD/CIVIL	**Dr.J.ARPUTHA VIJAYA SELVI** PRINCIPAL

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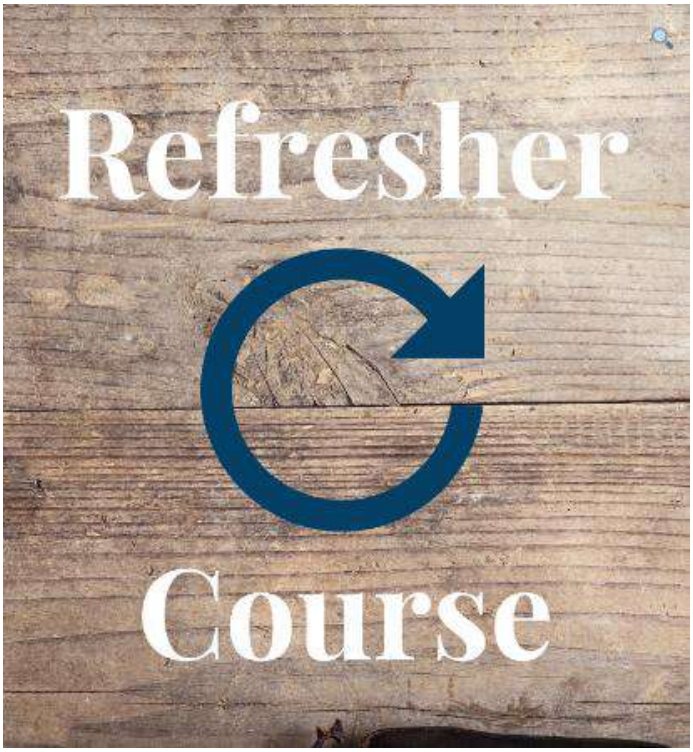
DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. **S.SANTHOSH** of **IV YR** Civil Engineering has completed **BRIDGE COURSE** in the topic **STRUCTURAL DESIGN AND DRAWING** organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during **AUGUST 2022**.

R. Ramchandar		J. Arputha
Mr.R.RAMCHANDAR	**Dr.R.SARAVANAN**	**Dr.J.ARPUTHA VIJAYA SELVI**
COURSE INCHARGE	**HOD/CIVIL**	**PRINCIPAL**

REFRESHER COURSE



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 25.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **REFRESHER COURSE on BASICS IN SURVEYING** on this academic year 2022-2023, Second year students are requested to enroll their name to Ms.S.GAYATHRI AP/CIVIL on or before **04.08.2022**.

S. Gayathri 25/7/22

Coordinator
(Ms.S.GAYATHRI AP/CIVIL)

R. Saravanan 25/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

RFC-REFRESHER COURSE

BASICS IN SURVEYING

YEAR/SEMESTER: II/III

ACADEMIC YEAR: 2022-2023(ODD SEM)

PREPARED BY

MS.S.GAYATHRI/ AP /CIVIL

BASICS IN SURVEYING

SYLLABUS

OBJECTIVES :

- To introduce the rudiments of plane surveying and geodetic principles to Civil Engineers.
- To learn the various methods of plane and geodetic surveying to solve the real world Civil Engineering problems.
- To introduce the concepts of Control Surveying

UNIT I FUNDAMENTALS OF CONVENTIONAL SURVEYING AND LEVELLING 5

Classifications and basic principles of surveying - Equipment and accessories for ranging and chaining - Methods of ranging - Compass - Levelling.

UNIT II THEODOLITE AND TACHEOMETRIC SURVEYING 6

Tacheometer - Stadia Constants - Analytic Lens -Tangential and Stadia Tacheometry surveying - Contour – Contouring– Methods of contouring – Tacheometric contouring - Contour gradient.

UNIT III CONTROL SURVEYING AND ADJUSTMENT 6

Horizontal and vertical control – Methods – specifications – triangulation- baseline – satellite stations – Reduction to centre- trigonometrically leveling – single and reciprocal observations – traversing – Gale's table.

UNIT IV ADVANCED TOPICS IN SURVEYING 6

Hydrographic Surveying – Tides – MSL – Sounding methods – Three point problem – Strength of fix – astronomical Surveying – Field observations and determination of Azimuth by altitude and hour angle methods.

UNIT V MODERN SURVEYING 7

Total Station: Advantages - Fundamental quantities measured - Parts and accessories - working principle - On board calculations - Field procedure.

GPS Surveying: Different segments - space, control and user segments - satellite configuration - signal structure -Traversing and triangulation.

TOTAL: 30 PERIODS

OUTCOMES:

At the end of the course the student will be able to understand

- The use of various surveying instruments and mapping
- Measuring Horizontal angle and vertical angle using different instruments
- Methods of Leveling and setting Levels with different instruments
- Concepts of astronomical surveying and methods to determine time, longitude, latitude and azimuth
- Concept and principle of modern surveying.

S. Gayathri 11/8/22

STAFF INCHARGE
(Ms.S.GAYATHRI)

R. Saravanan 11/08/2022

HOD/CIVIL
(Dr.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING
COURSE PLAN

Sub.Name : Basics in Surveying
Staff Name : Ms.S.Gayathri
Branch / Year / Sem : B.E / II /III
Batch : 2021-2025
Academic Year : 2022-23 (ODD)

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	**FUNDAMENTALS OF CONVENTIONAL SURVEYING AND LEVELLING**			**(5)**
1	Classifications and basic principles of surveying	BB	1	1
2	Equipment and accessories for ranging and chaining	BB	2	3
3	Methods of ranging – Compass Leveling.	BB	2	5
UNIT II	**THEODOLITE AND TACHEOMETRIC SURVEYING**			**(6)**
4	Tachometer - Stadia Constants	BB	1	6
5	Analytic Lens -Tangential and Stadia Tachometry surveying	BB	2	8
6	Contour – Contouring– Methods of contouring	BB/PPT	2	10
7	Tachometric contouring - Contour gradient	BB	1	11
UNIT III	**CONTROL SURVEYING AND ADJUSTMENT**			**(6)**
8	Horizontal and vertical control – Methods	BB	1	12
9	specifications – triangulation- baseline – satellite stations	BB	2	14
10	Reduction to centre-trigonometrically leveling	BB/PPT	1	15
11	single and reciprocal observations	BB	1	16
12	Traversing –Gale's table.	BB	1	17
UNIT IV	**CONTROL SURVEYING AND ADJUSTMENTS**			**(6)**
13	Hydrographic Surveying – Tides – MSL – Sounding methods	BB/PPT	2	19
14	Three point problem -Strength of fix	BB	2	21
15	Astronomical Surveying	BB/PPT	1	22
16	Field observations and determination of Azimuth by altitude and hour anglemethods.	BB	1	23

UNIT IV	MODERN SURVEYING			(7)
17	Total Station: Advantages - Fundamental quantities measured	BB/PPT	1	24
18	Parts and accessories - working principle - On board calculations - Field procedure.	BB	2	26
19	GPS Surveying: Different segments - space, control and user segments - satellite configuration	BB/PPT	2	28
20	Signal structure -Traversing and triangulation.	BB	2	30

COURSE OUTCOME

At the end of the course the student will be able to understand

- The use of various surveying instruments and mapping
- Measuring Horizontal angle and vertical angle using different instruments
- Methods of Leveling and setting Levels with different instruments
- Concepts of astronomical surveying and methods to determine time, longitude, latitude and azimuth
- Concept and principle of modern surveying.

S. Gayathri 11/8/22

Prepared by

Ms.S.GAYATHRI

R. Saravanan 11/8/2022

Verified By

HOD/CIVIL

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (11.8.2022 - 20.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 11.8.2022

Batch:2021 - 2025 **Strength:19**

Year: II **Semester: III** **Class Room : 234** **Block: II**

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Date	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
11.8.22	ORIENTATION		BREAK	CC		LUNCH BREAK	RFC		BREAK	SDC	
12.8.22	RFC			CC			BC(I)			SDC	
16.8.22	BC(II)			RFC			CC			SDC	
17.8.22	BC(II)			RFC			BC(I)			CC	
18.8.22	BC(I)			CC			BC(II)			SDC	
20.8.22	SDC			RFC			BC(II)			BC(I)	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.R.Ramchandar	CIVIL	2
BC(I)	Bridge Course I (SOM)	-	Mr.R.Ramchandar	CIVIL	8
BC(II)	Bridge Course II (EM)	-	Ms.D.Sharmila	CIVIL	8
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	10
CC	Certification Course - AutoCADD	-	Mr.R.Chandrasekar	CIVIL	10
SDC	Skill Development Course (MS OFFICE)	-	Mr.R.Sundharam	CIVIL	10

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.R.Ramchandar	S.Mohan	09
	G.V.Naaviniyaa	10

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS				
CC	Certification Course - AutoCADD	VAI	Mr.R.Chandrasekar	CIVIL
LIB/NET	Library / Internet	VAI	Mr.R.Ramchandar	CIVIL
NPTEL	NPTEL Swayam Courses	VAI	Mr.R.Ramchandar	CIVIL
T&P (A)	Training & Placement - Aptitude	VAI	Dr.K.Sudhakar	T&P
T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P

DEPT. TTC 10/8/22

HOD 10/08/2022

PRINCIPAL 10/8/2022

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ACADEMIC YEAR 2022-23 (ODD SEM)

RFC-BASICS IN SURVEYING

ASSESSMENT MARKS

II YEAR CIVIL / V SEM

S.No.	Reg. Number	Student Name	Total marks(50)
1	821121103001	AKALYA J	50
2	821121103002	ANITHA B	50
3	821121103003	ARULPANDIYAN A	48
4	821121103004	ARUNKUMAR M	47
5	821121103005	HALITH A M	42
6	821121103006	MADHAN D S	43
7	821121103007	MANIKKARAJ R	42
8	821121103008	MATHANKUMAR S	42
9	821121103009	MOHAN S	50
10	821121103010	NAAVINIYAA G V	50
11	821121103011	NITHISH KUMAR T S	43
12	821121103012	PASHAGAN G (VOC)	45
13	821121103013	PRAGADISH M	45
14	821121103014	PRASANNA R	43
15	821121103015	SARAVANAN K	42
16	821121103016	SURYA.V	50
17	821121103017	TAMILARASAN T	50
18	821121103018	VENKATACHALAM D	50
19	821121103019	VIJAY S	50
20		SANJAIMANI M	47
21		SINDHU G	49
22		SURUTHI A	49
23		MOHAMMED RIYAZ J	48

S. Gayathri 22/8/22

SUBJECT INCHARGE

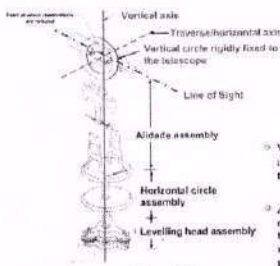
(MS.S.GAYATHRI)

R. Saravanan 22/08/2022

HOD/CIVIL

(DR.R.SARAVANAN)

THEODOLITE: INTRODUCTION

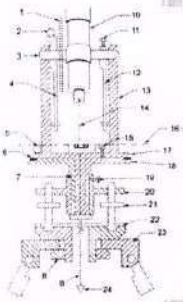


Three assemblies of Theodolite

- Vernier theodolite is also known as transit.
- A transit theodolite is one in which the telescope can be rotated in a vertical plane.

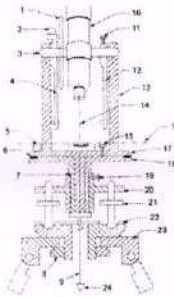
MAIN PARTS-3

- **Clamps and tangent screws (15, 19):**
  - There are two clamps and associated tangent screws with the plate. These screws facilitate the motion of the instruments in horizontal plane.
  - Lower clamp screw locks or releases the lower plate. When this screw is unlocked both upper and lower plates move together. The associated lower tangent screw allows small motion of the plate in locked position.
  - The upper clamp screw locks or releases the upper vernier plate. When this clamp is released the lower plate does not move but the upper vernier plate moves with the instrument. This causes the change in the reading. The upper tangent screw allows the fine adjustment.



INTRODUCTION

- Theodolite is used to measure the horizontal and vertical angles.
- Theodolite is more precise than magnetic compass.
- Magnetic compass measures the angle up to an accuracy of 30'. However a vernier theodolite measures the angles up to and accuracy of 10", 20".
- There are variety of theodolite vernier, optic, electronic etc.

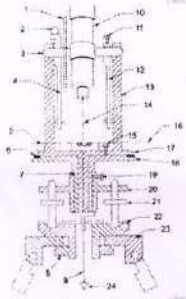


- **Main parts of a theodolite**
  - **Levelling head (7):** Levelling head is used to attach the instrument to tripod and attach the plumb bob along the vertical axis of the instrument.

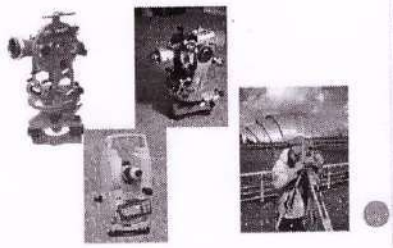
1. Vertical axis
2. Alidade bubble
3. Horizontal axis
4. Vernier axis
5. Plate bubble
6. Graduated arc
7. Levelling head
8. Clamping nut
9. Vertical axis
10. Telescope
11. Vertical axis clamping screw
12. Axis of the vertical circle clamp
13. Alidade
14. Line of sight
15. Upper plate clamping screw
16. Axis of plate bubble
17. Upper plate
18. Lower plate
19. Lower plate clamping screw
20. Telescope
21. Foot screw
22. Tilt-nut
23. Tripod nut
24. Plumb bob

MAIN PARTS-4

- **Plate level (5):**
  - Spirit level with the bubble and graduation on glass cover.
  - A single level or two levels fixed in perpendicular direction may be provided.
  - The spirit level can be adjusted with the foot screw (21) of the levelling head (7).
- **Telescope (10):** The essential parts of the telescopes are eye-piece, diaphragm with cross hairs, object lens and arrangements to focus the telescope.

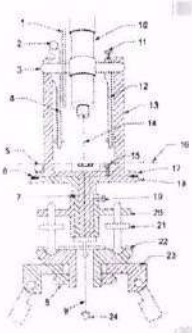


TYPE OF THEODOLITE



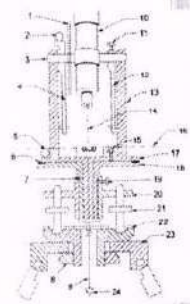
MAIN PARTS-2

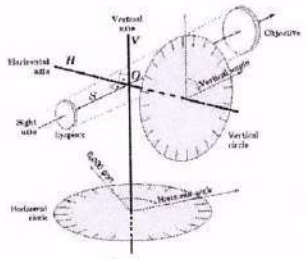
- **Lower plate/circle plate (18):** an annular horizontal plate with the graduations provided all around, from 0 to 360°, in a clockwise direction. The graduations are in degree divided in to 3 parts so that each division equals to 20 min.
- Horizontal angles are measured with this plate.
- The size of the theodolite is defined by the diameter of horizontal circle.
- **Upper plate (17):** Horizontal plate of smaller diameter provided with two vernier on diametrically opposite parts of its circumference. These verniers are designate as A and B. They are used to read fractions of the horizontal circle plate graduations. The verniers are graduated in 20 min and each minute is divided in 3 to 5 parts make least count 20" or 10".



MAIN PARTS-5

- **Vertical circle (1):** circular plate supported on horizontal axis of the instrument between the A-frames. Vertical circle has graduation 0-90 in four quadrants. Vertical circle moves with the telescope when it is rotated in the vertical plane.
- **Vertical circle clamp and tangent screw (11):** Clamping the vertical circle restrict the movement of telescope in vertical plane.
- **Altitude level (2):** A highly sensitive bubble is used for levelling particularly when taking the vertical angle observations.





Adjustment of the theodolite

Temporary Adjustment

1. The levelling screws are at the centre of their run.
2. The shifting head of the theodolite is at its centre so that equal movement is possible in all the directions.
3. The wing nuts on the tripod legs are tight enough so that when raised, the tripod legs do not fall under their own weight.

Setting up the theodolite

Centring This involves setting the theodolite exactly over the station mark or on the station peg. It is done by the following steps:

1. The plumb bob is suspended from a small hook attached to the vertical axis of the theodolite.
2. The instrument is placed over the station mark with the telescope at a convenient height and with the tripod legs set well apart.
3. Two legs of the tripod are set firmly into the ground and the third leg is moved radially to bring the plumb bob exactly over the station mark. Then the third leg is also pushed into the ground.
4. If the instrument has a shifting head, the instrument is roughly centred over the station mark and then by means of the shifting head, the plumb bob is brought exactly over the station mark.

Approximate levelling This implies levelling the instrument with the legs of the tripod, i.e. by bringing the small circular bubble provided on the tribrach in the centre. To achieve this, two of the tripod legs are pushed firmly into the ground and the third leg of the tripod is moved to the right or to the left, i.e. in the circumferential direction until the bubble is centred. This leg is then pushed into the ground.

In the case of a three screw levelling head, the other plate level will then be parallel to the line joining the third foot screw and the mid-point of the line joining the first two foot screws, as shown in Fig. 4.4.

2. Bring the bubble of the longer plate level to the centre of its run by moving the two foot screws, say A and B, uniformly either inwards or outwards (Fig. 4.4(a)). It may be noted that the bubble always moves in the direction of the left thumb as the surveyor turns the screw.
3. Move the third foot screw C so that the bubble in the other plate level is centred (Fig. 4.4(b)).

4.9.3 Focussing

It consists of focussing the eyepiece and the objective.

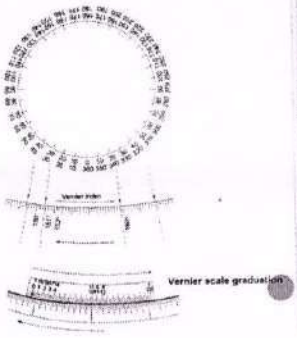
Focussing the eyepiece This operation is done to make the cross-hairs appear clearly visible. The following steps are involved:

1. The telescope is directed towards the sky or a sheet of white paper held in front of the objective.
2. The eyepiece is moved in or out until the cross-hairs appear clear and distinct.

Focussing the objective This operation is done to bring the image of the object in the plane of the cross-hairs. The following steps are involved:

1. The telescope is directed towards the object.
2. The focussing screw is turned until the image appears clear and sharp.

Reading a theodolite



Measurement of horizontal angle

- Measurement of Angle ABC
  - The instrument is set over B.
  - The lower clamp is kept fixed and upper clamp is loosened.
  - Turn the telescope clockwise set vernier A to 0° and vernier B to approximately 180°
  - Upper clamp is tightened and using the upper tangent screw the vernier A and B are exactly set to 0° and 180°.
  - Upper clamp is tightly fixed, lower one is loosened and telescope is directed towards A and bisect the ranging rod at A.
  - Tightened the lower clamp and turn the lower tangent screw to perfectly bisect ranging rod at A.
  - Loose the upper clamp and turn the telescope clockwise to bisect the ranging rod at C tightened the upper clamp and do the fine adjustment with upper tangent screw.
  - The reading on vernier A and B are noted. Vernier A gives the angle directly and vernier B gives the reading by subtracting the initial reading (180°) from final reading.

Important Definition

Face Right When the vertical circle of a theodolite is on the right of the observer, the position is called *face right* and the observation made is called face right observation.

Face Left When the vertical circle of a theodolite is on the left of the observer, the position is called *face left* and the observation made is called face left observation.

By taking the mean of both face readings, the collimation error is eliminated.

Telescope Normal The telescope is said to be *normal* or *direct* when its vertical circle is to the left of the observer and the bubble is up.

Telescope Inverted The telescope is said to be *inverted* when its vertical circle is to the right of the observer and the bubble is down.

Changing face

- Revolving the telescope by 180° in vertical plane about horizontal axis
- Again revolving the telescope in horizontal plane about vertical axis.

4.9.2 Levelling up

This means making the vertical axis truly vertical. This is done with the help of the foot screws. The procedure is as follows:

1. The longer plate level is brought parallel to any two foot screws.

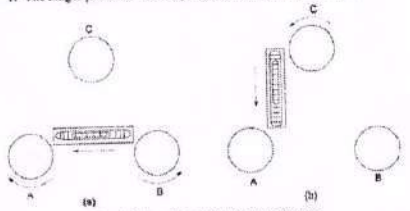
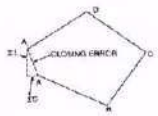


Fig. 4.4 Levelling with three foot screws

- Read these two method
  - Repetition method
  - Reiteration method

- . Personal errors
- Natural errors
  - High temperature causes error due to irregular refraction.
  - High winds cause vibration in the instrument, and this may lead to wrong readings on verniers

- **Closing error**



Closing error, $\Delta A_c = \sqrt{(\Sigma L)^2 + (\Sigma D)^2}$

where L = latitude

and D = departure

Relative closing error = $\frac{\text{closing error}}{\text{perimeter of traverse}}$

Permissible angular error = bias error in $\sqrt{N}$

where N = number of sides

$\sin\delta = \frac{\Sigma D}{\Sigma L}$

where δ indicates the direction of closing error.

PROBLEM

- Calculate the latitudes, departures and closing error for the following traverse conducted at allahabad. Adjust also the traverse using Bowditch's rule.

Line	Length	WCB
AB	89.31	45° 10'
BC	219.76	72° 05'
CD	151.18	161° 52'
DE	159.10	228° 42'
EA	232.26	300° 42'

Balancing of traverse

- **Bowditch's rule:**
  - Total error is distributed in proportion to the lengths of the traverse legs.

(a) Correction to latitude of any side

$= \frac{\text{length of that side}}{\text{perimeter of traverse}} \times$ total error in latitude

(b) Correction to departure of any side

$= \frac{\text{length of that side}}{\text{perimeter of traverse}} \times$ total error in departure

2. Transit rule

(a) Correction to latitude of any side

$= \frac{\text{latitude of that side}}{\text{arithmetical sum of all latitudes}} \times$ total error in latitude

(b) Correction to departure of any side

$= \frac{\text{departure of that side}}{\text{arithmetical sum of all departures}} \times$ total error in departures

Side	Latitude	Departure
AB	+ 225.0	+ 125.5
BC	− 243.0	+ 210.0
CD	− 150.5	− 110.5
DA	+ 170.0	− 225.0

Solution: The consecutive coordinates are arranged in independent coordinates form as follows:

Stations	Side	Consecutive coordinates		Independent coordinates	
		Latitude (y)	Departure (x)	Latitude (y)	Departure (x)
A				+ 200.00	+ 100.00
B	AB	+ 225.5	+ 120.5	+ 425.50	+ 220.50
C	BC	− 243.0	+ 210.0	+ 180.50	+ 430.50
D	CD	− 150.5	− 110.5	+ 30.00	+ 320.00
A	DA	+ 170.0	− 220.0	+ 200.00	+ 100.00

The independent coordinates of the first stationary station A are assumed to be (+ 200, + 100).

Thus, the independent coordinates of all the stations become positive (i.e. they come in the first quadrant).

The coordinates are now arranged in determinant form as follows:

$$\begin{matrix} 200.00 & 425.50 & 180.50 & 30.00 & 200.00 \\ 100.00 & 220.50 & 430.50 & 320.00 & 100.00 \end{matrix}$$

Sum of products of coordinates joined by solid lines.

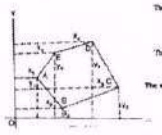
$\Sigma P = (200.0 \times 220.5 + 425.5 \times 430.5 + 180.5 \times 320.0 + 30.0 \times 100.0)$
$= 188,037.75$

Sum of products of coordinates joined by dotted lines.

$\Sigma Q = (100.0 \times 425.5 + 220.5 \times 180.5 + 430.5 \times 30.0 + 320 \times 200.0)$
$= 159,265.25$

Required area $= \frac{1}{2}(\Sigma P - \Sigma Q) = \frac{1}{2}(188,037.75 - 159,265.25)$
$= 14,366.25\ m^2$

Calculation of traverse area



Thus, the coordinates are arranged in determinant form as follows:

$$\begin{matrix} y_1 & y_2 & y_3 & y_4 & y_5 & y_6 \\ x_1 & x_2 & x_3 & x_4 & x_5 & x_6 \end{matrix}$$

The sum of the products of coordinates joined by solid lines.

$\Sigma P = (y_1x_2 + y_2x_3 + y_3x_4 + y_4x_5 + y_5x_6)$

The sum of the products of coordinates joined by dotted lines.

$\Sigma Q = (x_1y_2 + x_2y_3 + x_3y_4 + x_4y_5 + x_5y_6)$

Double area $= \Sigma P - \Sigma Q$

So, Required area $= \frac{1}{2} - (\Sigma P - \Sigma Q)$

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Punalkulam, Near Thanjavur, Pudukkottai Dt - 613303

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. S.MOHAN of II YR Civil Engineering has completed REFRESHER COURSE in the topic BASICS IN SURVEYING organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during AUGUST 2022.

Ms.S.GAYATHRI COURSE INCHARGE	Dr.R.SARAVANAN HOD/CIVIL	Dr.J.ARPUTHA VIJAYA SELVI PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. G.V.NAAVINYAA *of* II YR *Civil Engineering has completed* REFRESHER COURSE *in the topic* BASICS IN SURVEYING *organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during* AUGUST 2022.

Ms.S.GAYATHRI	**Dr.R.SARAVANAN**	**Dr.J.ARPUTHA VIJAYA SELVI**
COURSE INCHARGE	HOD/CIVIL	PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

REFRESHER COURSE

UNITS AND MEASUREMENTS

YEAR/SEMESTER: III/05

ACADEMIC YEAR: 2022-2023(ODD SEM)

PREPARED BY

Mr.R.RAMCHANDAR/ AP /CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **Refresher Course on UNITS AND MEASUREMENTS** on this academic year 2022-2023, interested students are requested to enroll their name to Mr.R.Ramchandar AP/CIVIL on or before **30.07.2022**.

R. Ramchandar 20/7/22

Coordinator
(Mr.R.Ramchandar AP/CIVIL)

R. Saravanan 20/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

SYLLABUS

OBJECTIVES :

- To introduce the fundamentals of units
- To know about the basic measurements
- To know about the imperial units

UNIT I - FUNDAMENTALS OF UNITS 6

Introduction - Systems of units - Traditional systems - Metric systems - Natural systems

UNIT II - TYPES OF UNITS 6

Metric System of units - The imperial system of units - US customary units - Basic standard quantity.

UNIT III - UNIT OF MEASUREMENT LIST 6

Length - Mass – capacity- Time - Temperature - Conversion of the units of measurement

UNIT IV - LENGTH, MASS & VOLUME 6

Imperial Units of Measurement - Units of Measurement for Length - Units of Measurement for Mass - Units of Measurement for Volume

UNIT V - TEMPERATURE, TIME & CHART 6

Units of Measurement for Temperature - Units of Measurement of Time - Units of Measurement Chart - Comparison of metric and imperial

TOTAL: 30 PERIODS

OUTCOMES:

At the end of the course the student will be able to understand

- Understand types of units and fundamentals.
- Gain knowledge on system of units
- Measuring using different system of units.
- Gain knowledge on units and measurements
- The use of various units.

R. Ramchandar 22/7/22

STAFF INCHARGE
(Mr.R.RAMCHANDAR)

R. Saravanan 22/07/2022

HOD/CIVIL
(Dr.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING
COURSE PLAN

Sub Name	: UNITS AND MEASUREMENTS	**Branch / Year / Sem**	: B.E Civil /III/05
Staff Name	: Mr.R.Ramchandar	**Batch**	: 2019-2023
		Academic Year	: 2022-23(ODD)

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	**FUNDAMENTALS OF UNITS**			**(6)**
1	Introduction - Systems of units	BB	2	2
2	Traditional systems	PPT	2	4
3	Metric systems - Natural systems	BB	2	6
UNIT II	**TYPES OF UNITS**			**(6)**
4	Metric System of units	BB	1	7
5	The imperial system of units	BB	2	9
6	US customary units	BB/PPT	2	11
7	Basic standard quantity.	BB	1	12
UNIT III	**UNIT OF MEASUREMENT LIST**			**(6)**
8	Length	BB	1	13
9	Mass - capacity	BB	2	15
10	Time	BB/PPT	1	16
11	Temperature	BB	1	17
12	Conversion of the units of measurement	BB	1	18
UNIT IV	**LENGTH, MASS & VOLUME**			**(6)**
13	Imperial Units of Measurement	BB/PPT	2	19
14	Units of Measurement for Length	BB	2	21
15	Units of Measurement for Mass	BB/PPT	1	22
16	Units of Measurement for Volume	BB	1	23
UNIT V	**TEMPERATURE, TIME & CHART**			**(6)**
17	Units of Measurement for Temperature	BB/PPT	1	24
18	Units of Measurement of Time	BB	2	26

19	Units of Measurement Chart	BB/PPT	2	28
20	Comparison of metric and imperial	BB	2	30

COURSE OUTCOME

At the end of the course the student will be able to understand

- Understand types of units and fundamentals.
- Gain knowledge on system of units
- Measuring using different system of units.
- Gain knowledge on units and measurements
- The use of various units.

R. Ramchandar 22/7/22

Prepared by
(Mr.R.RAMCHANDAR)

R. Swanam 22/07/2022

Verified By
HOD/CIVIL

Format-QP06

DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (1.8.2022 - 6.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2020 - 2024 | Strength:20

Year: III | Semester: V | Class Room : 235 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	ORIENTATION		BREAK	COMM.SKILL		LUNCH BREAK	BC		BREAK	CC	
TUE	RFC			COMM.SKILL			BC			CC	
WED	RFC			T&P(A)	T&P(SS)		BC			CC	
THU	RFC			COMM.SKILL			BC			CC	
FRI	RFC			COMM.SKILL			BC			CC	
SAT	RFC			COMM.SKILL			BC			CC	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.R.Sundharam	CIVIL	2
BC	Bridge Course	-	Ms.K.Elakkiya	CIVIL	12
COMM.SKILL	Communication Skill	-	Mr.J.Radhakrishnan	ENGLISH	10
RFC	Refresher Course	-	Mr.R.Ramchandar	CIVIL	10
T&P (A)	Training & Placement - Aptitude		Dr.K.Sudhakar	T&P	1
T&P(SS)	Training & Placement - Softskill		Mr.B.Suresh Babu	T&P	1
CC	Certification Course - AutoCADD	-	Mr.R.Chandrasekar	CIVIL	12

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.R.Sundharam	G.Bharath S.Sneha	01 13

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
CC	Certification Course - AutoCADD	VAI	Mr.R.Chandrasekar	CIVIL	2
GATE / CE	GATE / Competitive Exam	VAI	Ms.D.Shrividhya	CIVIL	2
LIB/NET	Library / Internet	VAI	Mr.R.Sundharam	CIVIL	1
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	1
T&P (A)	Training & Placement - Aptitude	VAI	Dr.K.Sudhakar	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI	Mr.B.Suresh Babu	T&P	1
VAC	Value Added Course on Urban Planning	VAI	Mr.R.Chandrasekar	CIVIL	3

30/7/22
DEPT. TTC

30/07/2022
HOD

30/7/2022
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ACADEMIC YEAR 2022-23 (ODD SEM)
RFC-UNITS AND MEASUREMENTS
Assessment Marks

III YEAR CIVIL / 05 SEM

S.No.	Reg. Number	Student Name	Total Marks (50)
1	821120103001	BHARATH G	45
2	821120103002	DHARUN KUMAR K	38
3	821120103003	HARIHARAN B	40
4	821120103004	JAILAKSHMAN S	42
5	821120103005	JENOVA JASMINE N	45
6	821120103006	KATHIRESWARI P	46
7	821120103007	KIRUTHIKASRI J	42
8	821120103008	MAHARISH H	45
9	821120103009	MOHAMED FAISAL B	40
10	821120103010	NIKESHA J	42
11	821120103013	SNEHA S	48
12	821120103014	SRIRAM M C	42
13	821120103015	VISHNU R	40
14	821120103301	AKARAMUTHALVAN D	38
15	821120103302	ATHITHIYAN E	36
16	821120103303	DULASIRAM S	40
17	821120103305	HARI HARAN U	40
18	821120103306	JOSHUVA M	44
19	821120103307	KRISHNA KANTH N	38
20	821120103308	MADHAVAN S	40

R. Ramchandar 30/8/22

SUBJECT INCHARGE
(Mr.R.RAMCHANDAR)

R. Saravanan 30/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

UNITS AND MEASUREMENT

INTRODUCTION

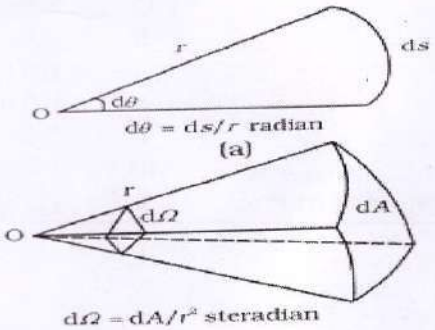
Measurement of any physical quantity involves comparison with a certain basic, arbitrarily chosen, internationally accepted reference standard called **unit**. The result of a measurement of a physical quantity is expressed by a number (or numerical measure) accompanied by a unit. Although the number of physical quantities appears to be very large, we need only a limited number of units for expressing all the physical quantities, since they are interrelated with one another. The units for the fundamental or base quantities are called **fundamental or base units**. The units of all other physical quantities can be expressed as combinations of the base units. Such units obtained for the derived quantities are called **derived units**. A complete set of these units, both the base units and derived units, is known as the **system of units.**

THE INTERNATIONAL SYSTEM OF UNITS

In earlier time scientists of different countries were using different systems of units for measurement. Three such systems, the CGS, the FPS (or British) system and the MKS system were in use extensively till recently. The base units for length, mass and time in these systems were as follows :

- In CGS system they were centimetre, gram and second respectively.
- In FPS system they were foot, pound and second respectively.
- In MKS system they were metre, kilogram and second respectively.

The system of units which is at present internationally accepted for measurement is the Système Internationale d' Unites (French for International System of Units), abbreviated as SI. The SI, with standard scheme of symbols, units and abbreviations, was developed and recommended by General Conference on Weights and Measures in 1971 for international usage in scientific, technical, industrial and commercial work. Because SI units used decimal system, conversions within the system are quite simple and convenient. We shall follow the SI units in this book. In SI, there are seven base units as given. Besides the seven base units, there are two more units that are defined for (a) plane angle $d\theta$ as the ratio of length of arc ds to the radius r and (b) solid angle $d\Omega$ as the ratio of the intercepted area dA of the spherical surface, described about the apex O as the centre, to the square of its radius r, as shown in Fig. (a) and (b) respectively. The unit for plane angle is radian with the symbol rad and the unit for the solid angle is steradian with the symbol sr. Both these are dimensionless quantities.



SI Base Quantities and Units

Base quantity	SI Units		
	Name	Symbol	Definition
Length	metre	m	The metre is the length of the path travelled by light in vacuum during a time interval of 1/299,792,458 of a second. (1983)
Mass	kilogram	kg	The kilogram is equal to the mass of the international prototype of the kilogram (a platinum-iridium alloy cylinder) kept at International Bureau of Weights and Measures, at Sevres, near Paris, France. (1889)
Time	second	s	The second is the duration of 9,192,631,770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the cesium-133 atom. (1967)
Electric current	ampere	A	The ampere is that constant current which, if maintained in two straight parallel conductors of infinite length, of negligible circular cross-section, and placed 1 metre apart in vacuum, would produce between these conductors a force equal to 2×10^{-7} newton per metre of length. (1948)
Thermo dynamic Temperature	kelvin	K	The kelvin, is the fraction 1/273.16 of the thermodynamic temperature of the triple point of water. (1967)
Amount of substance	mole	mol	The mole is the amount of substance of a system, which contains as many elementary entities as there are atoms in 0.012 kilogram of carbon - 12. (1971)
Luminous intensity	candela	cd	The candela is the luminous intensity, in a given direction, of a source that emits monochromatic radiation of frequency 540×10^{12} hertz and that has a radiant intensity in that direction of 1/683 watt per steradian. (1979)

Some units retained for general use (Though outside SI)

Name	Symbol	Value in SI Unit
minute	min	60 s
hour	h	60 min = 3600 s
day	d	24 h = 86400 s
year	y	365.25 d = 3.156×10^7 s
degree	°	$1^\circ = (\pi/180)$ rad
litre	L	1 $dm^3 = 10^{-3}$ m^3
tonne	t	10^3 kg
carat	c	200 mg
bar	bar	0.1 MPa = 10^5 Pa
curie	Ci	3.7×10^{10} s^{-1}
roentgen	R	2.58×10^{-4} C/kg
quintal	q	100 kg
barn	b	100 $fm^2 = 10^{-28}$ m^2
are	a	1 $dam^2 = 10^2$ m^2
hectare	ha	1 $hm^2 = 10^4$ m^2
standard atmospheric pressure	atm	101325 Pa = 1.013×10^5 Pa

Traditional systems

Historically many of the systems of measurement which had been in use were to some extent based on the dimensions of the human body. As a result, units of measure could vary not only from location to location but from person to person.

Metric systems

Metric systems of units have evolved since the adoption of the original metric system in France in 1791. The current international standard metric system is the International System of Units (abbreviated to SI). An important feature of modern systems is standardization. Each unit has a universally recognized size.

Both the imperial units and US customary units derive from earlier English units. Imperial units were mostly used in the British Commonwealth and the former British Empire. US customary units are still the main system of measurement used in the United States outside of science, medicine, many sectors of industry, and some of government and military, and despite Congress having legally authorised metric measure on 28 July 1866.[7] Some steps towards US metrication have been made, particularly the redefinition of basic US and imperial units to derive exactly from SI units. Since the international yard and pound agreement of 1959 the US and imperial inch is now defined as exactly 0.0254 m, and the US and imperial avoirdupois pound is now defined as exactly 0.45359237 kg.

Natural systems

While the above systems of units are based on arbitrary unit values, formalised as standards, some unit values occur naturally in science. Systems of units based on these are called natural units. Similar to natural units, atomic units (au) are a convenient system of units of measurement used in atomic physics.

Also a great number of unusual and non-standard units may be encountered. These may include the solar mass (2×10^{30} kg), the megaton (the energy released by detonating one million tons of trinitrotoluene, TNT) and the electronvolt.

Metric Units of Measurement

The metric units of measurement in mathematics are standard units defined to measure length, height, weight, area, and capacity (volume). It is based on the decimal system as it includes numbers in powers of 10. The modern form of the metric units are called the SI units and are accepted worldwide. Each unit has a universally recognized size. Let us see some of the commonly used SI units in the table below.

SI Units of Measurement

SI units of measurement are units of the international system of units, also known as the metric system which is used across the world and each unit has a standard measure.

Physical Quantity	Imperial Units
Length	foot, inch, yard, mile
Mass	ounce, pound, stone, ton
Capacity	gallon, pint, quart, fluid ounce

Note: The imperial units of measurement can be expressed in terms of the metric units and vice-versa as they are standard units.

Units of Measurement for Length

Length is a physical quantity that gives the measure of how long an object is. There are different aspects of measuring length such as distance covered, height, etc. Units of measurement for all the physical quantities belong to the same category. Each unit of measuring length can be expressed in terms of each other using the conversion method as these units have a standard value. Let us see the commonly used metric and imperial units of measurement of length below along with their relations with one another.

System	Units of Measurement	Conversion
Metric Units	Centimeter (cm)	1 cm = 10 mm
	Meter (m)	1 m = 100 cm
	Kilometer (km)	1 km = 1000 m
	Millimeter (mm)	1 mm = 0.001 m
Imperial Units	Foot (feet)	1 foot = 12 inch
	Inches (inch)	1 inch = 0.83333 feet
	Mile	1 mile = 5280 feet
	Yard	1 yard = 3 feet = 36 inch

Example 1: What is the unit 'acre' used for? Express one acre in terms of sq. yards and sq. feet.

Solution: An acre is a unit of measurement of area. Earlier, it was used to measure the size of the field. One acre is equal to 43,560 square feet. We can also express acre in terms of square yards.

1 acre = 43,560 square feet = 4840 square yards.

Answer: 1 acre = 43,560 square feet = 4840 square yards.

Example 2: Convert 5 kilograms in an imperial unit of measurement pound.

Solution: We know that 1 kilogram is approximately equal to 2.2 pounds. So, 5 kg in pounds is given by,

5 kg = 5 × 2.2 pounds

= 11 pounds

Answer:5kg is equal to 11 pounds.

Example 3: How many feet are there in 3 miles?

Solution: We know that 1 mile is equal to 5280 feet. So, 3 miles in feet are given by,

3 miles = 3 × 5280 feet

= 15,840 feet

Answer: 3 miles is equal to 15, 840 feet.

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Punalkulam, Near Thanjavur, Pudukkottai Dt - 613303

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. **G.BHARATH** of **III YR** Civil Engineering has completed **REFRESHER COURSE** in the topic **UNITS AND MEASUREMENTS** organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during **AUGUST 2022**.

R. Ramchandar

Mr.R.RAMCHANDAR
COURSE INCHARGE

Dr.R.SARAVANAN
HOD/CIVIL

J. Arputha

Dr.J.ARPUTHA VIJAYA SELVI
PRINCIPAL

Kings College of Engineering, Punalkulam

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **REFRESHER COURSE** on **QUANTITY SURVEYING** on this academic year 2022-2023, Final year students are requested to enroll their name to Ms.S.GAYATHRI AP/CIVIL on or before **30.07.2022**.

S. Gayathri 20/7/22

Coordinator
(Ms.S.GAYATHRI AP/CIVIL)

R. Saravanan 20/07/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

REFRESHER COURSE

SUBJECT: QUANTITY SURVEYING

YEAR/SEMESTER: IV/VII

ACADEMIC YEAR: 2022-2023(ODD SEM)

PREPARED BY

Ms.S.GAYATHRI, AP/ CIVIL

QUANTITY SURVEYING

UNIT - I QUANTITY ESTIMATION 4

Philosophy – Purpose – Methods of estimation – Types of estimates – Approximate estimates – Detailed estimate – Estimation of quantities for buildings.

UNIT II RATE ANALYSIS AND COSTING 6

Standard Data – Observed Data – Schedule of rates – Market rates – Standard Data for Man Hours and Machineries for common civil works – Rate Analysis for all Building works, canals, and Roads– Cost Estimates.

UNIT III SPECIFICATIONS, REPORTS AND TENDERS 7

Specifications – Detailed and general specifications – Constructions– Types of specifications – Principles for report preparation – report on estimate of residential building –Roads – TTT Act 2000 – Tender notices.

UNIT IV CONTRACTS 7

Contract – Types of contracts – Contract conditions – Contract for labour, material, design, construction – Drafting of contract documents based on IBRD / MORTH Standard bidding documents.

UNIT V VALUATION 6

Valuations– Capitalized value – Depreciation – Escalation – Valuation of land – Buildings – Calculation of Standard rent – Mortgage – Lease

TOTAL: 30 PERIODS

S. Gayathri 21/8/22

STAFF INGHARGE
Ms.S.GAYATHRI

R. Saravanan 02/08/2022

HOD/CIVIL
Dr.R.SARAVANAN

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DEPARTMENT OF CIVIL ENGINEERING

Sub. Name: Quantity surveying
Staff Name: Ms.S.Gayathri

Branch/Year/Sem: B.E CIVIL/IV/VII
Batch: 2019-2023
Academic Year: 2022-2023(ODD)

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	**QUANTITY ESTIMATE**			**(04)**
1.	Philosophy – Purpose – Methods of estimation	BB/PPT	1	1
2.	Types of estimates	BB/PPT	1	2
3.	Approximate estimates – Detailed estimate	BB/PPT	1	3
4.	Estimation of quantities for buildings.	BB/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of Estimate. • Estimate the residential building.				
UNIT II	**RATE ANALYSIS AND COSTING**			**(06)**
5.	Standard Data – Observed Data – Schedule of rates – Market rates	BB/PPT	2	6
6.	Standard Data for Man Hours and Machineries for common civil works	BB/PPT	2	8
7.	Rate Analysis for all Building works, canals, and Roads– Cost Estimates.	BB/PPT	2	10
LEARNING OUTCOME At the end of unit, students should be able to • Understand about the data collection. • Know about schedule of rates. • Analysis about rate analysis				
UNIT III	**SPECIFICATIONS, REPORTS AND TENDERS**			**(07)**
8.	Specifications – Detailed and general specifications	BB/PPT	1	11
9.	Constructions– Types of specifications	BB/PPT	2	13
10.	Principles for report preparation	BB/PPT	2	15
11.	Report on estimate of residential building	BB/PPT	1	16
12.	Roads – TTT Act 2000 – Tender notices.	BB/PPT	1	17

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline the concept report preparation.
- Understand about specification.

UNIT IV CONTRACTS				(07)
13.	Contract	VIDEO	1	18
14.	Types of contracts	VIDEO	1	19
15.	conditions – Contract for labor, material, design, construction	BB/PPT	2	21
16.	Drafting of contract documents based on IBRD / MORTH Standard bidding documents.	BB/PPT	3	24

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline about contract system.
- Know the types of contract system.

UNIT V VALUATION				(06)
17.	Valuations– Capitalized value	VIDEO	1	25
18.	Depreciation – Escalation	BB/PPT	1	26
19.	Valuation of land	BB/PPT	1	27
20.	Buildings – Calculation of Standard rent	VIDEO	1	28
21.	Mortgage – Lease	VIDEO	2	30

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline the concepts of valuation.
- Know the methods of valuation.
- Understand the terminology in valuation.
- Prepare the value of buildings and other structures.

COURSE OUTCOME

At the end of syllabus, students will be able to

- Estimate the quantities for buildings,
- Rate Analysis for all Building works, canals, and Roads and Cost Estimate.
- Understand types of specifications, principles for report preparation, tender notices types.
- Gain knowledge on types of contracts.
- Evaluate valuation for building and land.

S. Gayathri 2/8/22

Prepared by

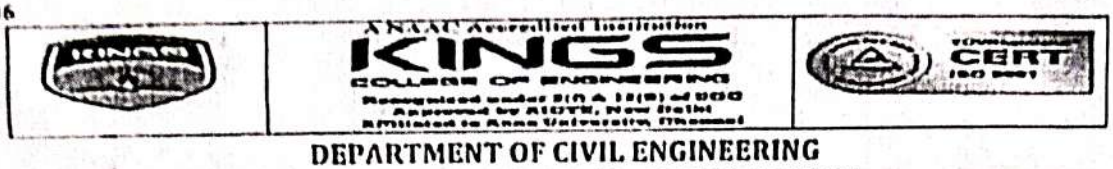
Ms.S.GAYATHRI

R. Saravanan 02/08/2022

Verified by

HOD/CIVIL

Format-QP06



DEPARTMENT OF CIVIL ENGINEERING

SPECIAL TIME TABLE (1.8.2022 - 6.8.2022,ODD SEM)

B.E – CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2019 - 2023 | Strength:20

Year: IV | Semester: VII | Class Room : 233 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	Orientation		BREAK	CC		LUNCH BREAK	COMM.SKILL		BREAK	BC	
TUE	RFC			CC			COMM.SKILL			BC	
WED	RFC			CC			COMM.SKILL			BC	
THU	T&P(SS)	T&P(A)		CC			COMM.SKILL			BC	
FRI	RFC			CC			COMM.SKILL			BC	
SAT	RFC			CC			COMM.SKILL			BC	

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VALUE ADDITION INTIATIVES (VAI)					
Orientation	Orientation Program	-	Mr.K.Arun	CIVIL	2
COMM.SKILL	Communication Skill	-	Mr.D.Dinesh	ENGLISH	12
BC	Bridge Course	-	Mr.R.Ramchandar	CIVIL	12
RFC	Refresher Course	-	Ms.S.Gayathri	CIVIL	08
T&P (A)	Training & Placement - Aptitude	-	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		Dr.K.Sudhakar	T&P	1
CC	Certification Course - Sketchup	-	Mr.R.Chandrasekar	CIVIL	12

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.K.Arun	B.Agalya M.Jayaseelan	01 08

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
LIB/NET	Library / Internet	VAI	Mr.K.Arun	CIVIL	1
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	1
RC	Refresher Course	VAI	Ms.S.Gayathri	CIVIL	2
T&P (A)	Training & Placement - Aptitude	VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI	Dr.K.Sudhakar	T&P	1

DEPT. TTC

30/07/2022
HOD

30/7/2022
PRINCIPAL

11/24/2022

REFRESHER COURSE

TENDER & CONTRACT

WHAT IS TENDER?

Tender is :

- an offer to contractor to do the work for a certain amount of money
- incorporate time and other conditions required
- to carry out the contract requirements
- main reason is to complete a project
- The tender which is submitted by the contractor is generally based on a bill of quantities & specifications of the statement of work.

Difference between TENDER & CONTRACT

TENDER	CONTRACT
o The term tender formally means an invitation to trade under the terms of offer.	o A contract is the term used when 2 parties have reached agreement.

TENDER SYSTEM

✓ The process of finalization of contracts is achieved through the tender process.

Advantages of the Tender process

✓ Most effective method of locking competitive rates.

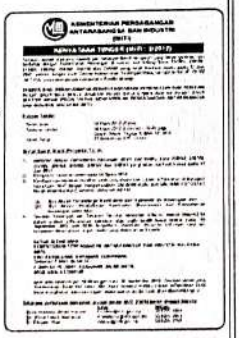
✓ New technologies and options are received through open tender process.

TENDER NOTICE

✓ The Tender Notice is a brief description of the job being tendered

✓ to be published in Newspapers and on the Internet.

✓ The Internet is a very cost effective way of publishing the tenders.



Format of an ideal tender notice

1. Name of the Project.
2. Name & Address of the Company offering the tender.
3. Name of work, materials or services.
4. Place of work location.
5. Approximate estimated cost of work.
6. Earnest Money.
7. Period of completion.
8. Date on which the Tender Document sale commences.
9. Date and time up to which tender documents can be obtained.
10. The cost of tender documents.
11. Due date of submission
12. Eligibility Criteria

TYPES OF TENDER

1. Open tender (tawaran terbuka)
2. Close tender (tawaran terhad) / Selective tender (tawaran terpilih)
3. Negotiated tender (tawaran perundingan)

Open tender

- Bidding process that is open to all qualified bidders
- Tender usually published in the newspaper and internet
- chosen on the basis of price and quality.
- This is most effective way of obtaining many competitive rates.

Open tender - advantages

- Any contractor can tender their work
- No favoritism occurred
- maximum competition
- No commitment(terikat) to tender, all tender received will be genuine.

Open tender - disadvantages

- Client must bear expensive cost of tendering (reproducing number of dwgs, bq etc.
- The wrong contractor may be chosen because they are from unknown background
- Time consuming

The lowest tender may not necessarily be a 'bargain'. Choosing a low tender may result in:

- POOR WORK – a large number of, or even permanent, defects may occur unless there is close supervision by the client's agent.
- POOR ORGANIZATION – late completion, specialist subcontractors delayed, etc.

Limited / selective tender

Limited tender

- Tender open to bidders in the category stated in the notice only.
- Example: limited tender is for Bumiputra bidders only.

Selective tender

- A number of contractor of known reputations are selected by the design team to submit a price of the project.
- The contractor who submit the lowest tender is generally awarded the contract.
- The number chosen to bid under this tender is little
- they are chosen for their expertise and experiences

Negotiated tender

- Under this method, only one contractor is approached
- normally because the skills of the contractor are such that the architect and other members of the design team needed from the contractor's specialist knowledge use for design stage
- Following the completion of the design, the contractor will price the bill of quantities and then enter into a negotiation with the quantity surveyor.

Tender process

- iklan tawaran (**tender notice)**
- jemputan tawaran **(tender invitation)**
- pemilihan tawaran **(tender selection)**
- penerimaan tawaran **(tender award)**

WHAT IS CONTRACT?

- A contract is an **exchange of promises between two or more parties** to do, or refrain from doing, an act which is enforceable in a court of law.
- It is a binding legal **agreement.**

TYPES OF CONTRACT

- **Lump Sum** Contract
- **Cost Plus** Contract
- **Turnkey** Contract
- Percentage of Construction Fee Contracts

Lump Sum Contract

- Also named "Fixed Fee Contract".
- With this kind of contract the engineer and/or contractor agrees to do- the described and specified project for a fixed price.
- Often used in engineering contracts.
- Suitable if the scope and schedule of the project are appropriately defined – to allow the consulting engineer to estimate project costs.

Cost Plus Contract

- purchaser agrees to pay :
  - the cost of all labor and materials
  - plus an amount for contractor overhead and
  - profit (usually as a percentage of the labor and material cost).
- This types of contracts are favored because:
  - the scope of the work is indeterminate
  - highly uncertain
  - labor, material and equipment needed are also uncertain.
- Under this arrangement - complete records of all time and materials spent by the contractor on the work must be maintained.

THANK YOU

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ACADEMIC YEAR 2022-23 (ODD SEM)

RFC-QUANTITY SURVEYING

Assessment Marks

IV YEAR CIVIL / VII SEM

S.No.	Reg. Number	Student Name	Total Marks (50)
1	821119103001	AGALYA B	50
2	821119103002	ANBUMANI S	47
3	821119103003	ARUNKUMAR M	45
4	821119103004	ARUNPRASAD S	45
5	821119103005	DIVYA S	49
6	821119103006	JANANI T S	48
7	821119103007	JAYACHANDRAN N	46
8	821119103008	JAYASEELAN M	50
9	821119103010	KURALARASAN R	50
10	821119103011	MADHUMITHA R	50
11	821119103012	MONIKA M	50
12	821119103013	PREMKUMAR J	42
13	821119103014	RENGESWARI R	50
14	821119103015	RUBIKA M	50
15	821119103016	SANTHOSH S	48
16	821119103017	SATHYA P	50
17	821119103018	STALIN P	50
18	821119103019	VIMAL R	43
19	821119103301	DANIEL NAVIS F	44
20	821119103501	KARTHIKEYAN R	44
21	821119103501	ABIRAMI	47

27/8/22

SUBJECT INCHARGE
(MS.S.GAYATHRI)

27/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. T.S.JANANI of IV YR Civil Engineering has completed REFRESHER COURSE in the topic QUANTITY SURVEYING organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during AUGUST 2022.

Ms.S.GAYATHRI	Dr.R.SARAVANAN	Dr.J.ARPUTHA VIJAYA SELVI
COURSE INCHARGE	HOD/CIVIL	PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. P.STALIN of IV YR Civil Engineering has completed REFRESHER COURSE in the topic QUANTITY SURVEYING organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during AUGUST 2022.

Ms.S.GAYATHRI	Dr.R.SARAVANAN	Dr.J.ARPUTHA VIJAYA SELVI
COURSE INCHARGE	HOD/CIVIL	PRINCIPAL

SKILL DEVELOPEMENT COURSE

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 01.08.2022

CIRCULAR

This is to inform, that our department is going to conduct a **SKILL DEVELOPMENT COURSE on MICROSOFT OFFICE** on this academic year 2022-2023, Second year students are requested to enroll their name to Mr.R.Sundharam, AP/CIVIL on or before **08.08.2022**.

1/8/2022

Coordinator
(Mr.R.Sundharam, AP/CIVIL)

01/08/2022

HOD/CIVIL
(DR.R.SARAVANAN)

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CERT ISO 9001

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

SKILL DEVELOPMENT COURSE REPORT

The Department of Civil Engineering organized a Skill Development Course for II Year students from 11.08.2022 to 20.08.22.

OBJECTIVES

The objectives of the course are

- To be proficient in using MS WORD to create quality technical documents, by using standard templates, widely acceptable styles and formats, variety of features to enhance the presentability and overall utility value of content.
- To be proficient in using MS EXCEL for all data manipulation tasks including the common statistical, logical, mathematical etc., operations, conversion, analytics, search and explore, visualize,interlink, and utilizing many more critical features offered
- To be able to create and share quality presentations by using the features of MS PowerPoint, including: organization of content, presentability, aesthetics, using media elements and enhance the overall quality of presentations

SESSION DETAILS

Mr.R.Sundharam, AP/CIVIL, handled the session for II year students. He taught about the MS office Word, Excel, Powerpoint creation, interlink, comments, etc and also arranged training sessions for students.

II Year students attending Skill Development Course

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

List of Value Addition courses offered during the academic year 2022-2023

S.No	Course Title	Course Duration	No of Students Attended
1.	Value Added Course on Micropython for IoT	45 hrs	66
2.	Refresher course on C Programming	30 hrs	50
3.	Certification course on VB.Net	30 hrs	66
4.	Certification course on Introduction to IoT	30 Hrs	65
5.	Swayam course on Big data computing	08 Weeks	55
6.	Swayam course on Introduction to IoT	12 Weeks	48
7.	Swayam course on Introduction to Cyber Security	10 Weeks	36
8.	Certification course on Introduction to Cloud computing	30 hrs	130
9.	Certification course on TCS iON career Edge – Young professionals	30 Hrs	64
10.	Certification course on Networking and web technology	30 Hrs	66
11.	Swayam course on Data mining	12 Weeks	102
12.	Swayam course on Block chain and its application	12 Weeks	35

29/05/23
Faculty incharge

29/5/23
HOD/CSE
H.O.D of Computer Science & Engineering
KINGS COLLEGE OF ENGINEERING
Punalkulam, Gandarvakottai (Tk),
Pudukottai (Dt) - 613 303.

29/5/2023
PRINCIPAL
PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE
Micropython for IOT

ACADEMIC YEAR

2022-2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

INTRA DEPARTMENT CIRCULAR

20.7.22

As a part of curriculum enrichment, our department has planned to offer a **value added course** for third year students from 1.8.22 on **MicroPython for IoT** through which the students can be exposed to the currently trending domain and able to design applications. Kindly go through the course schedule mentioned below for your reference. The students are insisted to attend the course without fail and get benefitted.

Course Details

Name of the course	Duration of the course	Faculty Instructor	Start Date
MicroPython for IoT	45 Hrs	Ms.R.Sugantha Lakshmi Ms.G.Chandra Praba	1.8.22

Note

- To be circulated in III CSE Whatsapp group
- Copy to Notice board

20/7/22

HOD/CSE

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Dr. J. Arputha Vijaya Selvi, B.E., M.E., Ph.D.,
PRINCIPAL

Ref: KCE / PRL /consent/318/21-22 18.07.2022

To
The Controller of Examinations,
Anna University,
Chennai – 25.

Respected Sir/Madam,

Sub: Requisition for approving the Value Added Course on "VAC02-MicroPython for IoT" for the batch of 2020 – 2024 - reg

As per the AU Regulation 2017, the CSE department of our college has planned to conduct the Value Added Course with 2 credits on the topic of "MicroPython for IoT" for the batch of 2020 – 2024 having the strength of 65 students. Herewith the syllabus, course plan, schedule and the staff details are enclosed. We request you to kindly approve the course and its syllabus. With your consent, we will organize the course during the current academic session (2022 -2023 Odd Semester). Thank You.

Yours faithfully,

18/7/2022

(J.Arputha Vijaya Selvi)

Principal

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303.

Encl:

i) Syllabus
ii) Course Plan
iii) Course Schedule & Staff details
iv) Student Name List

Copy to: The Director, Center for Academic Courses, Anna University, Chennai – 25.

4.5. Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period.

The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every year starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

The Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department **of an institution with the prior approval from the Head of the Institution.** The details of the syllabus, time table and faculty may be sent to the Centre for Academic Courses and the Controller of Examinations after approval from the **Head of the Institution** concerned atleast one month before the course is offered. **Students can take a maximum of two one credit courses / one two credit course** during the entire duration of the Programme.

4.8 Online Courses

4.8.1 Students may be permitted to credit only one online course of 3 credits with the approval of **Head of the Institution** and Centre for Academic Courses.

4.8.2 Students may be permitted to credit one online course (which are provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Centre for Academic courses from time to time. The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Controller of Examinations, Anna University. The details regarding online courses taken up by students should be sent to the Controller of Examinations, Anna University and Centre for Academic Courses one month before the commencement of End Semester Examination.

4.9 The students satisfying the following conditions shall be permitted to carry out their final semester Project work for six months in industry/research organizations.

The student should not have current arrears and shall have CGPA of 7.50 and above.

The student shall undergo the eighth semester courses in the sixth and seventh semesters. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the Director, Centre for Academic courses for approval at least 4 weeks before the commencement of the sixth semester of the programme for approval.

Source : coe.annauniv.edu/phpproject1/acdetails/regl2017/00.%20UG%20(Aff)%20Reg%20(2017)%20-%205.9.18.pdf

12.4 PROJECT WORK

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Institutions shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 20 marks** and rounded to the nearest integer (as per the scheme given in 12.4.1).

12.4.1 The project report shall carry a maximum 30 marks. The project report shall be submitted as per the approved guidelines as given by Director, Academic Courses. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End semester Examinations				
			Thesis Submission (30)		Viva-Voce (50)		
5	7.5	7.5	Internal	External	Internal	External	Supervisor
			15	15	15	20	15

12.4.2 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.

12.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

(a) The seminar / Case study is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Institution will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

(b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

12.6 ASSESSMENT FOR VALUE ADDED COURSE

The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

SUB CODE/NAME: VAC02/MicroPython for IoT

YEAR / SEMESTER: III / V

PREPARED BY,
Mrs.R.SUGANTHA LAKSHMI, AP/CSE
Mrs.G.CHANDRA PRABA, AP/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SYLLABUS

VAC02 - MICROPYTHON FOR IOT

L T P C
1 0 2 2

UNIT I FUNDAMENTALS OF IOT 7

Fundamentals of IoT : Introduction , IoT Architecture, IoT frameworks ,Physical & Logical Design of IoT, Hardware & Software behind IoT: The "Things" in IoT - Sensors, Actuators, and Smart Objects, Sensor Networks, Connecting Smart Objects

UNIT II IOT COMMUNICATION TECHNOLOGIES 7

IoT Development Boards: Arduino, RaspberryPi - Wireless Technologies for IoT: WPAN Technologies for IoT: IEEE 802.15.4, Zigbee, HART, NFC, Z-Wave, BLE, Bacnet, Modbus. IP Based Protocols for IoT IPv6, 6LowPAN, RPL, AMQP, CoAP, MQTT

UNIT III INTRODUCTION TO MICROPYTHON 9

About MicroPython -Arduino vs MicroPython - MicroPython Hardware- MicroPython boards-Ready boards-Compatible boards-Breakout boards and Add ons – MicroPython IDEs- Mu Editor-uPyCraft IDE-Thonny IDE-VS Code + Pymakr extension-PyCharm-Setting up of software-Flashing MicroPython firmware to ESP32

UNIT IV PROGRAMMING IN MICROPYTHON 11

MicroPython – Basic Concepts-Data structures-Statements-Modules, functions & Classes-MicroPython Libraries- Standard Libraries -Custom Libraries - Hands on: Controlling LEDs-Creating Sound and Music- Interacting with buttons

UNIT V REAL TIME APPLICATIONS 11

Applications using MicroPython: Playing with sensors - Light Meter – Soil Moisture monitoring-Environmental Monitoring Web.server - WiFi Manager - Home Automation

Total : 45 periods (L-15 Hrs , P-30 Hrs)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Sub.Code/Name : VAC02 /MicroPython for IoT	**Branch / Year / Sem** : CSE / III / V
Academic Year : 2022-23 (ODD)	**Batch** : 2020-2024
Staff Name : Mrs R.Sugantha Lakshmi & Mrs.G.Chandra Praba	

Course objectives

- To make students understand the concepts of IoT
- To acquire programming skills in MicroPython
- To develop the ability to create applications using MicroPython

Books Recommended for Reading and Reference:

1. Charles Bell ,"MicroPython for the Internet of Things", Apress, 2017.
2. Alsabbagh Marwan ,"MicroPython Cookbook" – First Edition , Packt Publishing Ltd, 2019.
3. Jacob Beningo ,"MicroPython Projects" – First Edition , Packt Publishing Ltd, 2020.

Web Resources

1. https://www.getkisi.com/blog/internet-of-things-communication-protocols
2. https://www.educba.com/iot-boards/
3. https://realpython.com/micropython/
4. https://learn.adafruit.com/micropython-basics-what-is-micropython
5. https://microcontrollerslab.com/category/micropython-projects-esp32-esp8266/

S.No	Topics	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	FUNDAMENTALS OF IOT			7
1.	Fundamentals of IoT –Introduction-IoT Architecture-IoT frameworks- Physical & Logical Design of IoT	PPT	2	2
2.	Hardware & Software behind IoT -The "Things" in IoT-Sensors-Actuators and Smart Objects	Hands-on-session	2	4
3.	Sensor Networks-Connecting Smart Objects	PPT	1	5
		Hands-on-session	2	7
UNIT II	IOT COMMUNICATION TECHNOLOGIES			7
4.	IoT Development Boards - Arduino - RaspberryPi	PPT	1	8
		Hands-on-session	1	9
5.	Wireless Technologies for IoT - WPAN Technologies for IoT: IEEE 802.15.4 Zigbee, HART, NFC, Z-Wave, BLE, Bacnet, Modbus.	PPT	1	10
		Hands-on-session	2	13
6.	IP Based Protocols for IoT IPv6, 6LowPAN, RPL, AMPQ, CoAP, MQTT	PPT	1	13
		Hands-on-session	1	14
UNIT III	INTRODUCTION TO MICROPYTHON			9
7.	About MicroPython -Arduino vs MicroPython MicroPython Hardware- MicroPython boards-Ready boards-Compatible boards-Breakout boards and Add ons	PPT	1	15
		Hands-on-session	2	17
8.	MicroPython IDEs- Mu Editor-uPyCraft IDE-Thonny IDE-VS Code + Pymakr extension-PyCharm	PPT	1	18
		Hands-on-session	2	20
9.	Setting up of software-Flashing MicroPython firmware to ESP32	PPT	1	21
		Hands-on-session	2	23

S.No	Topics	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT IV	PROGRAMMING IN MICROPYTHON			11
10.	MicroPython – Basic Concepts-Data structures-Statements-Modules, functions & Classes	PPT	1	24
		Hands-on-session	2	26
11.	MicroPython Libraries-Standard Libraries Custom Libraries	PPT	1	27
		Hands-on-session	2	29
12.	Hands on: Controlling LEDs-Creating Sound and Music- Interacting with buttons	PPT	1	30
		Hands-on-session	4	34
UNIT V	REAL TIME APPLICATIONS			11
13.	Applications using MicroPython: Playing with sensors - Light Meter – Soil Moisture monitoring- Environmental Monitoring Web server	PPT	1	35
		Hands-on-session	2	37
14.	WiFi Manager	PPT	1	38
		Hands-on-session	2	40
15.	Home Automation	PPT	1	41
		Hands-on-session	4	45

Course Outcome

Upon the completion of the course, the students are able to

- Understand the concepts of IoT and its communication technologies.
- Develop real time applications using MicroPython.

INTERNAL ASSESSMENT DETAILS

TEST NO.	I	II
Topic Nos.	1-10	11-16

18/7/22 18/7/22

Prepared by
Ms. R.Sugantha Lakshmi
Ms.G.Chandra Praba

18/7/22

Approved by
PRINCIPAL

18/7/22

Verified By
HOD/CSE

H.O.D of Computer Science & Engineering
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Pudukkottai (DT) 613 303.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (2022 - 2023 ODD SEM)

B.E – CSE (Regulation 2017)

Batch:2020-2024 Strength:65

Year: III Semester: V Class Room : 222 Block: II

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	03.10 pm - 03.25 pm	7
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.20pm	02.20pm - 03.10pm		03.25pm - 04.15pm
FRI			BREAK			LUNCH BREAK			BREAK	VAC02
SAT				VAC02						

SUB CODE	NAME OF THE SUBJECT	NAME OF THE STAFF	DEPT	PERIODS/WEEK
VAC02	MicroPython for IoT	Ms.R.Sugantha Lakshmi(8211008) Ms.G.Chandra Praba(3211212)	CSE	3

18/7/22
HOD/CSE

18/7/2022
PRINCIPAL

H.O.D of Computer Science & Engineering
KINGS COLLEGE OF ENGINEERING
Punalkulam, Gandarvakottai (TK)
Pudukkottai (Dt) 613 [illegible]

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

Students' Name List

Subject Code/Name : VAC02 / MicroPython for IoT

Subject Credit : 2

Year/Sem : III / V

Batch: 2020 – 2024

S.NO	REG NUMBER	STUDENT NAME	S.NO	REG NUMBER	STUDENT NAME
1.	821120104001	AASHA J	34	821120104034	NITHISH S
2.	821120104002	AJAY S	35	821120104035	NIVETHA S
3.	821120104003	ARUNOTHAYA A C	36	821120104036	PARKAVI D
4.	821120104004	ASHWIN V	37	821120104037	PRAKASH A
5.	821120104005	ATCHAYA R V	38	821120104038	PRIYARANI.B
6.	821120104006	BALAMURUGAN M	39	821120104039	RAGUL SANKAR J
7.	821120104007	BARATHRAJ R	40	821120104040	RAJKUMAR K
8.	821120104008	BHAVATHARANI V	41	821120104041	REENA S
9.	821120104009	BOOMIKA R	42	821120104042	SAFREENBANU S
10.	821120104010	DEEPAK KUMAR D	43	821120104043	SANTHOSH KUMAR G
11.	821120104011	DEEPAN S	44	821120104044	SARVESH S
12.	821120104012	DEEPIKA K	45	821120104045	SATHYA A
13.	821120104013	DINESH S	46	821120104046	SATHYA R
14.	821120104014	DINESHKUMAR S	47	821120104047	SIVA M
15.	821120104015	ELAMARAN S	48	821120104048	SNEGA S
16.	821120104016	ESWAR S	49	821120104049	SNEHA E
17.	821120104017	GAYATHRI M	50	821120104050	SNEHA P(23/5)
18.	821120104018	GEETHA I	51	821120104051	SNEKA P(19/6)
19.	821120104019	GUHAN D	52	821120104052	SURIYAPRAKASH M
20.	821120104020	HARISH B	53	821120104053	SURUTHIGA C
21.	821120104021	JAYAVANI K	54	821120104054	THIRUMURUGAN K
22.	821120104022	JENO VINNARASI A	55	821120104055	THIRUMURUGAN S
23.	821120104023	KARTHIKA M	56	821120104056	VANATHI G
24.	821120104024	KAYALVIZHI K	57	821120104057	VARSHA N N
25.	821120104025	KEERTHIGA S	58	821120104058	VASANTH M
26.	821120104026	KRISHNAKUMAR G	59	821120104059	VASINYA M
27.	821120104027	LAVANYA J	60	821120104060	VICHITHRA V
28.	821120104028	MAHALAKSHMI V	61	821120104061	VIJAY S
29.	821120104029	MOHAMED SAMEER S	62	821120104062	VINOTHIYA M
30.	821120104030	MUHILAN E	63	821120104063	YOKESHWARI P
31.	821120104031	MURUGARAJ M	64	821120104301	RAJESH KANNAN C
32.	821120104032	NANDHINI S	65	821120104302	RISHI KUMAR R
33.	821120104033	NARESH KUMAR N			

COURSE INCHARGE

18/7/22

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Pudukkottai (Dt) - 613 303.

ANNA UNIVERSITY
CHENNAI – 600 025

Dr. S.HOSIMIN THILAGAR
DIRECTOR
Letter No.4385/AU/VA/CAC/FICE/2022

23.08.2022

122
30 AUG 2022

Copy To HOD/CSE.
T. [illegible]
30/8/2022

To

The Controller of Examinations
Anna University
Chennai - 25.

Sir,

Sub: C.A.C. – A.U. – Kings College of Engineering – **"MicroPython for IoT"** - Value added Courses - Approval – Req.- Reg.

Ref: Letter No. KCE/PRL/consent/318/21-22, Dated:18.07.2022.

******

With references to the letter cited, the following Value Added Course offered by Kings College of Engineering, Affiliated Institutions is allotted the course code as detailed below.

SI. NO.	CODE ALLOTTED	TITLE	CREDITS			
			L	T	P	C
1.	IVA091	**MicroPython for IoT**	1	0	2	2

This is for your kind information and necessary action at your end.

Yours faithfully,

23/8/2022

DIRECTOR

Copy to:

1. The Principal, Kings College of Engineering, Punalkulam, Pudukkottai – 613 303.
2. The Chairperson, Faculty of Information and Communication Engineering, A.U., Chennai -25.
3. The Stock File.

AL

rmat-QP06

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (AUG' 2022 – NOV' 2022, ODD SEM)

B.E – CSE (Reg. 2017) - With Effect from 10.08.22 - Tentative Last Working Day - 19.11.22

tch:2019-2023 | Strength:66

ar: III | Semester: V | Class Room : 227 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	EC8691	CS8591	BREAK	MA8551	CS8501	LUNCH BREAK	CS8582		BREAK	CS8582	
TUE	CS8501	CS8591		OMF551	CS8592		EC8691	MA8551		T&P(SS)	LIB/ NET
WED	OMF551	CS8592		CS8501	EC8691		T&P(A)	CS8592		MA8551	VAC
THU	MA8551	OMF551		CS8591	CS8501		EC8681 (B1) / CS8581 (B2)			EC8681 (B1) / CS8581 (B2)	
FRI	CS8592	CS8591		EC8691	OMF551		EC8681 (B2) / CS8581 (B1)			EC8681 (B2) / CS8581 (B1)	
SAT	VAC			GATE	MA8551		CS8501	NPTEL		CC	

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), ELECTIVE (E)						
MA8551	Algebra and Number Theory	BS	4	Dr.G.Shankarakalidoss	MATHS	5
CS8591	Computer Networks	PC	3	Dr.S.M.Uma	CSE	4
EC8691	Microprocessor & Microcontroller	PC	3	Mr.R.Sathyaraj	CSE	4
CS8501	Theory of Computation	PC	3	Ms.S.Puvaneswari	CSE	5
CS8592	Object Oriented Analysis & Design	PC	3	Ms.N.Dhamayandhi	CSE	4
OMF551	Product Design and Development	OE	3	Ms.G.Chandrapraba	CSE	4
PRACTICAL						
EC8681	Microprocessor & Microcontroller Lab	PC	2	Mr.R.Sathyaraj & Mr.R.Thandayuthapani	ECE	4
CS8582	Object Oriented Analysis & Design Lab	PC	2	Ms.N.Dhamayandhi & Ms.Bavithra	CSE	4
CS8581	Networks Lab	PC	2	Ms.G.Chandrapraba & Ms.S.Priyadharshini	CSE	4
VALUE ADDITION INITIATIVES (VAI)						
CC	Certification Course on Visual Basic .Net	VAI		Ms.S.Puvaneswari & Ms.R.Suganthalakshmi	CSE	2
GATE / CE	GATE / Competitive Exam	VAI		Ms.N.Dhamayandhi / Ms.S.Priyadharshini	CSE	1
LIB/NET	Library / Internet	VAI		Ms.S.Puvaneswari	CSE	1
NPTEL	NPTEL Swayam Courses	VAI		Ms.S.Puvaneswari	CSE	1
T&P (A)	Training & Placement - Aptitude	VAI		Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI		Dr.K.Sudhakar	T&P	1
VAC	Value Added Course on Micro Python for IoT	VAI		Ms.R.Suganthalakshmi & Ms.G.Chandrapraba	CSE	3

KINGS COLLEGE OF ENGINEERING

ASSESSMENT TEST - I

IVA091 – MICROPYTHON FOR IoT

Class / Sem : III CSE / 05 Date : 18.11.2022

Maximum : 100 Marks

Answer ALL questions

PART - A (10 x 2 = 20 Marks)

1. Define IoT.
2. How does the enabling technologies for IoT are grouped?
3. List the reasons behind the issues in connecting new objects and interconnecting the network of objects to the existing network.
4. Give some examples of big data generated by IoT systems.
5. Compare Arduino and Raspberry Pi.
6. Show how data is transmitted in NFC.
7. List the base objects defined by RPL.
8. Write about PySenseShield.
9. Mention the usage of BBC micro:bit.
10. List the additional features of WiPy board.

PART – B (5 x 16 = 80 Marks)

11. (a) Outline and elaborate the architecture of IoT. (16)

(OR)

(b) Explain in detail about the actuators and its principle of operation. (16)

12. (a) Discuss in detail about the IoT frameworks. (16)

(OR)

(b) Draw a neat sketch of Arduino development board and explain in detail. (16)

13. (a) List the wireless technologies used for IoT and explain about Zigbee in detail. (16)

(OR)

(b) What is MQTT? List its characteristics and explain its model. (16)

14. (a) How does 6LoWPAN support IoT? Elaborate on its structure. (16)

(OR)

(b) Write in detail about AMQP. (16)

15. (a) Explain about Pyboard and loading firmware into it. (16)

(OR)

(b) Summarize about the various Micropython IDEs. (16)

ALL THE BEST

Subject Coordinators

HoD/CSE 10/11/22

Sample papers

A. C. Arunothaya

20CS03

III - CSE

821120104003

1VA091

MICROPYTHON FOR IOT

ASSESSMENT TEST - I

78/100

18/11/22

Part - 1

1) IOT :-

* The internet of things refers to a type of network to connect anything with the internet based on stipulated protocols through information sensing equipment to conduct information exchange and communication in order to achieve smart recognitions, positioning, tracing, monitoring and administration.

2) Enabling Technologies for IOT :-

* IOT is enabled by several technologies including Wireless sensor networks, cloud computing, big data analytics, embedded systems, security protocols and architectures, communication protocols. Web services, mobile internet and Semantic search engine.

3)

* Slow network Users complain the network is too slow.
* Weak Wi-fi Signal
* physical Connectivity issues
* Excessive CPU usage.
* Slow DNS lookups

Part - 1

1) IOT :-

* The internet of things refers to a type of network to connect anything with the internet based on stipulated protocols through information sensing equipment to conduct information exchange and communication in order to achieve smart recognitions, positioning, tracing, monitoring and administration.

2) Enabling Technologies for IOT :-

* IOT is enabled by several technologies including Wireless sensor networks, cloud computing, big data analytics, embedded systems, security protocols and architectures, Communication protocols, web services, mobile internet and Semantic search engine.

3)

* Slow network Users complain the network is too slow.
* Weak Wi-fi Signal
* Physical Connectivity issues
* Excessive CPU usage.
* Slow DNS lookups

4) Examples of big data generated by IOT:-

Sensor data generated by IOT systems such as weather monitoring systems

Health & fitness data generated by IOT devices such as Wearable fitness bands.

Data generated by retail inventory monitoring systems.

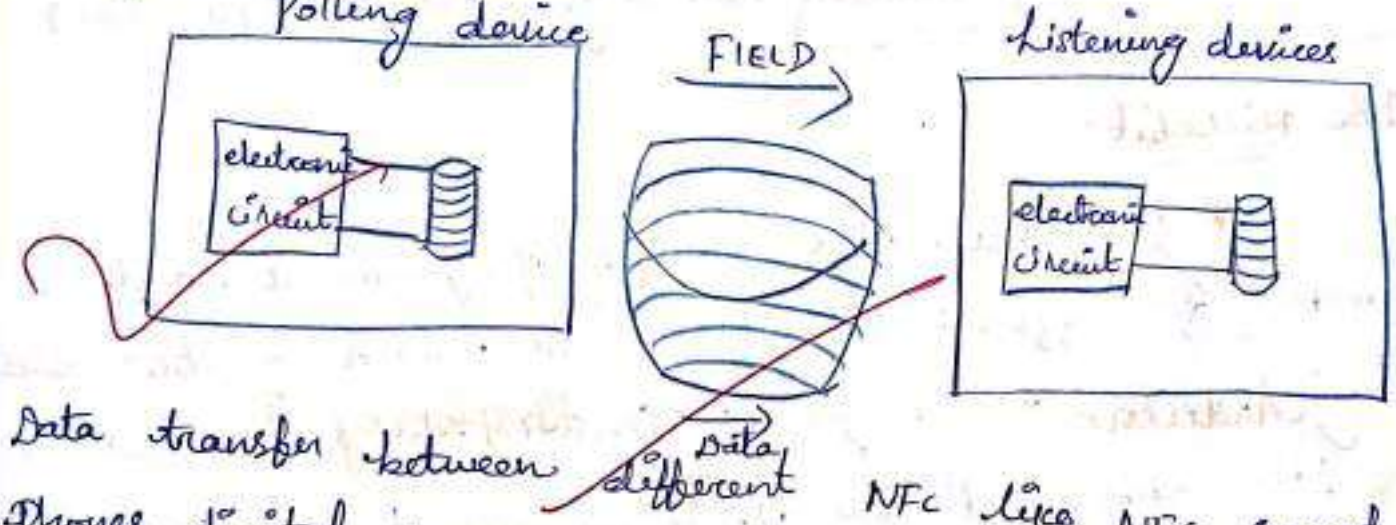
Data generated by IOT systems for location and tracking of vehicles.

5)

Arduino	Raspberry Pi
* Control unit of Arduino is form Atmega family.	* While Control unit of Raspberry Pi is from ARM family
* It is based on microcontroller.	* It is based on a microprocessor.
* Arduino boards have a simple hardware and software structure.	* Raspberry Pi boards have a complex architecture of hardware and software.
* It is designed to control the electrical components connected to the circuit board in a system.	* Raspberry Pi computes data and produces variable outputs and controls in a system based on outcome.

6) Data is transferred in NFc :-

Like the RFID Standards 1443 and Felica NFc was an inductive coupling. Similar to the transformer principle, the magnetic near field of two conductor coils is used to couple the polling device (initiator) and listening device (target).



Data transfer between different NFc like NFc smart phones digital cameras, notebooks etc.

7) List the base objects defined by RPL.

RPL defines the following base objects.

- The DODAG information solicitation (DIS) message.
- The DODAG information object (DIO).
- The destination advertisement object.
- The DAO Ack object.

8) The Pysense shield allows you to sense the environment using 5 different sensors:-

* Accelerometer (LIS2HH12).
* Light Sensor (LTR329ALS01)
* Pressure Sensor (MPL3115A2)
* Temperature Humidity Sensor (SI7006A20)

9) BBC Microbit:-

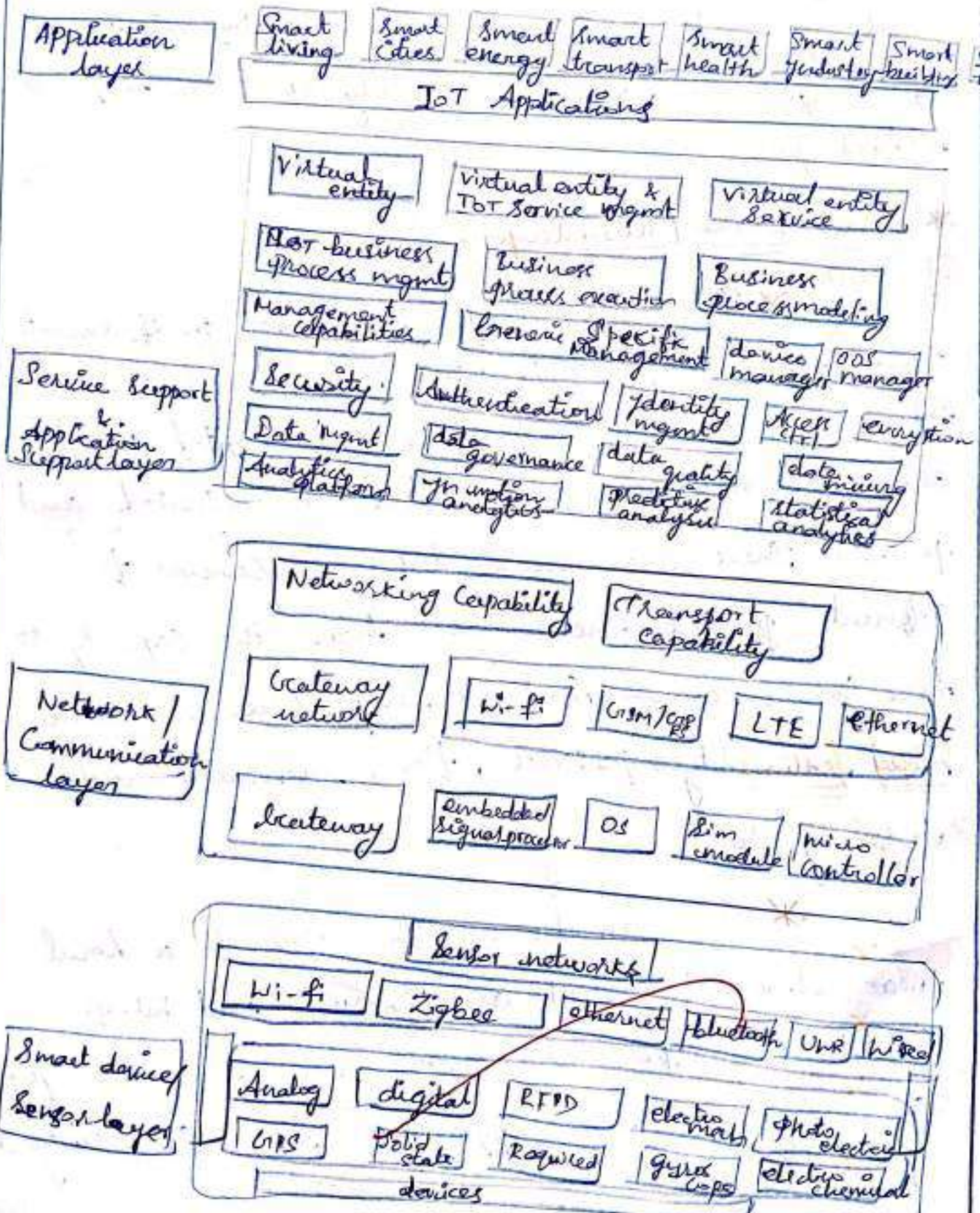
* The micro:bit can be programmed to do a number of different things, it can be a digital watch, fitness tracker or a games console. The device features 25 LED lights and two programmable buttons which can be used in game-play or to skip through tracks in a playlist.

10) Wipy features:-

* Powerful CPU, BLE and state of the art WiFi, audio.
* 1KM WIFI range
* Fits in a standard breadboard (with headers)
* Micropython enabled, the linux of IOT for beast.
* Hardware floating point acceleration
* Python multi-threading.

Part - B

1) a) Architecture of IoT:-



* IoT architecture consists of different layers of technolo supporting IoT. it serves to illustrate how various technol relate to each other and to communicate the scalability, modularity and configuration of IoT deployments in different scenarios. The functionality of each layer is described below.

* Smart Device / Sensor layer:-

* The lowest layer is made up of smart objects integrated with sensors. The sensors enable th interconnection of the physical and digital worlds allowing real-time information to be collected and processed. There are various types of sensors for different purpose. the sensors have the capacity to take measurements such as temperature, air quality, speed, humidity, pressure, flow, movement and electricity etc.

* This can be in the form of a local Area Network (LAN) such as Ethernet and Wi-fi Connections or personal sensors that do not requi Connectivity to sensor aggregators their connectivity backend servers

* Gateways and Networks:-

* Massive volume of data will be produced by these tiny sensors and this requires a robust and high performance wired or wireless network infrastructure as a transport medium. Current networks, often tied with very different protocols, have been used to support machine-to-machine (M2M) networks and their applications. With demand needed to secure a wider range of IoT services and applications such as high speed transactional services, context-aware applications etc. multiple networks with various technologies and access protocols are needed to work with each other in a heterogeneous configuration.

* Management Service layer:-

* The management service renders the processing of information possible through analytics, security controls process modeling and management of services.

* One of the important features of the management service layer is the business and process rule engines.

* IoT brings connection and interaction of objects and Systems together providing information in the form of events of contextual data such as temperature of good Current location and traffic data.

* In the area of analytics, various analytics tools are used to extract relevant information from massive amount of raw data and to processed at a much faster rate. Analytics such as memory analytics allows the large volumes of data to be cached in random access memory (RAM) rather than stored in physical data in memory analytics reduces data query time and augments the speed of decision making.

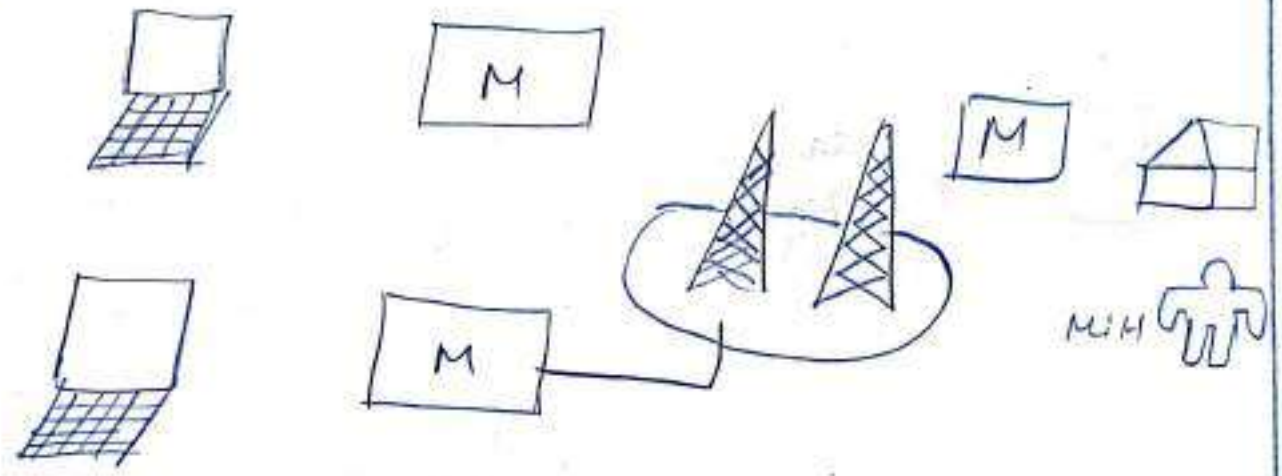
*Application Layer:-

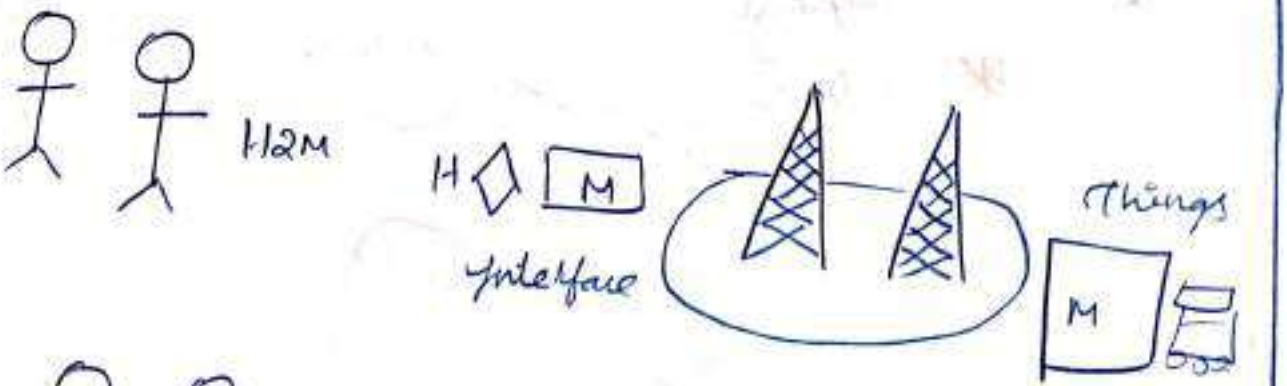
* The IoT application covers "smart" environments/spaces in domains such as Transportation, Building, City, Lifestyle, Retail, Agriculture, Factory, Supply chain, emergency, healthcare, User informat Culture and tourism, environment and energy.

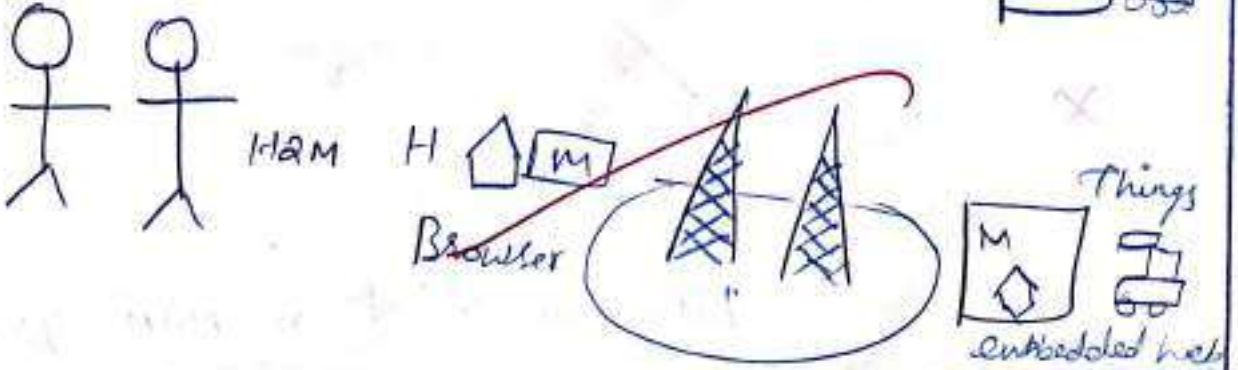
2) a) IOT FRAMEWORKS:-

* A high level M2M system architecture (HLSA) is defined in the ETSI TS 102 690 V1.1.1 specification that is useful to the present discussion.

* We describe the HLSA next, summarized from reference 23. The HLSA comprises the device and gateway domain, the network domain and the application domain



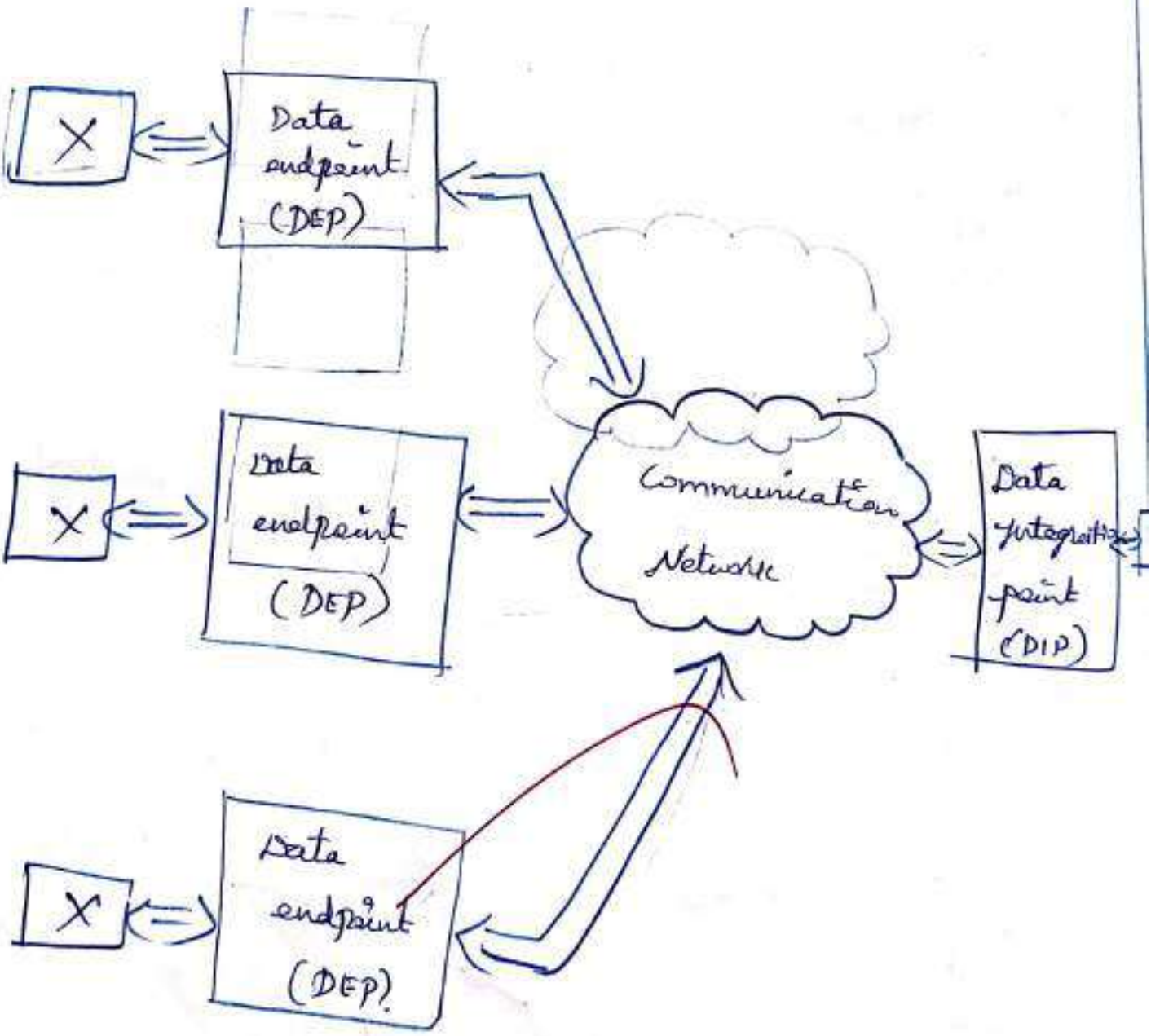




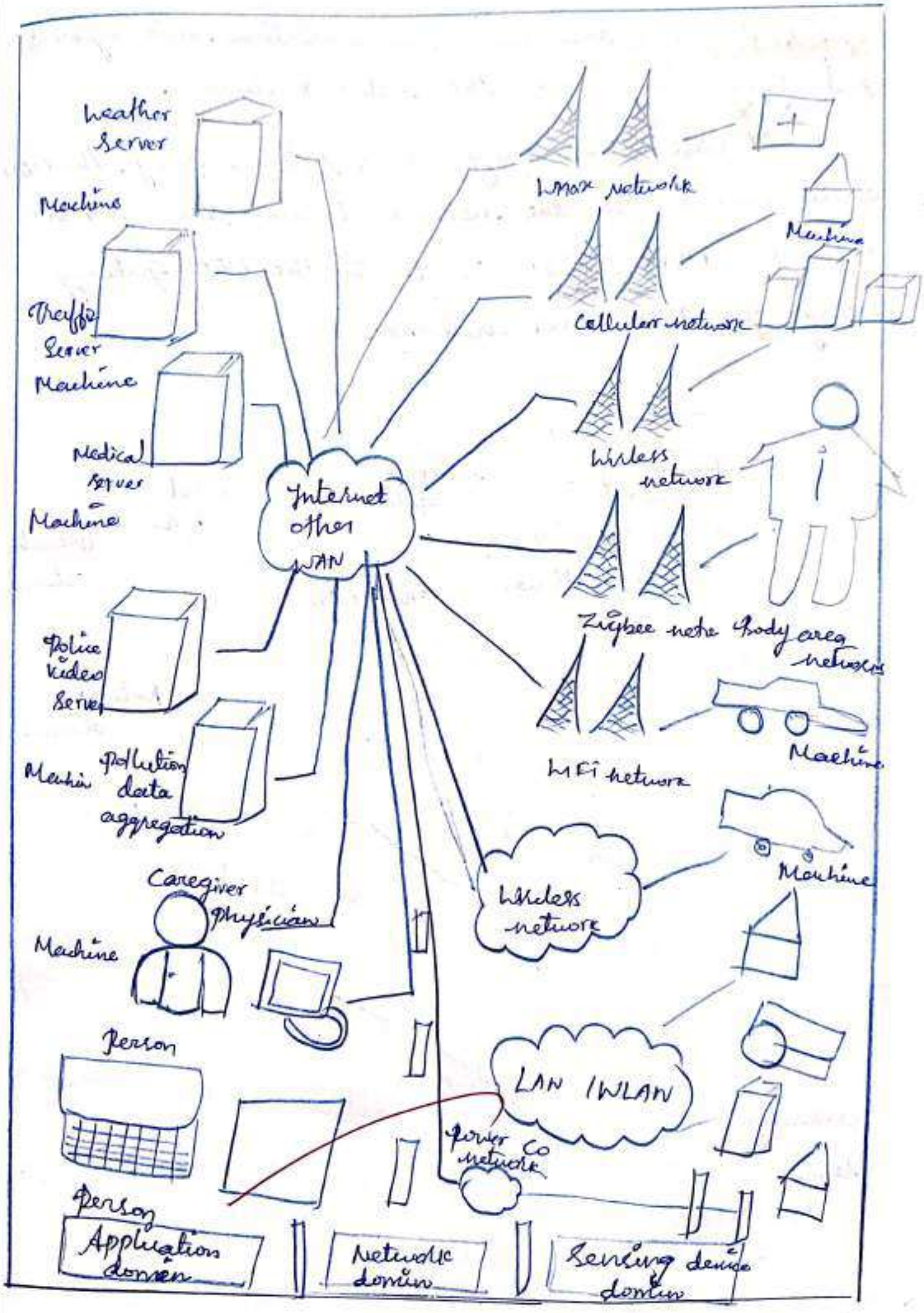
* M2M device :-

* A device that runs M2M applications (s) using M2M services capabilities M2M devices connect to network domain via the access network. The M2M device performs the procedures such as

* Case 1 " direct connectivity " : M2M devices connect to the network domain via the network.

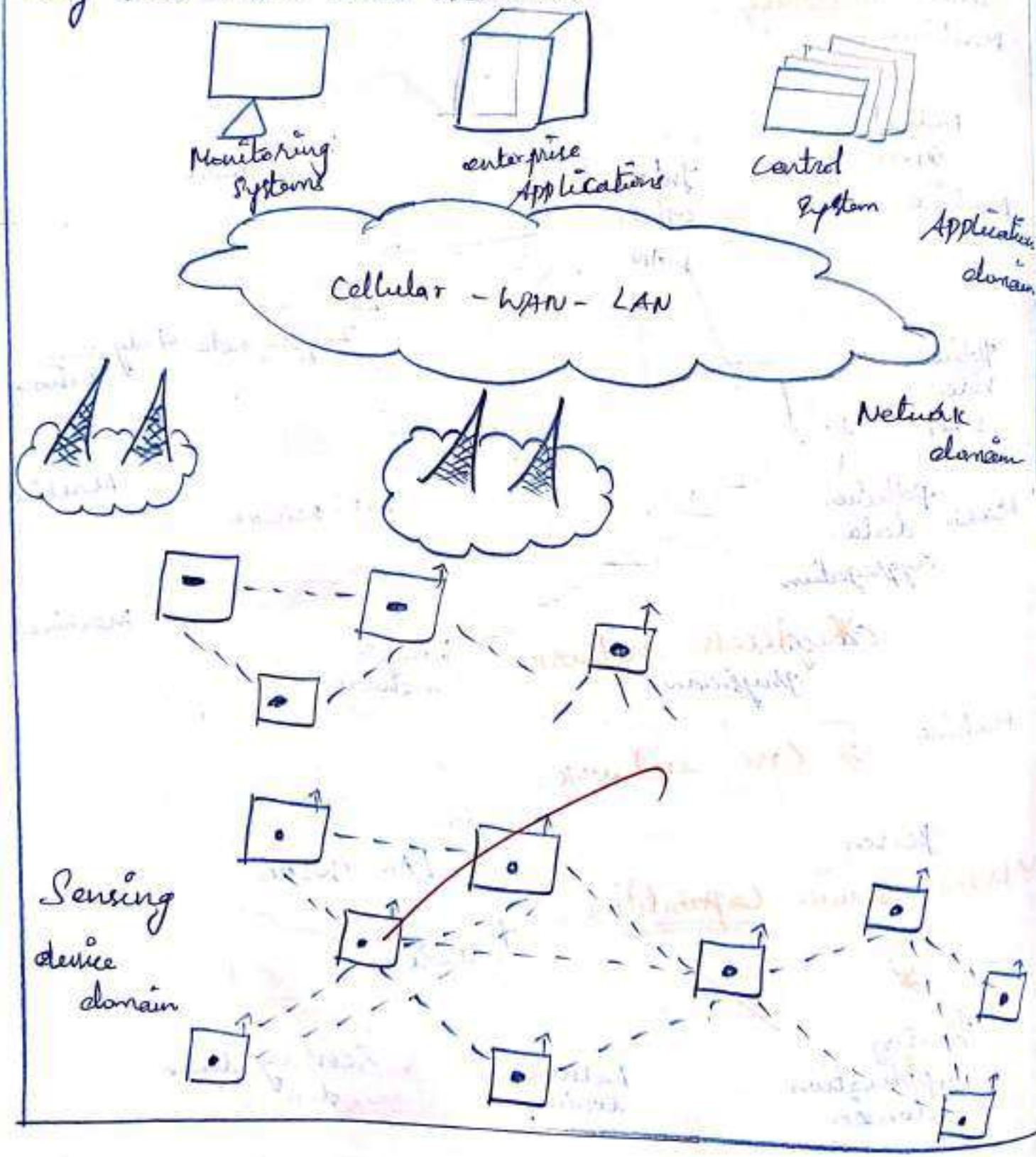


Basic elements of an M2M Application,


Weather Server
Machine
Traffic Server
Machine
Medical Server
Machine
Police Video Server
Machine
Pollution data aggregation
Caregiver Physician
Machine
Person
Person
Application domain
Internet other WAN
WiMax Network
Machine
Cellular network
Wireless network
Zigbee netw
Body area netwo
Machine
WiFi network
Machine
Wireless network
Machine
LAN IWLAN
Server Co network
Network domain
Sensing device domain

registration, authentication, authorization, management and provisioning with the network domain.

* Case 2 "Gateway as a Network proxy". The M2M device connects to the network domain via an M2M gateway. M2M devices connect to the M2M gateway using the M2M area network.



* M2M Area Network:-

* It provides connectivity between M2M devices and M2M gateways. Examples of M2M are area networks include personal area network (PAN) technologies such as IEEE 802.15.1.

* M2M Gateway:-

* A gateway that runs M2M application (s) using M2M service capabilities. A gateway acts as a proxy between M2M devices and the network domain.

As an example, M2M gateway may run an application that collects and treats various information from sensors. The network domain is composed of the following elements:

* Access network

* Core network.

* M2M Service Capabilities.

* Expose functions through a set of open interfaces

* use CSF functionalities.

13) b) MQTT:-

* MQTT is a light weight message queueing and transport protocol.

* MQTT as its name implies, is suited for the transport of telementary data.

* MQTT is very light weight and thus suite for M2M (Mobile-to-Mobile), WSN (Wireless Sensor Networks) and ultimately IoT (Internet of things) scenarios whe sensor and actor nodes communicate with applications through the MQTT message broker.

Example:-

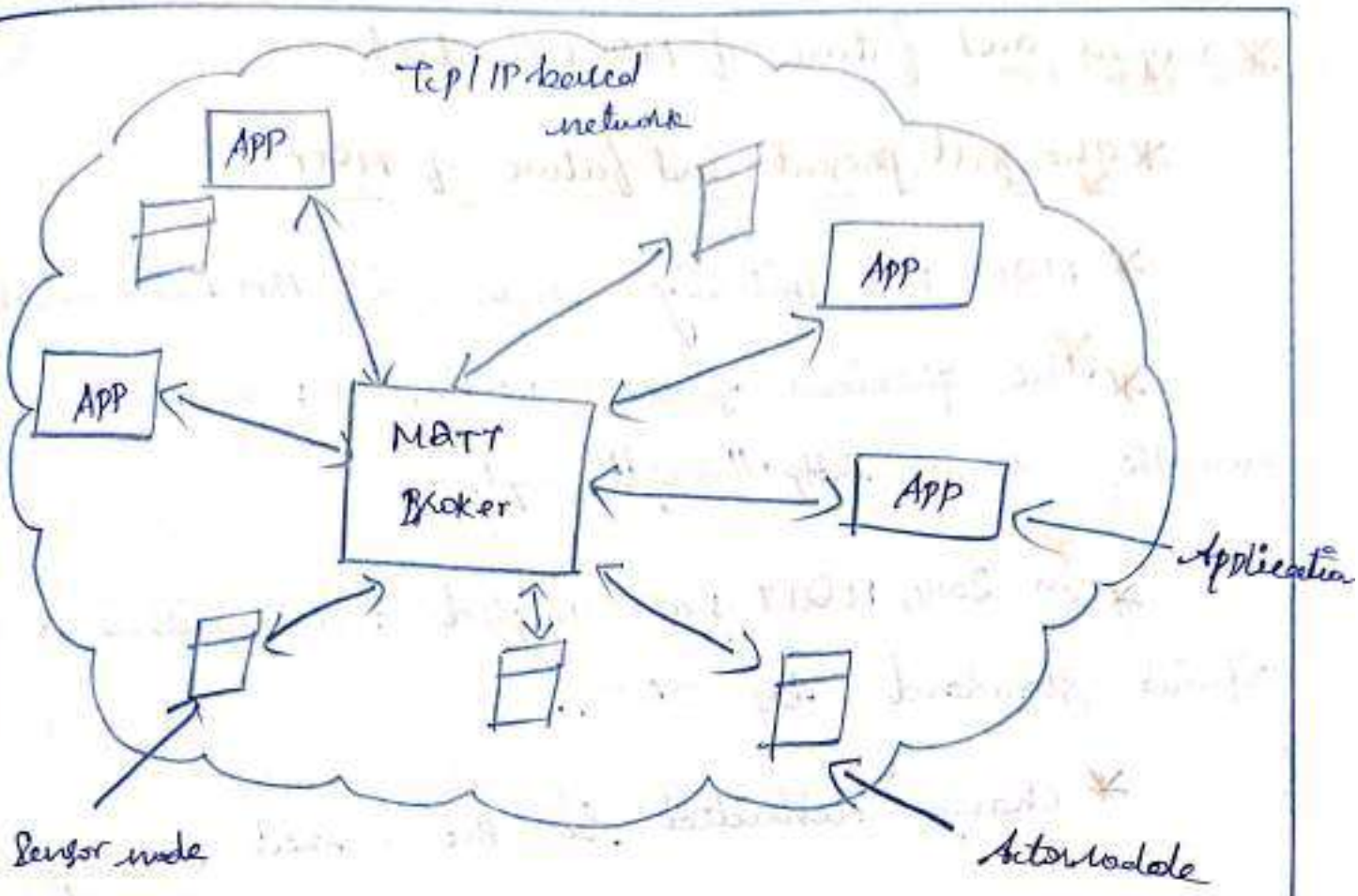
* Light sensor continously sends sensor data to the broker.

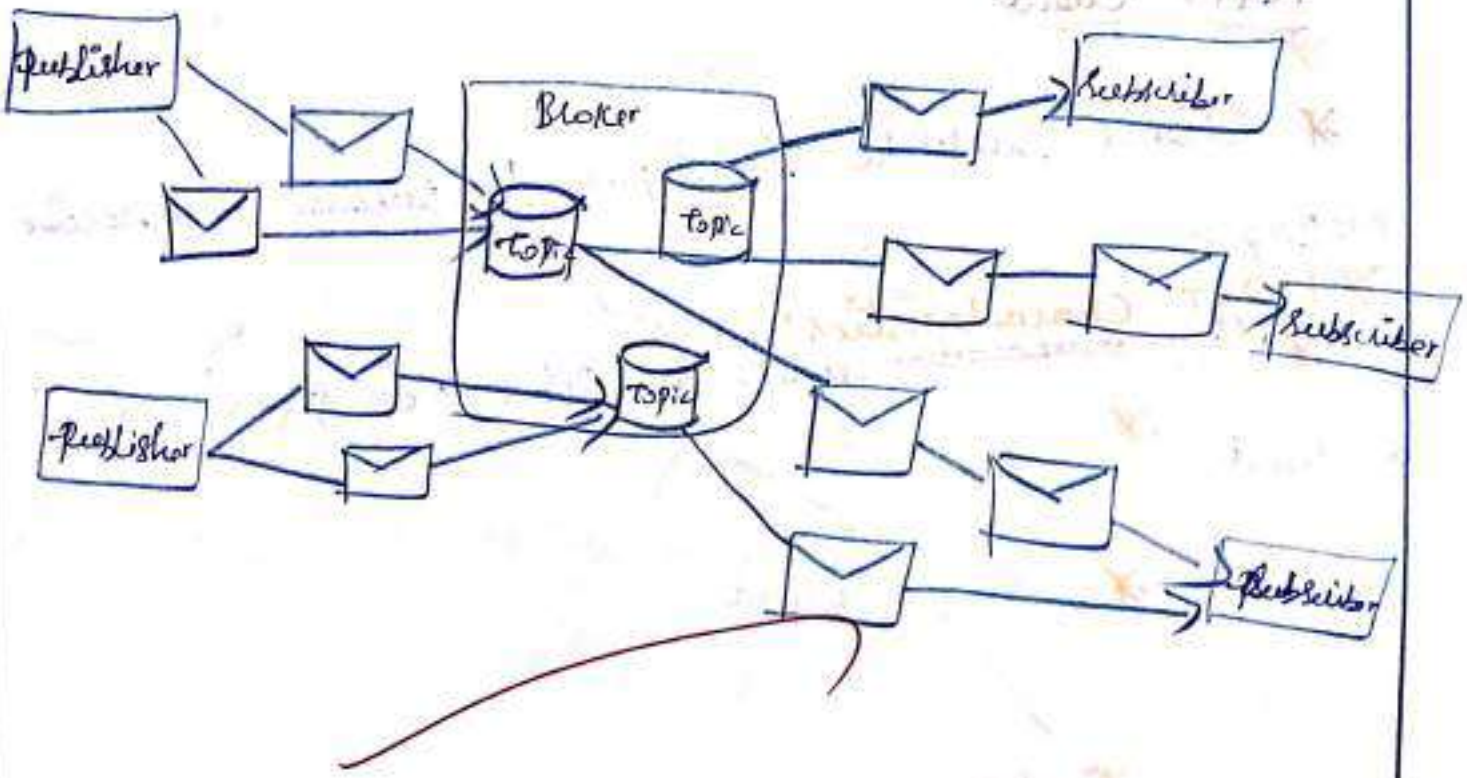
* MQTT Characteristics:-

* Lightweight message queueing and transpo protocol.

* Asynchronous communication model with t messages.

* Publish/Subscribe (Pubsub)/model.


Tcp/IP based network
APP
APP
APP
APP
MQTT Broker
APP
Application
Sensor node
Actor node


Publisher
Broker
Subscriber
topic
topic
Subscriber
topic
Publisher
Subscriber

* Origins and future of MQTT Standard:-

* The past, present and future of MQTT

* MQTT was initially developed by IBM and eurotech.

* The previous protocol version 3.1 was made available under http://mqtt.org/.

* In 2014, MQTT was adopted and published as an official standard by OASIS..

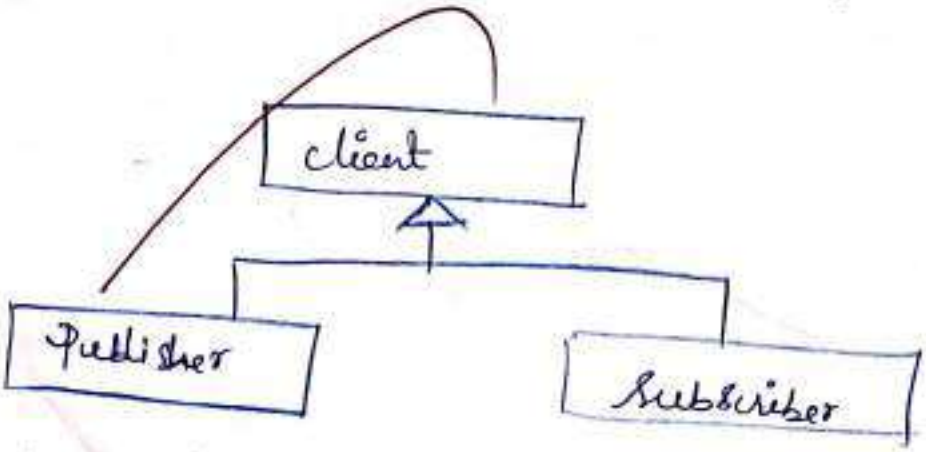
* Changes restricted to the connect message.

* MQTT model (2/3).

MQTT client

* Clients subscribe to topics to publish and receive messages.

* Thus subscribers and publishers are special roles of a client.



* MQTT Server

* Server runs topics, receive subscriptions from clients on topics, receive message from clients and forward these, based on client's subscriptions.

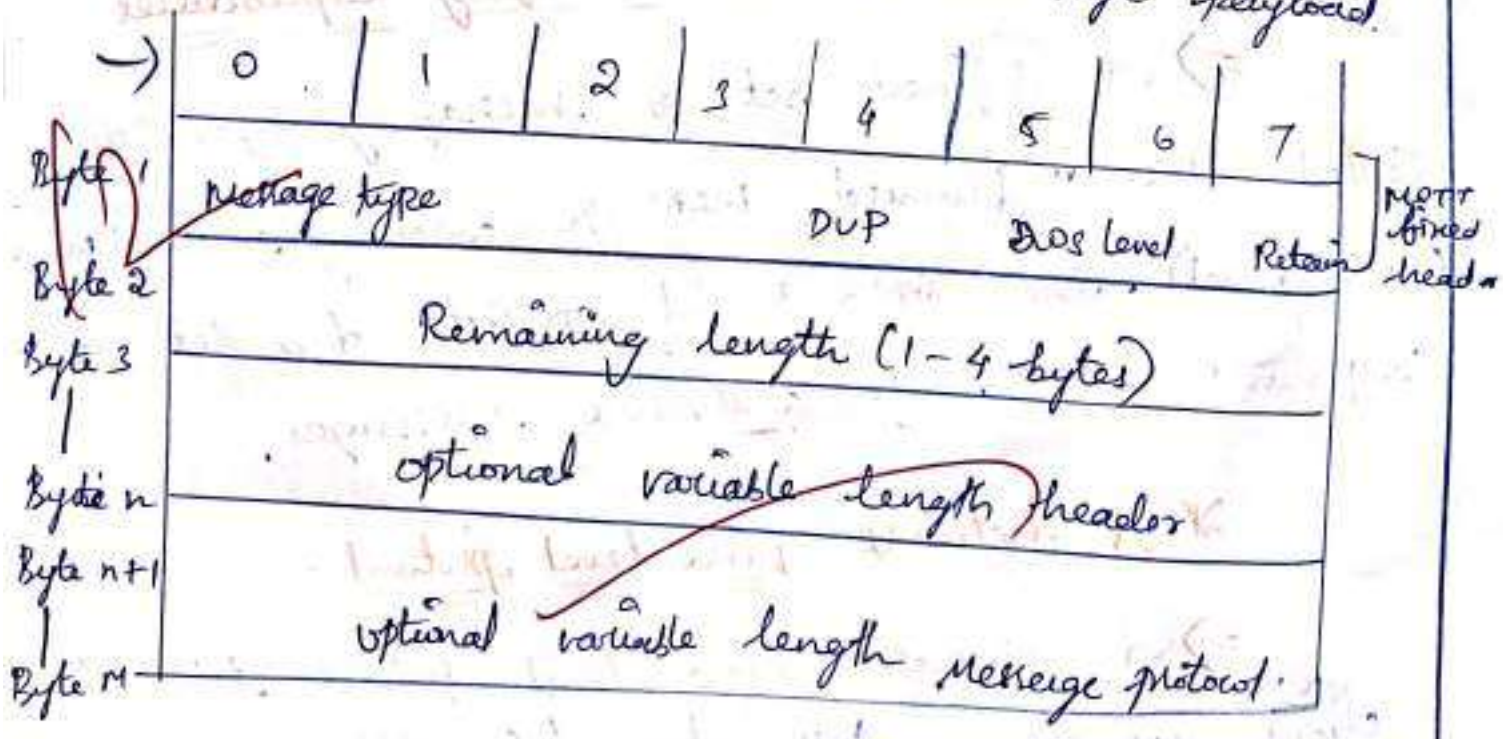
Topics:

* Topics support the publish/subscribe pattern for clients.

* MQTT message format:-

Message format:-

* MQTT messages contain a memory mandatory fixed length header (2-bytes) and an optional message-specific variable length header and message payload.



14) b) AMQP:-

Why AMQP?

AMQP creates full functional interoperability between conforming clients and messaging middleware servers (also called "brokers"). Our goal is to enable the development and industry-wide use of standardised messaging middleware technology.

Scope of AMQP:-

* To enable complete interoperability for messaging middleware requires that both the networking protocol and the semantics of the server-side services are sufficient specified.

* A defined set of messaging capabilities

=> A defined set of messaging capabilities called the "Advanced Message Queuing protocol Model (AMQ model). The AMQ model consists of a set of components that route and store messages.

* A network wire-level protocol:-

=> A network wire-level protocol that lets client applications talk to the server.

Advanced Message Queuing Model (AMQ Model)

We define the Server's semantics explicitly, since interoperability demands that these be the same in any given Server implementation.

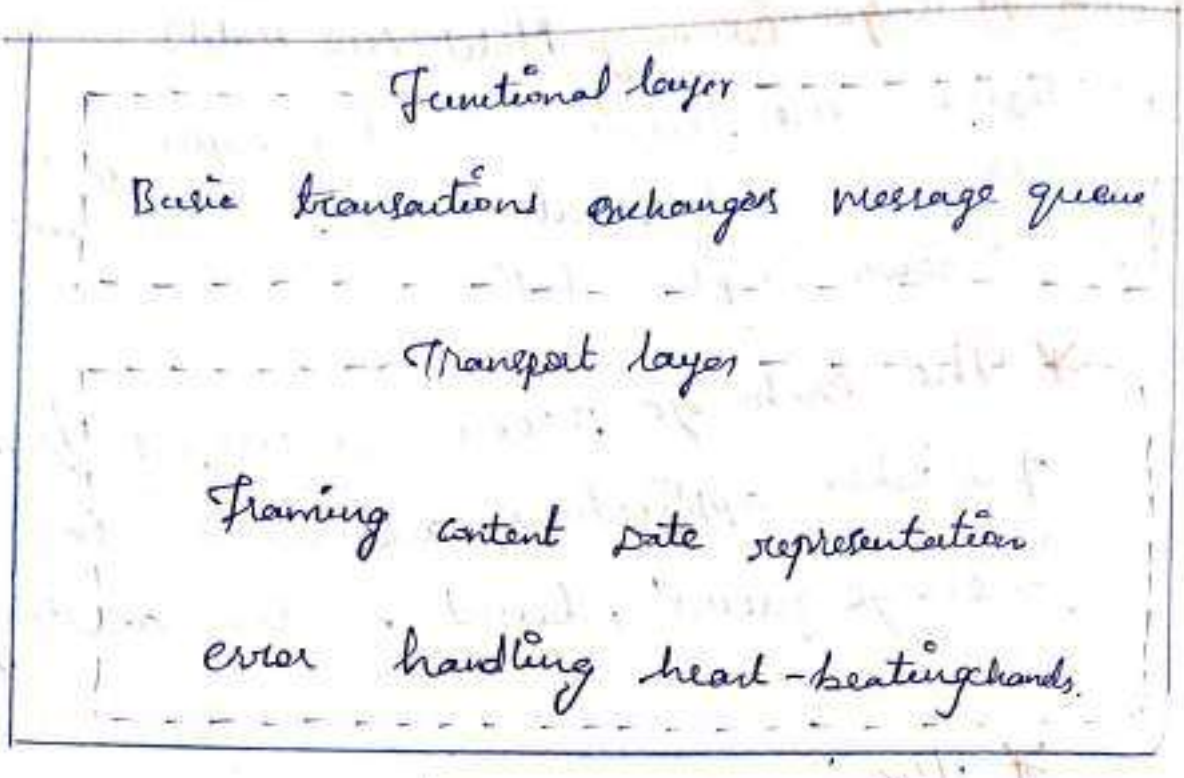
* The exchange receives messages from publishers applications and routes these to "message queues", based on the arbitrary criteria.

* The "message queue" stores messages until they can be safely processed by a consuming client application

* The "binding" defines the relationship between a message queue and an exchange and provides.

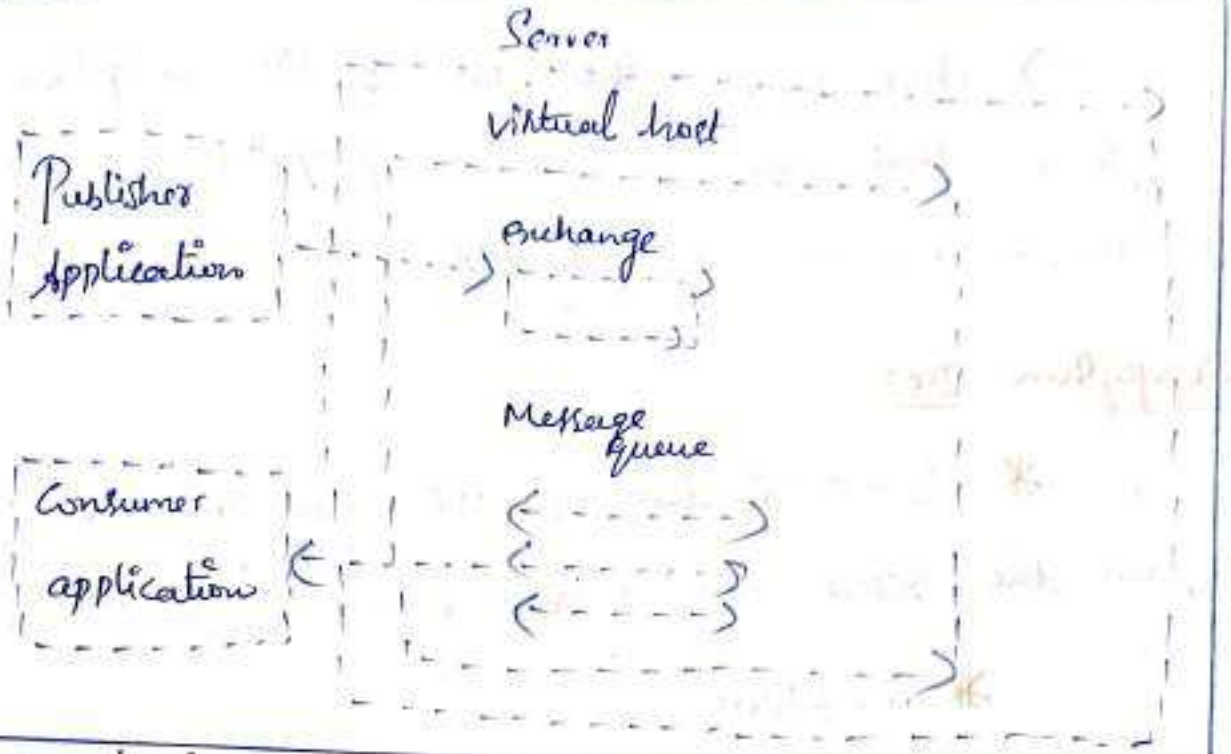
Advanced Message Queuing Protocol (AMQP)

=> The AMQP protocol is a binary protocol with modern features. It is multi-channel, negotiated, asynchronous, secure, portable, neutral and efficient.



* The design AMQ model has driven by these requirement
  * To guarantee interoperability b/w conforming implem
  * To be compact, using a binary encoding that
  * To allow complete configuration of server writing.
  * To handle messages of any size without significant.
  * To be long lived, with no significant.
  * To be clear, so each operation does
  * exactly one thing.

AMQP Model Architecture



* Constrained Application protocol:-

* CoAP is the one of the latest application layer protocol developed by IETF for smart devices to connect to internet.

* CoAP features with the completion of the CoAP specifications.

* CoAP Structure Model:-

* CoAP interactive model is similar to HTTP client / Server model.

* This shows the two layers structure.

15) b) Micropython IDES for ESP32 and ESP8266.

⇒ This shows the list of IDES compatible with Micropython that you can use to program your ESP32 and ESP8266 boards. Do your work.

Micropython IDES

* Here's a list of IDES you can use to program the ESP32 and ESP8266 boards with micropyth

* MU Editor
* UPy craft IDE
* Thonny IDE
* VS code + Pymaker extension
* Pycharm
* micro IDE

*MU Editor:-

* learn how to start programming your ESP32/ ESP8266 boards with Micropython using MU editor

* Getting Started with Micropython on ESP32/ ESP8266 using MU editor.

* MU editor is a simple python editor for beginner programmers. It supports micropython with the ESP32 and ESP8266 boards [MU editor webpage].

* It works pretty well. Comes with a simple and intuitive interface, and provides a menu to burn Micropython firmware to your boards quickly. So you don't need to use esptool.py to burn firmware. You can program and burn firmware using only one software.

* Upy Craft IDE:-

* Getting Started with Micropython on ESP32 and ESP8266 (upy craft IDE)

* This IDE was specifically designed to be used with Micropython

* It provides tools to upload code to the board and also on flash micropython.

* This last tool is very useful because it provides an intuitive easy and quick way to burn Micropython firmware on your boards.

ASSESSMENT TEST - I

NAME : S. MOHAMMED SAMEER

ROLL NO : 821120104029

SUBJECT : MICROPYTHON FOR IOT

DEPRT : CSE

YEAR : III

Good

82/100

18/4/22

Part-A

1) **IOT:**

The Internet of things refers to a type of network to connect anything with the Internet based on stipulated protocols through information sensing equipment to conduct information exchange and communication in order to achieve smart recognition, positioning, tracing, monitoring and administration.

2) **Enabling Technologies for IOT:**

IOT is enabled by several technologies including wireless sensor networks, cloud computing, big data analytics embedded systems, security protocols, web services, mobile Internet and semantic search engines

3) * Slow network. Users Complain the network is too slow.
   * Weak WIFI signal
   * Physical connectivity issues
   * Excessive CPU usage
   * Slow DNS lookups
   * Duplicate and static IP Addresses
   * Exhausted IP Addresses
   * Can't connect to printer.

4) Examples of big data generated by IOT :

* Sensor data generated by IOT Systems such as weather monitoring Systems

⇒ Health & fitness data generated by IOT devices such as wearable fitness bands

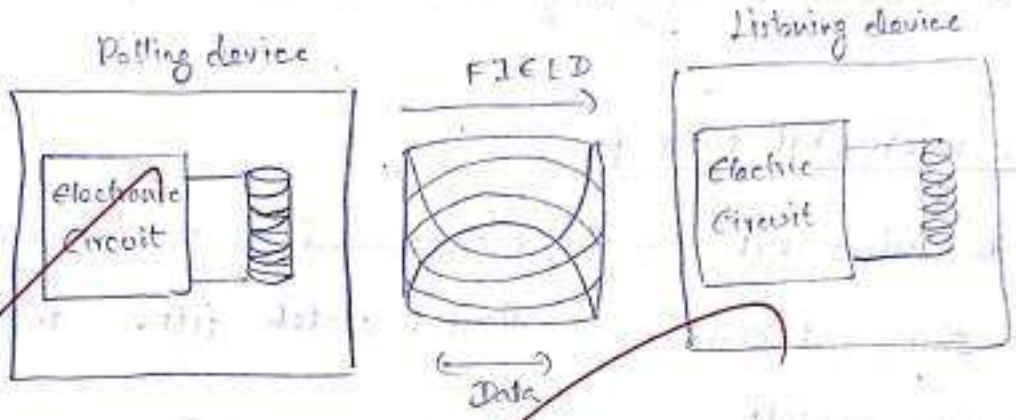
⇒ Data generated by retail inventory monitoring systems

⇒ Data generated by IOT System for location and tracking of Vechicles.

5) Arduino	Raspberry pi
* Control unit of Arduino is from Atmega family. It is based on Microcontroller.	* While control unit of Raspberry pi is from ARM family. It based on microprocessor
* Arduino boards have a simple hardware and software structure.	* Raspberry pi board have a complex architecture of hardware and Software
* It is designed to control the electrical components connect to the circuit board in a System	* Raspberry pi computer data and products valuable outputs and controls components in a System based on the Outcome of its Computation.

6) Data is transmitted in NFC :

Like the RFID standard 14443 and Felica NFC uses an Inductive coupling. Similar to the transformer principle, the magnetic near-field of two conductor coils is used to couple the polling device and listening device



Data transfer between different NFC like NFC smart phones, digital Cameras, notebooks etc.

7) List the base Object defined by RPL

RPL defines the following base objects

- The DODAG information solicitation (DIS) message
- The DODAG information object (DIO)
- The destination advertisement Object
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8) The Pysense shield allows you to sense the environment using 5 different sensors:

* Accelerometer (LIS2HH12)
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9) BBC micro:bit used for

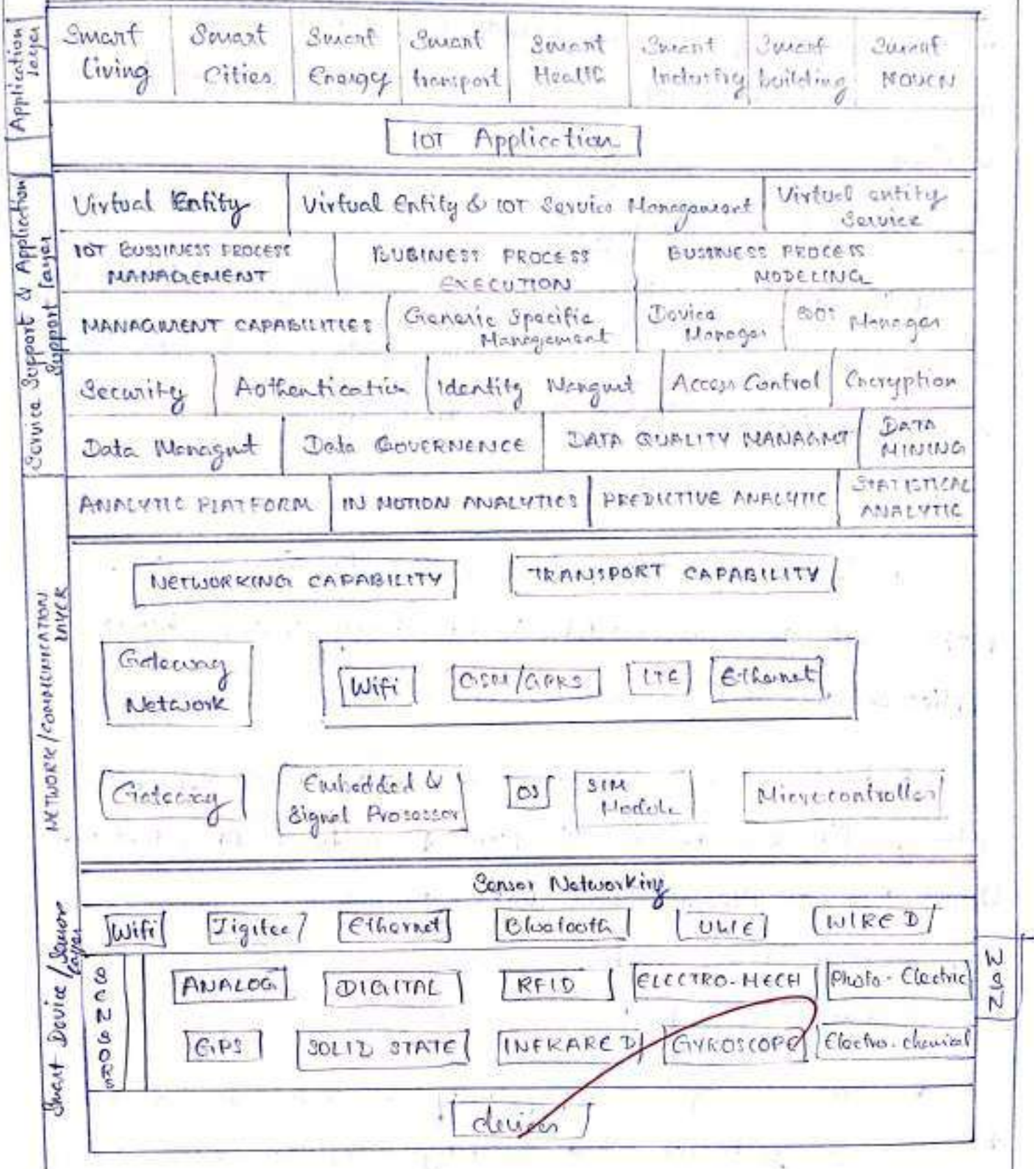
* The micro:bit can be programmed to do a number of different things, it can be a digital watch, fitness tracker, or a games consoles.
* The device feature 25 LED lights and two programmable buttons, which can be used in game-play or to skip through tracks in a playlist

10) WIPy Features:

* Powerful CPU, BLE and state of the art WIFI radio.
* 1 KM WIFI range.
* Micropython enabled, the linux of IOT for fast deployment
* Fits in a standard breadboard
* Ultra-low power usage - a fraction compare to microcontroller
* Python multithreading

Part-B

11) a) Architecture of IOT :



IOT Architecture consits of different layer of technologies supporting IOT. It serves to illustrate how various technologies relate to each other and to communicate the scalability, modularity and configuration of IOT deployement in different Scenarios. shows detailed architecture of IOT. The functionality of each layer is described-

A. Smart device / sensor layer :

* The lowest layer is made up of smart Objects integrated with Sensors. The Sensors enable the interconnection of the physical and digital worlds allowing real-time information to be connected and processed.

* Sensors are grouped according to their unique purpose such as environmental sensors, body sensors, home appliance sensors and vehicle sensors. etc.

* Most Sensors require connectivity to the Sensor gateways. This can be in the form of a Local Area Network (LAN) such as Ethernet and WIFI connections or personal Area Network (PAN) such as ZigBEE, Bluetooth and Ultra Wideband (UWB) such as GSM, GPRS and LTE.

* WSNs are gaining popularity as they can accomodate far more sensor nodes while retaining adequate large areas.

B. Gateways and Networks :

* Massive volume of data will be produced by these tiny sensors and this requires a robust and high performance wired or wireless network infrastructure as a transport medium.

* Current Network, often tied with very different protocols, have been used to support machine-to-machine (M2M) networks and their Applications.

* These network can be in the form of a private, public or hybrid models.

C. Management Service layer :

* The Management service renders the processing of information possible through analytic, security protocols, process modeling and management of devices.

* IOT brings connection and interaction of Objects and System together providing information in the form of events or contextual data such as filtering or routing to port-processing systems temperature of goods, current location and traffic data.

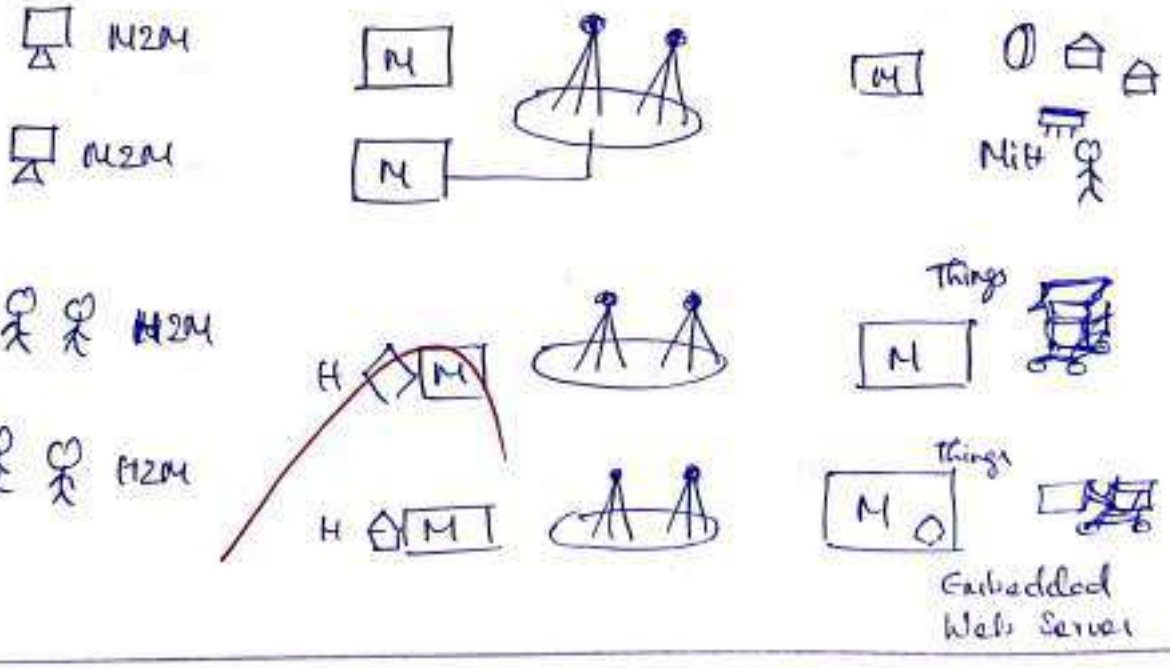
3. Application layer :

* The IOT Application covers "smart" environment in domains such as Transportation, Building, City, Lifestyle, Retail, Agriculture, Factory, Supply chain, Emergency, Healthcare, User Interaction, Culture and tourism, Environment and Energy.

12] a] IOT Frameworks :

* A high level M2M system architecture (HLSA) is defined in the ETSI TS 102 690 V1.1.1 (2011-10) Specification that is useful to the present discussion.

* We describe the HLSA next, summarized from [23]. The HLSA comprises the device and gateway domain, the network domain and the Application domain

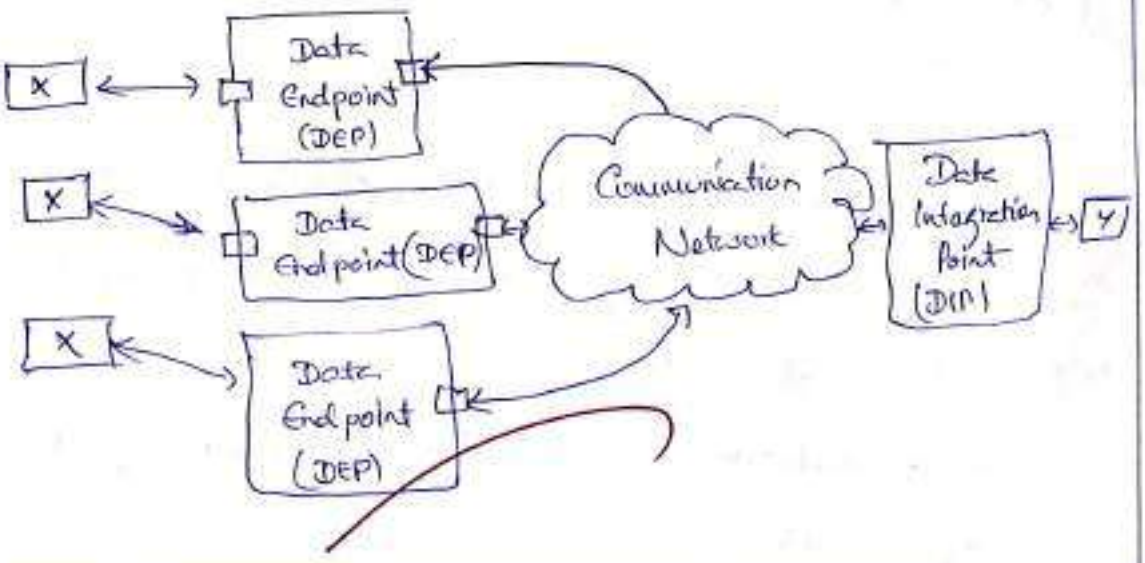


3. M2M device :

* A device that runs M2M application(s) using M2M service capabilities. M2M devices connect to network domain in the following manners.

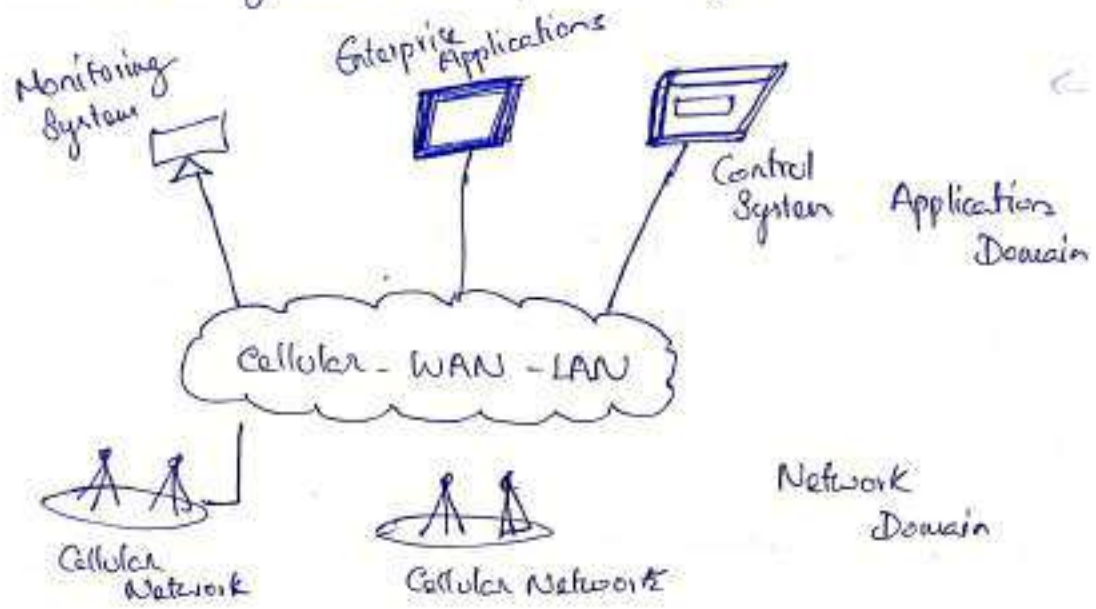
⇒ Case 1 "Direct Connectivity" : M2M device connect to the network domain via the access network. The M2M device performs the procedure such as registration, authentication, authorization, management and provisioning with the network domain.

⇒ Case 2 "Gateway as a Network Proxy" : The M2M device connects to the network domain via an M2M gateway. M2M devices connect to the M2M gateway using the M2M area network. The M2M gateway acts as a proxy for the network domain toward the M2M devices that are connected to it.



Application Domain	Network Domain	Sensing Device Domain

Examples of procedure that are proxied include authentication, authorization, management and provisioning.



2) M2M area Network :

* It provides connectivity between M2M devices and M2M gateways. Local Network such as power line Communication (PLC), M-Bus, Wireless M-Bus and KNX, 3.

3) M2M gateway :

* A gateway that runs M2M Application using M2M service capabilities. The gateway acts as a proxy between M2M devices and the Network domain.

* The Network domain is composed of the following elements.

1) Access Network :

* A Network that allows the M2M device and gateway domain to communicate with the core Network.

* Access Network include digital subscriber line, hybrid fiber coax, satellite, GSM/EDGE radio ~~net~~ access Network (GERAN), UMTS terrestrial radio access network (UTRAN)

2) Core Network :

* A Network that provide the following capabilities

⇒ IP Connectivity at a minimum, and possibly other connectivity means

⇒ Service and network control functions.

⇒ Roaming.

⇒ Interconnection

⇒ Core Connection

3) M2M Service Capabilities :

* Provide M2M functions that are to be shared by different applications

* Expose functions through a set of open interfaces

* Use CNN functionalities

* Simply & Optimize application development and deployment through hiding of network specifications.

13) b) 1) MQTT :

* MQTT is a lightweight message queuing and transport protocol. MQTT as its name implies, is suited for the transport of telemetry data

* MQTT is very lightweight and thus suited for M2M, WSN and ultimately IOT scenarios where sensor and actor nodes communicate with application through the MQTT message broker.

Example :

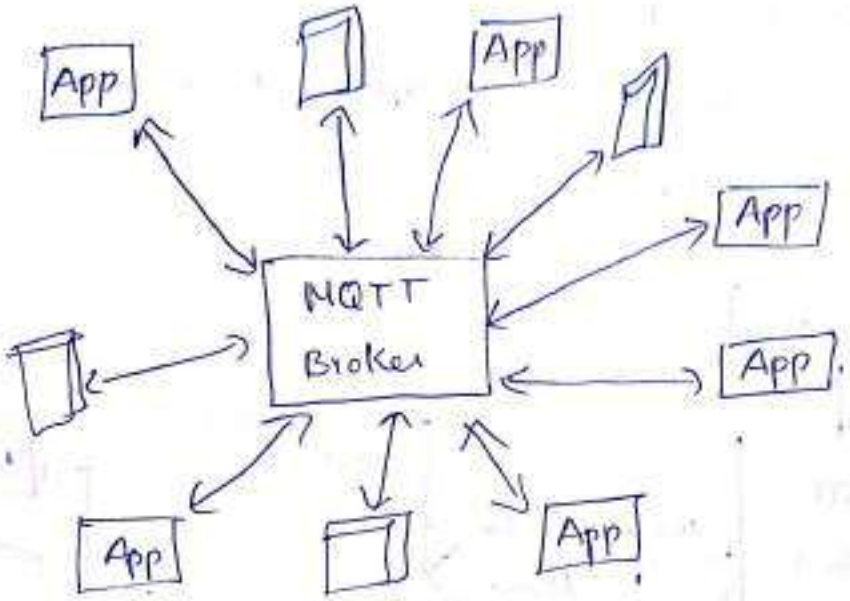
⇒ Light sensor, continuously sends sensor data to the broker.

⇒ Building control application receives sensor data from the broker and decides to actuate the blinds.

⇒ Application sends a blind activation message to the blind actor node through the broker.

2) MQTT characteristics :

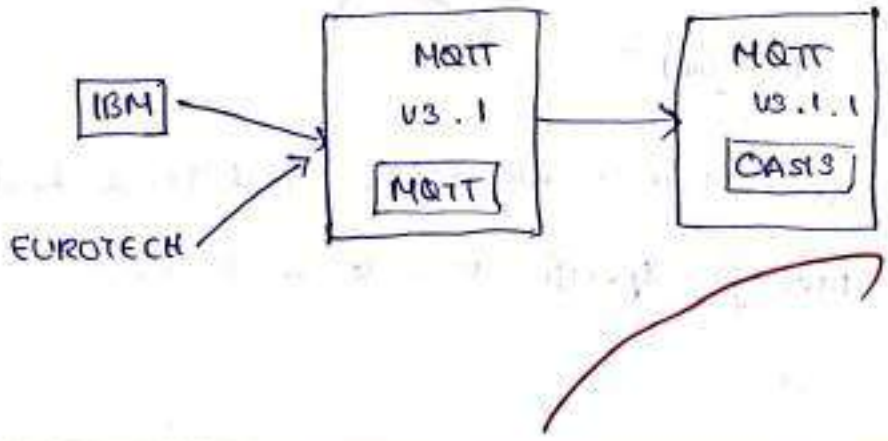
* Lightweight message queuing and transport protocol
* Asynchronous communication model with message
* Decoupling of data producer and data consumer through topics.
* Simple protocol, aimed at low complexity, low power and low footprint implementations



3| Origin & future of MQTT standard:

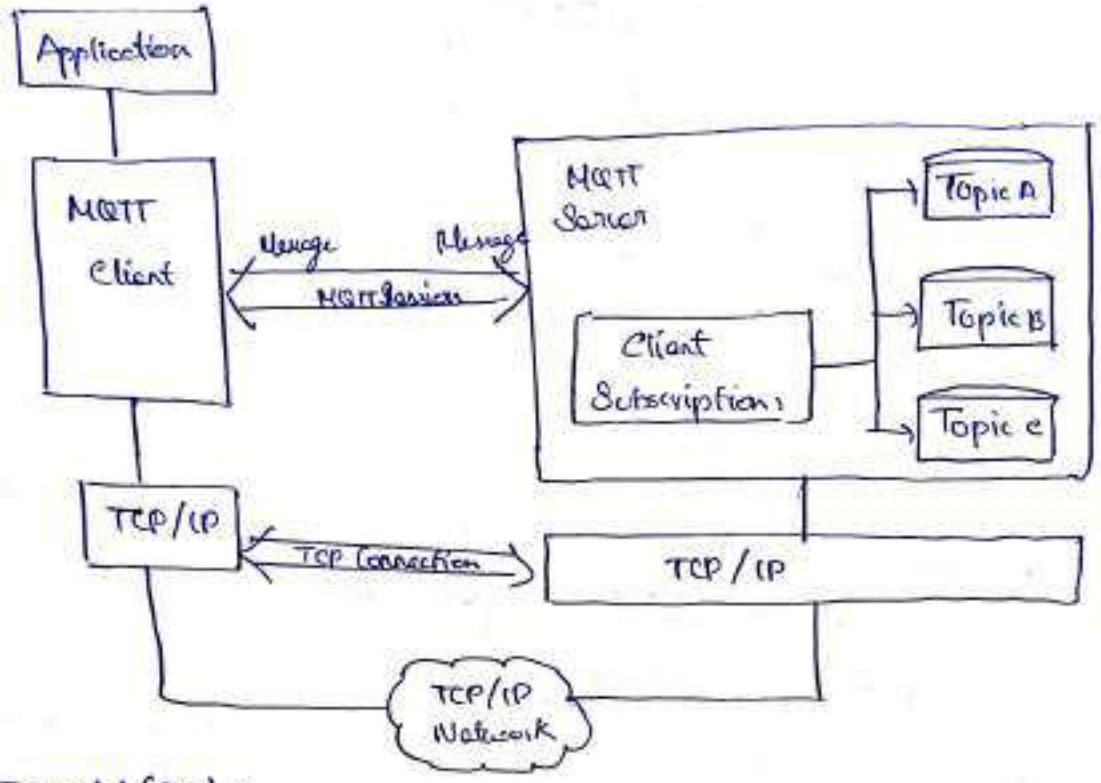
* MQTT was initially developed by IBM and Eurotech The previous protocol version 3.1 was made available under In 2014, MQTT was adopted and published as an official standard by OASIS. As such, OASIS has become the new home for the development of MQTT.

* The OASIS TC is tasked with further development of MQTT. Changes restricted to the CONNECT Message

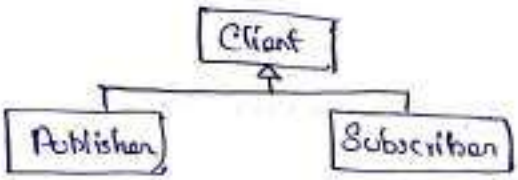


4) MQTT Model (1/3)

The Core element of MQTT are client, server, sessions, subscription and topics.



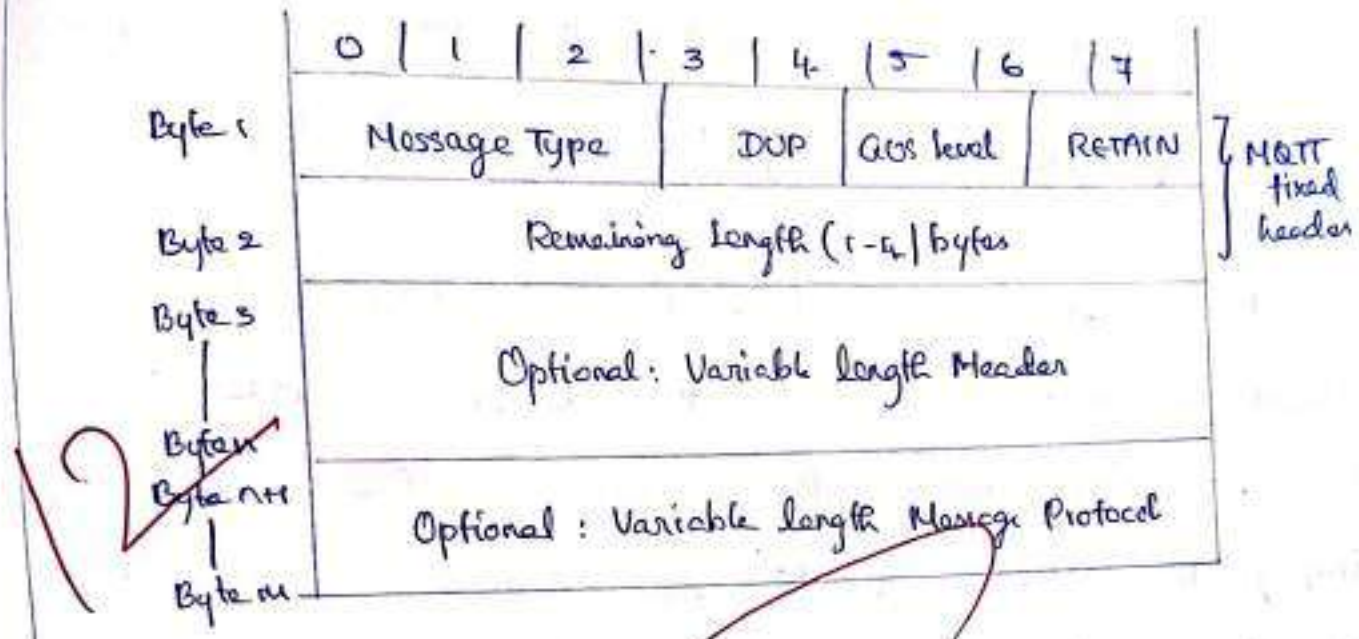
MQTT Model (2/3) :



5) MQTT Message format (1/4) :

* MQTT Message contain a mandatory fixed length header and an Optional message specific variable length header and message payload

MQTT uses network byte and bit Ordering



MQTT Message format (2/14)

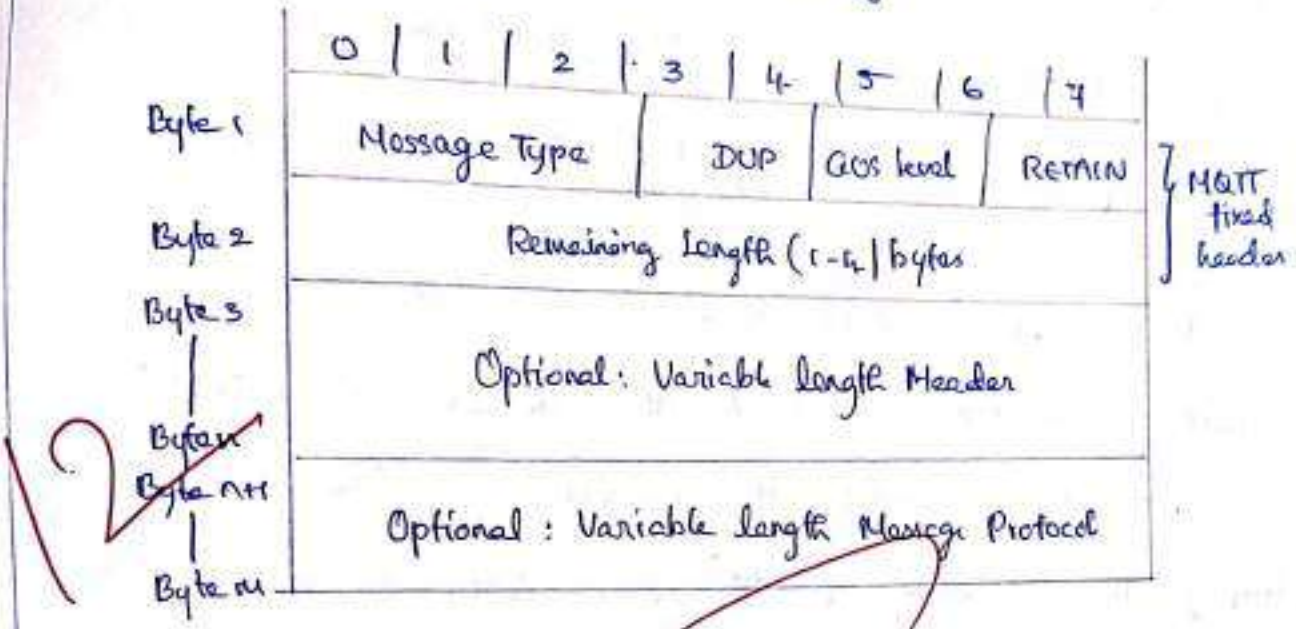
14) b) **AMQP**:

* AMQP Creates full fontional interoperability between conforming clients and messaging middleware servers. Our goal is to enable the development and industry wide use of standard messaging middleware technology that will lower the cost of enterprise and system integration and provide industrial to a broad audience

Scope of AMQP:

* A defined set of messaging capabilities called the Advanced Message Queuing Protocol Model (AMQ)

MQTT uses network byte and bit Ordering



MQTT Message format (2/14)

14) b) AMQP :

* AMQP Creates full functional interoperability between conforming clients and messaging middleware servers. Our goal is to enable the development and industry wide use of standard messaging middleware technology that will lower the cost of enterprise and system integration and provide industrial to a broad audience

Scope of AMQP :

* A defined set of messaging capabilities called the Advanced Message Queuing Protocol Model (AMQ)

The AMQP model consist of a set of components that route and store messages within the broker service, plus a set of rules for wiring these component together.

* A Network wire-level protocol AMQP that lets client application talk to the Server and interact with the AMQP Model it implements. One can partially imply the Sentence of the Server from the AMQP protocol specification but we believe in the understanding of the Protocol

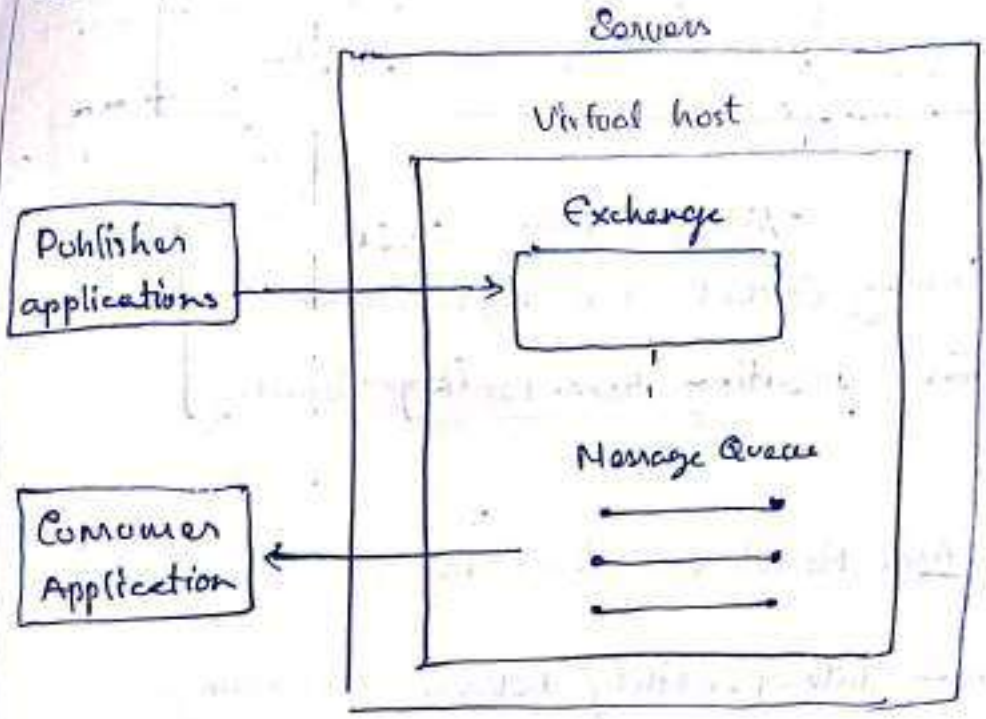
Advanced Message Queuing Model (AMQP model):

* The "exchange" receive message from publisher applications and routes these to "message queues", based on arbitrary criteria. Usually message properties or content

* The "Message queue" stores message until they can be safely processed by a consuming client application.

* The "binding" defines the relationship between a message que and in exchange and provides the message routing criteria.

AMQP Model Architecture :



* The Exchange which accepts message from producers and routes them message queues.

* The Message queue, which stores message and forward them to consumer application

⇒ The Ability at runtime via the protocol to create arbitary exchange and message queue types.

⇒ The ability at runtime via the protocol to wire exchange and message queues together to create any required message-processing System.

Constrained Application Protocol :

CoAP features:

Constrained with protocol fulfilling M2M requirements
Security binding to Datagram Transport Layer Security (DTLS)
Asynchronous Message Exchange
Low header overhead and parsing Complexity
URI and Content type support
Simple proxy and caching capabilities
UDP binding with Optional reliability supporting unicast and multicast request
A stateless HTTP mapping, allowing proxies to be build providing access to CoAP resources via HTTP in a solution easy or for HTTP simple interface to be selected alternatively over CoAP.

13

CoAP structured model

A

⇒ Application

⇒ Request / Response ⇒ UDP.

⇒ Message

15] b] Micropython IDE's :

* MU Editor
* UpyCraft IDE
* Thonny IDE
* VS Code + 'pymaker extension
* Micro IDE
* pycharm

MU Editor :

* It is a sample python editor for beginner programmers. It supports micropython with the ESP32 and ESP8266
* It allows you to see which files are saved on the Micropython devices.
* This IDE is almost perfect, however there are a few things first it doesn't have a stop between to abort and interrupt the code that is running on the board. We need to establish a connection and then press CTRL+C. This doesn't always work because when the ESP is busy. We can't connect with it.

Pycharm :

* It is an advanced python - IDE with cool features like code Completion, debugging, error highlights and it helps to write better python code by providing tips.

* It is a more advanced IDE for professional developers or advanced programmers.

MICRO IDE :

* It is still is beta Version. The great advantage of this IDE is that as long as we have the IDE firmware on board

* Upload new code wirelessly via the IDE web server, without the need for a physical serial connection between board of Computer

* This IDE is only compatible with ESP32, but it will have support for the ESP8266 board in future

Vs code + pymakr extension :

* Many people are used to programming using vs code.

* There is a plugin for vs code that supports Micropython called pymakr.

* It use a Saparate tool to burn micropython firmware

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD

Assessment- I

Subject Code/Name : IVA091 / MicroPython for IoT
Subject Credit : 2

Year/Sem : III / V
Batch: 2020-2024
Date : 18-11-2022

R.NO	REG.NO	NAME	Marks (100)
1.	821120104001	AASHA J	98
2.	821120104002	AJAY S	96
3.	821120104003	ARUNOTHAYA A C	78
4.	821120104004	ASHWIN V	92
5.	821120104005	ATCHAYA R V	94
6.	821120104006	BALAMURUGAN M	87
7.	821120104007	BARATHRAJ R	88
8.	821120104008	BHAVATHARANI V	90
9.	821120104009	BOOMIKA R	96
10.	821120104010	DEEPAK KUMAR D	89
11.	821120104011	DEEPAN S	88
12.	821120104012	DEEPIKA K	95
13.	821120104013	DINESH S	97
14.	821120104014	DINESHKUMAR R	96
15.	821120104015	ELAMARAN S	90
16.	821120104016	ESWAR S	85
17.	821120104017	GAYATHRI M	92
18.	821120104018	GEETHA I	96
19.	821120104019	GUHAN D	97
20.	821120104020	HARISH B	94
21.	821120104021	JAYAVANI K	87
22.	821120104022	JENO VINNARASI A	89
23.	821120104023	KARTHIKA M	90
24.	821120104024	KAYALVIZHI K	92
25.	821120104025	KEERTHIGA S	97
26.	821120104026	KRISHNAKUMAR G	94
27.	821120104027	LAVANYA J	89
28.	821120104028	MAHALAKSHMI V	98
29.	821120104029	MOHAMED SAMEER S	82
30.	821120104030	MUHILAN E	86

31.	821120104031	MURUGARAJ M	99
32.	821120104032	NANDHINI S	96
33.	821120104033	NARESH KUMAR N	94
34.	821120104034	NITHISH S	87
35.	821120104035	NIVETHA S	90
36.	821120104036	PARKAVI D	94
37.	821120104037	PRAKASH A	96
38.	821120104038	PRIYARANI.B	98
39.	821120104039	RAGUL SANKAR J	90
40.	821120104040	RAJKUMAR K	92
41.	821120104041	REENA S	89
42.	821120104042	SAFREENBANU S	95
43.	821120104043	SANTHOSH KUMAR G	97
44.	821120104044	SARVESH S	86
45.	821120104045	SATHYA A	88
46.	821120104046	SATHYA R	92
47.	821120104047	SIVA M	94
48.	821120104048	SNEGA S	97
49.	821120104049	SNEHA E	85
50.	821120104050	SNEHA P(23/5)	87
51.	821120104051	SNEKA P(19/6)	88
52.	821120104052	SURIYAPRAKASH M	96
53.	821120104053	SURUTHIGA C	95
54.	821120104054	THIRUMURUGAN K	99
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56.	821120104056	VANATHI G	98
57.	821120104057	VARSHA N N	90
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59.	821120104059	VASINYA M	86
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61.	821120104061	VIJAY S	90
62.	821120104062	VINTHIYA M	95
63.	821120104063	YOKESHWARI P	89
64.	821120104301	RAJESH KANNAN C	94
65.	821120104302	RISHI KUMAR R	98
66.		SELVAPRIYA A	97

21/11/22
STAFF INCHARGE

21/11/22
HOD/CSE

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

Micropython for IOT

Date : 20-12-22

Assessment test II

1. Write a micropython script for an IOT weather station.
2. Implement a micropython program for an IOT device that subscribes to specific topic of an MQTT broker upon receiving messages on this topics, the devices shouls perform corresponding actions such as turning an led ON/ OFF.
3. Design a simple webserver for an IOT device using micropython
4. Design a micropython program for measuring temperature and humidity use of DHT11 sensor and LED conducted to pin no 2 for alert.
5. Write a program for micropython script for remote sensor data monitoring and control task.
6. Write a program for smart home automation system.
7. What is micropython and how it is relevant to IOT.

18/12/22

Staff incharge

18/12/22

HOD/CSE

SAMPLE PAPER

D. Parkavi

III. Year

20/12/22

Assessment - II

20/12/22

98/100

1. Write a Micropython script for an IOT weather station. The script should read temperature and humidity data from a DHT11 sensor & log it to a csv file stored on an SD card. Additionally temperature and humidity over the last hour calculate & print the Average.

```
import dht
import machine
import utime
dht_sensor = dht.DHT11(machine.Pin(4))

def log_data(temp, humidity):
    with open('/sdcard/weather_data.csv', 'a') as
                                        file:
        file.write(f'{utime.localtime()},
                   {temp}, {humidity}\n')

def calculate_average():
```

```
        pass

While True:
    try:
        dht_sensor.measure()
        temp = dht_sensor.temperature()
        humidity = dht_sensor.humidity()
        log_data(temp, humidity)
        utime.sleep(3600)
        calculate_average()
    except OSError as e:
        print("Error:", e)
```

2. Implement a Micropython program for an IoT device that subscribes to specific topics of an MQTT broker. Upon receiving Messages on these topics, the device should perform corresponding actions such as turning an LED on or off.

```
import machine
import time
from umqtt.simple import MQTTclient

def sub-cb(topic ,msg):
    print((topic, msg))
    if topic == b'led/control':
        if msg == b'on':
            led.value(1)
        elif msg == b'off':
            led.value(0)

client = MQTTclient("esp32", "mqtt-server",
        user="user", password='password')

client.set_callback(sub_cb)
client.connect()

client.subscribe(b"led/control")
led = machine.Pin(2, machine.Pin.OUT)
try:
    While True:
```

```
        client.check_msg()
        time.sleep(1)
finally
    client.disconnect()
```

3. Design a simple web server for an IOT device using Micropython.

```
import network
import usocket as socket
wifi_ssid = "Your_wifi_ssid"
wifi_password = "Your_wifi_password"
station = network.WLAN(network.STA_IF)

station.active(True)
station.connect(wifi_ssid, wifi_password)

# Function to handle HTTP requests.
def handle_request(client_socket):
    request = client_socket.recv(1024)
    method, path, *_ = request.decode().
                        split(' ')
```

```
if path == '/':
    response = "HTTP/1.0 200 OK\r\nContent-
                Type: text/html\r\n\r\n"
else:
    response = "HTTP/1.0 404 Not Found"
    response += "<h1> 404 Not Found </h1>"
client_socket.send(response.encode())
client_socket.close()

While True:
    client_socket, addr = server_socket.accept()
    print("Connection from:", addr)
    handle_request(client_socket).
```

4. Micropython script that demonstrates automated sensor data analysis for an IoT device. That assumes the use of a DHT11 sensor for measuring temperature & humidity & LED connected to pin 2. for alert.

```
import dht
import machine
import utime
```

```
dht_sensor = dht.DHT11(machine.Pin(4))
led= machine.Pin(2, machine.Pin.OUT)

def read_sensor_data():
    dht_sensor.measure()
    temperature =dht_sensor.temperature()
    humidity =dht_sensor.humidity()
    return temperature, humidity

def analyze_data():
    if temperature > 30:
        print("Temperature is too high!")
        led.on()
    else:
        led.off()

While True:
    try:
        analyze_data()
        utime.sleep(10)
    except Exception as e:
        print("Error:",e)
```

5. Write the program for Micropython script for Remote Sensor Data Monitoring & Control task.

```
import machine
import network
from umqtt.simple import MQTTClient
import dht
import utime

WIFI_SSID = "Your wifi ssid"
WIFI_PASSWOR = "Your_Wifi:Password"

MQTT_BROKER = "mqtt.ex.com"
MQTT_CLIENT_ID = "esp32"

dht_sensor = dht.DHT11(machine.Pin(4))
led = machine.Pin(2, machine.Pin.OUT)

def connect_wifi():
    if not sta_if.isconnected():
        print("Connecting to Wifi...")
        While not sta_if.isconnected():
            pass

def main():
    connect_wifi()
    client = init_mqtt()
    try:
        While True:
            client.check_msg()
            utime.sleep(10)
    finally
        client.disconnect()
```

```
if name-- t = "--main--":
    main()
```

6. Write Program for Smart Home Automation System

```
import machine
import network
import dht
import ujson
import usocket as socket
WIFI_SSID = "Your_wifi_ssid"
dht_sensor = dht.DHT11(machine.Pin(4))
def Connect_wifi():
    sta_if = network.WLAN(network.STA_IF)
    if not sta_if.isconnected():
        print("Connecting to wifi...")
    print("WiFi connected:())
def Mqtt_callback(topic, msg):
    print("Received message on topic:")
    print("Message:" msg)
    if topic == MQTT_TOPIC_CONTROL:
```

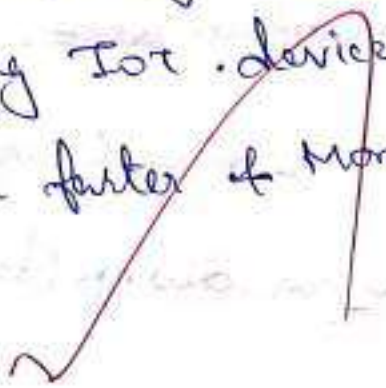
```
def handle_control_message(msg):
    try:
        control_data = ujson.loads(msg)
        if "appliance" in control_data and
                                "action"
    except Exception as e:
def publish_sensor_data(client):
    payload = ujson.dumps(data)
def main():
    try:
        while True:
            client.check_msg()
    finally:
        client.disconnect()
if __name__ == "__main__":
    main().
```

7. What is Micropython, & how is it relevant to IoT?

Micropython is lean & efficient implementation of the Python 3

Python is programming language specifically designed to run on Microcontroller & constrained environments.

It enables developers to utilize Python's simplicity and ease of use for programming IoT devices, making development faster & more accessible.



20/12/22

Assessment - II

P. Sneha
III - Year

92/100

1. Develop a MicroPython program for an IOT device that monitors the soil moisture level of a plant and automatically waters it when the moisture falls below a certain threshold.

```
import machine
import network
import time
def Connect_wifi (ssid, password):
    wlan = network.WLAN (network.STA_IF)
    wlan.active (True)
    wlan.connect (ssid, password)
    while not wlan.isconnected ():
        Pass
    print ("Wi-Fi Connected")
def send_notifiLation (message):
    Print ("Notification sent:", message)
def activate_water_pump():
    print ("Water pump activated")
def read_moisture():
    return machine.ADC (0).read()
def main():
    ssid = "your_wifi_ssid"
```

```
password = "your-wifi-password"
connect_wifi(ssid, password)
moisture_threshold = 500
watering_duration = 10
while True:
    moisture_level = read_moisture()
    if moisture_level < moisture_threshold:
        activate_water_pump()
        message = f"Plant watered at {time.
            localtime()} for {water_duration} sec"
        send_notification(message)
        time.sleep(watering_duration)
    else:
        time.sleep(60)
if __name__ == "__main__":
    main()
```

2. Write a MicroPython Program to implement this air quality monitoring system.

```
import machine
import network
import time
def connect_wifi(ssid, password):
    wlan = network.WLAN(network.STA_IF)
```

```
wlan.active(True)
wlan.connect(ssid, password)
while not wlan.isconnected():
    pass
print("Wi-Fi connected")
def send_alert(message):
    print("Alert:", message)
def read_air_quality():
    co_level = machine.ADC(0).read()
    no2_level = machine.ADC(1).read()
    pm25_level = machine.ADC(2).read()
    return co_level, no2_level, pm25_level
def main():
    ssid = "your_wifi_ssid"
    password = "your_wifi_password"
    connect_wifi(ssid, password)
    co_threshold = 500
    no2_threshold = 200
    pm25_threshold = 100
    try:
        while True:
            co_level, no2_level, pm25_level = read_air_
                                              quality()
```

```
            if (o_level > (o_threshold:
                send_alret ("High (o level detected.
                    ()". format (o_level))
            if no2_level > no2_threshold:
                send_alret ("High No2 level detected.
                    ()". format (no2_level))
            if pm25_level > pm25_threshold:
                send_alret ("High PM2.5 level
                    detected: ()". format (pm25_level))
            time.sleep(60)
        except Exception as e:
            Print ("An error occurred:", e)
if __name__ == "__main__":
    main().
```

3. Write a MicroPython program to implement this room occupancy monitoring system.

```
import machine
import network
import time
def connect_wifi (ssid, password):
    wlan = network.WLAN (network.STA_IF)
    wlan.active (True)
    wlan.connect (ssid, password)
    while not wlan.isconnected ():
        pass
```

```
    Print ("Wi-Fi Connected")
def send_notification (message):
    Print ("Notification sent:", message)
def init_pir_sensor (pin):
    pir_sensor = machine.Pin (pin, machine.Pin.
                              IN)
    return pir_sensor
def check_occupancy (pir_sensor):
    return sum ([pir_sensor.value() for _ in
                 range (10)]) > 3
if __name__ == "__main__":
    main()
```

4 Design a simple web server for an IoT device using MicroPython.

```
import network
import socket as socket
wifi_ssid = "your_wifi_ssid"
wifi_password = "your_wifi_password"
station = network.WLAN (network.STA_IF)
station.active (True)
station.connect (wifi_ssid, wifi_password)
def handle_request (client_socket):
    request = client_socket.recv (1024)
    method, path, *_ = request.decode()
```

```
if path == '/':
    response = "HTTP/1.0 200 OK\r\nContent-Type
                :text/html\r\n\r\n"
else:
    response = "HTTP/1.0 404 Not Found"
while True:
    client_socket, addr = server_socket.accept()
    print("Connection from:", addr)
    handle_request(client_socket)
```

5. Write a Micropython script for an IoT weather station.

```
import dht
import machine
import utime
dht_sensor = dht.DHT11(machine.Pin(4))
def log_data(temp, humidity):
    with open('/sd/card/weather_data.
              csv', 'a') as file:
        file.write(f'{utime.localtime()},
                   {temp}, {humidity}\n')
def calculate_average():
    pass
while True:
```

```
        dht_sensor.measure()
        temp = dht_sensor.temperature()
        humidity = dht_sensor.humidity()
        log_data(temp, humidity)
        utime.sleep(3600)
        calculate_average()
    except OSError as e:
        print("Error:", e)
```

6. Write a MicroPython program to implement this ambient light monitoring & LED brightness control system.

```
import machine
import network
import time
def connect_wifi(ssid, password):
    network.WLAN(network.STA_IF).
                    active(True)
    while not network.WLAN(network.STA_IF)
        pass
    print("Wi-Fi connected")
def init_photoresistor(pin):
    return machine.ADC(pin)
def map_brightness(light_intensity):
```

```
    return int(light_intensity / 10)

def main():
    ssid, password = "your_wifi_ssid"
    connect_wifi(ssid, password)
    while True:
        light_intensity = photoresistor.read()
        time.sleep()
if __name__ == "__main__":
    main()
```

7. What are some common IoT applications that can be developed using MicroPython?

MicroPython can be used to develop a wide range of IoT applications, including sensor data collection and analysis, home automation systems, smart agriculture solutions, wearable devices, industrial monitoring systems and more. Its simplicity and versatility make it suitable for various IoT projects.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD
Assessment- II

Subject Code/Name : IVA091 / MicroPython for IoT
Subject Credit : 2

Year/Sem : III / V
Batch: 2020-2024
Date : 20/12/22

R.NO	REG.NO	NAME	Marks (100)
1.	821120104001	AASHA J	90
2.	821120104002	AJAY S	95
3.	821120104003	ARUNOTHAYA A C	94
4.	821120104004	ASHWIN V	96
5.	821120104005	ATCHAYA R V	90
6.	821120104006	BALAMURUGAN M	89
7.	821120104007	BARATHRAJ R	90
8.	821120104008	BHAVATHARANI V	85
9.	821120104009	BOOMIKA R	90
10.	821120104010	DEEPAK KUMAR D	95
11.	821120104011	DEEPAN S	92
12.	821120104012	DEEPIKA K	85
13.	821120104013	DINESH S	80
14.	821120104014	DINESHKUMAR R	82
15.	821120104015	ELAMARAN S	92
16.	821120104016	ESWAR S	92
17.	821120104017	GAYATHRI M	93
18.	821120104018	GEETHA I	95
19.	821120104019	GUHAN D	90
20.	821120104020	HARISH B	98
21.	821120104021	JAYAVANI K	92
22.	821120104022	JENO VINNARASI A	95
23.	821120104023	KARTHIKA M	98
24.	821120104024	KAYALVIZHI K	98
25.	821120104025	KEERTHIGA S	95
26.	821120104026	KRISHNAKUMAR G	92
27.	821120104027	LAVANYA J	98
28.	821120104028	MAHALAKSHMI V	89
29.	821120104029	MOHAMED SAMEER S	92
30.	821120104030	MUHILAN E	93

31.	821120104031	MURUGARAJ M	90
32.	821120104032	NANDHINI S	83
33.	821120104033	NARESH KUMAR N	82
34.	821120104034	NITHISH S	91
35.	821120104035	NIVETHA S	90
36.	821120104036	PARKAVI D	98
37.	821120104037	PRAKASH A	90
38.	821120104038	PRIYARANI.B	98
39.	821120104039	RAGUL SANKAR J	90
40.	821120104040	RAJKUMAR K	98
41.	821120104041	REENA S	80
42.	821120104042	SAFREENBANU S	81
43.	821120104043	SANTHOSH KUMAR G	82
44.	821120104044	SARVESH S	83
45.	821120104045	SATHYA A	89
46.	821120104046	SATHYA R	81
47.	821120104047	SIVA M	83
48.	821120104048	SNEGA S	90
49.	821120104049	SNEHA E	90
50.	821120104050	SNEHA P(23/5)	89
51.	821120104051	SNEKA P(19/6)	92
52.	821120104052	SURIYAPRAKASH M	90
53.	821120104053	SURUTHIGA C	90
54.	821120104054	THIRUMURUGAN K	89
55.	821120104055	THIRUMURUGAN S	82
56.	821120104056	VANATHI G	80
57.	821120104057	VARSHA N N	98
58.	821120104058	VASANTH M	90
59.	821120104059	VASINYA M	89
60.	821120104060	VICHITHRA V	90
61.	821120104061	VIJAY S	80
62.	821120104062	VINTHIYA M	92
63.	821120104063	YOKESHWARI P	90
64.	821120104301	RAJESH KANNAN C	89
65.	821120104302	RISHI KUMAR R	80
66.		SELVAPRIYA A	82

Staff Incharge

HoD/CSE 29/12

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022- 23 ODD SEMESTER

VALUE ADDED COURSE - REPORT

MicroPython for IoT

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
MicroPython for IoT	45 Hrs	III/V (66)	Ms.R.Sugantha Lakshmi Ms.G.Chandra Praba	1.8.22

1. OBJECTIVE

To make the students

- Understand the concepts of IoT
- To acquire programming skills in MicroPython
- To develop the ability to create applications using MicroPython

2. COURSE COVERAGE

The course provided the students with

- Fundamentals of Internet of Things such as architecture, hardware and software behind IoT.
- Development boards - Arduino, Raspberry Pi, Pyboard
- Wireless Technologies and Protocols
- MicroPython - IDEs, Programming basics, Libraries and simple applications

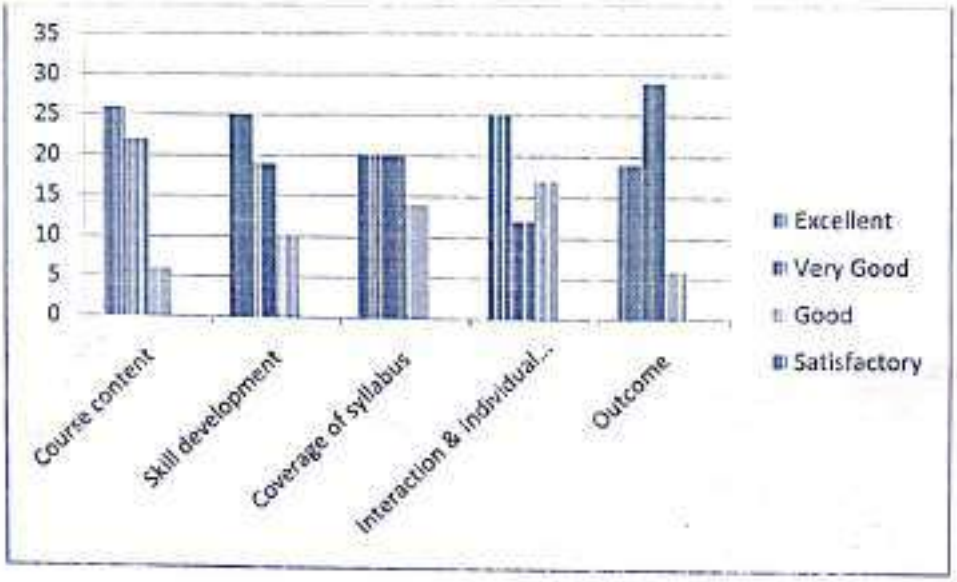
3. SYLLABUS COVERAGE

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
45	45	05

4. ASSESSMENT TEST PERFORMANCE

TEST	NO OF UNITS	NO OF STUDENTS ATTENDED	NO OF STUDENTS PASSED	PASS %
Internal Assessment 1	3	66	66	100
Internal Assessment 2	5	66	66	100

5. FEEDBACK



OUTCOME

The students are able to

- Understand the concepts of IoT and its communication technologies.
- Develop real time applications using MicroPython.

28/12/22
COURSE COORDINATORS

28/12/22
HOD/CSE

28/12/2022
PRINCIPAL

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

SAMPLE CERTIFICATES

ANNA UNIVERSITY, CHENNAI - 25
B.E. DEGREE EXAMINATIONS
GRADE SHEET

Sl.No: MA 5358125 Folio No. AUJ0416847

NAME OF THE CANDIDATE	ARUNOTHAYAA A C					REGISTER NO	821120104003
DATE OF BIRTH	23-MAR-2003	GENDER	FEMALE	MONTH & YEAR OF EXAMINATION	NOV 2022	DATE OF PUBLICATION	11-MAR-2023
COLLEGE OF STUDY	KINGS COLLEGE OF ENGINEERING					REGULATION	2017(CBCS)
PROGRAMME & BRANCH	B.E. Computer Science and Engineering						

SEM NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
05	CS8501	Theory of Computation	3	B+	7	PASS
05	CS8581	Networks Laboratory	2	O	10	PASS
05	CS8582	Object Oriented Analysis and Design Laboratory	2	A+	9	PASS
05	CS8591	Computer Networks	3	B	6	PASS
05	CS8592	Object Oriented Analysis and Design	3	B+	7	PASS
05	EC8681	Microprocessors and Microcontrollers Laboratory	2	O	10	PASS
05	EC8691	Microprocessors and Microcontrollers	3	B	6	PASS
05	MA8551	Algebra and Number Theory	4	U	0	RA
05	OMF551	Product Design and Development	3	A+	9	PASS
05	SB8014**	Full Stack	2	A+	9	PASS
		Value Added Course(s)				
05	IVA091	MicroPython for IoT	2	O	10	PASS

* * * End of Statement * * *

** This course is not considered for GPA / CGPA Calculation. However, it will be considered, if the total credit of this course and the course that will be registered in the 6th semester under the category of Skill Based Courses is greater than or equal to 1.

Semester	I	II	III	IV	V	VI	VII	VIII	IX
Credits Registered					25				
Credits Earned					21				
Grade Points Earned					64				
Grade Point Average (GPA)					7.762				
Cumulative Credits Earned	118	Cumulative Grade Point Average (CGPA)				8.54	Medium of instruction : ENGLISH		

RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination

Chennai - 600 025
Date: 01-08-2023

Controller of Examinations Chennai 600 025 Anna University

SIGNATURE OF THE CANDIDATE

P. Sasthavel

CONTROLLER OF EXAMINATIONS

ANNA UNIVERSITY, CHENNAI - 25
B.E. DEGREE EXAMINATIONS
GRADE SHEET

Sl.No: MA 5736550 Folio No. AUJ0300606

NAME OF THE CANDIDATE	MOHAMMED SAMEER S					REGISTER NO	821120104029
DATE OF BIRTH	05-JUN-2003	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2022	DATE OF PUBLICATION	11-MAR-2023
COLLEGE OF STUDY	KINGS COLLEGE OF ENGINEERING					REGULATIONS	2017(CBCS)
PROGRAMME & BRANCH	B.E. Computer Science and Engineering						

SEM NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
04	CS8494	Software Engineering	3	B	6	PASS
05	CS8501	Theory of Computation	3	B	6	PASS
05	CS8581	Networks Laboratory	2	O	10	PASS
05	CS8582	Object Oriented Analysis and Design Laboratory	2	O	10	PASS
05	CS8591	Computer Networks	3	B+	7	PASS
05	CS8592	Object Oriented Analysis and Design	3	B	6	PASS
05	EC8681	Microprocessors and Microcontrollers Laboratory	2	B+	7	PASS
05	EC8691	Microprocessors and Microcontrollers	3	A	8	PASS
05	MA8551	Algebra and Number Theory	4	U	0	RA
05	OMF551	Product Design and Development	3	A+	9	PASS
05	SB8016**	Fundamentals of Big Data Analytics	2	O	10	PASS
		Value Added Course(s)				
05	IVA091	MicroPython for IoT	2	O	10	PASS

* * * End of Statement * * *

** This course is not considered for GPA / CGPA Calculation. However, it will be considered, if the total credit of this course and the course that will be registered in the 6th semester under the category of Skill Based Courses is greater than or equal to 3.

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered				3	25					
Credits Earned				3	21					
Grade Points Earned				6	63					
Grade Point Average (GPA)				6.000	7.714					
Cumulative Credits Earned	118	Cumulative Grade Point Average (CGPA)				8.61	Medium of Instruction : ENGLISH			

RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination

Controller of Examinations * Chennai 600 025 * Anna University

Chennai - 600 025.
Date : 01-08-2023

SIGNATURE OF THE CANDIDATE

P. Santhi

CONTROLLER OF EXAMINATIONS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Refresher Course on Programming in C

ACADEMIC YEAR 2022-2023

KINGS COLLEGE OF ENGINEERING

CERT

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

Refresher Course in "Programming in C" CIRCULAR

20.7.22

As our department has planned to offer a **Refresher course** for Final year students from 1.8.22 on **Programming in C** through which the students can improve their programming knowledge, to create many types of applications, games apps of different complexity and scale. Kindly go through the course schedule mentioned below for your reference. The students are insisted to attend the course without fail and get benefitted.

Course Details

Name of the course	Duration of the course	Faculty Instructor	Start Date
Programming in C	30 Hrs	Mr.S.Rajarajan Mrs.G.Chandra Prabha	1.8.22

Note

- To be circulated in IV CSE Whatsapp group
- Copy to Notice board

29/7/22

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT NAME: PROGRAMMING IN C

YEAR/ SEMESTER: IV / VII

PREPARED BY

Mr.S.RAJARAJAN, AP/CSE

Mrs.G.CHANDRA PRABA, AP/CSE

KINGS COLLEGE OF ENGINEERING
(NAAC Accredited Institution)
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

CERT ISO 9001

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Branch / Year / Sem : B.E CSE /IV /VII

Sub.Name : Programming in C **Batch:** 2019-2023

Staff Name : Mr.S.RAJARAJAN/Mrs.G.Chandra Praba **Academic Year:** 2022-23

COURSE OBJECTIVE

The students should be made to:

- To develop C Programs using basic programming constructs
- To develop C programs using arrays and strings
- To develop applications in C using functions

TEXT BOOKS:

T1. Yashavant P. Kanetkar – "Let us C", Fifth Edition.

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT- I	**INTRODUCTION**				**(9+1)**	
1.	Introduction to C			BB	1	1
2.	Structure of C program			BB	1	1
3.	Basics: Data Types, Constants, Variables, Keywords			BB	1	2
4.	Input /Output statements,			BB	1	4
5.	Decision making statements - Switch statement, Looping statements			PPT	1	5
6.	Pre-processor directives			PPT	1	6
7.	Compilation process			BB	1	7
8.	Exercise Programs : Check whether the required amount can be withdrawn based on the available amount			LAB	1	8
9.	Menu driven program to find the area of different shapes, Find the sum of even numbers			LAB	2	10

LEARNING OUTCOME:

At the end of unit, students can able to

- Understand the basics of C.
- Develop program using simple constructs of C.
- Identify the flow of the program in the decision making and looping statements.

UNIT- II	ARRAYS		(9+1)	
10.	Introduction to Arrays	BB	1	11
11.	One dimensional array : Declaration, Initialization, Accessing elements	BB	1	12
12.	Two dimensional arrays : Declaration, Initialization, Accessing elements	PPT	1	13
13.	Print the number of positive and negative values present in the array	LAB	1	14
14.	Sort the numbers using bubble sort, Find whether given matrix is diagonal or not	LAB	1	15
15.	Introduction to Strings- Reading and writing a string	PPT	1	16
16.	String operations(without using built-in string functions): Length, compare, Concatenate, copy, Reverse, Substring, Insertion	BB	1	17
17.	Indexing, Deletion, Replacement, Array of Strings	PPT	1	18
18.	To find the frequehcy of a character in a string.	LAB	1	19
19.	To find the number of vowels, consonants and white spaces in a given text, Sorting the names	LAB	1	20

LEARNING OUTCOME:

At the end of unit, students should be able to

- Understand the String operations.
- Develop programs using String functions.
-

UNIT- IV	FUNCTIONS			(9+1)
20.	Introduction to Functions	PPT	1	21
21.	Types : User- defined and build in functions	BB	1	22
22.	Function prototype , Function definition, Function call	PPT	1	23
23.	Parameter passing: Pass by value, pass by reference	BB	1	24
24.	Build in functions (String functions)	PPT	1	25
25.	Recursive functions	BB	1	26
26.	Exercise programs: Calculate the total amount of power consumed by 'n' devices (passing an array to a function)	LAB	1	27
27.	Menu driven program to count the numbers which are divisible by 3, 5 and by both(passing an array to a function)	LAB	1	28
28.	Replace the punctuations from a given sentence by the space character(passing an array to a function)	LAB	2	30

LEARNING OUTCOME:

At the end of unit, students should be able to

- Understand the functions and its types.
- Develop programs using functions and recursive functions.

COURSE OUTCOME

At the end of the course, the student should be able to:

- Develop simple applications in C using basic constructs
- Design and implement applications using arrays and strings
- Develop and implement applications in C using functions.

30/7/22

Prepared by
Mr.S.RAJARAJAN

30/7/22

Verified by
HOD/CSE

30/7/2022

Approved by
PRINCIPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

Refresher Course on Programming in C

Assessment test – I

Date : 20-10-22

Name : Gokul. M

Year: IV

Dept /sem: CSE/VII

24/10/22

48/50

1. Who is the father of C language?
   a) Steve Jobs
   b) James Gosling
   c) Dennis Ritchie
   d) Rasmus Lerdorf
2. 2. Which of the following is not a valid C variable name?
   a) int number;
   b) float rate;
   c) int variable_count;
   d) int $main;
3. 3. All keywords in C are in _____
   a) LowerCase letters
   b) UpperCase letters
   c) CamelCase letters
   d) None of the mentioned
4. Which of the following is true for variable names in C?
   a) They can contain alphanumeric characters as well as special characters
   b) It is not an error to declare a variable to be one of the keywords(like goto, static)
   c) Variable names cannot start with a digit
   d) Variable can be of any length
5. Which is valid C expression?
   a) int my_num = 100,000;
   b) int my_num = 100000;
   c) int my num = 1000;
   d) int $my_num = 10000;

6. Which of the following cannot be a variable name in C?
   a) volatile
   b) true
   c) friend
   d) export
7. What is short int in C programming?
   a) The basic data type of C
   b) Qualifier
   c) Short is the qualifier and int is the basic data type
   d) All of the mentioned
8. Which of the following declaration is not supported by C language?
   a) String str;
   b) char *str;
   c) float str = 3e2;
   d) Both "String str;" and "float str = 3e2;"
9. Which keyword is used to prevent any changes in the variable within a C program?
   a) immutable
   b) mutable
   c) const
   d) volatile
10. What is the result of logical or relational expression in C?
   a) True or False
   b) 0 or 1
   c) 0 if an expression is false and any positive number if an expression is true
   d) None of the mentioned
11. Which of the following typecasting is accepted by C language?
   a) Widening conversions
   b) Narrowing conversions
   c) Widening & Narrowing conversions
   d) None of the mentioned
12. Where in C the order of precedence of operators do not exist?
   a) Within conditional statements, if, else
   b) Within while, do-while
   c) Within a macro definition
   d) None of the mentioned

13. Which of the following is NOT possible with any 2 operators in C?
    a) Different precedence, same associativity
    b) Different precedence, different associativity
    c) Same precedence, different associativity
    d) All of the mentioned
14. What is an example of iteration in C?
    a) for
    b) while
    c) do-while
    d) all of the mentioned
15. Functions can return enumeration constants in C?
    a) true
    b) false
    c) depends on the compiler
    d) depends on the standard
16. Functions in C Language are always _____
    a) Internal
    b) External
    c) Both Internal and External
    d) External and Internal are not valid terms for functions
17. Which of following is not accepted in C?
    a) static a = 10; //static as
    b) static int func (int); //parameter as static
    c) static static int a; //a static variable prefixed with static
    d) all of the mentioned
18. Property which allows to produce different executable for different platforms in C is called?
    a) File inclusion
    b) Selective inclusion
    c) Conditional compilation
    d) Recursive macros
19. What is #include <stdio.h>?
    a) Preprocessor directive
    b) Inclusion directive
    c) File inclusion directive
    d) None of the mentioned

20. C preprocessors can have compiler specific features.
    a) True
    b) False
    c) Depends on the standard
    d) Depends on the platform
21. Which of the following are C preprocessors?
    a) #ifdef
    b) #define
    c) #endif
    d) all of the mentioned
22. The C-preprocessors are specified with _____ symbol.
    a) #
    b) $
    c) " "
    d) &
23. How is search done in #include and #include "somelibrary.h" according to C standard?
    a) When former is used, current directory is searched and when latter is used, standard directory is searched
    b) When former is used, standard directory is searched and when latter is used, current directory is searched
    c) When former is used, search is done in implementation defined manner and when latter is used, current directory is searched
    d) For both, search for 'somelibrary' is done in implementation-defined places
24. How many number of pointer (*) does C have against a pointer variable declaration?
    a) 7
    b) 127
    c) 255
    d) No limits
25. Which of the following is not possible statically in C language?
    a) Jagged Array
    b) Rectangular Array
    c) Cuboidal Array
    d) Multidimensional Array

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

Refresher Course on Programming in C

Assessment test – I

Name: kamalē. k

Year: IV

Dept /sem: CSE / VII

#6/50

24/10/22

1. Who is the father of C language?
   a) Steve Jobs
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   b) char *str;
   c) float str = 3e2;
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   a) immutable
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   c) const
   d) volatile
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   b) 0 or 1
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    c) do-while
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    b) false
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    d) depends on the standard
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    b) External
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    d) External and Internal are not valid terms for functions
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    a) static a = 10; //static as
    b) static int func (int); //parameter as static
    c) static static int a; //a static variable prefixed with static
    d) all of the mentioned
18. Property which allows to produce different executable for different platforms in C is called?
    a) File inclusion
    b) Selective inclusion
    c) Conditional compilation
    d) Recursive macros
19. What is #include <stdio.h>?
    a) Preprocessor directive
    b) Inclusion directive
    c) File inclusion directive
    d) None of the mentioned

20. C preprocessors can have compiler specific features.
    a) True
    b) False
    c) Depends on the standard
    d) Depends on the platform
21. Which of the following are C preprocessors?
    a) #ifdef
    b) #define
    c) #endif
    d) all of the mentioned
22. The C-preprocessors are specified with _____ symbol.
    a) #
    b) $
    c) " "
    d) &
23. How is search done in #include and #include "somelibrary.h" according to C standard?
    a) When former is used, current directory is searched and when latter is used, standard directory is searched
    b) When former is used, standard directory is searched and when latter is used, current directory is searched
    c) When former is used, search is done in implementation defined manner and when latter is used, current directory is searched
    d) For both, search for 'somelibrary' is done in implementation-defined places
24. How many number of pointer (*) does C have against a pointer variable declaration?
    a) 7
    b) 127
    c) 255
    d) No limits
25. Which of the following is not possible statically in C language?
    a) Jagged Array
    b) Rectangular Array
    c) Cuboidal Array
    d) Multidimensional Array

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022-2023

Assessment I Mark Statement

Subject : Refresher Course on Programming in C **Year/Sem : III / V**

Date : 20-10-22

R.NO	REG.NO	NAME	MARKS (50)
1.	821119104001	Aarthi. R	45
2.	821119104002	Aiyappan. S	47
3.	821119104003	Ajay Prasanna. G S	43
4.	821119104005	Akash .K	48
5.	821119104006	Akshayalakshmi. G	49
6.	821119104007	Aravind. A	46
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11.	821119104012	Bhavatharani .T	46
12.	821119104013	Deepika. P	44
13.	821119104014	Devipriya. S	45
14.	821119104015	Dharani. G	48
15.	821119104016	Divakaran. J	49
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18.	821119104019	Gokul .M	48
19.	821119104020	Gomathi .A	47
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21.	821119104022	Govindharajan. K	45
22.	821119104023	Kamali. K	44
23.	821119104024	Kanishkar .K	43
24.	821119104025	Karkuzhali. N	47
25.	821119104026	Karthika. R	48
26.	821119104027	Mohamed Yasir. A	49
27.	821119104028	Muralidharan. N	46
28.	821119104029	Nandhini. J	45
29.	821119104031	Pavitha .P	42
30.	821119104032	Priyadharshini .E	43
31.	821119104033	Ramakrishnan .E	48

32.	821119104034	Rethinapriya. T	48
33.	821119104035	Sachin .R	44
34.	821119104037	Sathish .T	45
35.	821119104038	Selvabharathi. S	46
36.	821119104039	Shakthivel .M	49
37.	821119104040	Siva .G	47
38.	821119104041	Sivaranjani . S	42
39.	821119104043	Suguna. S	41
40.	821119104044	Suresh Karthik .J	45
41.	821119104045	Suruthi. S	46
42.	821119104046	Surya. A	48
43.	821119104047	Swetha. S	49
44.	821119104048	Tharanika. K	42
45.	821119104049	Varun. K	43
46.	821119104050	Vengatramanan. S	45
47.	821119104051	Vignesh. K	41
48.	821119104052	Vikiramadhithan .M	47
49.	821119104053	Viswa .A	49
50.		Suruthi. S	48

Staff Incharge 25/10/22

HoD/CSE 25/10/22

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023 (ODD SEMESTER)
Refresher Course on Programming in C

DATE : 12-11-22

Assessment test II

1. Write a C program To Multiply Two Floating-Point Numbers.
2. Write a C Program to Swap two Numbers.
3. Write a C program to Check Whether a Number is Positive or Negative or Zero.
4. Write a C program to check whether a Palindrome Number Program in C.
5. Write a C Program to Find the Sum of Fibonacci Numbers at Even Indexes up to N Terms.

10/11/22
Staff incharge

10/11/22
HOD/CSE

ASSESSMENT - II

Gokul - M
IV - YEAR

Kings College of Engineering, Punalkulam

12/12/22

Programming in C.

1. Program to check whether a string is a palindrome or not.

48/50

12/12/22

```
# include < stdio.h>
# include < string.h>
void palindrome (char s [7])
{
   int start = 0;
   int end = strlen(s)-1;
   while (end > start)
   {
      if (s [start ++] != s [end--])
      {
         printf ("%s is not a palindrome \n", s);
         return;
      }
   }
   printf ("%s is a palendrome \n", s);
}
int main ()
{
   palendrome ("abba");
   return 0;
}
```

output:

abba is a palindrome

2. Program to check an armstrong number

```
# Include < stdio.h >
int main ()
{
   int n;
   printf ("Enter number : \n");
   scanf ("%d", &n);
   int var = n;
   int sum = 0;
   while (n > 0)
   {
    int rem = n % 10;
    sum = (sum) + (rem * rem * rem);
    n = n / 10;
   }
   if (var == sum)
   { printf (" %d is an Armstrong number", var);
   }
   else
   { printf ("%d is not an Armstrong number", var);
   }
   return 0;
}
```

output :

Enter number : 153
153 is an Armstrong number

3. Program to print a fibonacci series.

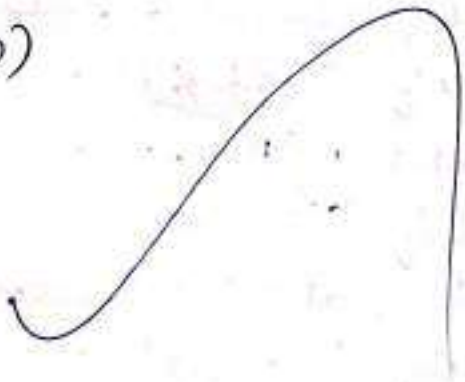
```
# include <stdio.h>
void fibonacci (int num, int first, int second, int third)
{
  int (num>0)
  {
    third = first + second;
    first = second;
    second = third;
    printf ("%d", third);
    fibonacci (num-1, first, second, third)
  }
}
int main ()
{
  int num;
  printf ("please enter number of elements:");
  scanf ("%d", &num);
  printf ("fibonacci series with the help of recursion:\n");
  printf ("%d %d", 0, 1);
  fibonacci (num-2, 0, 1, 0);
  printf ("\n fibonacci series without using recursion:\n");
  int first = 0, second = 1, third = 0;
  printf ("%d %d", 0, 1);
  for (int i=2; i<num; i++)
  {
    third = first + second;
    printf ("%d", third);
    first = second;
    second = third;
  }
  return 0;
```

output :

```
please enter number of elements : 5
Fibonacci series with help of recursion: 0 1 1 2 3
Fibonacci series without using recursion : 0 1 1 2 3
```

4. Check whether a number is prime or not

```
# include < math.h>
# include < stdio.h>
int main()
{
  int num;
  int check = 1;
  printf ("Enter a number: \n");
  scanf ("%d", &num);
  for (int i=2 ; i <= sqrt (num) ; i++)
  {
    if (num % i == 0)
    {
      check = 0 ;
      break ;
    }
  }
  if (num <= 1)
  {
    check = 0;
  }
  if (check == 1)
    printf (" %d is a prime number ", num);
  else
    printf (" %d is not a prime number ", num);
  return 0;
}
```



output :

Enter a number : 11

11 is a prime number.

5. Factorial program in C.

```
# include < stdio.h >
unsigned int factorial (unsigned int n)
{
  int result = 1, i ;
  for (i = 2 ; i <= n ; i++)
  {
    result *= i ;
  }
  return result ;
}
int main ()
{
  int num = 5;
  printf ("factorial of %d is %d", num, factorial
                                        (num));
  return 0 ;
}
```

output:

factorial of 5 is 120 .

12/12/22

Kings College of Engineering, Punalkulam

Barya.S
IV yea

Assessment - II

1. program to check whether a string is a palindrome or not

48/50

12/12/22

```
#include <stdio.h>
#include <string.h>
void palindrome (char s[])
{
   int start = 0;
   int end = strlen(s) - 1;
   while (end > start)
   {
    if( s[start++] != s[end--]) {
       printf( " %s is not a palindrome \n", s);
       return ;
    }
    }
    printf (" %s is a palindrome \n", s);
}
int main ( )
{
  palindrome (" abba ");
  return 0;
}
```

Output :

abba is a palindrome

2. program to check an Armstrong number.

```
# include <stdio.h>
int main()
{
  int n;
  printf ("Enter number : \n");
  scanf ("%d", &n);
  int var = n;
  int sum = 0;
  while (n > 0)
  {
   int rem = n%10;
   sum = (sum) + (rem * rem * rem);
   n = n /10;
  }
  if (var == sum)
  {
   printf ("%d is an Armstrong number ", var);
  }
  else
  {
   printf ("%d is not an Armstrong number ", var);
   }
   return 0;
 }
```

Output :

Enter number : 153

153 is an Armstrong number.

3. Program to print a fibonacci series.

```
#include <stdio.h>
void fibonacci ( int num, int first , int second , int third)
{
  int (num>0)
   {
    third = first + second;
    first = second;
    second = third;
    printf (" %d", third);
    fibonacci (num-1 , first, second , third)
   }
}
int main ()
{
 int num;
 printf (" please Enter number of elements :");
 scanf (" %d", &num);
 printf (" fibonacci series with the help of recursion : \n");
 printf (" %d %d ", 0, 1 );
 fibonacci (num-2 , 0, 1, 0);
 printf ("\n fibonacci series without using recursion : \n");
 int first = 0 , second = 1 , third = 0;
 printf (" %d %d", 0, 1);
 for (int i = 2 ; i < num ; i++)
  {
    third = first + second;
    printf (" %d", third);
    first = second;
```

```
        second = third;
    }
    return 0;
```

output :

```
please Enter number of Elements : 5
Fibonacci series with the help of recursion : 0 1 1 2 3
Fibonacci series without using recursion : 0 1 1 2 3
```

4. Check whether a number is prime or not

```
#include <math.h>
#include <stdio.h>
int main()
{
  int num;
  int check = 1;
  printf ("Enter a number : \n");
  scanf ("%d", &num);
  for (int i=2 ; i<= sqrt(num) ; i++)
  {
    if (num %. i == 0) {
      check =0;
      break;
    }
  }
  if (num <= 1)
  {
    check = 0;
```

```
if (check == 1)
  Printf ("%d is a prime number", num);
else
  Printf ("%d is not a prime number", num);
return 0;
}
```

Output:

Enter a number: 11

11 is a prime number.

5. Factorial program in c

```
# include <stdio.h>
unsigned int factorial (unsigned int n)
{
  int result = 1, i;
  for (i=2; i<=n; i++)
  {
    result *= i;
  }
  return result;
}
int main ()
{
  int num = 5;
  printf ("factorial of %d is %d", num, factorial(num));
  return 0;
}
```

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022- 2023 ODD

Assessment II Mark Statement

Subject : Refresher Course on Programming in C

Year/Sem : III / V

Date : 12/1/22

R.NO	REG.NO	NAME	MARKS [50]
1.	821119104001	Aarthi. R	44
2.	821119104002	Aiyappan. S	42
3.	821119104003	Ajay Prasanna. G S	43
4.	821119104005	Akash .K	46
5.	821119104006	Akshayalakshmi. G	47
6.	821119104007	Aravind. A	48
7.	821119104008	Avudaiappan .A B	49
8.	821119104009	Bakiya Lakshmi .A	A1
9.	821119104010	Balakrishnan. M	45
10.	821119104011	Bavya. S	48
11.	821119104012	Bhavatharani .T	49
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17.	821119104018	Fasila Afreen .J	48
18.	821119104019	Gokul .M	48
19.	821119104020	Gomathi .A	44
20.	821119104021	Gopinath. P	43
21.	821119104022	Govindharajan. K	A2
22.	821119104023	Kamali. K	46
23.	821119104024	Kanishkar .K	44
24.	821119104025	Karkuzhali. N	48
25.	821119104026	Karthika. R	47
26.	821119104027	Mohamed Yasir. A	49
27.	821119104028	Muralidharan. N	43
28.	821119104029	Nandhini. J	44
29.	821119104031	Pavitha .P	43
30.	821119104032	Priyadharshini .E	42
31.	821119104033	Ramakrishnan .E	A1

32.	821119104034	Rethinapriya. T	47
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38.	821119104041	Sivaranjani . S	48
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41.	821119104045	Suruthi. S	48
42.	821119104046	Surya. A	49
43.	821119104047	Swetha. S	50
44.	821119104048	Tharanika. K	44
45.	821119104049	Varun. K	45
46.	821119104050	Vengatramanan. S	48
47.	821119104051	Vignesh. K	46
48.	821119104052	Vikiramadhithan .M	44
49.	821119104053	Viswa .A	47
50.		Suruthi. S	49

23/12/22

Staff Incharge

23/12/22

HoD/CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022– 23 ODD SEMESTER

Refresher COURSE – REPORT

Programming in C

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
Programming in C	30 Hrs	IV/VII (49)	Mr.S.Rajarajan Mrs.G.Chandra Prabha	1.8.22

1. **OBJECTIVE**

To make the students

- To develop C Programs using basic programming constructs
- To develop C programs using arrays and strings
- To develop applications in C using functions

2. **COURSE COVERAGE**

- The course provided the students with
  - Basic Programming Concepts
  - Operators and Conditions
  - Iterations
  - Functions
  - Arrays and Structures
  - Manipulating Arrays

3. **SYLLABUS COVERAGE**

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
30	30	03

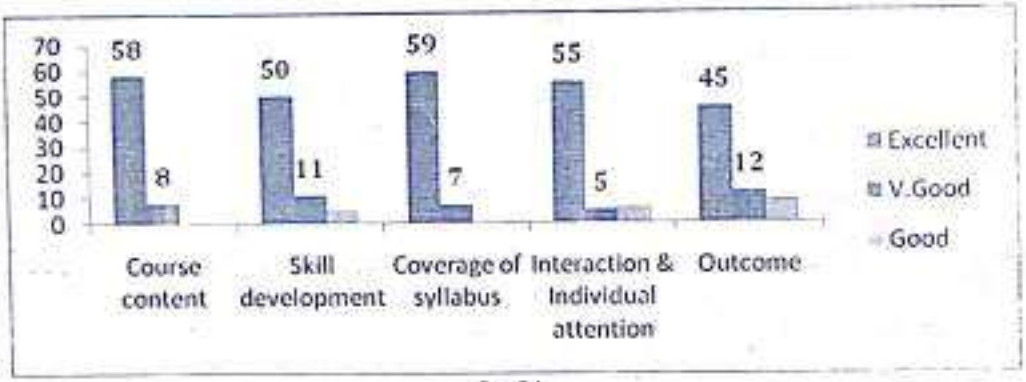
4. **ASSESSMENT TEST PERFORMANCE**

TEST	NO OF UNITS	NO OF STUDENTS ATTENDED	NO OF STUDENTS PASSED	PASS %
Internal Assessment 1	3	49	49	100

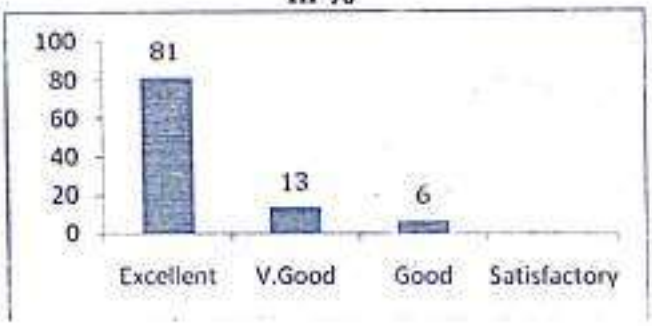
5. FEEDBACK

Total Strength: 49

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	58	8		
2.	Skill development	50	11		
3.	Coverage of syllabus	59	7		
4.	Interaction & Individual attention	55	5	6	
5.	Outcome	45	12	9	
Other suggestions					



In %



OUTCOME

The students are able to

- Develop simple applications in C using basic constructs
- Design and implement applications using arrays and strings
- Develop and implement applications in C using functions.

1. 24/11/22
2. 24/11/22

COURSE COORDINATOR(s)

24/11/22

HOD/CSE

24/11/2022

PRINCIPAL

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303

Kings College of Engineering, Punalkulam

SAMPLE CERTIFICATES

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ajay Prasanna G S of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Aravind. A of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Balakrishnan. M of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Alyappan. S of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Akshayalakshmi. G of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Bakiya Lakshmi.A of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

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CERTIFICATE OF COMPLETION

This is to certify that Aarthi. R of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Akash. K of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Avudaiappan. A B of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Deepika. P of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
College of Engineering
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Divakaran. J of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

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COLLEGE OF ENGINEERING
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CERTIFICATE OF COMPLETION

This is to certify that Gokul. M of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Bhavatharani. T of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Dharani. G of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Fasila Afreen.J of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Bavya. S of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Devipriya. S of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Elayadharshini. T of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Govindharajan. K of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Karkuzhali. N of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that Muralidharan. N of IV year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the refresher course on programming in "C" held on 24.11.22.

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
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CERTIFICATE OF COMPLETION

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course

on

VB.Net

ACADEMIC YEAR

2022-2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

INTRA DEPARTMENT CIRCULAR

20.7.22

As a part of curriculum enrichment, our department has planned to offer a **certification course** for third year students from 1.8.22 on **VB.NET** through which the students can develop a wide range of applications, websites, mobile apps of different complexity and scale. Kindly go through the course schedule mentioned below for your reference. The students are insisted to attend the course without fail and get benefitted.

Course Details

Name of the course	Duration of the course	Faculty Instructor	Start Date
VB.NET	30 Hrs	Ms.R.Sugantha Lakshmi Ms.S.Puvaneswari	1.8.22

Note

- To be circulated in III CSE Whatsapp group
- Copy to Notice board

HOD/CSE

KINGS
COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION COURSE

SUB NAME: VB.NET

YEAR / SEMESTER: III / V

PREPARED BY,
Ms.S.PUVANESWARI AP/CSE
Ms.R.SUGANTHALAKSHMI AP/CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SYLLABUS

VB.NET

L	T	P	C
1	0	2	2

UNIT I VISUAL BASIC .NET AND THE .NET FRAMEWORK **5**

Introduction to .net framework -Features - Visual Studio.Net – IDE, Languages Supported, Components. Visual Programming, VB.net - Features, IDE- Menu System, Toolbars, Code Designer, Solution Explorer, Object Browser, Toolbox, Class View Window, Properties Window, Server Explorer, Task List, Output Window, Command Window.

UNIT II ELEMENTS OF VISUAL BASIC .NET **15**

Properties, Events and Methods of Form, Label, TextBox, ListBox, Combo Box, RadioButton, Button, Check Box, Progress Bar, Date Time Picker, Calendar, Picture Box, HScrollbar, VScrollBar, Group Box, ToolTip,Timer, Illustrative programs – Railway Reservation ,Quiz system.

UNIT III PROGRAMMING IN VISUAL BASIC .NET **10**

Data Types, Keywords, Declaring Variables and Constants, Operators, Understanding Scope and accessibility of variables, Conditional Statements- If- Then, If-Then-Else, Nested If, Select Case, Looping Statement- Do loop, For Loop, For Each-Next Loop, While Loop, Arrays- Static and Dynamic. Illustrative programs – Scientific calculator, CGPA calculator

Total : 30 periods

1. 30/7/22
2. 30/7/22

Prepared by
Ms.S.Puvaneswari &
Ms. R.Sugantha Lakshmi

02/8/2022

Approved by
PRINCIPAL

30/7/22

Verified By
HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN

Sub.Name	: VB.NET	**Branch / Year / Sem**	: CSE / III / V
Academic Year	: 2022-23 (ODD)	**Batch**	: 2020-2024
Staff Name	: Mrs.S.Puvaneswari & Mrs R.Sugantha Lakshmi		

Course objectives

- Learn the fundamentals of VB.NET
- Understand the elements of VB.NET
- Learn the programming concepts and develop applications on VB.NET.
- Make the students aware of data access

Books Recommended for Reading and Reference:

1. Visual Basic.Net Programming Black Book by Steven Holzner, Dreamtech Press
2. The Complete Reference Visual Basic .NET by Jeffrey R. Shapiro ,Tata McGraw Hills.
3. Murach's Beginning Visual basic .Net By Anne Prince, BPB Publications

Web Resources

1. https://www. oreilly.com/library/view/programming-visual basic/0596000936
2. https://udemy.com/visual-basic-net-step-by-step for beginners
3. https:// www.freevbcode/vb-net-asp-net
4. https:// www.codeproject.com/kb/vb
5. https:// www.tutorialspoint.com/vb.net

S.No	Topics	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	**VISUAL BASIC .NET AND THE .NET FRAMEWORK**			5
1.	Introduction to .net framework -Features, Visual Studio.Net – IDE, Languages Supported, Components.	PPT	1	1
2.	Visual Programming, VB.net - Features, IDE-Menu System, Toolbars, Code Designer, Solution Explorer, Object Browser	PPT	2	3
3.	Toolbox, Class View Window, Properties Window, Server Explorer, Task List, Output Window, Command Window.	PPT	1	4
		Hands-on-session	1	5

S.No	Topics	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT II	ELEMENTS OF VISUAL BASIC .NET			15
4.	Properties, Events and Methods of Form	PPT	1	6
		Hands-on-session	1	7
5.	Label, TextBox, ListBox, Combo Box, RadioButton, Button, Check Box	PPT	1	8
		Hands-on-session	1	9
6.	Progress Bar, Date Time Picker, Calendar, Picture Box, HScrollbar, VScrollBar, Group Box, ToolTip,Timer.	PPT	1	10
		Hands-on-session	1	11
7.	Illustrative programs – Railway Reservation, Quiz system.	Hands-on-session	9	20
UNIT III	PROGRAMMING IN VISUAL BASIC .NET			10
8.	Data Types, Keywords, Declaring Variables and Constants, Operators, Understanding Scope and accessibility of variables	PPT	1	21
		Hands-on-session	1	22
9.	Conditional Statements- If- Then, If-Then-Else, Nested If, Select Case	PPT	1	23
		Hands-on-session	1	24
10.	Looping Statement- Do loop, For Loop, For Each-Next Loop, While Loop, Arrays- Static and Dynamic.	PPT	1	25
		Hands-on-session	1	26
11.	Illustrative programs – Scientific calculator, CGPA calculator	Hands-on-session	4	30

Course Outcome

Upon the completion of the course, the students are able to

- Describe the basic concepts of VB.NET
- Work on VB.NET IDE
- Develop simple applications
- Create applications using MDI
- Access datasets and databases

INTERNAL ASSESSMENT DETAILS

TEST NO.	I
Topic Nos.	1-11

1. 2. 3/8/22

Prepared by
Ms.S.Puvaneswari &
Ms. R.Sugantha Lakshmi

2/8/2022

Approved by
PRINCIPAL

30/7/22

Verified By
HOD/CSE

KINGS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD Semester

Value Addition Initiative Plan

tch:2020 - 2024

ar: III

Semester: V

Class Room : 223

Strength: 65

Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	OMF551	CS8501	BREAK	COMM.SKILL		LUNCH BREAK	CC		BREAK	Orientation	
TUE	CS8591	CS8592		COMM.SKILL			T&P(A) T&P(SS)			CC	
WED	CS8501	OMF551		COMM.SKILL			CC			CC	
THU	CS8592	CS8591		COMM.SKILL			CC			CC	
FRI	BC			COMM.SKILL			CC			CC	
SAT	CC			COMM.SKILL			CC			CC	

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), ELECTIVE (E)						
CS8591	Computer Networks	PC	3	Dr.S.M.Uma	CSE	2
CS8501	Theory of Computation	PC	3	Ms.S.Puvaneswari	CSE	2
CS8592	Object Oriented Analysis and Design	PC	3	Ms.N.Dhamayandhi	CSE	2
OMF551	Product Design and Development	OE	3 (OE1)	Ms.G.Chandrapraba	CSE	2
VALUE ADDITION INTIATIVES (VAI)						
BC	Bridge Course		-	Dr.S.M.Uma	CSE	4
Orientation	Orientation Program - GATE Exam		-	Ms.N.Dhamayandhi	CSE	2
COMM.SKILL	Communication Skill		-	Mr.J.Radhakrishnan	ENGLISH	12
T&P (A)	Training & Placement - Aptitude		-	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill			Dr.K.Sudhakar	T&P	1
CC	**Certification Course - Visual Basic .Net**		-	**Ms.S.Puvaneswari & Ms.R.Suganthalakshmi**	CSE	20

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.S.Puvaneswari	V.Aswin J.Lavanya	4 27

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
CC	**Certification Course - Visual Basic .Net**	VAI	**Ms.S.Puvaneswari & Ms.R.Suganthalakshmi**	CSE	2
GATE / CE	GATE / Competitive Exam	VAI	Ms.N.Dhamayandhi / Ms.S.Priyadharshini	CSE	2

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CONTINUOUS ASSESSMENT TEST- I / II / MODEL EXAMINATION

REGISTER NUMBER	8	2	1	1	1	1	0	4	0	0	8

ROLL NO.	111501
YEAR / BRANCH / SECTION	3 / B.E CSE

College Code & Name	8211	Kings college of engineering	
Degree/Branch	B.E/CSE		
Subject Code	IVA 005	Subject Title	VB.Net

Semester	05
Date & session	30-11-19 / AN
No. of pages used	

All the particulars given are verified	
Signature of the Invigilator with date	S. Pur 30/11/19
Name of the Invigilator	S. PUNNIYESWARI

Instructions to the candidates

1. You are prohibited from writing your **NAME** in any part of the answer book.
2. You are prohibited from writing or leaving any distinguishing marks so as to identify your answer book.
3. Use both side of the paper for answering questions (Except front page).
4. Check the regulation, Degree, Branch, Semester, Subject code and Subject Title of the Question Paper before answering the questions.
5. Possession of any incriminating material and Malpractice of any nature shall be punishable as rules.
6. **No additional sheets will be provided.**

.....

Signature of the Student with Date after Evaluation

S. Dhana 4/12/19

SPACE FOR MARKS

70

100

Signature of the Examiner with Date

R. Sujantha Lakshmi

Name of the examiner

PART - A

1. VRL
2. both (a) and (b)
3. Integrated Development Environment
4. All of the above
5. The name property changes to match any change in text Property
6. Visible
7. Just In Time
8. Both
9. FromOADate
10. Data associated with a value type is allocated on the stack

PART-B.

11.

VB	VB.Net
platform dependent	Platform dependent
VB is backward Compatible	VB.net is not backward compatible
Interpreted	Compiled language
Cannot develop multi-threaded application	can develop multithread applications.

12. Metadata:

Metadata is termed as "Data about content of the data" and it is found in the catalog of libraries, practically it is used at back side of book to see the necessary topic.

End sub

End module.

PART-C.

16. .NET Framework architecture:

* The .Net Framework is a new and revolutionary platform created by microsoft for developing application.

* It is a platform for application developers

* It is a Framework that supports multiple language and cross language integration.

* It has IDE (Integrated development environment).

* .NET Framework provides interoperability between languages.

* .NET Framework also includes the .NET common language Runtime which is responsible for maintaining the execution.

* The .NET framework consists primarily of a gigantic library of code.

* The .NET Framework provides GUI and GUI manner.

Definition:

A programming infrastructure created by microsoft for building, deploying and running applications.

Cross language interation:

* .Net framework includes no restriction on the type of applications that are possible. The .Net Framework allows the windows applications, web application.

* .Net Framework has been designed so that it can be used from any language including C#, C++, visual basic, J script and even older language such as COBOL.

web application:

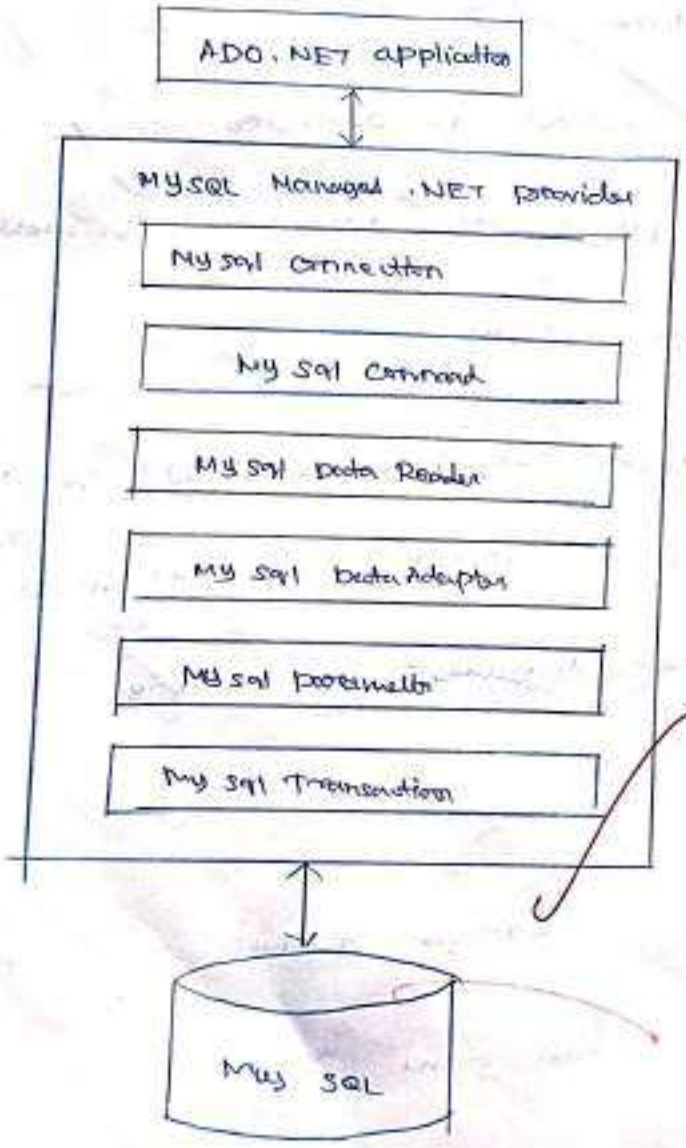
* All websites are example of web application.

* They use the of web server.

Internet Enabled:

* They can develop application.
* yahoo messenger is a example of desktop application

Architecture:



peer to peer;

* Communication through computer through some system.

web services;

* It doesn't use web browser - based server,

* Internet payment systems are examples of web services

17.

* An integrated development environment also known as integrated design environment and integrated debugging environment.

* It is a type of computer software that assists computer programmers to develop software that assists computer programmers to develop software.

* In case of visual basic, NET that IDE is visual studio.

* The visual studio consist of several sections or tools that the developer uses while programming.

IDE)

+ In integrated development environment is software that facilitate application developed.

+ In the context of .NET - based applications visual studio is the most commonly used IDE.

Menu Bar:

+ menubar also contains a simple tool bar, that list the commonly used commands as buttons.

+ that toolbar can be customized, so that the buttons can be added as required.

+ Menubar in vb.net consist of the commands used commands as buttons.

Tool bar:

+ Tool box in vb.net consist of controls, menu options, crystal controls, button controls, dialogs, components, printing controls,

Toolbox:

* The toolbox is a palette of developer objects or controls that are placed on forms or web pages.

* The code is added to allow the user interact with them.

Solution explorer:

* This is a sectional that is used to view and manipulate the contents of the project.

* A visual studio windows application project will generally have a form object with or code page.

Properties windows:

* The properties windows shows all the control properties to be changed at design time.

Object browser.

* By pressing F2 or selecting it into the view menu, it is possible to explore all the available objects of the libraries.

2. looping statement used in VB.net.

(i) Do loop:

* The do loop repeats the group of statement while or until for given boolean condition is true.

* the do loop statements are terminated by the exit do statement.

* There are two method of Do loop.

* First method is ending loop and second methods is exit loop.

Syntax:

```
Do
    [Statement 1]
    [continue Do]
    [Statement 2]
    [exit Do]
    [Statement x]
Loop {while | until} condition
```

For...next loop:

* The for loops repeat a block of statements for a specified number of times.

* The loop also counts the number of the loop executions during every loop execution.

Syntax:

For counter [Datatype] = min_value to max_value [step]

[statement 1]

[continue for]

[statement 2]

[Exit For]

[statement X]

Next [count]

For Each-Next loop:-

* The For Each ...Next is an another looping statement which repeats the block of statements for every element in the given group of items.

* The loop statement is used in VB.net for the manipulation of an array element.

Syntax:

For each element [Datatype] in group_of_elements.

[statement 1]

* The loop also checks the number of times loop executions during every loop execution.

Syntax:

For counter [Datatype] = min_value to max_value (step)

[statement 1]

[continue for]

[statement 2]

[exit for]

[statement x]

Next [count]

For Each - Next loop:-

* The For Each ... Next is an another looping statement which repeats the block of statement for every element in the given group of items.

* The loop statement is end in VB, not for the manipulation of an array elements.

Syntax:

For each element [Datatype] In group_of_value.

[Statement]

(4). while ... end while loop:-

* The while ... end while loop executes the set of [illegible] statements while the given condition is true.

* The statements of while loop are enclosed within while and end while statement.

Syntax:-

```
while condition
    [statement 1]
    [continue while]
    [statement 2]
    [exit while]
    [statement X]
end while
```

(5). with ... end with:-

* The with ... end with is not a looping statement. but it also counts as a looping statement.

* This is called a loop statement because it executes a series statements multiple times by jointing to a single object.

Arrays:

* An array stores a fixed-size sequential collection of elements of the same type.

* An array is used to store a collection of data, but it is often more useful to think of an array as a collection of variables of the same type.

Static arrays:

* Array can be declared in many ways. These first examples demonstrate arrays that are created at design time.

* This array is hard coded. Hard coded means that the values and length of the array are established at the time array is declared and isn't based on user input or output data.

* It won't vary while the program is running. Note that there is more than one way to declare an array.

Dynamic array:

* Most of the time we need to have arrays etc. we need to know the values or how many items.

* The next example is an example of a completely dynamic array.

* The only information set at design time is the data type, the variable name (intArray) and that it is an array ([]).

```
int [] intArray;
```

Creating array in VB.Net

```
Dim intData (30)
Dim strData (20)
Dim twoDArray (10, 20)
Dim arrays (10, 100)
```

Syntax:

```
Dim myData (7) as Integer
Dim myData (10) as String
```

19.

Text Box:

- Accept Return
- Auto complete Custom Source
- Auto complete mode
- Auto complete source
- Font
- Font Height
- Font color
- lines
- multiline

Checkbox:

- appcompat
- Auto check
- Check margin
- checked
- Check State

* Check Hat
* Text
* Throw State

Label:

* Autosize
* Boarder size
* Flat styles
* Font
* Font height
* Fore color

List box:

* Allows selection
* Boarder style
* Column width
* Horizontal Enabled
* Horizontal scroll bar.
* item height

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CERT

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REGISTER NUMBER 8 2 1 1 1 7 1 0 4 0 0 7

ROLL NO.	06
YEAR / BRANCH / SECTION	III – CSE

College Code & Name	8 2 1 1	KINGS COLLEGE OF ENGINEERING	
Degree/Branch	BE / CSE		
Subject Code	IVB005	Subject Title	VB · NET

Semester	05
Date & session	30.11.19 AN
No. of pages used	20

All the particulars given are verified	
Signature of the Invigilator with date	S. Pur 30/11/19
Name of the Invigilator	S. Purushoswari

Instructions to the candidates

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2. You are prohibited from writing or leaving any distinguishing marks so as to identify your answer book.
3. Use both side of the paper for answering questions (Except front page).
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5. Possession of any incriminating material and Malpractice of any nature shall be punishable as rules.
6. **No additional sheets will be provided.**

SPACE FOR MARKS

92

100

Signature of the Examiner with Date

R. Suganthe Lakshmi

Name of the examiner

Signature of the Student with Date after Evaluation

N. Gupta 03.12.19

PART-A

1. VB 6
2. both (a) and (b)
3. Integrated Development Environment
4. All of the above
5. They are the same when the control is created
6. Visible
7. Just in time
8. Both
9. Time Of Day
10. Data associated with a value type is allocated on the stack

PART-B

11. Difference between VB & VB.net

VB	VB.net
platform dependant	platform independant

Interpreted	Compile Lang
VB. is basic word Compatible	VB.net is a but backward compatible
cannot develop a multithreaded application	can develop the multi-threaded application

12. MetaData

Metadata is termed as data about Content of the data and it is found in the catalog of libraries practically it is not backside book to see the necessary topic

13.

15. Hello world program

Module Hello world

Every Console app status with main

Sub main ( )

System. Console write Line ("Hello world")

End sub

End module ( )

PART-C.

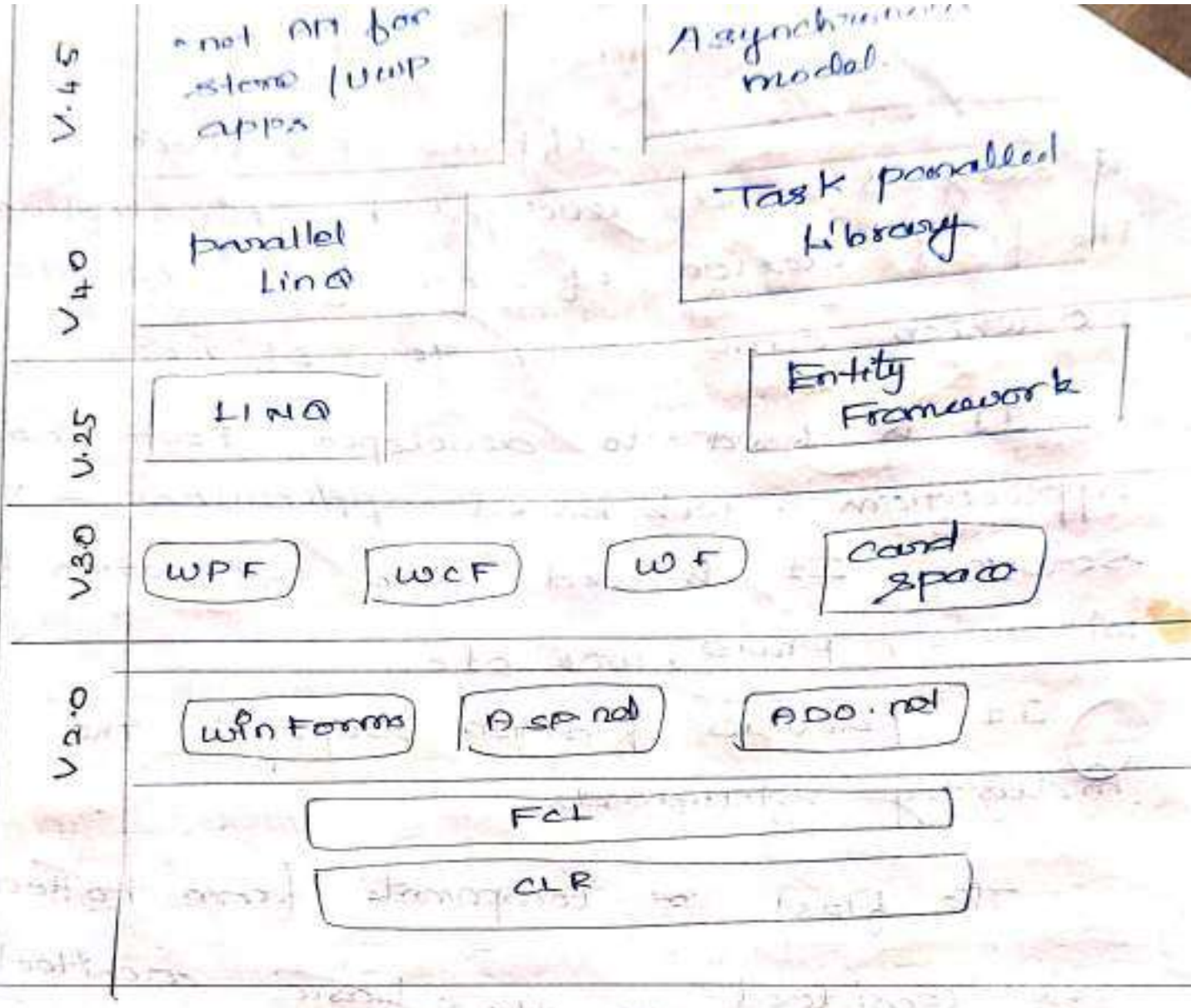
16. VB.NET Architecture.

.NET is a software Framework which is designed and developed by Microsoftware. The first Version of .net framework was 1.0 which came in the year of 2002.

It is used to developed Form based applications, web based application & web services. It is used web application for windows, phone, web etc.

It provides function support the industry standards.

The first 3 components from bottom are considered as the basic architecture of .net. which came the year 2005 and after this more components were added by microsoft in the .net



1. CLR

Common language Runtime. It is an run time environment which execudes the code written in any .NET. Programming language. .NET Framework provides the support for many language like C#, F#,

2. FCL : Framework class library. A large number of class libraries are present in this Framework which is FCL

3. Types of applications

Win Forms : Form based applications are considered under this category.

ASP.NET : Web based applications come under this category. ASP.Net is a framework for web and it provides the awesome integration of HTML.

ADO.NET : Application which are developed to communicate with database like MS SQL sower, oracle.

4. WPF : Windows presentation Foundation graphical subsystem given by microsoft which used Direct X

5. WCF : windows communication Foundation It is building connected + service Oriented application used to transmit the data as asynchronous from one service endpoint

6. WF : Windows workflow foundation

technology given by microsoft which provides platform building workflow

7. cardspace : It is a microsoft .net Framework software client which is design to let users provide their digital identity to online service

8. LINQ : Language integrated Query. Introduced in .net version 3.5. It is query language used to make the query used for data sources with VB or C#

9. Entity Framework : Open source ROM based framework which comes into .net Framework. Before entity Framework .net developers have perform lot of things relate database. Data set to fetch or submit the data to database convert data from the Data set to .net.

10. TPL : Task parallel Library : It is set of public types and APIs. It allows the developers to be more productive by simplify the process of adding concurrency & parallelism

11. Parallel LINQ: It comes under version 4.0. It provide concurrent query execution engine for LINQ.

12. Task based asynchronous model: used to describe the asynchronous operation task in .net Framework

13. UWP Apps: Microsoft added some API's for creating UWP apps windows using C++ or VB.

21 Looping statements in VB.net

There may be situation when you need to execute a block of code several number of times.

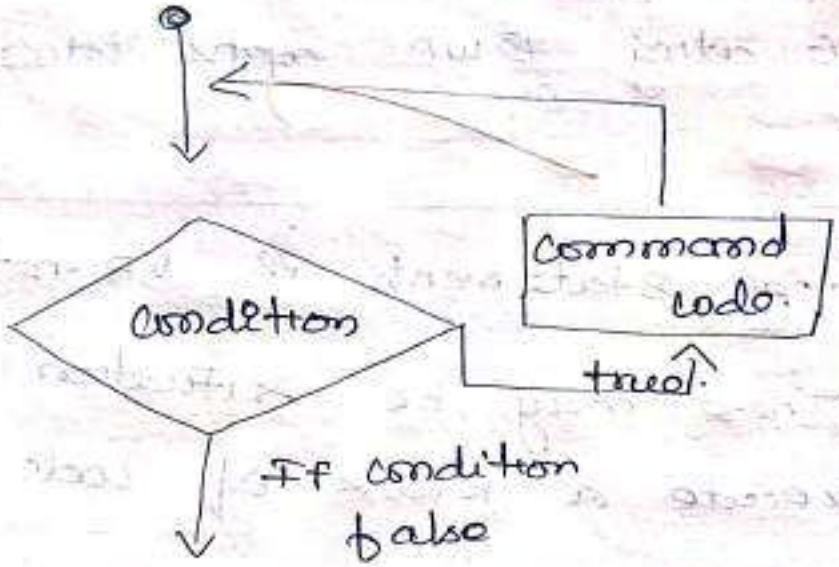
In general statements are executed sequentially.

The first statement in a function is executed first followed by the second and so on.

Programming languages provide various control structures that allow for more

Complicated execution paths.

A loop statements allow us to execute a statements or group of multiple time and following is the general form of a loop statements in most of programming languages.



Loops

Do loop: It repeats the enclosed block statements while a Boolean conditions is True or until the condition becomes tr It could be terminated at any time w the Exit Do statements

For next: It repeats a group of statements number of time and loop

Index count the number of loop iteration as loop executes

For each : It repeats a group of statements for collection. This loop is used to accessing and manipulating all elements in array for VB.net collection

While ... End while : It executes a series of statements as long as given condition is true

With ... End with : It is not exactly a looping construct. It executes a series of statements that repeatedly refer to single object structure

Nested loops : You can use one or more loops inside any another while For or Do loop

Exit : Terminate the loop or select case statements and transfer execution to the statements immediately

Continue : Causes the loop to skip the remainder of its body and immediately retest its condition prior

Static array	Dynamic array
1. Array is dimensioned during designed time	1. Dimensioned in Run time
2. Array size cannot be changed	2. Array size can be changed in an no. of times
3. By using erase function only array element values in the memory will be emptied elements memory will not be deleted	3. By using erase function both array element values an elements memory wi be deleted
4. memory is fixed during designed time	4. we can utilise the memory effic

Creating a array

To declare an array in VB.net yo use the Dim statements

Ex

Dim mt Data (30) 'an array of 31

Dim str Data (20) AS String 'an array Strings

Initialize the array element while declaring array.

Ex:

Dim intData () As integer = {12, 16, 20, 24, 28, 32

Dim names () As strings = ("karthing", "sandhya")

Program

module array API

Sub main ()

Dim n(10) As integer ' n is an array of 11 integers

Dim i, j As integer 'initialize element of array'.

For i = 0 to 10

n(i) = i + 100 ' set element at location i to i + 100 next i

Output each array element's value'

For j = 0 to 10

Console. Write Line ("Element (0) = (1)", j, n(j)

next ;

```
Console.ReadKey()
End Sub
End module.
```

o/p

```
Element (0) = 100
Element (1) = 101
Element (2) = 102
Element (3) = 103
Element (4) = 104
Element (5) = 105
Element (6) = 106
Element (7) = 107
Element (8) = 108
Element (9) = 109
Element (10) = 110
```

Syntax for Dynamic

ReDim [Preserve] array name (subscript)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022 - 2023 ODD SEMESTER

YEAR / SEM : III / V

ASSESMENT-1

MARK STATEMENT

S.NO	REG NUMBER	STUDENT NAME	MARKS
1.	821120104001	AASHA J	70
2.	821120104002	AJAY S	80
3.	821120104003	ARUNOTHAYA A C	92
4.	821120104004	ASHWIN V	91
5.	821120104005	ATCHAYA R V	89
6.	821120104006	BALAMURUGAN M	85
7.	821120104007	BARATHRAJ R	92
8.	821120104008	BHAVATHARANI V	70
9.	821120104009	BOOMIKA R	85
10.	821120104010	DEEPAK KUMAR D	AB
11.	821120104011	DEEPAN S	83
12.	821120104012	DEEPIKA K	85
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16.	821120104016	ESWAR S	92
17.	821120104017	GAYATHRI M	95
18.	821120104018	GEETHA I	92
19.	821120104019	GUHAN D	AB
20.	821120104020	HARISH B	85
21.	821120104021	JAYAVANI K	91
22.	821120104022	JENO VINNARASI A	90
23.	821120104023	KARTHIKA M	88
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27.	821120104027	LAVANYA J	85
28.	821120104028	MAHALAKSHMI V	92
29.	821120104029	MOHAMED SAMEER S	90
30.	821120104030	MUHILAN E	85
31.	821120104031	MURUGARAJ M	AB
32.	821120104032	NANDHINI S	82
33.	821120104033	NARESH KUMAR N	95
34.	821120104034	NITHISH S	94
35.	821120104035	NIVETHA S	93

S.NO	REG NUMBER	STUDENT NAME	MARKS
36.	821120104036	PARKAVI D	85
37.	821120104037	PRAKASH A	92
38.	821120104038	PRIYARANI.B	90
39.	821120104039	RAGUL SANKAR J	89
40.	821120104040	RAJKUMAR K	83
41.	821120104041	REENA S	84
42.	821120104042	SAFREENBANU S	83
43.	821120104043	SANTHOSH KUMAR G	82
44.	821120104044	SARVESH S	AB
45.	821120104045	SATHYA A	81
46.	821120104046	SATHYA R	92
47.	821120104047	SIVA M	93
48.	821120104048	SNEGA S	84
49.	821120104049	SNEHA E	88
50.	821120104050	SNEHA P(23/5)	86
51.	821120104051	SNEKA P(19/6)	82
52.	821120104052	SURIYAPRAKASH M	AB
53.	821120104053	SURUTHIGA C	85
54.	821120104054	THIRUMURUGAN K	92
55.	821120104055	THIRUMURUGAN S	95
56.	821120104056	VANATHI G	98
57.	821120104057	VARSHA N N	98
58.	821120104058	VASANTH M	90
59.	821120104059	VASINYA M	85
60.	821120104060	VICHITHRA V	AB
61.	821120104061	VIJAY S	82
62.	821120104062	VINTHIYA M	90
63.	821120104063	YOKESHWARI P	92
64.	821120104301	RAJESH KANNAN C	93
65.	821120104302	RISHI KUMAR R	80
66.		SELVAPRIYA.A	80
No of Students Present			59
No of Students Absent			07
Staff Incharge Sign			
HoD Sign			

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CONTINUOUS ASSESSMENT TEST- I / II / MODEL EXAMINATION

REGISTER NUMBER 8 2 1 1 1 7 1 0 4 0 1 3

ROLL NO.	17CS11
YEAR / BRANCH / SECTION	III/CSE

College Code & Name	8 2 1 1 Kings college of Engineering		
Degree/Branch	B.E/ Computer science and Engineering		
Subject Code	IVAWA	Subject Title	VBNet

Semester	05
Date & session	6.12.19 AN
No. of pages used	7

All the particulars given are verified	
Signature of the Invigilator with date	G. C[illegible]
Name of the Invigilator	G. Chandra [illegible]

Instructions to the candidates

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6. **No additional sheets will be provided.**

.....

SPACE FOR MARKS

96

100

[signature] 16/12

Signature of the Examiner with Date

R. Sugantha Lakshmi

Name of the examiner

Signature of the Student with Date after Evaluation

A. Hafeeza 16-12-19

2. Library management system.

Aim & Procedure(20)	Design & Code(50)	Output & Result(30)	Total(100)
20	50	26	96

1) Aim

To develop and design a Library management system

Procedure

* Library management system is a desktop application which is developed in VB.net platform.

* It maintains information about its users, newspapers journals and magazine Books etc

* Library system user administration Storing and Retrieval of member / book images.

* User can check Book availability. Search Book by name, author description

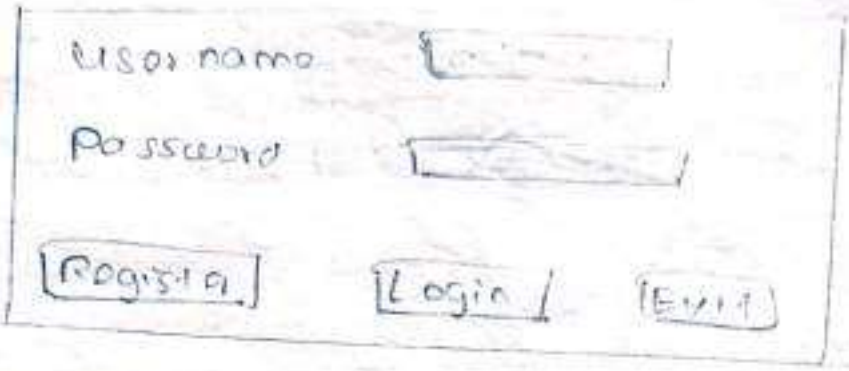
* manage Book details, Publishers
Create Library Card.

* one should manage Library card
members, add edit member, issue and
Receive Books, calculate late fine.

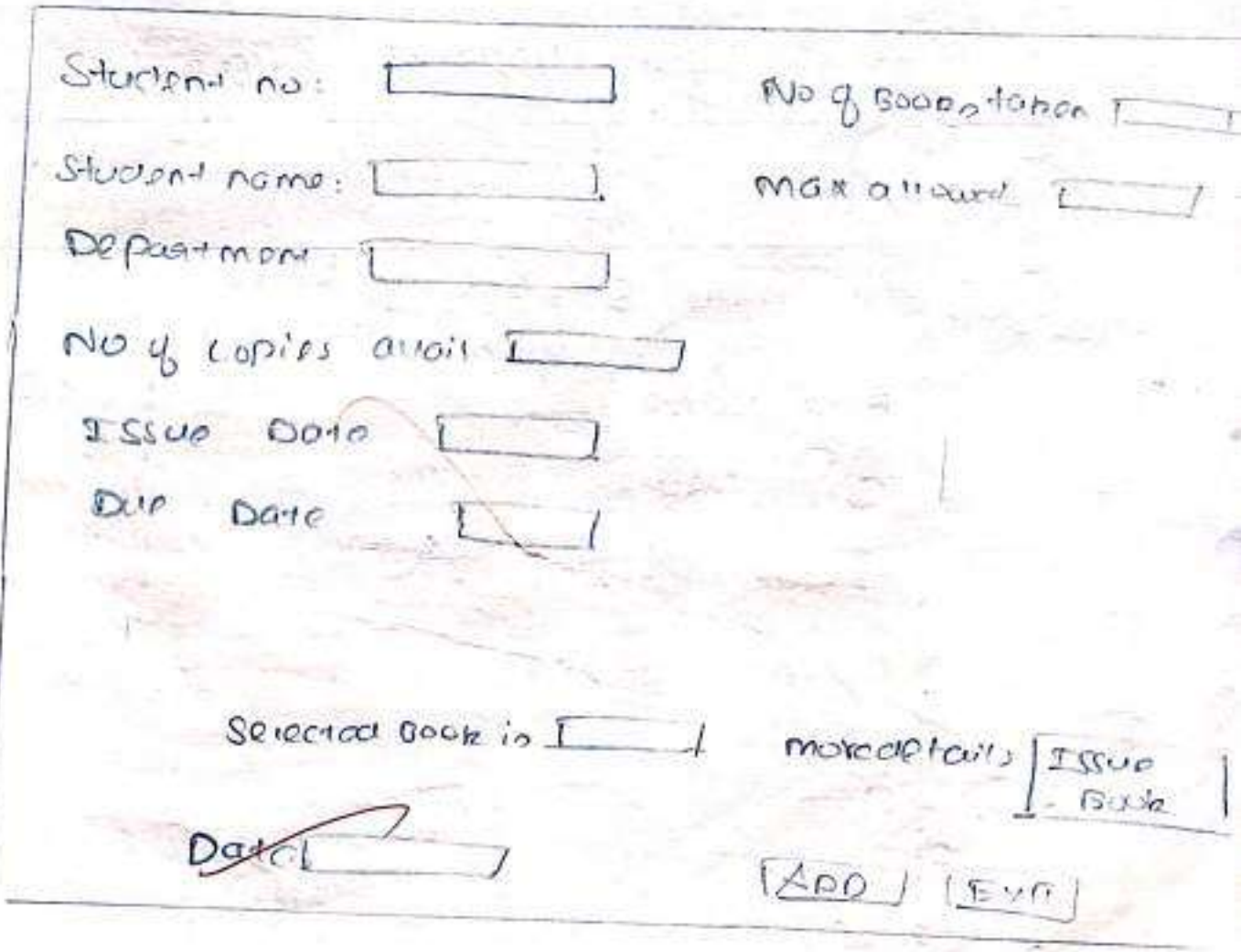
* Then Report about book status. Card
Status report daily Transaction reports
and Staff.

* Using visual Programming Objects
are manipulated directly and also due to
feature of fast and easy Prototyping
GUI Building VB. 6.0 are used

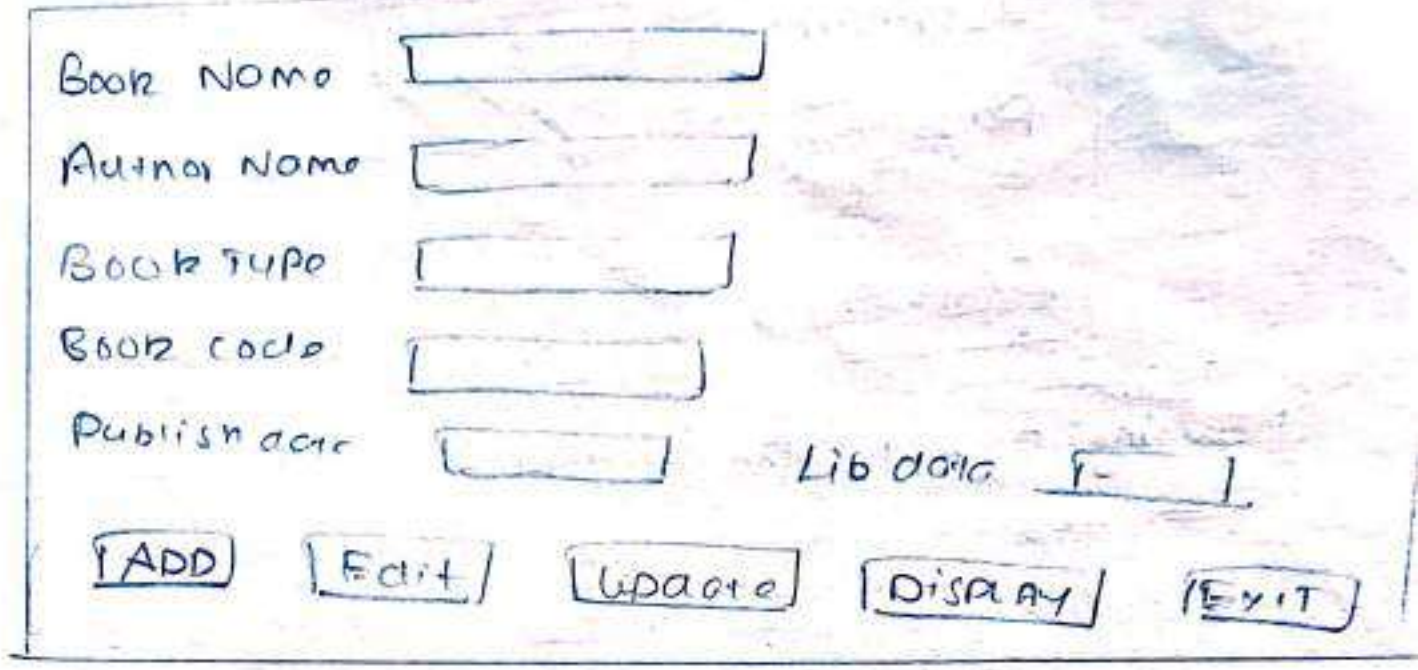
Login form



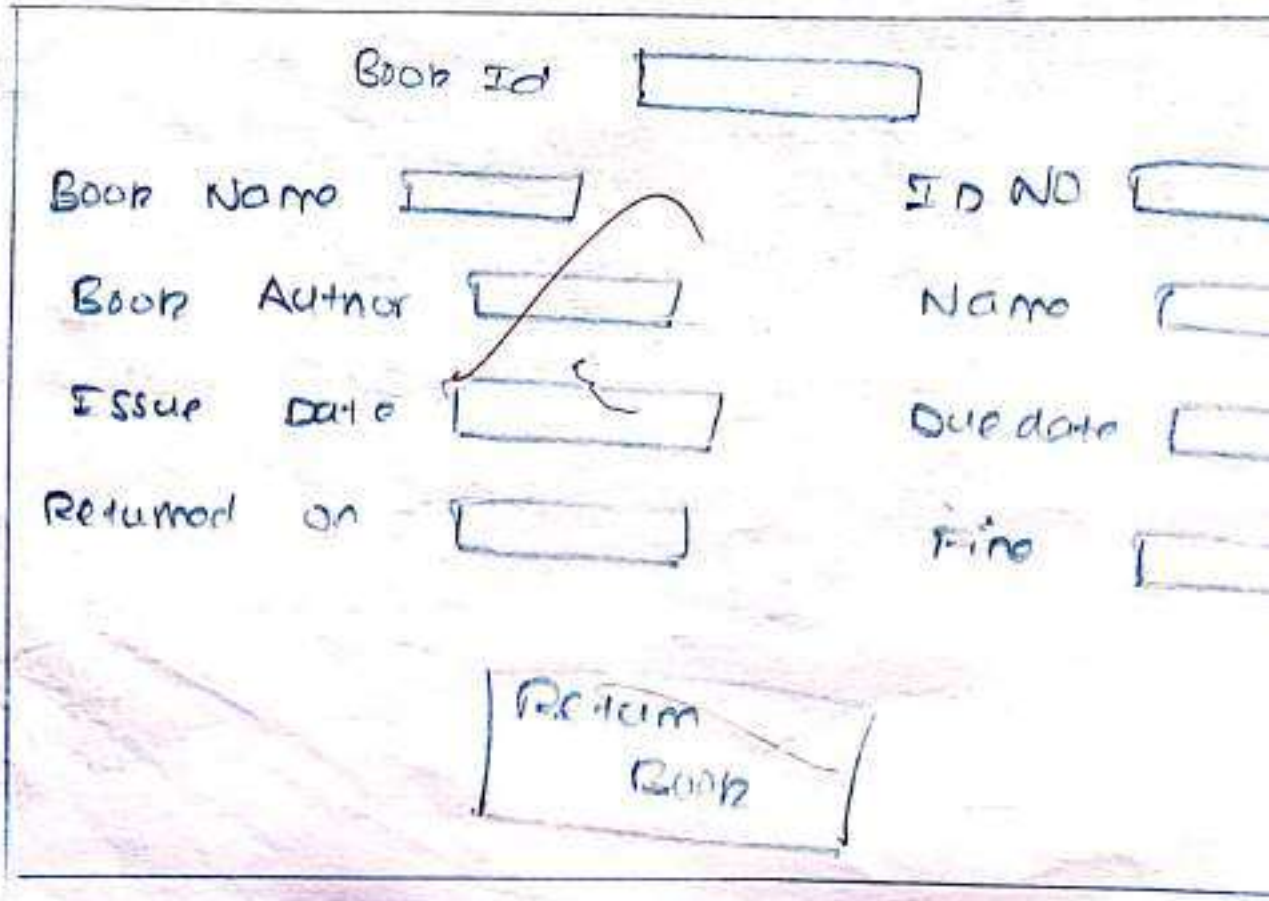
Issuing Book to the Student



Item Book details



Return Book



Form 1:

loginform

Private Sub Command 1 - Click()

if (Text 1. Text = "admin" Text 2. Text = "[illegible]") Then

Form 2.

Me Hide

Else

Msg Box "Incorrect username or password"

End if

End sub

Form 2:

Private Sub Command (Click()

if (Text 1 & Text = "admin") Then

Msg Box ("Book available")

Else

Text. Text = "available"

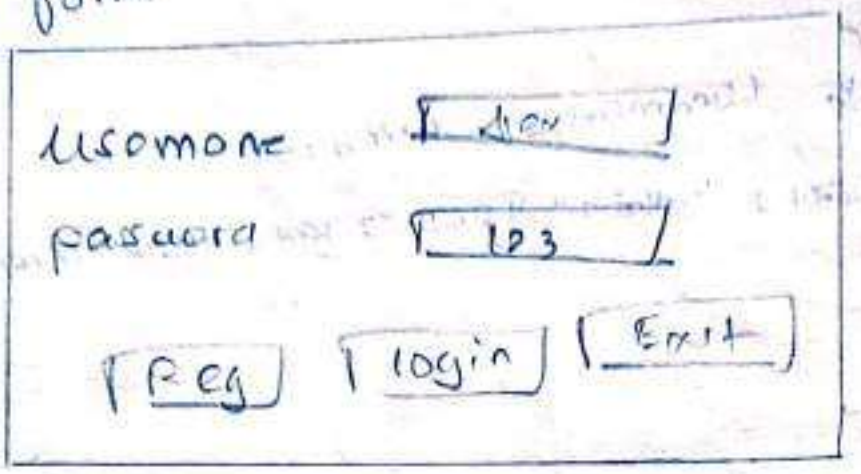
Msg Box "Check in successfully"

End if

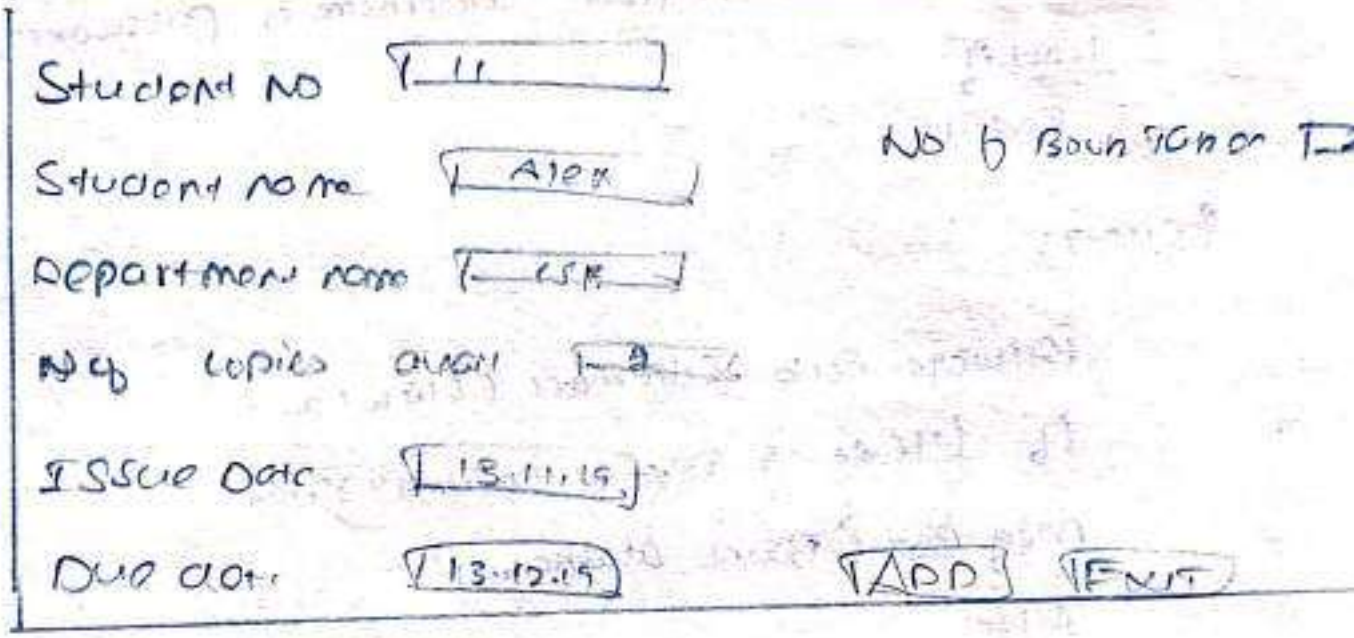
End sub

Output

Login form



ISSUE BOOK



Result

Thus the Library management was successfully Executed

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CONTINUOUS ASSESSMENT TEST- I / II / MODEL EXAMINATION

REGISTER NUMBER	9	2	1	1	1	7	1	0	4	0	0	3

ROLL NO.	17CS03
YEAR / BRANCH / SECTION	III CSE

College Code & Name	8011	Kings College of Engineering	
Degree/Branch	B.E	Computer Science And Engineering	
Subject Code	IV A005	Subject Title	VB.NET

Semester	5
Date & session	6.11.19 AN
No. of pages used	7

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Name of the Invigilator	G. Chandra Prabha

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.....

SPACE FOR MARKS
98 / 100
Signature of the Examiner with Date
R. Sujantha Lakshmi. Name of the examiner

Signature of the Student with Date after Evaluation

A. Abitha.
16/12/19.

5. Hotel management system.

Aim & Procedure(20)	Design & Code(50)	Output & Result(30)	Total(100)
20	50	28	98

Aim:

To design and implement the Hotel management system using Vb.net.

Procedure:

Hotel management the page requires the username and password combo gain a user into software.

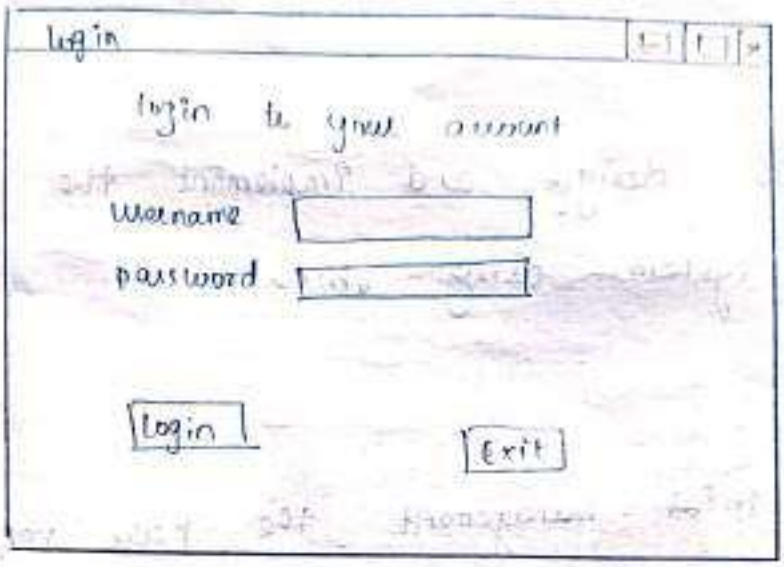
The Check In page requires a customer to fill up their necessary Information

The CheckOut page automatically show the detail of the guest. After Check out all detail of the guest are permantly deleted

To write the coding for the Nassesary forms.

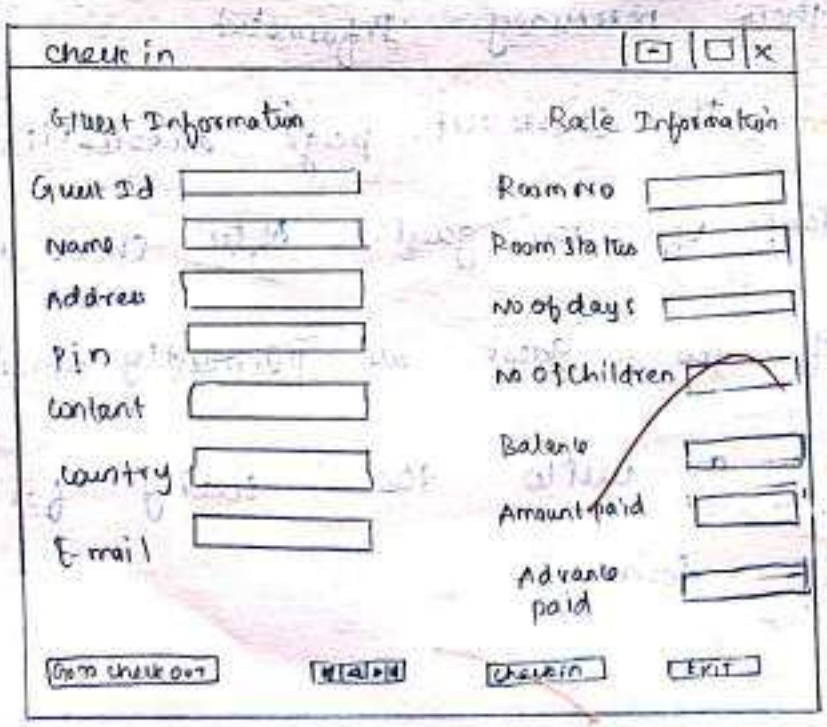
form 1:

login form:

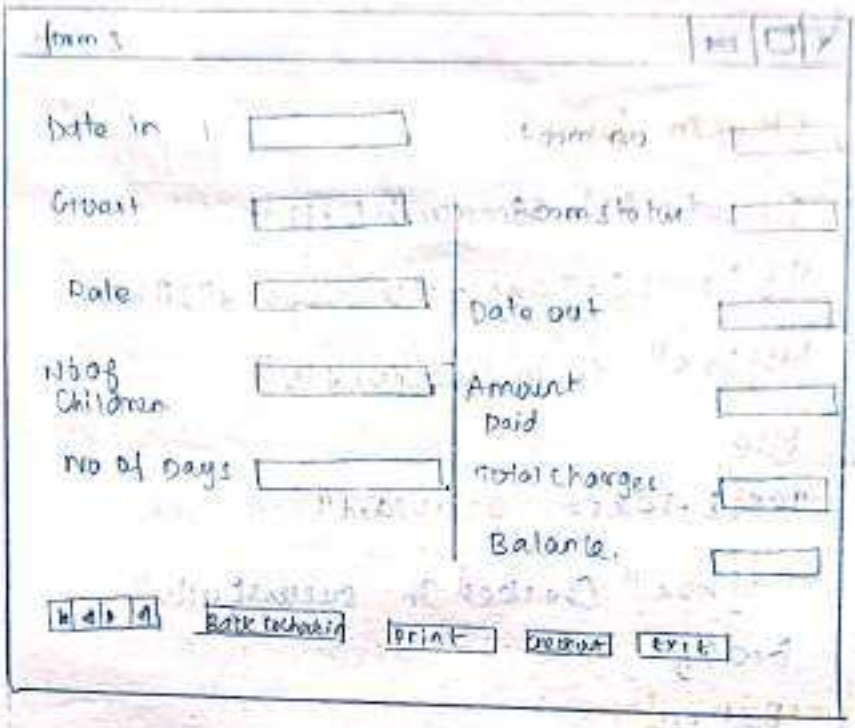


form 2:

Check in form.



form3:
Check out form:



loding

login form:

```
Private Sub Command1.Click()
If (Text1.Text = "park" And Text2.Text = "hotel") Then
Form2.Show
Me.Hide
Else
MsgBox "Incorrect username or password"
EndIf
End Sub
```

```
private sub Command2_click()
Unload me
End sub
private Sub Form_load()
End sub.
```

Form2 : CheckIn form

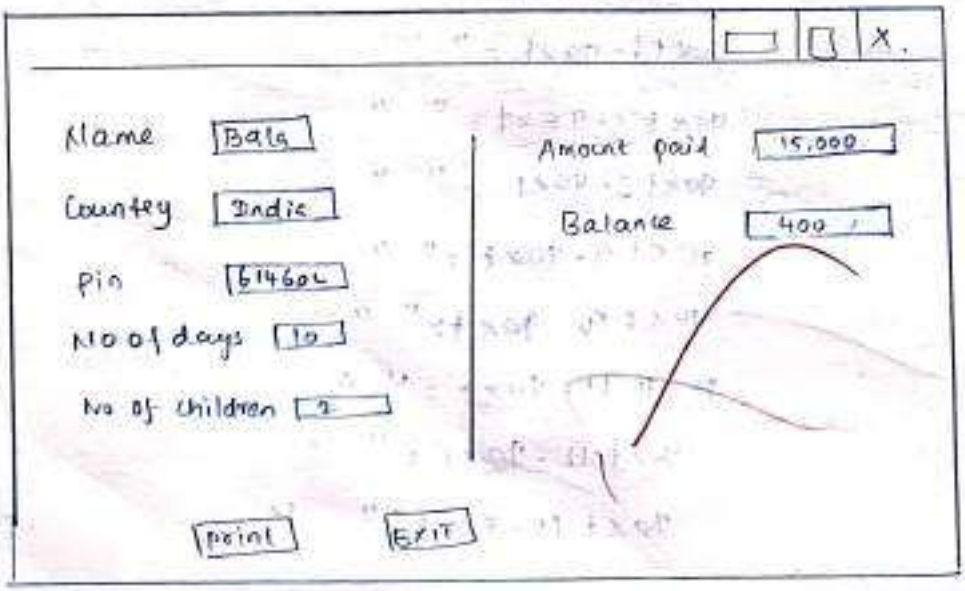
```
private sub Command1_click()
If (Text8.Text = "occupaid") Then
MsgBox" Room occupaid !."
Else
Text8.Text= "occupaid"
MsgBox " Checked In successfully"
EndIf
End sub
private Sub Command2_click()
Unload me
EndSub
Private Sub Timer1_Timer()
label25.Caption= Time
End sub.
```

Form 3: Checkout form

```
Private Sub Command1_Click()
Form3.Show
Me.Hide
End Sub
Private Sub Command3_Click()
If Check14.Text = "vacant" Then
MsgBox "Room vacant!!"
Me.Hide
Else
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
Text12.Text = ""
Text13.Text = ""
```

```
Text 14.Text = " "
Text 15.Text = " "
Text 17.Text = " "
Text 19.Text = " "
Text 20.Text = " "
Text 14.Text = Val(Amt)
MsgBox "checked out sucessfully"
Form2.Show
Unload me
End If
End Sub
Private Sub Command4_Click()
Unload me
End Sub
Private Sub Label1_Click()
End Sub
```

Output:



Result :

Rothus the hotel management was created and successfully executed.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2022 - 2023 ODD SEMESTER

YEAR / SEM : III / V

ASSESSMENT II

MARK STATEMENT

S.NO	REG NUMBER	STUDENT NAME	MARKS
1.	821120104001	AASHA J	88
2.	821120104002	AJAY S	90
3.	821120104003	ARUNOTHAYA A C	98
4.	821120104004	ASHWIN V	92
5.	821120104005	ATCHAYA R V	91
6.	821120104006	BALAMURUGAN M	93
7.	821120104007	BARATHRAJ R	AB
8.	821120104008	BHAVATHARANI V	97
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26.	821120104026	KRISHNAKUMAR G	AB
27.	821120104027	LAVANYA J	92
28.	821120104028	MAHALAKSHMI V	96
29.	821120104029	MOHAMED SAMEER S	98
30.	821120104030	MUHILAN E	89
31.	821120104031	MURUGARAJ M	90
32.	821120104032	NANDHINI S	87
33.	821120104033	NARESH KUMAR N	91
34.	821120104034	NITHISH S	AB
35.	821120104035	NIVETHA S	95

S.NO	REG NUMBER	STUDENT NAME	MARKS
36.	821120104036	PARKAVI D	88
37.	821120104037	PRAKASH A	76
38.	821120104038	PRIYARANI.B	92
39.	821120104039	RAGUL SANKAR J	97
40.	821120104040	RAJKUMAR K	83
41.	821120104041	REENA S	89
42.	821120104042	SAFREENBANU S	90
43.	821120104043	SANTHOSH KUMAR G	94
44.	821120104044	SARVESH S	93
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47.	821120104047	SIVA M	91
48.	821120104048	SNEGA S	98
49.	821120104049	SNEHA E	88
50.	821120104050	SNEHA P(23/5)	86
51.	821120104051	SNEKA P(19/6)	90
52.	821120104052	SURIYAPRAKASH M	95
53.	821120104053	SURUTHIGA C	97
54.	821120104054	THIRUMURUGAN K	90
55.	821120104055	THIRUMURUGAN S	96
56.	821120104056	VANATHI G	89
57.	821120104057	VARSHA N N	92
58.	821120104058	VASANTH M	95
59.	821120104059	VASINYA M	91
60.	821120104060	VICHITHRA V	86
61.	821120104061	VIJAY S	89
62.	821120104062	VINTHIYA M	92
63.	821120104063	YOKESHWARI P	95
64.	821120104301	RAJESH KANNAN C	86
65.	821120104302	RISHI KUMAR R	88
66.		SELVAPRIYA.A	90
No of Students Present			60
No of Students Absent			06
Staff Incharge Sign			
HoD Sign			

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022 – 23 ODD SEMESTER

CERTIFICATION COURSE – REPORT

VB.NET

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
VB.NET	30 Hrs	III/V (66)	Ms.R.Sugantha Lakshmi Ms.S.Puvaneswari	1.8.22

1. OBJECTIVE

To make the students

- Learn the fundamentals of VB.NET.
- Understand the elements of VB.NET.
- Learn the programming concepts and develop applications on VB.NET.
- Make the students aware of data access.

2. COURSE COVERAGE

- The course provided the students with
  - A comprehensive understanding of the programming language and its associated libraries.
  - Developing programs using the Visual Studio IDE.
  - An introduction to the .NET Framework and the relevant concepts associated with it.
  - Create applications using the Visual Studio IDE and debugging and troubleshoot code.
  - Creation of windows forms.
  - Database connectivity and manipulation using SQL.
  - Various .NET components and various aspects of VB.NET programming.

3. SYLLABUS COVERAGE

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
30	32	03

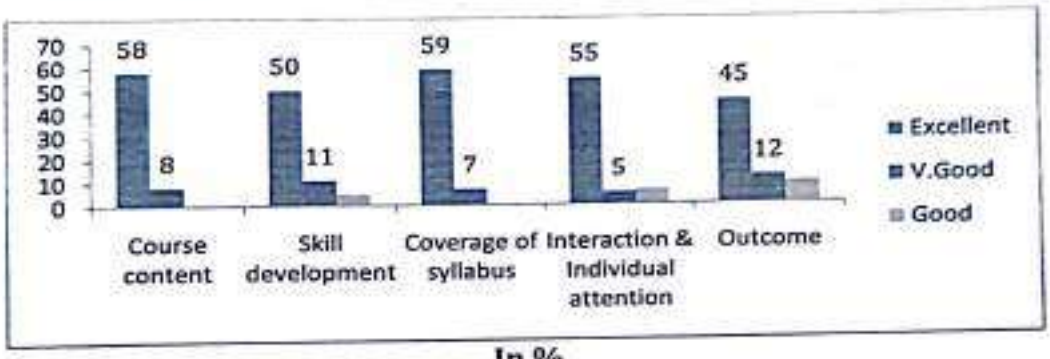
4. ASSESSMENT TEST PERFORMANCE

TEST	NO OF UNITS	NO OF STUDENTS ATTENDED	NO OF STUDENTS PASSED	PASS %
Internal Assessment 1	3	66	66	100

5. FEEDBACK

Total Strength: 66

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	58	8		
2.	Skill development	50	11		
3.	Coverage of syllabus	59	7		
4.	Interaction & Individual attention	55	5	6	
5.	Outcome	45	12	9	
Other suggestions					



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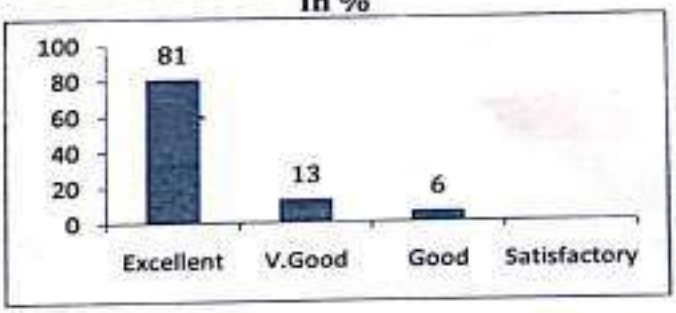

OUTCOME

The students are able to

- Describe the basic concepts of VB.NET
- Work on VB.NET IDE
- Develop simple applications
- Create applications using MDI
- Access datasets and databases

29/12/23
COURSE COORDINATOR(s)

29/12/23
HOD/CSE

29/12/2023
PRINCIPAL
PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303

Hospital Management System

A Project Report

Submitted By:

V.BHAVATHARANI(20CS08)
S.NANDHINI(20CS32)
I.GEETHA(20CS18)
S.SNEGA(20CS48)

BACHELOR OF ENGINEERING

IN

COMPUTER ENGINNERING

At

KINGS COLLEGE OF ENGINEERING

Affiliated to Anna University, Chennai.

SAMPLE CERTIFICATES

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that ARUNOTHAYA A C of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that BALAMURUGAN M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that BOOMIKA R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that AJAY S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that ATCHAYA R V of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that BHAVATHARANI V of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that AASHA J of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that ASHWIN V of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS COLLEGE OF ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that BARATHRAJ R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBUNET" held on 29.12.22

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that DEEPIKA R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

KINGS
COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that ELAMARAN S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that GEETHA I of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

KINGS
COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that DEEPAN S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that DINESHKUMAR R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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KINGS
COLLEGE OF ENGINEERING
CERTIFICATE OF COMPLETION
This is to certify that GAYATHRI M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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This is to certify that DEEPAK KUMAR D of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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This is to certify that DINESH S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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COLLEGE OF ENGINEERING
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This is to certify that ESWAR S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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CERTIFICATE OF COMPLETION
This is to certify that JAYAVANI K of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that KAYALVIZHI K of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
HOD
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KINGS
CERTIFICATE OF COMPLETION
This is to certify that LAVANYA J of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that HARISH B of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
HOD
Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that KARTHIKA M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
HOD
Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that KRISHNAKUMAR G of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that GUHAN D of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that JENO VINNARASI A of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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KINGS
CERTIFICATE OF COMPLETION
This is to certify that KEERTHIGA S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
HOD
Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that MUHILAN E of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that NARESH KUMAR N of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
HOD
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KINGS
CERTIFICATE OF COMPLETION
HOD
Convenor

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This is to certify that MOHAMED SAMEER S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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This is to certify that NANDHINI S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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This is to certify that NIVETHA S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
HOD
Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that MAHALAKSHMI V of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
HOD
Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that MURUGARAJ M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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This is to certify that NITHISH S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that RAGUL SANKAR J of III
year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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CERTIFICATE OF COMPLETION
This is to certify that SAFREENBANU S of III
year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
has successfully completed the course on "VB.NET" held on 29.12.22
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CERTIFICATE OF COMPLETION
This is to certify that SATHYA A of III
year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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CERTIFICATE OF COMPLETION
This is to certify that PRIYARANI B of III
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This is to certify that SARVESH S of III
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This is to certify that PRAKASH A of III
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CERTIFICATE OF COMPLETION
This is to certify that RAJKUMAR K of III
year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that SANTHOSH KUMAR G of III
year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
has successfully completed the course on "VB.NET" held on 29.12.22
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Convenor

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This is to certify that THIRUMURUGAN K of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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Convenor

KINGS
CERTIFICATE OF COMPLETION
This is to certify that SIVA M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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This is to certify that SURUTHIGA C of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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This is to certify that SATHYA R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
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This is to certify that SURIYAPRAKASH M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VBJNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VARSHA N M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VICHITHRA V of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that YOKESHWARI P of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VANATHI G of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VASINYA M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
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Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VINTHIYA M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
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KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VASANTH M of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
CERT
CERTIFICATE OF COMPLETION
This is to certify that VIJAY S of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VSLNET" held on 29.12.22
HOD
Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that SELVAPRIYA.A of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that RISHI KUMAR R of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22

HOD Convenor

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai

CERTIFICATE OF COMPLETION

This is to certify that RAJESH KANNAN C of III year DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed the course on "VB.NET" held on 29.12.22

HOD Convenor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course on Introduction to IOT

ACADEMIC YEAR 2022-2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

CIRCULAR

30.07.2022

As a part of curriculum enrichment, our department has planned to offer a CERTIFICATION COURSE courses for **II** year students, the students can explore the knowledge through this courses. Kindly refer the course schedule.

Course Details

Name of the course	Duration of the course	Faculty in-charge
Introduction to Internet of things	**30hrs**	**Mr.M.Arun**

Note :

- To be circulated in II CSE Whatsapp group
- Copy to Notice board

30/07/22

HOD/CSE

KINGS
COLLEGE OF ENGINEERING

Department of Computer Science and Engineering
Academic Year 2022-23 ODD
Syllabus
Certification Course on Introduction to Internet of Things

Unit- 1 **10**

Introduction to IOT- Sensing - Actuation - Basics of IOT Networking- Connectivity Technologies Sensor Networks - Machine to Machine Communication Interoperability in IOT

Unit-2 **10**

Internet of Things Introduction to Arduino- Introduction to Raspberry Pi- Cloud Computing- Fundamentals - Cloud Computing- Case Studies - Smart Cities and Smart Homes

Unit-3 **10**

Case Study: Agriculture, Healthcare Activity Monitoring, Mini Project

Reference:

1. Text book:
2. Textbook:

20/12/22 20/12/22 J. Armeti 20/12/22.

Course Incharge **Head of the Department** **Principal**

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022– 23 ODD SEMESTER

CERTIFICATION COURSE – REPORT
Introduction to IOT

Course Details:

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
Introduction to IOT	30 Hrs	II Year / III Sem Total Strength : 65	Mr.M.Arun	15.8.22

OBJECTIVE

To make the students

- To understand the basics about Internet of Things.
- To know about IOT hardware tools and cloud Computing.
- To understand the applications of IOT.

SYLLABUS COVERAGE

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
30	32	03

ASSESSMENT PERFORMANCE:

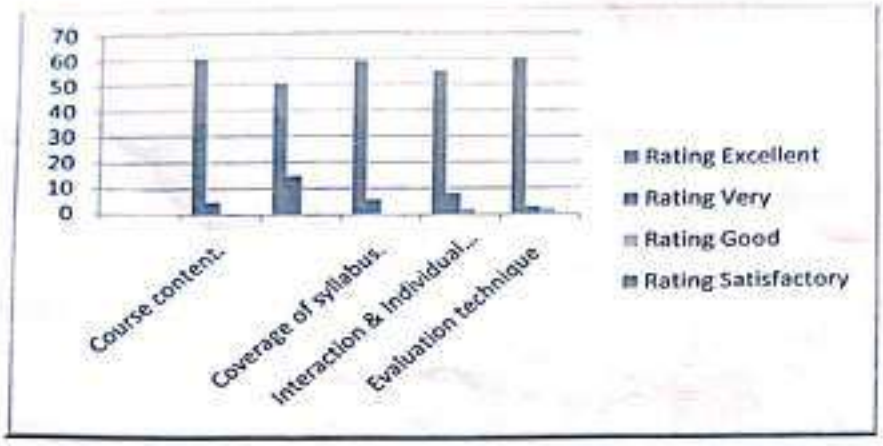
TEST	NO. OF UNITS	NO. OF STUDENTS ATTENDED	NO. OF STUDENTS PASSED	PASS %
Presentation	3	65	65	100

FEEDBACK

Total Strength: 65

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content.	60	5		
2.	How much you feel know ledged?	50	15		
3.	Coverage of syllabus.	59	6		
4.	Interaction & Individual attention.	55	8	2	
5.	Evaluation technique	60	3	2	

Graph:



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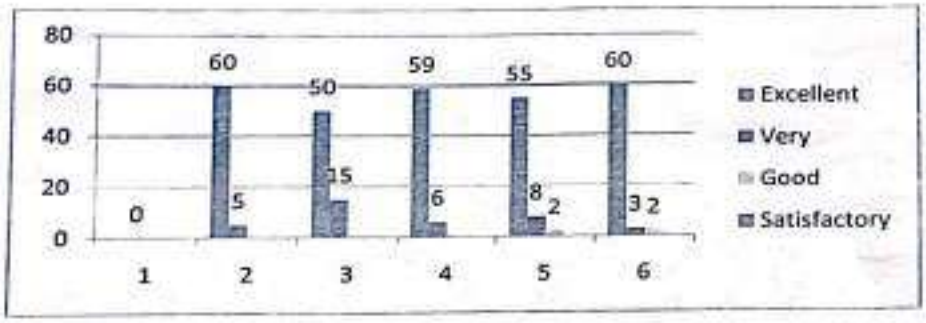

OUTCOME

At the end of the course students were able to

- Understand the basic concept of IOT.
- Known the functionalities of IOT hardware.
- Analyze various areas of IOT.

COURSE COORDINATOR 20/12/22

HOD/CSE 20/12/22

20/12/2022

PRINCIPAL

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

SAMPLE CERTIFICATES

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.

CERTIFICATE ON COMPLETION

This is the certify that AANDAL .S.A of II year of DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed thecertification course on intoduction to 'IOT' held on 29.12.2022

COURSE-COORDINATOR HOD

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.

CERTIFICATE ON COMPLETION

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COURSE-COORDINATOR HOD

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.

CERTIFICATE ON COMPLETION

This is the certify that HARIHARAN .K of II year of DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed thecertification course on intoduction to 'IOT' held on 29.12.2022

COURSE-COORDINATOR HOD

KINGS
COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.

CERTIFICATE ON COMPLETION

This is the certify that ARUL .B of II year of DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING has successfully completed thecertification course on intoduction to 'IOT' held on 29.12.2022

COURSE-COORDINATOR HOD

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NPTEL COURSES

ACADEMIC YEAR

2022-2023

SWAYAM- NPTEL COURSES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

CIRCULAR

18.07.22

As a part of curriculum enrichment, our department has planned to offer a **SWAYAM- NPTEL** courses for **II, III, IV** year students, through which the students can be exposed to the currently trending domain. Kindly go through the course schedule mentioned below for your reference and from the list you can choose your optional course.

Course Details

Name of the course	Duration of the course	Start Date
Big Data Computing	8 weeks	22.08.22
Introduction to Internet of Things	12 weeks	25.07.22
Introduction to Cyber security	12 weeks	25.07.22

Note

- To be circulated in II,III,IV CSE Whatsapp group
- Copy to Notice board

18/7/22

HOD/CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-23 ODD SEMESTER
SWAYAM COURSE

II-CSE

Total Strength: 60

Big Data Computing.

Introduction:

In today's fast-paced digital world , the incredible amount of data being generated every minute has grown tremendously from sensors used to gather climate information, posts to social media sites, digital pictures and videos, purchase transaction records, and GPS signals from cell phone to name a few. This amount of large data with different velocities and varieties is termed as big data and its analytics enables professionals to convert extensive data through statistical and quantitative analysis into powerful insights that can drive efficient decisions. This course provides an in-depth understanding of terminologies and the core concepts behind big data problems, applications, systems and the techniques, that underlie today's big data computing technologies.

It provides an introduction to some of the most common frameworks such as Apache Spark, Hadoop, MapReduce, Large scale data storage technologies such as in-memory key/value storage systems, NoSQL distributed databases, Apache Cassandra, HBase and Big Data Streaming Platforms such as Apache Spark Streaming, Apache Kafka Streams that has made big data analysis easier and more accessible. And while discussing the concepts and techniques, we will also look at various applications of Big Data Analytics using Machine Learning, Deep Learning, Graph Processing and many others. The course is suitable for all UG/PG students and practicing engineers/ scientists from the diverse fields and interested in learning about the novel cutting edge techniques and applications of Big Data Computing.

PREREQUISITES: Data Structure & Algorithms, Computer Architecture, Operating System, Database Management Systems.

Course layout:

Week 1 : Introduction to Big Data
Week 2 : Introduction to Enabling Technologies for Big Data
Week 3 : Introduction to Big Data Platforms
Week 4 : Introduction to Big Data Storage Platforms for Large Scale Data Storage
Week 5 : Introduction to Big Data Streaming Platforms for Fast Data
Week 6 : Introduction to Big Data Applications (Machine Learning)
Week 7 : Introduction of Big data Machine learning with Spark
Week 8 : Introduction to Big Data Applications (Graph Processing)

Text Book:

Bart Baesens, Analytics in a Big Data World: The Essential Guide to Data Science and its Applications, Wiley, 2014

Reference Books:

1. Dirk Deroos et al., Hadoop for Dummies, Dreamtech Press, 2014.
2. Chuck Lam, Hadoop in Action, December, 2010.
3. Leskovec, Rajaraman, Ullman, Mining of Massive Datasets, Cambridge University Press.

4. I.H. Witten and E. Frank, Data Mining: Practical Machine learning tools and techniques.
5. Erik Brynjolfsson et al., The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies, W. W. Norton & Company, 2014.

Instructor bio:

- Dr. Rajiv Misra is working in Department of Computer Science and Engineering at Indian Institute of Technology Patna, India. He obtained his Ph.D degree from IIT Kharagpur, M.Tech degree in Computer Science and Engineering from the Indian Institute of Technology (IIT) Bombay, and Bachelor's of engineering degree in Computer Science from MNIT Allahabad.
- His research interests spanned a design of distributed algorithms for Mobile, Adhoc and Sensor Networks, Cloud Computing and Wireless Networks.
- He has contributed significantly to these areas and published more than 70 papers in high quality journals and conferences, and 2 book chapters.
- His h-index is 10 with more than 590 citations. He has authored papers in IEEE Transactions on Mobile Computing, IEEE Transaction on Parallel and Distributed Systems, IEEE Systems Journal, Adhoc Networks, Computer Network, Journal of Parallel and Distributed Computing.
- He has edited a book titled as "Smart Techniques for a Smarter Planet: Towards Smarter Algorithms" for the "Studies in Fuzziness and Soft Computing" book series, Springer (2018).
- He has supervised four Phd students and currently four Phd students working under his supervision in the area of big data, cloud computing, distributed computing, and sensor networks. He is a senior member of the IEEE and fellow of IETE.
- He has completed as the Principal Investigator of R&D Project Sponsored by DeiTY entitled as "Vehicular Sensor and Mesh Networks based Future ITS". He has mentored the online courses on Cloud Computing, Advanced Graph Theory and Distributed Systems in the platform of NPTEL.

Outcomes:

End of the course students will able to

- Understand the basics of big data.
- Know the enabling technologies for big data.
- Indentify big data platforms.
- Understand the big data storage platforms for large scale data storage.
- Know big data applications.

Class Coordinator 18/7/22

HOD-CSE 18/7/22

Format-QP06

REVISED

KINGS COLLEGE OF ENGINEERING

CERT

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (AUG' 2022 - DECS' 2022, ODD SEM)

B.E - CSE (Reg. 2021) - With Effect from 22.08.22 - Tentative Last Working Day 08.12.2022

Batch:2021-2025 | Strength:61

Year: II | Semester: III | Class Room : 222 | Block: I

Session	1	2	10.45 am	3	4	12.30 pm	5	6	02.40 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am	11.00 am	11.00am - 11.45am	11.45am - 12.30pm	01.10 pm	01.10pm - 01.55pm	01.55pm - 02.40pm	02.50 pm	02.50pm - 03.35pm	03.35pm - 04.20pm
MON	CS3361		BREAK	CS3361		LUNCH BREAK	CS3351	MA3354	BREAK	CS3301	CS3391
TUE	CS3301	MA3354		CS3351			CS3352	CS3391		LIB/NET	CS3352
WED	CS3391	T&P(SS)		GE3361			CS3301	MA3354		CS3391	CS3352
THU	CS3352	CS3351		CS3301	CS3391		MA3354	CS3311 / CS3381		CS3311 (B1) / CS3381 (B2)	
FRI	CS3351	T&P(A)		CS3352	MA3354		CS3301	CS3311 / CS3381		CS3311 (B2) / CS3381 (B1)	
SAT	MA3354	CS3391		CS3351	CS3352		CC			NPTEL	SEM

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	TUTORIAL (T), ELECTIVE (E)					
MA3354	Discrete Mathematics	BSC	4	Ms.T.Gnanajeya	MATHS	6
CS3351	Digital Principles and Computer Organization	ESC	4	Mr.W.Newton David Raj	ECE	6
CS3352	Foundations of Data Science	PCC	3	Mr.S.Rajarajan	CSE	6
CS3301	Data Structures	PCC	3	Ms.K.Abhirami	CSE	5
CS3391	Object Oriented Programming	PCC	3	Mr.M.Arun	CSE	6
	PRACTICAL					
CS3311	Data Structures Laboratory	PCC	1.5	Ms.S.Puvaneswari	CSE	3
CS3381	Object Oriented Programming Laboratory	PCC	1.5	Mr.M.Arun	CSE	3
CS3361	Data Science Laboratory	PCC	2	Mr.S.Rajarajan & Ms.S.Abikayil Aarthi	CSE	4
GE3361	Professional Development	EEC	1	Mr.G.Dinesh	ENGLISH	2
	VALUE ADDITION INITIATIVES (VAI)					
CC	Industry Certification Courses	VAI		Mr.M.Arun	CSE	2
LIB/NET	Library / Internet	VAI		Mr.M.Arun	CSE	1
NPTEL	NPTEL / SWAYAM Online Course	VAI		Mr.M.Arun	CSE	1
SEM	Technical Seminar	VAI		Ms.B.Bavithra	CSE	1
T&P(A)	Training & Placement - Aptitude	VAI		Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskills	VAI		Dr.B.Barankumar	T&P	1

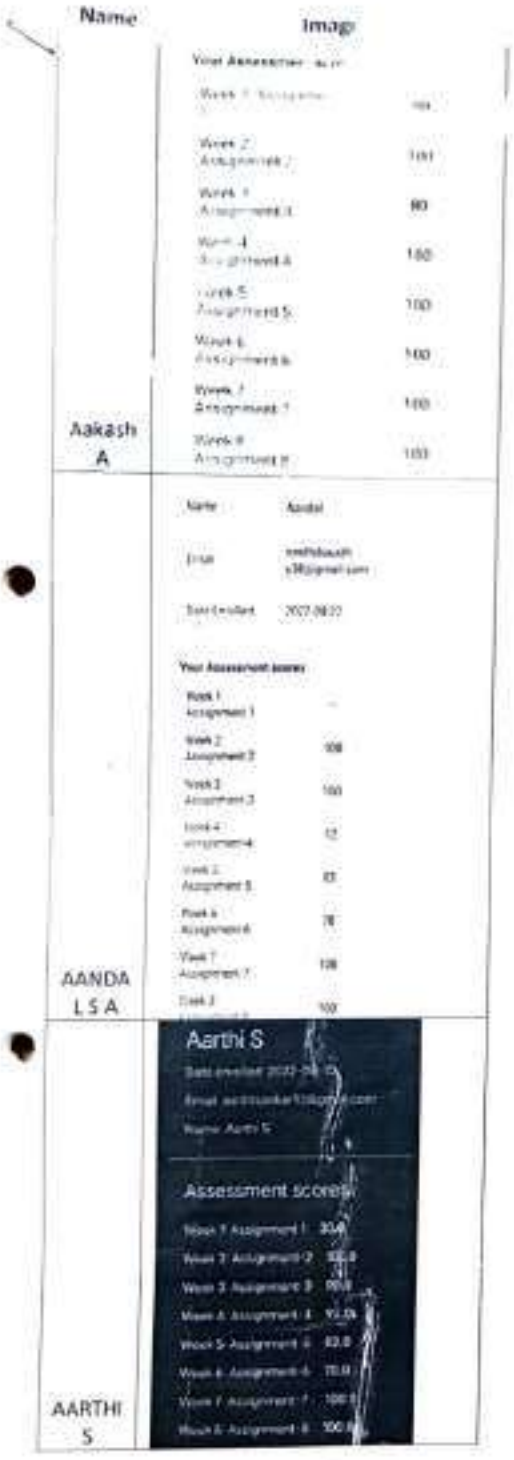
CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.M.Arun	B.M.Nithyasri	40
	V.Surendran	57
CLASS COMMITTEE CHAIR PERSON	Ms.P.Nalayini	

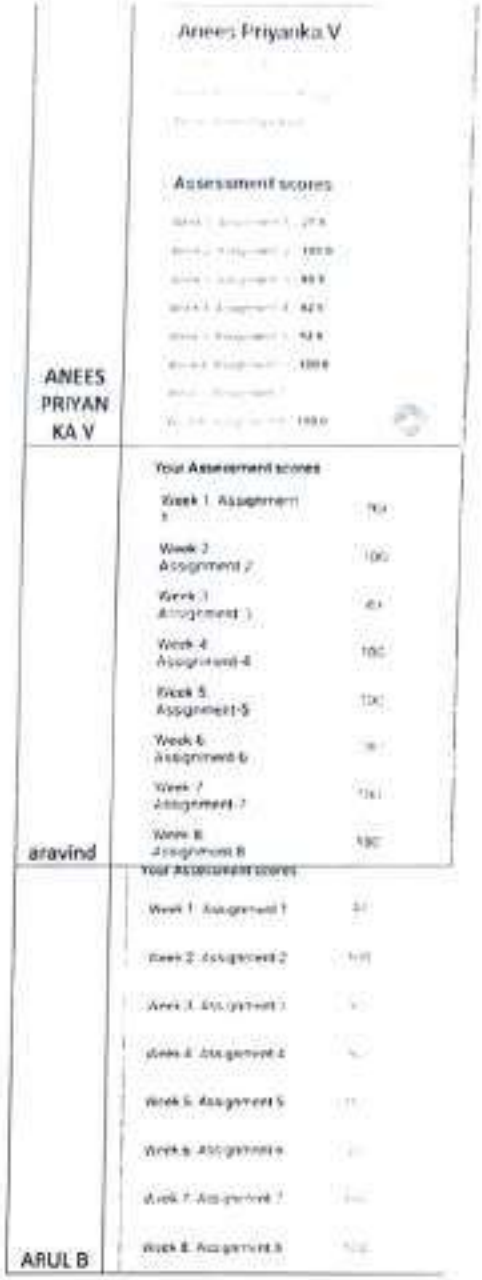
DEPT. TTC 30/8/22

HOD 23/8/22

PRINCIPAL 29/8/2022

SCREENSHOTS





ASHOK KUMAR K

Your Assessment scores

ASMA S

Your Assessment scores

BHARATHIP A

Your Assessment scores

DHANUSHRAJD

Your Assessment scores

DHARANI R

Name	DHARANI R
Email	dharudharani16@gmail.com
Date Enrolled	2022-08-21

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment 3	90
Week 4 Assignment 4	92
Week 5 Assignment 5	92
Week 6 Assignment 6	100
Week 7 Assignment 7	100
Week 8 Assignment 8	100

DHEVA DHARSHINI M

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment-5	92
Week 6 Assignment-6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

GAYATHIRI S

Date enrolled: 2022-08-09

Email: gayathiri832@gmail.com

Name: GAYATHIRI S

Assessment scores

Week 1 Assignment 1	90.0
Week 2 Assignment 2	90.0
Week 3 Assignment-3	100.0
Week 4 Assignment-4	100.0
Week 5 Assignment-5	100.0
Week 6 Assignment-6	100.0
Week 7 Assignment-7	100.0
Week 8 Assignment-8	100.0

GOWRISHANGARI R

Gowrishangari. R

Date enrolled: 2022-08-27

Email: gowrishangari.r@gmail.com

Name: Gowrishangari. R

Assessment scores

Week 1 Assignment 1	100.0
Week 2 Assignment 2	90.0
Week 3 Assignment 3	90.0
Week 4 Assignment 4	100.0
Week 5 Assignment 5	100.0
Week 6 Assignment 6	100.0
Week 7 Assignment 7	100.0
Week 8 Assignment 8	100.0

HARI PRASATH S

Name	Sithar Prasath
Email	[illegible]
Date Enrolled	2022-08-15

Your Assessment scores

Week 1 Assignment 1	90
Week 2 Assignment 2	100
Week 3 Assignment 3	90
Week 4 Assignment 4	100
Week 5 Assignment 5	100
Week 6 Assignment 6	70
Week 7 Assignment 7	100
Week 8 Assignment 8	100

HARIHARAN K

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment-2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment-5	92
Week 6 Assignment-6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

HARIHARAN S

Your Assessment scores

Week 1 Assignment 1	92
Week 2 Assignment-2	92
Week 3 Assignment-3	92
Week 4 Assignment-4	92
Week 5 Assignment-5	92
Week 6 Assignment-6	92
Week 7 Assignment-7	100
Week 8 Assignment-8	100

HARINI V

Your Assessment scores

Week 1 Assignment 1	90
Week 2 Assignment-2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment-5	100
Week 6 Assignment-6	70
Week 7 Assignment-7	100
Week 8 Assignment-8	100

INDRANI M

M.Indrani

Date enrolled: 2022-08-21

E-mail: indraniindrani[illegible]

Name: M.Indrani

Assessment scores

Week 1 Assignment 1	
Week 2 Assignment-2	90.0
Week 3 Assignment-3	90.0
Week 4 Assignment-4	100.0
Week 5 Assignment-5	92.0
Week 6 Assignment-6	100.0
Week 7 Assignment-7	100.0
Week 8 Assignment-8	100.0

JANARTHANAN P

JANARTHANAN P

Assessment scores

Week 1 Assignment 1	
Week 2 Assignment-2	100.0
Week 3 Assignment-3	100.0
Week 4 Assignment-4	100.0
Week 5 Assignment-5	100.0
Week 6 Assignment-6	100.0
Week 7 Assignment-7	100.0
Week 8 Assignment-8	100.0

JEEVA R

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment-2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment-5	92
Week 6 Assignment-6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

JEEVES H P S	Email: jeeveshsivam sthan@gmail.com Date Enrolled: 2022-08-22 **Your Assessment scores** Week 1: Assignment 1 — 90 Week 2: Assignment-2 — 90 Week 3: Assignment-3 — 90 Week 4: Assignment-4 — 100 Week 5: Assignment-5 — 100 Week 6: Assignment-6 — 90 Week 7: Assignment-7 — — Week 8: Assignment-8 — 100
JOHARA KANI S	Name: S Johara kani Email: sameerashajahan339@gmail.com Date Enrolled: 2022-08-09 **Your Assessment scores** Week 1: Assignment 1 — 90 Week 2: Assignment 2 — 90 Week 3: Assignment 3 — 90 Week 4: Assignment-4 — 92 Week 5: Assignment-5 — 100 Week 6: Assignment-6 — 80 Week 7: Assignment-7 — 100 Week 8: Assignment-8 — 100
KANNAN	**Your Assessment scores** Week 1 Assignment 1 — 100 Week 2 Assignment 2 — 100 Week 3 Assignment-3 — 90 Week 4 Assignment-4 — 92 Week 5 Assignment 5 — 92 Week 6 Assignment 6 — 100 Week 7 Assignment-7 — 100 Week 8 Assignment 8 — 100
KARTHIK V	**Your Assessment scores** Week 1: Assignment 1 — 90 Week 2 Assignment 2 — 100 Week 3 Assignment 3 — 80 Week 4: Assignment-4 — 100 Week 5: Assignment-5 — 100 Week 6: Assignment 6 — 100 Week 7 Assignment-7 — 100 Week 8: Assignment 8 — 100
KEERTHANA J	Your Assessment scores Week 1: Assignment 1 — 90 Week 2: Assignment 2 — 100 Week 3: Assignment 3 — 80 Week 4: Assignment 4 — 92 Week 5: Assignment 5 — 100 Week 6: Assignment 6 — 70 Week 7: Assignment 7 — 100 Week 8: Assignment 8 — 100

KUMAR ESAN K P

MAHESHWARI D

Maheshwari D

Assessment scores

MANIBHARATHI V S

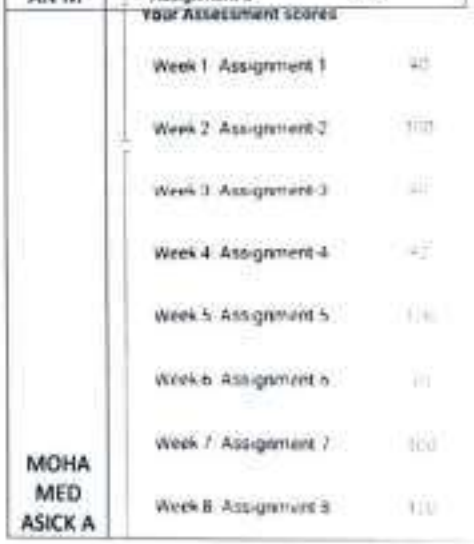
MANOJ M

MATHESH KRISHNAN M

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment 5	92
Week 6 Assignment 6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

MOHAMED ASICK A



Your Assessment scores

Week 1 Assignment 1

Week 2 Assignment-2

Week 3 Assignment-3

Week 4 Assignment-4

Week 5 Assignment 5

Week 6 Assignment 6

Week 7 Assignment 7

Week 8 Assignment 8

MOHAMED GANI M

Assessment scores

Week 1: Assignment 1:	30.0
Week 2: Assignment-2:	100.0
Week 3: Assignment-3:	90.0
Week 4: Assignment-4:	92.0
Week 5: Assignment-5:	83.0
Week 6: Assignment-6:	70.0
Week 7: Assignment-7:	100.0
Week 8: Assignment-8:	100.0

MOHAMMED ALI K

Your Assessment scores

Week 1: Assignment 1	80
Week 2: Assignment-2	100
Week 3: Assignment-3	90
Week 4: Assignment-4	92
Week 5: Assignment-5	100
Week 6: Assignment-6	70
Week 7: Assignment-7	100
Week 8: Assignment-8	100

MONESHWARAN S

Name: MONESHWARAN S

Email: [illegible]

Date Enrolled: [illegible]

Your Assessment scores

Week 1 Assignment 1	-
Week 2 Assignment-2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment-5	100
Week 6 Assignment-6	70
Week 7 Assignment-7	-
Week 8 Assignment-8	100

MURUGANANTHAM P

Assessment scores

Week 1: Assignment 1:	30.0
Week 2: Assignment-2:	100.0
Week 3: Assignment-3:	90.0
Week 4: Assignment-4:	92.0
Week 5: Assignment-5:	83.0
Week 6: Assignment-6:	70.0
Week 7: Assignment-7:	100.0
Week 8: Assignment-8:	100.0

MURUGESHWARI A

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment-2	100
Week 3: Assignment-3	90
Week 4: Assignment-4	92
Week 5: Assignment-5	92
Week 6: Assignment-6	100
Week 7: Assignment-7	100
Week 8: Assignment-8	100

NANDHAKUMAR P

Assessment scores

Week 1: Assignment 1:	30.0
Week 2: Assignment-2:	100.0
Week 3: Assignment-3:	90.0
Week 4: Assignment-4:	92.0
Week 5: Assignment-5:	83.0
Week 6: Assignment-6:	70.0
Week 7: Assignment-7:	100.0
Week 8: Assignment-8:	100.0

PRASANNA R	Assessment scores Week 1 Assignment 1: 30.0 Week 2 Assignment-2: 100.0 Week 3 Assignment-3: 90.0 Week 4 Assignment-4: 92.0 Week 5 Assignment-5: 83.0 Week 6 Assignment-6: 70.0 Week 7 Assignment-7: 100.0 Week 8 Assignment-8: 100.0
RAHUL S	
ROOBIGA R	Assessment scores [illegible]
ROOHI SHIFAM	Assessment scores Week 1 Assignment 1: 30.0 Week 2 Assignment-2: 100.0 Week 3 Assignment-3: 90.0 Week 4 Assignment-4: 92.0 Week 5 Assignment-5: 83.0 Week 6 Assignment-6: 70.0 Week 7 Assignment-7: 100.0 Week 8 Assignment-8: 100.0

SARAVANAN K	Your Assessment scores Week 1 Assignment 1: 85 Week 2 Assignment-2: 100 Week 3 Assignment-3: 80 Week 4 Assignment-4: -- Week 5 Assignment-5: 83 Week 6 Assignment-6: 70 Week 7 Assignment-7: -- Week 8 Assignment-8: 100
SATHYA A	[illegible]
SHALINI K	Your Assessment scores Week 1 Assignment 1: 100 Week 2 Assignment 2: 100 Week 3 Assignment 3: 90 Week 4 Assignment-4: 92 Week 5 Assignment 5: 92 Week 6 Assignment 6: 100 Week 7 Assignment-7: 100 Week 8 Assignment-8: 100

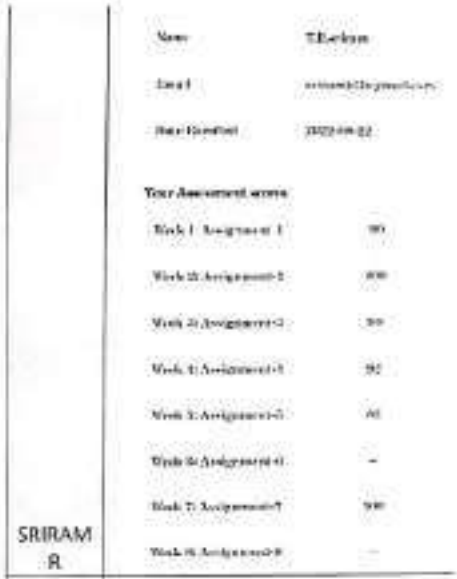
SHARMIKA R

SHASHANK S

SIVADHARANI M

SOWMIYA P J

SRIRAM R



SUJITH V

Name	SUJITH.V
Email	sujithvmsh.en77@gmail.com
Date Enrolled	2022-08-22

Your Assessment scores

Week 1: Assignment 1	--
Week 2: Assignment-2	100
Week 3: Assignment-3	90
Week 4: Assignment-4	100
Week 5: Assignment-5	92
Week 6: Assignment-6	100
Week 7: Assignment-7	100
Week 8: Assignment-8	100

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022 - 2023 ODD SEMESTER
NPTEL Swayam

YEAR / SEM: III / V
NAME OF A COURSE: Introduction to Internet of Things

ABOUT THE COURSE :

Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT-based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology.

Summary
Course Status :Upcoming
Course Type : Elective
Duration : 12 weeks
Start Date : 23 Jan 2023
End Date : 14 Apr 2023
Exam Date :30 Apr 2023 IST
Enrollment Ends :30 Jan 2023

Category :
Computer Science and Engineering
Systems
Programming
Credit Points :3
Level : Undergraduate
FacebookTwitterEmailLinkedInWhatsAppShare

Course layout

Week 1: Introduction to IoT

- Part I, Part II, Sensing, Actuation
- Basics of Networking: Part-I

Week 2: Basics of Networking

- Part-II, Part III, Part IV,
- Communication Protocols: Part I, Part II

Week 3: Communication Protocols

- Part III, Part IV, Part V,
- Sensor Networks: Part I, Part II

Week 4: Sensor Networks

- Part III, Part IV, Part V, Part VI
- Machine-to-Machine Communications

Week 5:

- Interoperability in IoT
- Introduction to Arduino Programming: Part I, Part II,
- Integration of Sensors and Actuators with Arduino
- Part I, Part II

Week 6:

- Introduction to Python programming,
- Introduction to Raspberry Pi
- Implementation of IoT with Raspberry Pi

Week 7:

- Implementation of IoT with Raspberry Pi (contd)
- Introduction to SDN
- SDN for IoT

Week 8:

- SDN for IoT (contd)
- Data Handling and Analytics
- Cloud Computing

Week 9:

- Cloud Computing(contd)
- Sensor-Cloud

Week 10:

- Fog Computing
- Smart Cities and Smart Homes

Week 11:

- Connected Vehicles
- Smart Grid
- Industrial IoT

Week 12

- Industrial IoT (contd)
- Case Study: Agriculture
- Healthcare
- Activity Monitoring

INTENDED AUDIENCE : CSE, IT, ECE, EE, Instrumentation Engg, Industrial Engineering
PREREQUISITES : Basic programming knowledge

Books and references

1) S. Misra, A. Mukherjee, and A. Roy, 2020. Introduction to IoT. Cambridge University Press.
Availability: https://www.amazon.in/Introduction-IoT-Sudip-Misra/dp/1108959741/ref=sr_1_1?dchild=1&keywords=sudip+misra&qid=1627359928&sr=8-1
2) S. Misra, C. Roy, and A. Mukherjee, 2020. Introduction to Industrial Internet of Things and Industry 4.0. CRC Press.
Availability:
https://www.amazon.in/dp/1032146753/ref=sr_1_3?dchild=1&keywords=sudip+misra&qid=1627359971&sr=8-3
3) Research Papers

SS.Pw 18/7/22

STAFF IN-CHARGE

18/7/22

HOD / CSE

Format-QP06

KINGS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (AUG' 2022 - NOV' 2022, ODD SEM)

B.E - CSE (Reg. 2017) - With Effect from 10.08.22 - Tentative Last Working Day - 19.11.22

Batch:2019-2023 Strength:6..

Year: III Semester: V Class Room : 227 Block: I

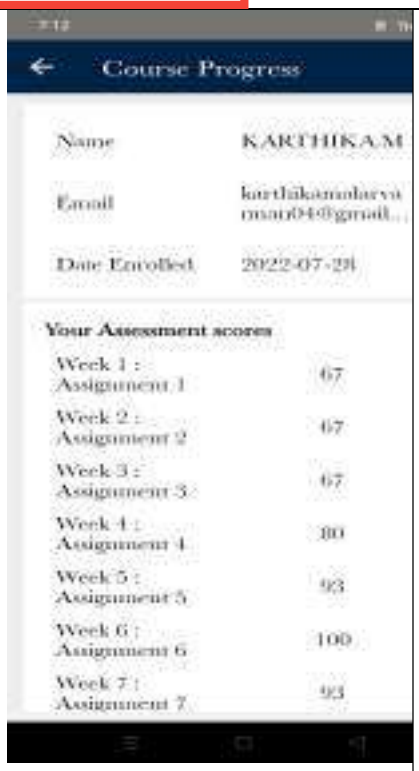
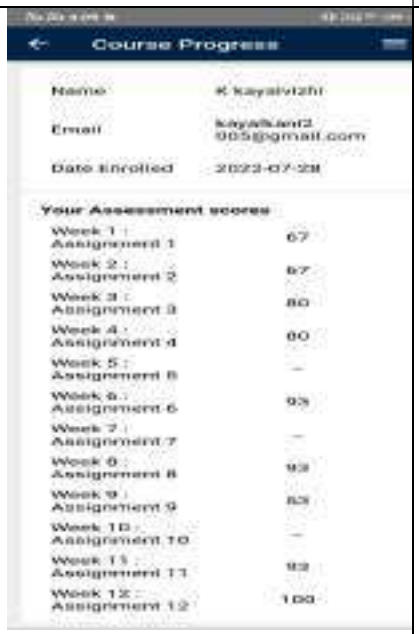
Session	1	2	10.45 am	3	4	11.30 pm	5	6	02.40 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am	11.00 am	11.00am - 11.45am	11.45am - 12.30pm	01.10 pm	01.10pm - 01.55pm	01.55pm - 02.40pm	02.50 pm	02.50pm - 03.35pm	03.35pm - 04.20pm
MON	EC8691	CS8591	BREAK	MA8551	CS8501	LUNCH BREAK	CS8582		BREAK	CS8582	
TUE	CS8501	CS8591		OMF551	CS8592		EC8691	MA8551		T&P(SS)	LIB/ NET
WED	OMF551	CS8592		CS8501	EC8691		T&P(A)	CS8592		MA8551	VAC
THU	MA8551	OMF551		CS8591	CS8501		EC8681 (B1) / CS8581 (B2)			EC8681 (B1) / CS8581 (B2)	
FRI	CS8592	CS8591		EC8691	OMF551		EC8681 (B2) / CS8581 (B1)			EC8681 (B2) / CS8581 (B1)	
SAT	VAC			GATE	MA8551		CS8501	NPTEL		CC	

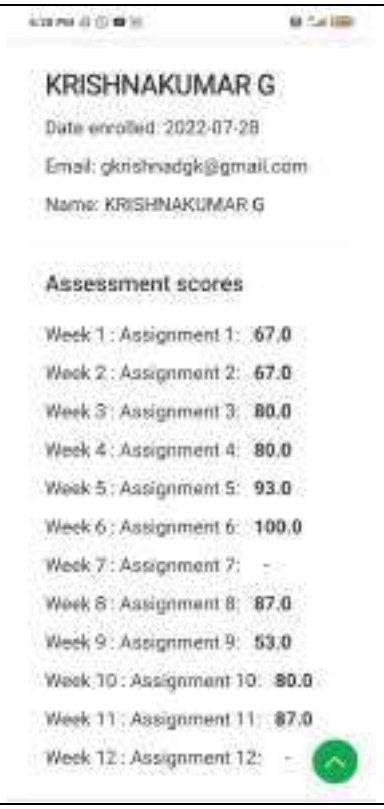
SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
			TUTORIAL (T), ELECTIVE (E)			
MA8551	Algebra and Number Theory	BS	4	Dr.G.Shankarakalidoss	MATHS	5
CS8591	Computer Networks	PC	3	Dr.S.M.Uma	CSE	4
EC8691	Microprocessor & Microcontroller	PC	3	Mr.R.Sathyaraj	CSE	4
CS8501	Theory of Computation	PC	3	Ms.S.Puvaneswari	CSE	5
CS8592	Object Oriented Analysis & Design	PC	3	Ms.N.Dhamayandhi	CSE	4
OMF551	Product Design and Development	OE	3	Ms.G.Chandrapraba	CSE	4
			PRACTICAL			
EC8681	Microprocessor & Microcontroller Lab	PC	2	Mr.R.Sathyaraj & Mr.R.Thandayuthapani	ECE	4
CS8582	Object Oriented Analysis & Design Lab	PC	2	Ms.N.Dhamayandhi & Ms.Bavithra	CSE	4
CS8581	Networks Lab	PC	2	Ms.G.Chandrapraba & Ms.S.Priyadharshini	CSE	4
			VALUE ADDITION INITIATIVES (VAI)			
CC	Certification Course on Visual Basic .Net		VAI	Ms.S.Puvaneswari & Ms.R.Suganthalakshmi	CSE	2
GATE / CE	GATE / Competitive Exam		VAI	Ms.N.Dhamayandhi / Ms.S.Priyadharshini	CSE	1
LIB/NET	Library / Internet		VAI	Ms.S.Puvaneswari	CSE	1
NPTEL	NPTEL Swayam Courses		VAI	Ms.S.Puvaneswari	CSE	1
T&P (A)	Training & Placement - Aptitude		VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		VAI	Dr.K.Sudhakar	T&P	1
VAC	Value Added Course on Micro Python for IoT		VAI	Ms.R.Suganthalakshmi & Ms.G.Chandrapraba	CSE	3

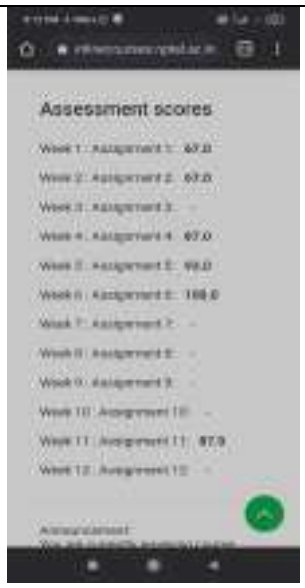
CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.S.Puvaneswari	V.Aswin	4
	J.Lavanya	27
CLASS COMMITTEE CHAIR PERSON	Ms.R.Suganthalakshmi	

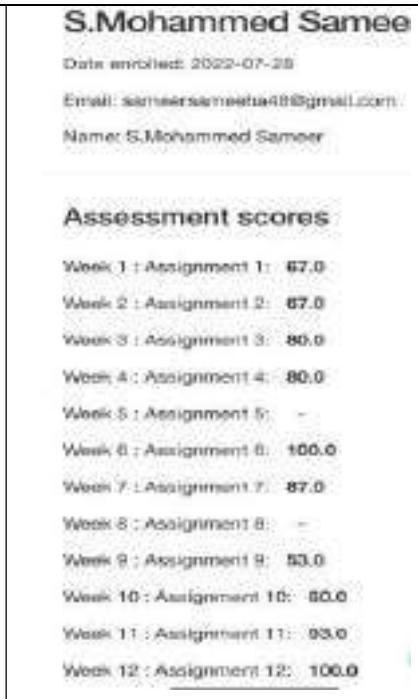
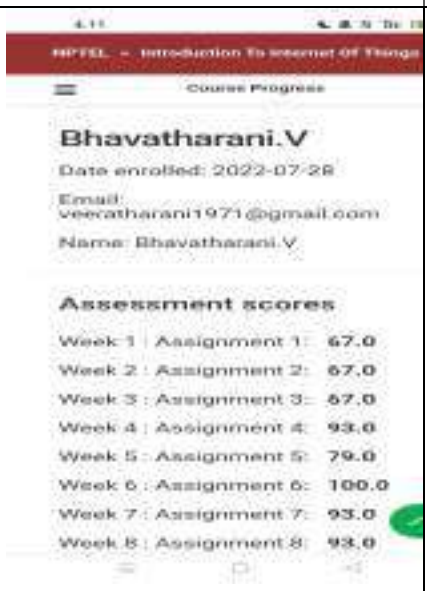
DEPT. TIC 8/8/22 HOD 8/8/22 PRINCIPAL 08/8/2022

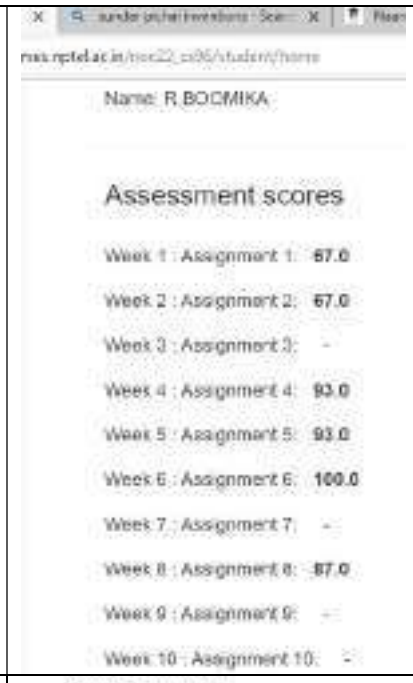
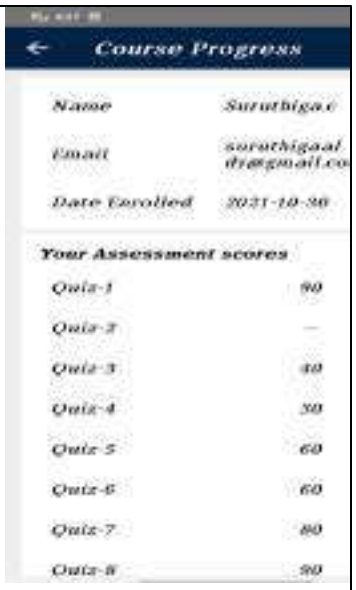
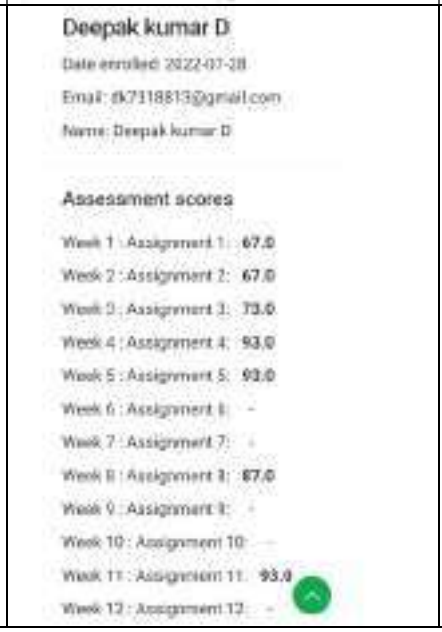
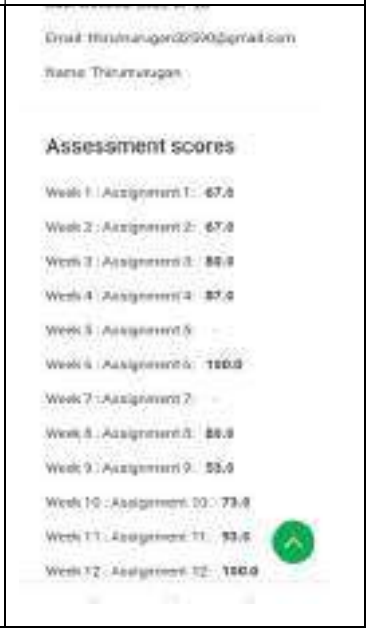
SCREENSHOTS

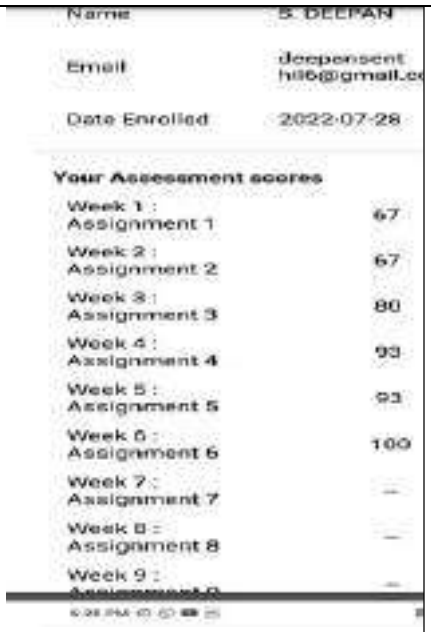
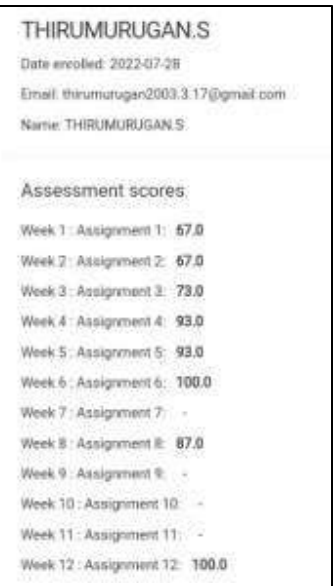
1.		23.		45.	
2.		24.		46.	

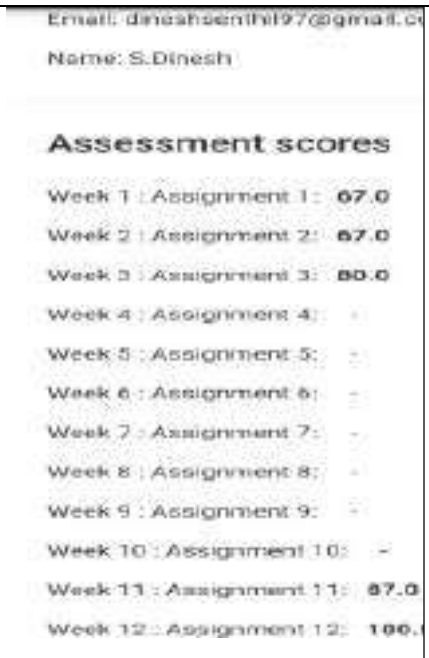
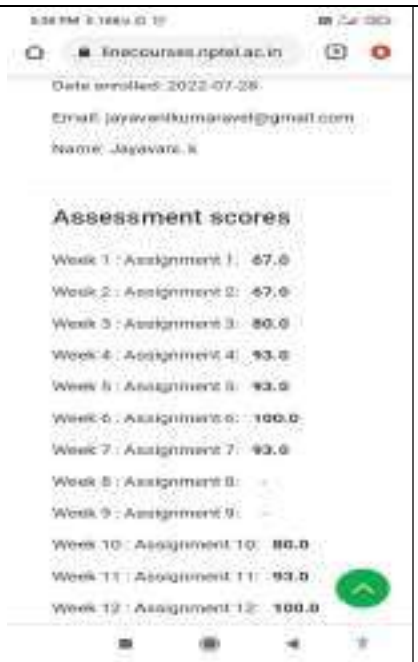
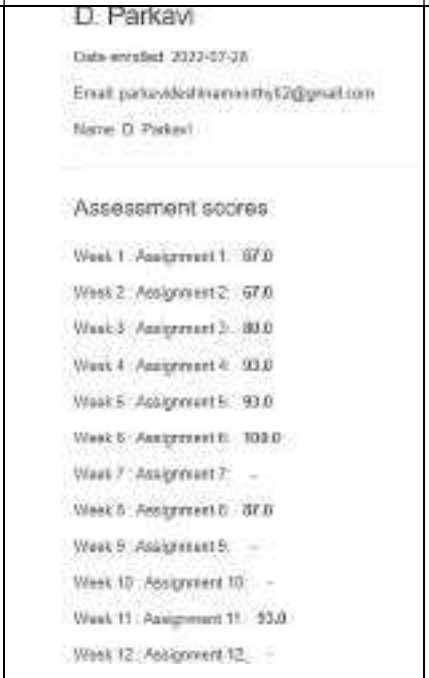
3.	Name: A.C.ARUNOTHAYA Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 80.0 Week 4 : Assignment 4: 93.0 Week 5 : Assignment 5: 93.0 Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: - Week 8 : Assignment 8: 87.0 Week 9 : Assignment 9: -	25.		47.	
4.	ASHWIN.V Date enrolled: 2022-07-28 Email: ashwindevan7@gmail.com Name: ASHWIN.V Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 80.0 Week 4 : Assignment 4: 93.0 Week 5 : Assignment 5: 93.0 Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: - Week 8 : Assignment 8: - Week 9 : Assignment 9: - Week 10 : Assignment 10: - Week 11 : Assignment 11: - Week 12 : Assignment 12: 100.0	26.		48.	

5.	ATCHAYA.R.V Assessment scores	27.	 Assessment scores	49.	Course Progress Name SNEHA E Email Date Enrolled 2022-07-28 Your Assessment scores Week 1 : Assignment 1 60 Week 2 : Assignment 2 67 Week 3 : Assignment 3 80 Week 4 : Assignment 4 93 Week 5 : Assignment 5 93 Week 6 : Assignment 6 100 Week 7 : Assignment 7
6.	Course Progress	28.	Assessment scores	50.	

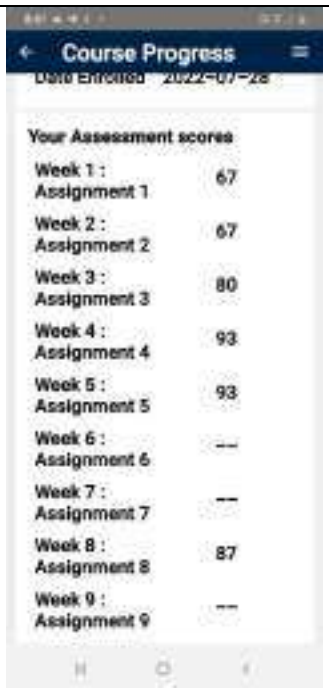
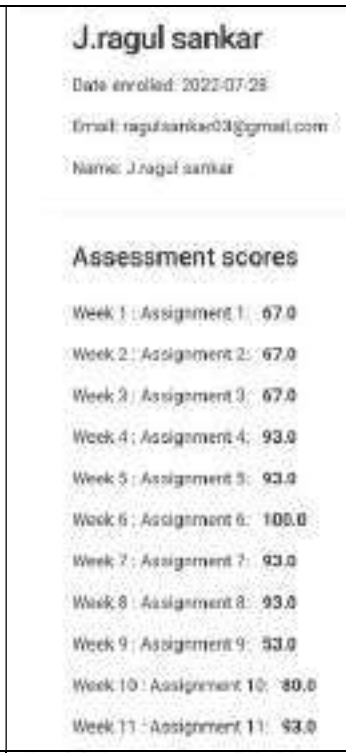
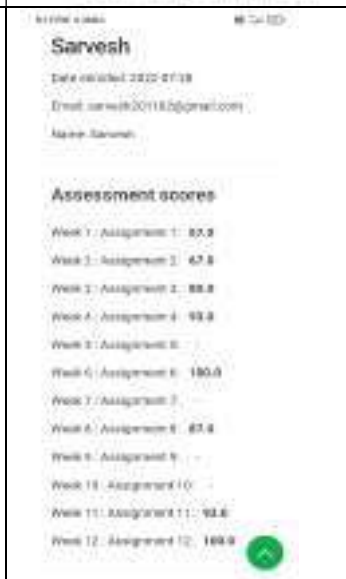
7.	Email: rajarath791@gmail.com Name: Barathraj R Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 67.0 Week 4 : Assignment 4: 80.0 Week 5 : Assignment 5: 93.0 Week 6 : Assignment 6: - Week 7 : Assignment 7: 93.0 Week 8 : Assignment 8: 87.0 Week 9 : Assignment 9: - Week 10 : Assignment 10: 80.0 Week 11 : Assignment 11: 93.0 Week 12 : Assignment 12: 87.0	29.	 S.Mohammed Samee Date enrolled: 2022-07-28 Email: sameersameelua488@gmail.com Name: S.Mohammed Sameer Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 80.0 Week 4 : Assignment 4: 80.0 Week 5 : Assignment 5: - Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: 87.0 Week 8 : Assignment 8: - Week 9 : Assignment 9: 53.0 Week 10 : Assignment 10: 80.0 Week 11 : Assignment 11: 93.0 Week 12 : Assignment 12: 100.0	51.	Course Progress
8.	 Course Progress Bhavatharani.V Date enrolled: 2022-07-28 Email: veeratharani1971@gmail.com Name: Bhavatharani.V Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 67.0 Week 4 : Assignment 4: 93.0 Week 5 : Assignment 5: 79.0 Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: 93.0 Week 8 : Assignment 8: 93.0	30.		52.	Course Progress

9.		31.		53.	
10.		32.		54.	

11.		33.		55 .	
12.		34.		56 .	

13.		35.		57.	
14.		36.		58.	

15.	Elamaran.s Date enrolled: 2022-07-28 Email: elamaran172003@gmail.com Name: Elamaran.s Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: - Week 4 : Assignment 4: 93.0 Week 5 : Assignment 5: 93.0 Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: - Week 8 : Assignment 8: - Week 9 : Assignment 9: - Week 10 : Assignment 10: - Week 11 : Assignment 11: - Week 12 : Assignment 12: -	37.	A. prakash Assessment scores	59.	M.vasinya Assessment scores
16.	Date enrolled: 2022-07-28 Email: vaseswar92@gmail.com Name: ESWAR S Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: - Week 4 : Assignment 4: 93.0 Week 5 : Assignment 5: 93.0 Week 6 : Assignment 6: - Week 7 : Assignment 7: - Week 8 : Assignment 8: 87.0 Week 9 : Assignment 9: - Week 10 : Assignment 10: - Week 11 : Assignment 11: - Week 12 : Assignment 12: -	38.	Course Progress	60.	Course Progress

17.		39.		61.	
18.		40.		62.	

19.	Name D.GUHAN Email guhanvika Date Enrolled 2022-07-2 **Your Assessment scores** Week 1 : Assignment 1 Week 2 : Assignment 2 Week 3 : Assignment 3 Week 4 : Assignment 4 Week 5 : Assignment 5 Week 6 : Assignment 6 Week 7 : Assignment 7 Week 8 : Assignment 8 Week 9 : Assignment 9 Week 10 : Assignment 10 Week 11 : Assignment 11 Week 12 : Assignment 12		41.		63.	

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 ODD SEMESTER

SWAYAM COURSE - SYLLABUS

Introduction to Cyber Security

Internet has led to widespread and drastic changes in our lives. Due to its reach and coverage, more and more processes and activities in organizations large and small are shifting online. Banking and Communication sectors are just a couple of glaring examples of this development. However, the ease of use brought about by computers has brought with it a significant rise in malicious attacks on digital devices and software systems. With increased dependence on computers and Internet, organizations are constantly exposed to high levels of business, operational and strategic risks. Hence, it is a challenge for these organizations to protect their data and systems from unauthorized access. This foundation program is geared towards generating and enhancing awareness about cyber security challenges and the concepts of cyber security and cyber ethics among the stake holders to help them become responsible cyber citizens and participate safely and securely in the rapidly evolving information-age society. This course is in line with the directions of UGC to introduce an elementary course in cyber security at UG and PG level across all the Indian Universities/ Institutions. Thus, the course aims to address information gaps among people with respect to cyber security and can be used as an foundation course in cyber security across all the Indian Universities. The course content will contain recorded videos, which are based on the syllabus designed by the experts. All the participants, who are enrolled for the course, can take the course online. Also they can download the video/text material for later use. After the completion of each lecture, the students can clarify their doubts with the instructor, who is available online. At the end of the course, the students have an option to undergo an online test which is objective in nature. On successful completion of the exam, the student shall be provided with a certificate declaring the participation and successful completion of the course by the candidate as per the guidelines

Course layout

Week 1	**Introduction to Cyber Space** History of Internet [Dr. Jeetendra Pande, Uttarakhand Open University] Cyber Crime [Dr. Jeetendra Pande, Uttarakhand Open University] Information Security [Dr. Jeetendra Pande, Uttarakhand Open University] Computer Ethics and Security Policies [Dr. Jeetendra Pande, Uttarakhand Open University] Quiz
Week 2	**Choosing the Best Browser according to the requirement and email security** Guidelines to choose web browsers [Mr. Arun Kumar- CISSP] Securing web browser [Mr. Arun Kumar- CISSP] Antivirus [Mr. Arun Kumar- CISSP]

	Email security [Dr. Ajay Prasad, UPES, Dehradun] Quiz
Week 3	**Guidelines for secure password and wi-fi security** Guidelines for setting up a Secure password [Mr. Arun Kumar- CISSP] Two-steps authentication [Mr. Arun Kumar- CISSP] Password Manager [Mr. Arun Kumar- CISSP] Wi-Fi Security [Dr. Jeetendra Pande] Quiz
Week 4	**Guidelines for social media and basic Windows security** Guidelines for social media security [Dr. V.V. Rao, Scientist- CERT-In] Tips and best practices for safer Social Networking [Dr. V..V. Rao, Scientist- CERT-In] Basic Security for Windows [Dr. Jeetendra Pande, Uttarakhand Open University] User Account Password [Dr. Jeetendra Pande, Uttarakhand Open University] Quiz
Week 5	**Smartphone security guidelines** Introduction to mobile phones [Dr. Jeetendra Pande, Uttarakhand Open University] Smartphone Security [Dr. Jeetendra Pande, Uttarakhand Open University] Android Security [Dr. Jeetendra Pande, Uttarakhand Open University] IOS Security [Dr. Jeetendra Pande, Uttarakhand Open University] Quiz
Week 6	**Cyber Security Initiatives in India** Counter Cyber Security Initiatives in India [Mr. Ashutosh Bahuguna- Scientist- CERT-In] Cyber Security Exercise [Mr. Ashutosh Bahuguna- Scientist- CERT-In] Cyber Security Incident Handling [Mr. Ashutosh Bahuguna- Scientist- CERT-In] Cyber Security Assurance [Mr. Ashutosh Bahuguna- Scientist- CERT-In] Quiz
Week 7	**Online Banking, Credit Card and UPI Security** Online Banking Security [Dr. Jeetendra Pande, Uttarakhand Open University] Mobile Banking Security [Dr. Jeetendra Pande, Uttarakhand Open University] Security of Debit and Credit Card [Dr. Jeetendra Pande, Uttarakhand Open University] UPI Security [Dr. Jeetendra Pande, Uttarakhand Open University] Quiz
Week 8	**Micro ATM, e-wallet and POS Security** Security of Micro ATMs [Dr. Jeetendra Pande, Uttarakhand Open University] e-wallet Security Guidelines [Dr. Jeetendra Pande, Uttarakhand Open University] Security Guidelines for Point of Sales(POS) [Dr. Jeetendra Pande, Uttarakhand Open University] Quiz
Week 9	**Social Engineering** Social Engineering [Dr. Jeetendra Pande, Uttarakhand Open University] Types of Social Engineering [Dr. Jeetendra Pande,Uttarakhand Open University] How Cyber Criminal Works [Er. Jayash Sharma, Anand Engineering College] How to prevent for being a victim of Cyber Crime [Er. Jayash Sharma, Anand Engineering College] Quiz

Week 10	**Cyber Security Threat Landscape and Techniques** Cyber Security Threat Landscape [Dr. A Murli Rao, IGNOU] Emerging Cyber Security Threats [Dr. A Murli Rao, IGNOU] Cyber Security Techniques [Ms. Tripti Misra and Ms. Shahina Anwaru, Assistant Professor- UPES, Dehradun] Firewall [Dr. Ajay Prasad, UPES, Dehradun] Quiz

Books and references

1. Introduction to Cyber Security available at http://www.ac.in/[illegible]
2. Fundamentals of Information Security http://www.ac.in/progdetail/pid/[illegible]
3. Cyber Security Techniques http://www.ac.in/progdetail/pid/[illegible]
4. Cyber Attacks and Counter Measures: User Perspective http://www.ac.in/progdetail/pid/[illegible]
5. Information System http://www.ac.in/progdetail/pid/[illegible]

Staff in-charge

HOD/CSE

Format-QP06

KINGS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (AUG' 2022 - NOV' 2022, ODD SEM)

B.E – CSE (Reg. 2017) - With Effect from 10.08.22 - Tentative Last Working Day - 19.11.22

Batch:2019-2023 | Strength:50

Year: IV | Semester: VII | Class Room : 225 | Block: I

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	CS8073/ GE8071	OME752	BREAK	MG8591	LIB/NET	LUNCH BREAK	CS8791	RC	BREAK	RC	
TUE	CS8792	MG8591		CS8073/ GE8071	T&P(A)		HX8001			HX8001	
WED	OME752	CS8792		CS8073/ GE8071	CS8791		CS8711			CS8711	
THU	CS8791	OME752		CS8792	MG8591		IT8761			IT8761	
FRI	OME752	CS8073/ GE8071		PROJ			CS8792	T&P(SS)		CS8791	MG8591
SAT	MG8591	CS8073/ GE8071		CS8792	OME752		CS8791	CS8792		NPTEL	CS8791

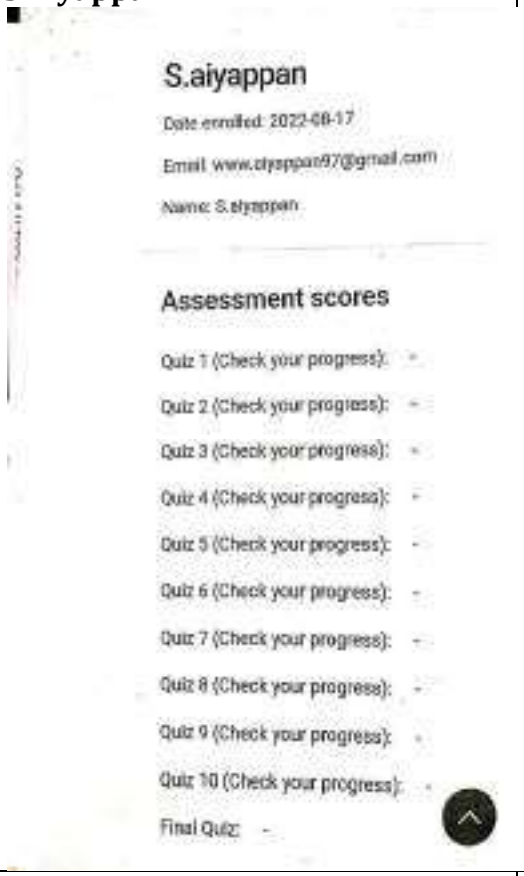
SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	TUTORIAL (T), ELECTIVE (E)					
MG8591	Principles of Management	HS	3	Dr.K.Sudhakar	MGMT	5
CS8792	Cryptography and Network Security	PC	3	Mr.S.Rajarajan	CSE	6
CS8791	Cloud Computing	PC	3	Ms.P.Nalayini	CSE	6
OME752	Supply Chain Management	OE	3(OE2)	Ms.R.Suganthalakshmi	CSE	5
HX8001	Professional Readiness for Innovation Employability and Entrepreneurship	PE	3(PE2)	Ms.S.Puvaneswari & Mr.M.Arun	CSE	4
CS8073	C# and .Net Programming	PE	3(PE3)	Mr.S.Senthilnathan	CSE	5
GE8071	Disaster Management	PE	3(PE3)	Mr.B.Sureshbabu	MGMT	5
	PRACTICAL					
CS8711	Cloud Computing Laboratory	PC	2	Ms.P.Nalayini & Ms.S.Puvaneswari	CSE	4
IT8761	Security Laboratory	PC	2	Mr.S.Rajarajan & Mr.S.Senthilnathan	CSE	4
	VALUE ADDITION INITIATIVES (VAI)					
LIB/NET	Library / Internet	VAI		Ms.R.Suganthalakshmi	CSE	1
NPTEL	NPTEL Swayam Courses	VAI		Ms.R.Suganthalakshmi	CSE	1
PROJ	Project Phase I	VAI		Ms.R.Suganthalakshmi	CSE	2
RC	Refresher Course on "C" Programming	VAI		Mr.S.Rajarajan & Ms.G.Chandrapraba	CSE	3
T&P (A)	Training & Placement - Aptitude	VAI		Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill	VAI		Mr.B.Sureshbabu		1

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.R.Suganthalakshmi	N.Muralidharan S.Swetha	27 40
CLASS COMMITTEE CHAIR PERSON	Mr.M.Arun	

DEPT. TTC 8/8/22 | HOD 8/8/22 | PRINCIPAL

SCREENSHOTS

1. **S.Aiyappan**



S.aiyappan

Date enrolled: 2022-08-17

Email: www.ayappan97@gmail.com

Name: S.aiyappan

Assessment scores

Quiz 1 (Check your progress): -

Quiz 2 (Check your progress): -

Quiz 3 (Check your progress): -

Quiz 4 (Check your progress): -

Quiz 5 (Check your progress): -

Quiz 6 (Check your progress): -

Quiz 7 (Check your progress): -

Quiz 8 (Check your progress): -

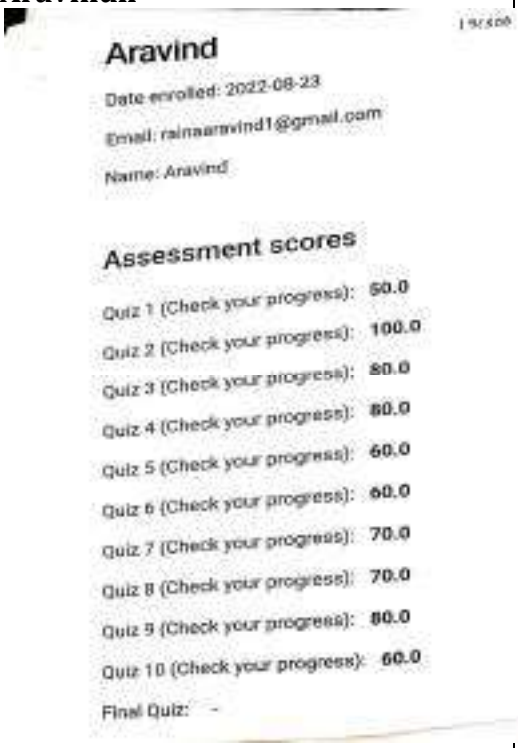
Quiz 9 (Check your progress): -

Quiz 10 (Check your progress): -

Final Quiz: -

2. **Ajay**

3. **Aravindh**



Aravind

Date enrolled: 2022-08-23

Email: rainaaravind1@gmail.com

Name: Aravind

Assessment scores

Quiz 1 (Check your progress): 50.0

Quiz 2 (Check your progress): 100.0

Quiz 3 (Check your progress): 80.0

Quiz 4 (Check your progress): 80.0

Quiz 5 (Check your progress): 60.0

Quiz 6 (Check your progress): 60.0

Quiz 7 (Check your progress): 70.0

Quiz 8 (Check your progress): 70.0

Quiz 9 (Check your progress): 80.0

Quiz 10 (Check your progress): 60.0

Final Quiz: -

4. **Avudaiappan**

5. Bakiya Lakshmi

Name: Bakiya Lakshmi . A

Reg no: 08

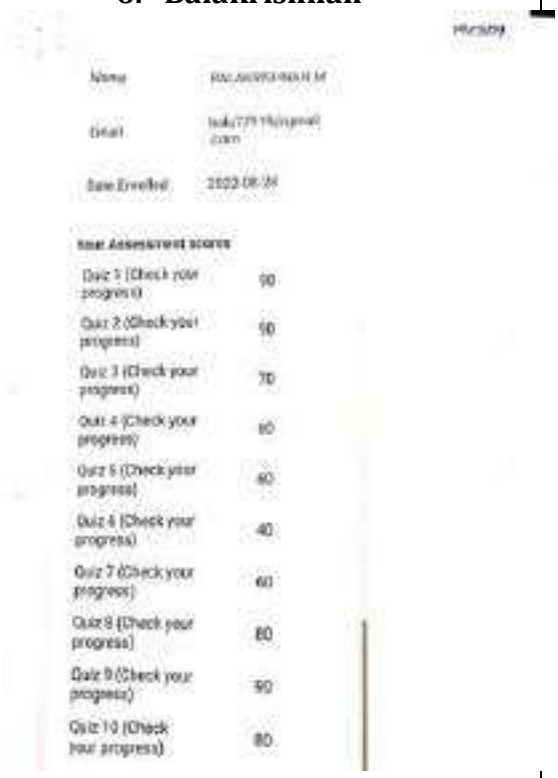
Email: bakyacs.19@gmail.com

Date Enrolled: 2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	70
Quiz 2 (Check your progress)	80
Quiz 3 (Check your progress)	50
Quiz 4 (Check your progress)	90
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100
Quiz 9 (Check your progress)	100
Quiz 10 (Check your progress)	90

6. Balakrishnan



Name

Email

Date Enrolled

Your Assessment scores

Quiz 1 (Check your progress)	90
Quiz 2 (Check your progress)	90
Quiz 3 (Check your progress)	70
Quiz 4 (Check your progress)	60
Quiz 5 (Check your progress)	60
Quiz 6 (Check your progress)	40
Quiz 7 (Check your progress)	60
Quiz 8 (Check your progress)	80
Quiz 9 (Check your progress)	90
Quiz 10 (Check your progress)	80

7. Bavya S

Bavya.S

Assessment scores

Quiz 8 (Check your progress) 90.0

Quiz 9 (Check your progress) 100.0

Quiz 10 (Check your progress) 100.0

8. Bhavatharani

Bhavatharani.T

Date enrolled: 2022-08-17

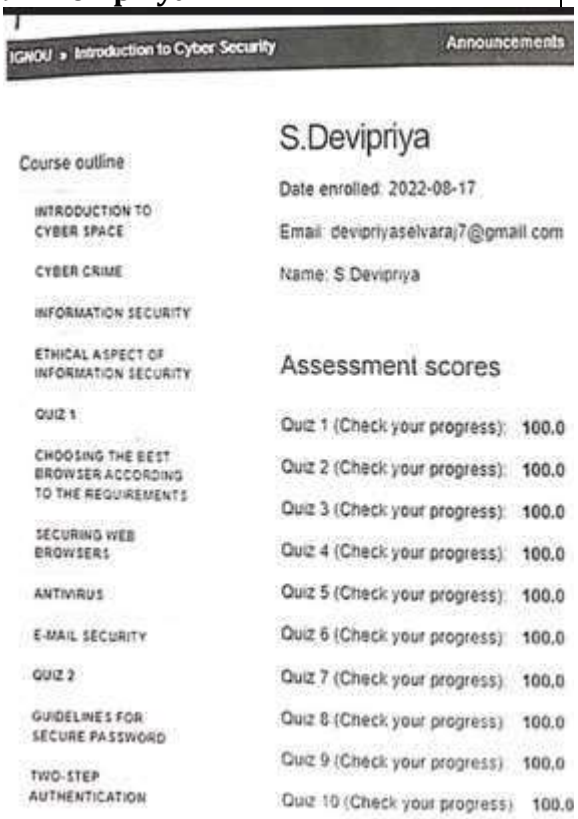
Email: Bhavatharani2001@gmail.com

Name: Bhavatharani.T

Assessment scores

Quiz 1 (Check your progress):	90.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	100.0
Quiz 4 (Check your progress):	100.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	90.0
Quiz 9 (Check your progress):	40.0
Quiz 10 (Check your progress):	100

9. Devipriya



IGNOU » Introduction to Cyber Security — Announcements

Course outline

- INTRODUCTION TO CYBER SPACE
- CYBER CRIME
- INFORMATION SECURITY
- ETHICAL ASPECT OF INFORMATION SECURITY
- QUIZ 1
- CHOOSING THE BEST BROWSER ACCORDING TO THE REQUIREMENTS
- SECURING WEB BROWSERS
- ANTIVIRUS
- E-MAIL SECURITY
- QUIZ 2
- GUIDELINES FOR SECURE PASSWORD
- TWO-STEP AUTHENTICATION

S.Devipriya

Date enrolled: 2022-08-17

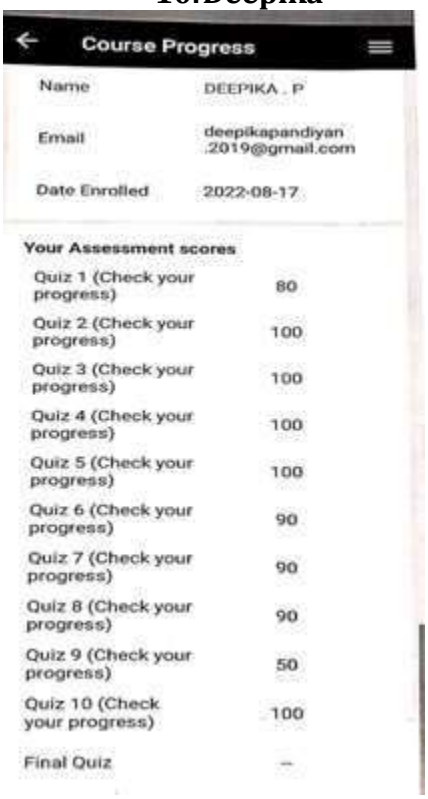
Email: devipriyaselvaraj7@gmail.com

Name: S.Devipriya

Assessment scores

Quiz 1 (Check your progress):	100.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	100.0
Quiz 4 (Check your progress):	100.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	100.0
Quiz 9 (Check your progress):	100.0
Quiz 10 (Check your progress):	100.0

10. Deepika



Course Progress

Name	DEEPIKA . P
Email	deepikapandiyan .2019@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	80
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	100
Quiz 4 (Check your progress)	100
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	90
Quiz 7 (Check your progress)	90
Quiz 8 (Check your progress)	90
Quiz 9 (Check your progress)	50
Quiz 10 (Check your progress)	100
Final Quiz	–

11. Dharani G

Name	Dharani G
Email	[illegible] 1910@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	90
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	60
Quiz 4 (Check your progress)	90
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100
Quiz 9 (Check your progress)	100
Quiz 10 (Check your progress)	90

12. Elayadharani

Course Progress

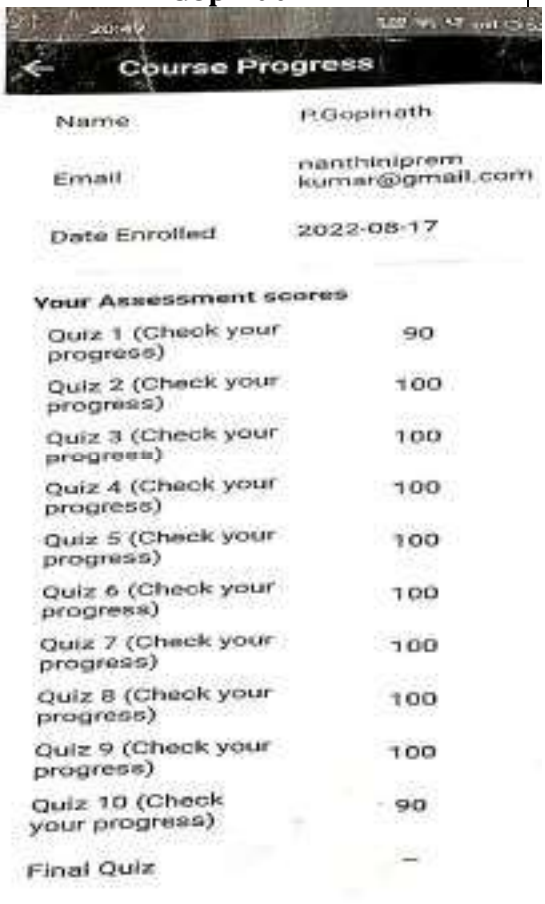
Name	[illegible]
Email	[illegible] 03602@gmail.com
Date Enrolled	2022-08-23

Your Assessment scores

Quiz 1 (Check your progress)	80
Quiz 2 (Check your progress)	60
Quiz 3 (Check your progress)	60
Quiz 4 (Check your progress)	80
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100
Quiz 9 (Check your progress)	100

13. Fasila Afreen

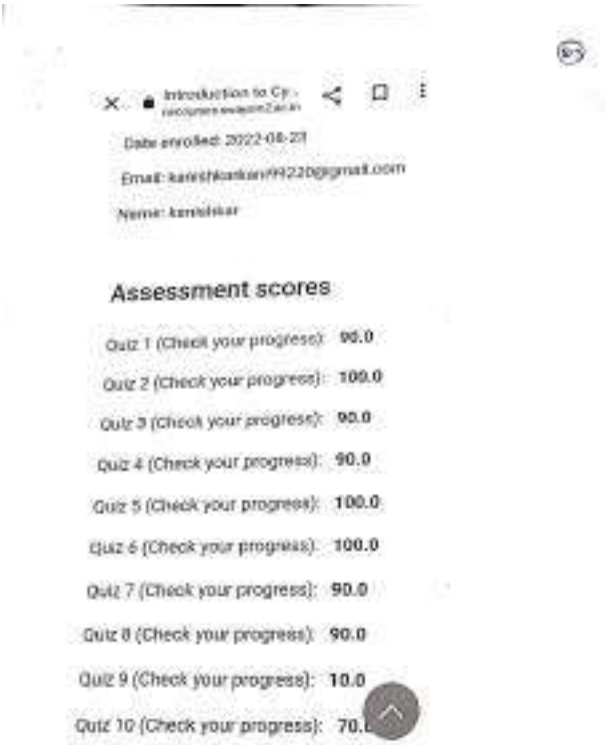
14. Gopinath P



15. Govindharajan

16. Kamali

17. Kanishkar



Introduction to Cy...

Date enrolled: 2022-08-23

Email: kanishkankan99220@gmail.com

Name: kanishkar

Assessment scores

Quiz 1 (Check your progress): 90.0

Quiz 2 (Check your progress): 100.0

Quiz 3 (Check your progress): 90.0

Quiz 4 (Check your progress): 90.0

Quiz 5 (Check your progress): 100.0

Quiz 6 (Check your progress): 100.0

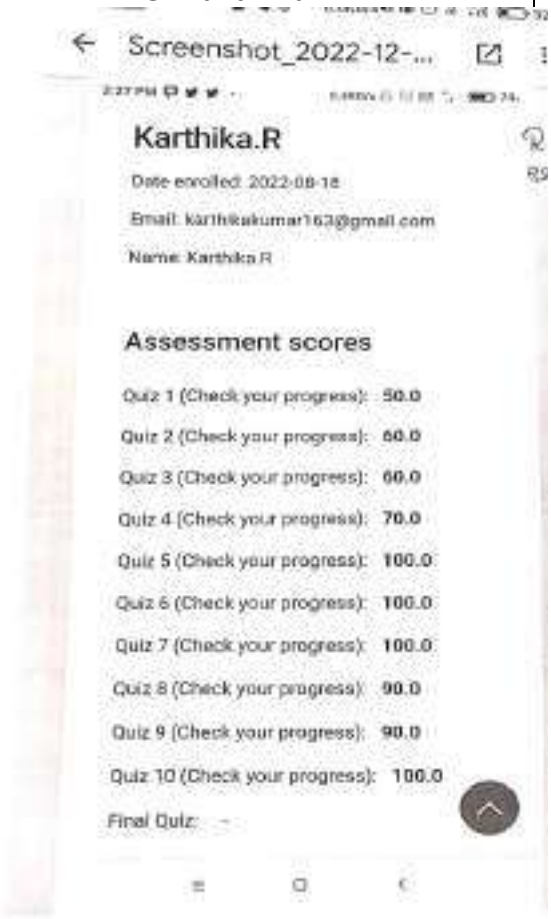
Quiz 7 (Check your progress): 90.0

Quiz 8 (Check your progress): 90.0

Quiz 9 (Check your progress): 10.0

Quiz 10 (Check your progress): 70.0

18. Karthika R



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Karthika.R

Date enrolled: 2022-08-16

Email: karthikakumar163@gmail.com

Name: Karthika R

Assessment scores

Quiz 1 (Check your progress): 50.0

Quiz 2 (Check your progress): 60.0

Quiz 3 (Check your progress): 60.0

Quiz 4 (Check your progress): 70.0

Quiz 5 (Check your progress): 100.0

Quiz 6 (Check your progress): 100.0

Quiz 7 (Check your progress): 100.0

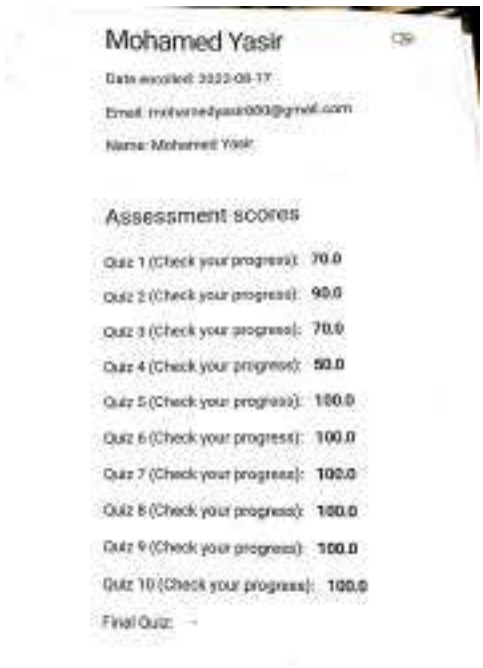
Quiz 8 (Check your progress): 90.0

Quiz 9 (Check your progress): 90.0

Quiz 10 (Check your progress): 100.0

Final Quiz: -

19. Mohamid Yasir



Mohamed Yasir

Date enrolled: 2022-08-17

Email: mohamedyasir000@gmail.com

Name: Mohamed Yasir

Assessment scores

Quiz 1 (Check your progress): 70.0

Quiz 2 (Check your progress): 90.0

Quiz 3 (Check your progress): 70.0

Quiz 4 (Check your progress): 50.0

Quiz 5 (Check your progress): 100.0

Quiz 6 (Check your progress): 100.0

Quiz 7 (Check your progress): 100.0

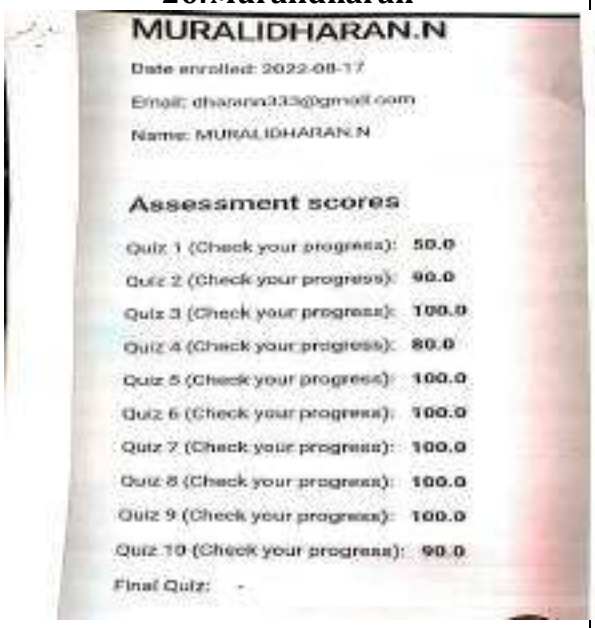
Quiz 8 (Check your progress): 100.0

Quiz 9 (Check your progress): 100.0

Quiz 10 (Check your progress): 100.0

Final Quiz: -

20. Muralidharan



MURALIDHARAN.N

Date enrolled: 2022-08-17

Email: dharan333@gmail.com

Name: MURALIDHARAN.N

Assessment scores

Quiz 1 (Check your progress): 50.0

Quiz 2 (Check your progress): 90.0

Quiz 3 (Check your progress): 100.0

Quiz 4 (Check your progress): 80.0

Quiz 5 (Check your progress): 100.0

Quiz 6 (Check your progress): 100.0

Quiz 7 (Check your progress): 100.0

Quiz 8 (Check your progress): 100.0

Quiz 9 (Check your progress): 100.0

Quiz 10 (Check your progress): 90.0

Final Quiz: -

21. Nandhini J

Name	Nandhini J
Email	nandhinicse2@gmail.com
Date Enrolled	2022-01-23

Your Assessment scores

Week 1: Assignment 1	80
Week 5: Assignment 5	80
Week 2 : Assignment 2	100
Week 4: Assignment 4	80

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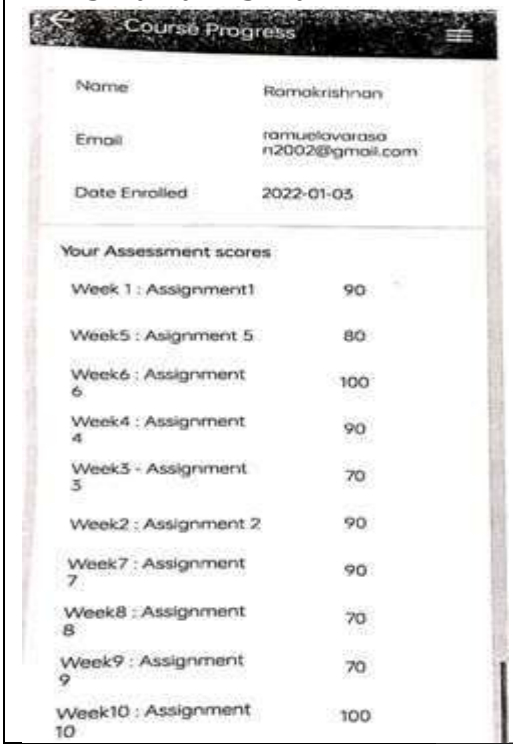
22. Priyadharshini. E

Name	E.priyadharshini
Email	priyadharshini95665@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	80
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	60
Quiz 4 (Check your progress)	60
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100

23. Ramakrishnan E

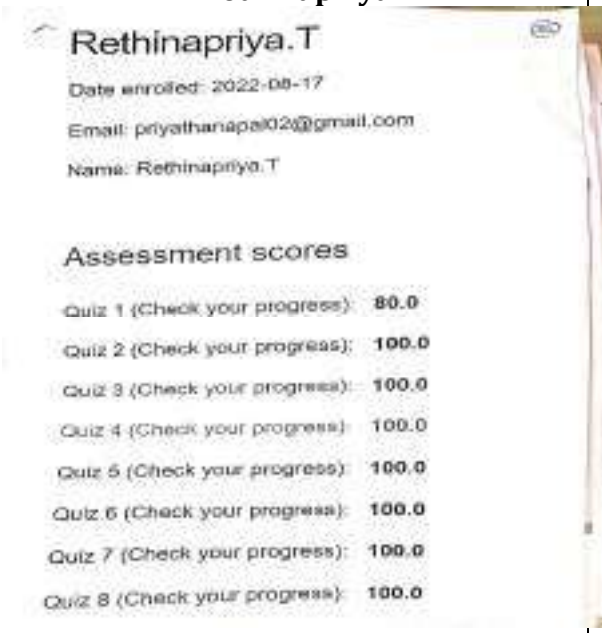


Name	Ramakrishnan
Email	ramuelovarasan2002@gmail.com
Date Enrolled	2022-01-03

Your Assessment scores

Week 1 : Assignment1	90
Week5 : Asignment 5	80
Week6 : Assignment 6	100
Week4 : Assignment 4	90
Week3 - Assignment 3	70
Week2 : Assignment 2	90
Week7 : Assignment 7	90
Week8 : Assignment 8	70
Week9 : Assignment 9	70
Week10 : Assignment 10	100

24. Rethinapriya T



Rethinapriya.T

Date enrolled: 2022-08-17

Email: priyathanapal02@gmail.com

Name: Rethinapriya.T

Assessment scores

Quiz 1 (Check your progress):	80.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	100.0
Quiz 4 (Check your progress):	100.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	100.0

25. Sathish T

Sathish. T

Date enrolled: 2022-08-17

Email: sathishprakash33@gmail.com

Name: Sathish. T

Assessment scores

Quiz 1 (Check your progress):	90.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	90.0
Quiz 4 (Check your progress):	100.0
Quiz 5 (Check your progress):	70.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	80.0
Quiz 9 (Check your progress):	100.0
Quiz 10 (Check your progress):	90.0

26.Selvabharathi

Name	SELVABHARATH
Email	selvabharathipkt2002@gmail.co
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	80
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	70
Quiz 4 (Check your progress)	60
Quiz 5 (Check your progress)	70
Quiz 6 (Check your progress)	50
Quiz 7 (Check your progress)	70
Quiz 8 (Check your progress)	70
Quiz 9 (Check your progress)	100
Quiz 10 (Check your progress)	100
Final Quiz	--

27.G.Siva

Course Progress

G.Siva

Date enrolled: 2022-02-06

Email: vethaisiva420@gmail.com

Name: G.Siva

Assessment scores

Week 1 : Assignment1:	100.0
Week5 : Assignment 5:	-
Week6 : Assignment 6:	-
Week4 : Assignment 4:	-
Week3 - Assignment 3:	70.0
Week2 : Assignment 2:	100.0
Week7 : Assignment 7:	-
Week8 : Assignment 8:	-
Week9 : Assignment 9:	-
Week10 : Assignment 10:	-

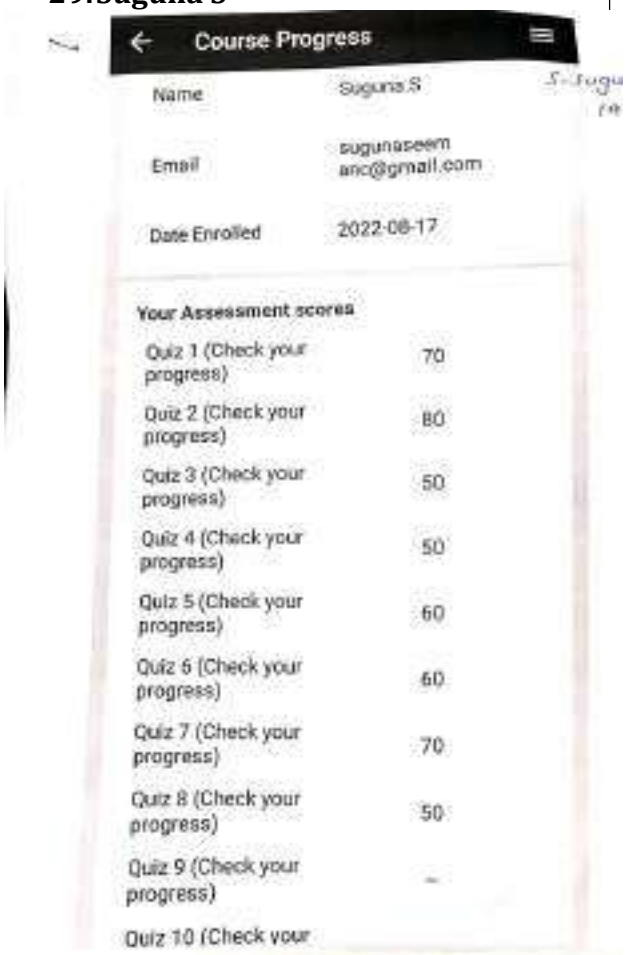
28.Sivaranjani S

Name	S.sivaranjani
Email	sshivaranjini20@gmail.com
Date Enrolled	2023-01-21

Your Assessment scores

Week 1 : Assignment 1	87
Week 2 : Assignment 2	50
Week 3 : Assignment 3	-
Week 4 : Assignment 4	69
Week 5 : Assignment 5	100
Week 6 : Assignment 6	95
Week 7 : Assignment 7	80
Week 8 : Assignment 8	-
Week 9 : Assignment 9	89
Week 10 : Assignment 10	-

29.Suguna S



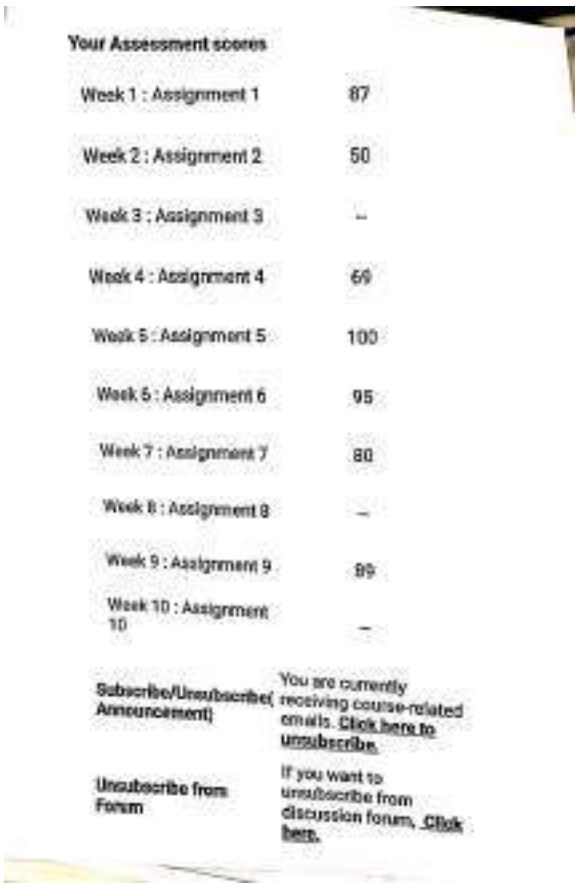
Course Progress

Name	Suguna S
Email	sugunaseemanc@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	70
Quiz 2 (Check your progress)	80
Quiz 3 (Check your progress)	50
Quiz 4 (Check your progress)	50
Quiz 5 (Check your progress)	60
Quiz 6 (Check your progress)	60
Quiz 7 (Check your progress)	70
Quiz 8 (Check your progress)	50
Quiz 9 (Check your progress)	–
Quiz 10 (Check your	

30.Sureshkarthik



Your Assessment scores

Week 1 : Assignment 1	87
Week 2 : Assignment 2	50
Week 3 : Assignment 3	–
Week 4 : Assignment 4	69
Week 5 : Assignment 5	100
Week 6 : Assignment 6	95
Week 7 : Assignment 7	80
Week 8 : Assignment 8	–
Week 9 : Assignment 9	99
Week 10 : Assignment 10	–

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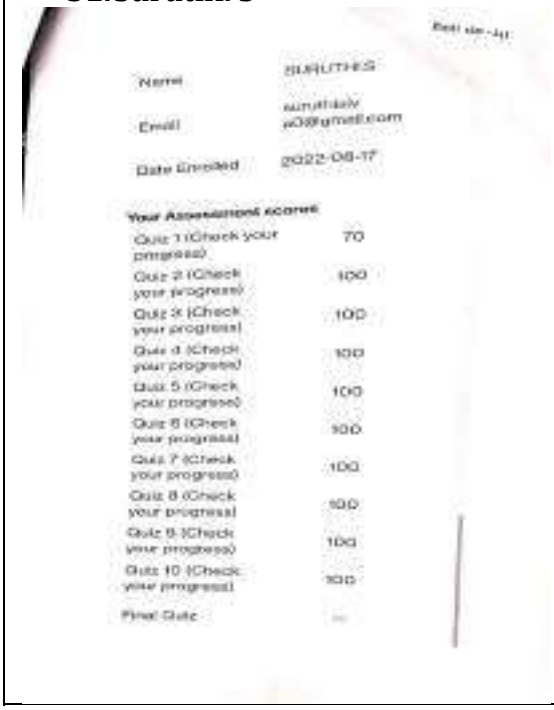
Unsubscribe from Forum	If you want to unsubscribe from discussion forum, Click here.

31.Suruthi. S



Name	SURUTHI S
Email	suruthisiv a08@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	70
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	100
Quiz 4 (Check your progress)	100
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100
Quiz 9 (Check your progress)	100
Quiz 10 (Check your progress)	100
Final Quiz	–

32.Surya A

Course Progress

Surya.A

Date enrolled: 2022-08-10

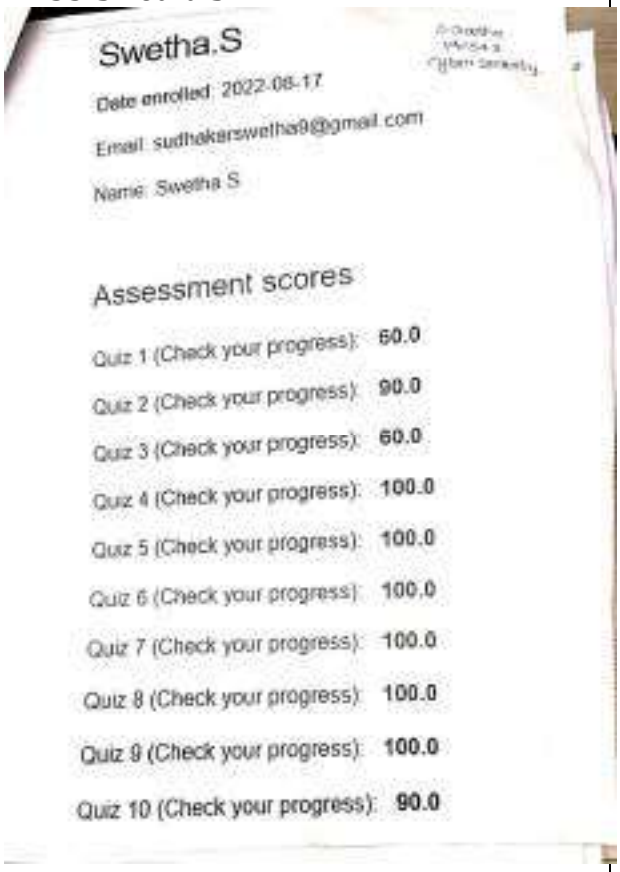
Email: [redacted]

Name: Surya.A

Assessment scores

Quiz 1 (Check your progress):	80.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	70.0
Quiz 4 (Check your progress):	40.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	90.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	100.0
Quiz 9 (Check your progress):	100.0
Quiz 10 (Check your progress):	100.0

33. Swetha S



Swetha.S

Date enrolled: 2022-08-17

Email: sudhakerswetha9@gmail.com

Name: Swetha S

Assessment scores

Quiz 1 (Check your progress):	60.0
Quiz 2 (Check your progress):	90.0
Quiz 3 (Check your progress):	60.0
Quiz 4 (Check your progress):	100.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	100.0
Quiz 9 (Check your progress):	100.0
Quiz 10 (Check your progress):	90.0

34. Vignesh K

Course Progress

Name	Vignesh K
Email	vigneshkv83@gmail.com
Date Enrolled	2022-08-17

Your Assessment scores

Quiz 1 (Check your progress)	60
Quiz 2 (Check your progress)	100
Quiz 3 (Check your progress)	100
Quiz 4 (Check your progress)	100
Quiz 5 (Check your progress)	100
Quiz 6 (Check your progress)	100
Quiz 7 (Check your progress)	100
Quiz 8 (Check your progress)	100
Quiz 9 (Check your progress)	100
Quiz 10 (Check your progress)	100
Final Quiz	-

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Unsubscribe from forum	If you want to unsubscribe from discussion forum, **Click here.**

35. Varun

Varun.K

Date enrolled: 2023-01-23

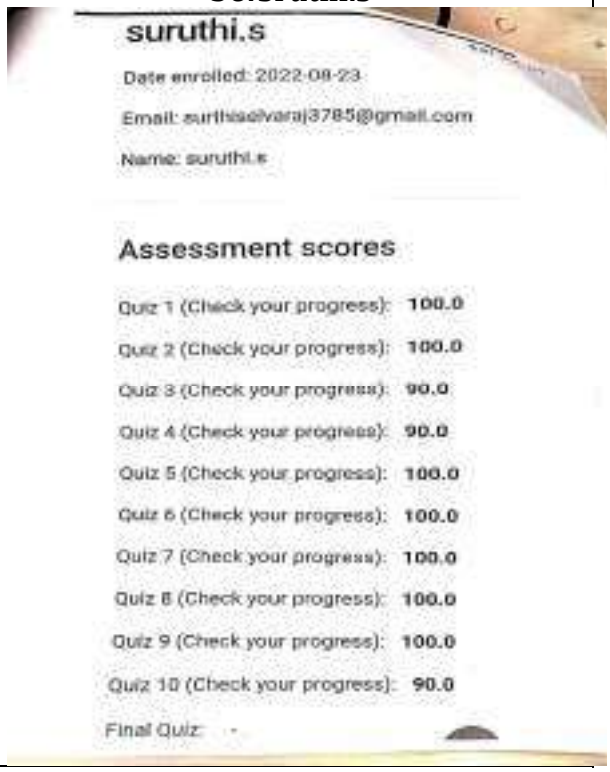
Email: varunmuley1810@gmail.com

Name: Varun.K

Assessment scores

Week 1 : Assignment 1:	87.0
Week 2 : Assignment 2:	55.0
Week 3 : Assignment 3:	-
Week 4 : Assignment 4:	79.0
Week 5 : Assignment 5:	-
Week 6 : Assignment 6:	-
Week 7 : Assignment 7:	80.0
Week 8 : Assignment 8:	-
Week 9 : Assignment 9:	-
Week 10 : Assignment 10:	-

36. Sruthi.S



suruthi.s

Date enrolled: 2022-08-23

Email: surthiselvaraj3785@gmail.com

Name: suruthi.s

Assessment scores

Quiz 1 (Check your progress):	100.0
Quiz 2 (Check your progress):	100.0
Quiz 3 (Check your progress):	90.0
Quiz 4 (Check your progress):	90.0
Quiz 5 (Check your progress):	100.0
Quiz 6 (Check your progress):	100.0
Quiz 7 (Check your progress):	100.0
Quiz 8 (Check your progress):	100.0
Quiz 9 (Check your progress):	100.0
Quiz 10 (Check your progress):	90.0
Final Quiz:	-

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022– 23 ODD SEMESTER

ADD ON COURSE – REPORT

Course Details

Name of the course	Duration of the course	Faculty Instructor	Start Date
Swayam courses on **"BIG DATA COMPUTING "**	8 WEEKS	Mr.M.ARUN	14.9.22
Swayam courses on **"INTRODUCTION TO INTERNET OF THINGS"**	12 WEEKS	Mrs.S.Puvaneshwari	1.8.22
Swayam courses on **"INTRODUCTION TO CYBER SECURITY"**	12 WEEKS	Ms.R.Sugantha Lakshmi	1.8.22

1. OBJECTIVE

- To learn a solid foundation on cyber security concepts.
- To build an essential skills on emerging technologies of iot.
- It focus on technologies available for storage, processing of big data.
- To perform a variety of analytics on differet datasets and to arrive a possitive conclusion.

2. COURSE COVERAGE

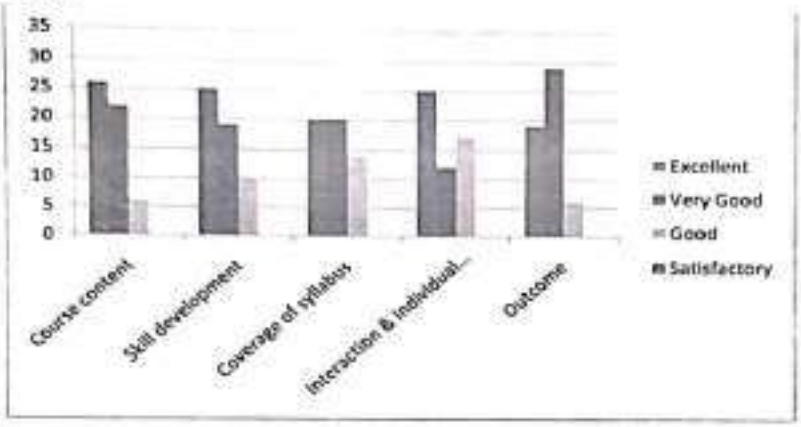
The course provided the students with

1. **Big data analytics.**
   - **Logistic linear regression using TITANIC dataset.**
   - **Decision tree and cross validation using IRIS dataset.**
2. **Introduction to internet of things**
   - **Domain specific IOTs.**
   - **IOT physical devices and end points.**
3. **Introduction to cyber security**
   - It continue to grow in sophistication, with attackers using an ever-expanding variety of tactics.
   - Reduce the risk of cyber attacks and protect against the unauthorised exploitation of systems, networks, and technologies.

3. SYLLABUS COVERAGE

NAME OF THE COURSE	NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
BIG DATA			
INTRODUCTION TO INTERNET OF THINGS	12 WEKS	12 WEEKS	12
INTRODUCTION TO CYBER SECURITY	12 WEKS	12 WEEKS	12

4. FEEDBACK



5. OUTCOME

- **Understand the basics of Big Data.**
- **Know the Enabling Technologies for Big Data.**
- **Able to understand the application areas and building blocks of internet of things and charactertics.**
- **Able to protecting computer systems from unauthorised access or being otherwise damaged or made inaccessible.**

08/12/22

COURSE COORDINATORS

08/12/22

HOD/CSE

H.O.D of Computer Science & Engineering
KINGS COLLEGE OF ENGINEERING
Punalkulam, Gandarvakottai (Tk).
Pudukottai (Dt) - 613 303.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course

on

Introduction to Cloud computing

ACADEMIC YEAR

2022-2023

KINGS COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

NAAC B++

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 EVEN SEMESTER

CIRCULAR

02.01.2023

As a part of curriculum enrichment, our department has planned to offer a CERTIFICATION COURSE courses for **II,III** year students, the students can explore the knowledge through this courses. Kindly refer the course schedule.

Course Details

Name of the course	Duration of the course	Faculty in-charge
Introduction to Cloud Computing	30hrs	Mr.M.Arun
TCS iON career Edge- Young Professional	30 hrs	Mr.M.Arun
Networking and Web Technology	30 hrs	Mr.M.Arun

Note :

- To be circulated in II,III CSE Whatsapp group
- Copy to Notice board

HOD/CSE 02/01/23

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2023– 24 EVEN SEMESTER

CERTIFICATION COURSE – REPORT

Intro to cloud computing

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
Intro to Cloud Computing	30 Hrs	II & III	Mr.M.Arun	03.01.2023

1. OBJECTIVE

To make the students

- Understand the concept of Cloud computing.
- Understand the concept of different Service deployments in Cloud computing.
- Understand the concept of cloud storage, examples and applications of cloud computing.

2. COURSE COVERAGE

The courses will cover the

- The principles of cloud architecture, models and infrastructure.
- The concepts of virtualization and virtual machines.
- knowledge about virtualization Infrastructure.
- explore the various Cloud deployment environments.
- The security issues in the cloud environment.

3. SYLLABUS COVERAGE

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
30	30	05

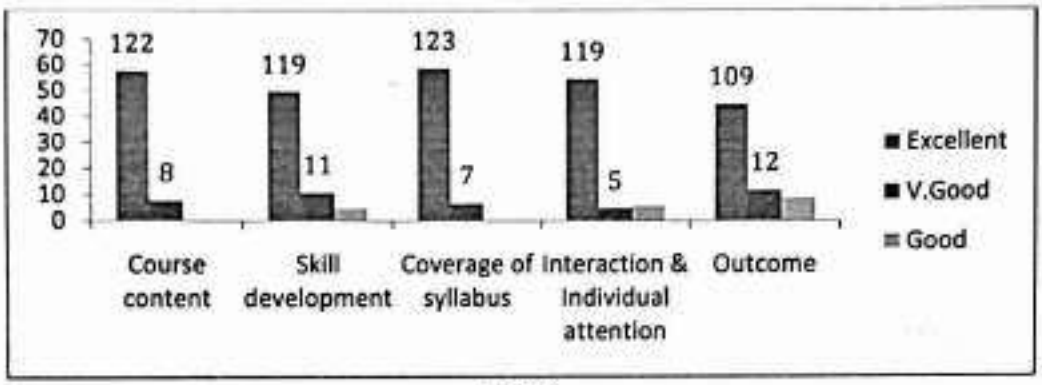
4. Completion Status

Year/Sem	Total No of Students Enrolled	Total .No of Students completed
II/IV	64	64
III/VI	66	66

5. FEEDBACK

Total Strength: 66

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	122	8		
2.	Skill development	119	11		
3.	Coverage of syllabus	123	7		
4.	Interaction & Individual attention	119	5	6	
5.	Outcome	109	12	9	
Other suggestions					



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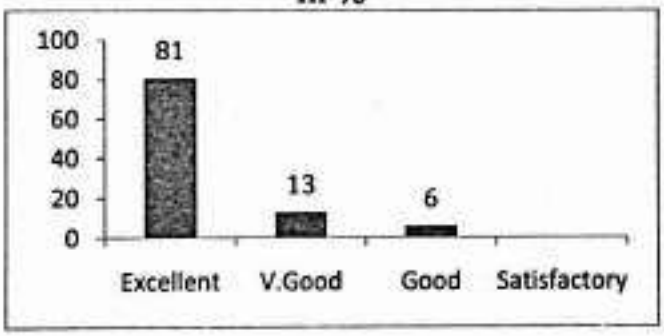

OUTCOME

The students are able to

- Gain knowledge about cloud architecture and Infrastructure
- Understand the design challenges in cloud computing.
- Identify the concepts of virtual machines
- Apply the concept of virtualization and its types.
- Explore with various Cloud deployment environments
- Develop and deploy services on the cloud and set up a cloud environment

29/5/23

29/5/23

COURSE COORDINATOR(s)

sample certificates

II CSE

Certification Course- Introduction to Cloud Computing

R.No.	Reg.No	Name of the student
1	821121104001	AAKASH S
2	821121104002	AANDAL S A

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

21CS01 Aakash S

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

Infosys | Springboard

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Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Aandal S A

for successfully completing the course

Introduction to Cloud Computing

on Saturday March 4th 2023

Infosys | Springboard

3	821121104003	AARTHI S

Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

S AARTHI

for successfully completing the course

Introduction to Cloud Computing

on Sunday, February 26th 2023

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4	821121104004	ANEES PRIYANKA V

Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Anees Priyanka Vetri

for successfully completing the course

Introduction to Cloud Computing

on Thursday, March 2nd 2023

Infosys | Springboard

Congratulations! You make us proud!

5	821121104005	ARAVIND S

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Aravind S

for successfully completing the course

Introduction to Cloud Computing

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Education, Training and Assessment (ETA)
Infosys Limited

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6	821121104006	ARUL B

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Arul Balasubramaniyan

for successfully completing the course

Introduction to Cloud Computing

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7	821121104007	ASHOK KUMAR K

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Ashok Kumar

for successfully completing the course

Introduction to Cloud Computing

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8	821121104008	ASMA S

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Asma S

for successfully completing the course

Introduction to Cloud Computing

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9	821121104009	BHARATHI P A

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Bharathi P A

for successfully completing the course

Introduction to Cloud Computing

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Senior Vice President and Head
Education, Training and Assessment (ETA)
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10	821121104010	DEEPA K

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Deepa K

for successfully completing the course

Azure Functions

on Tuesday, March 7th 2023

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Education, Training and Assessment (ETA)
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11	821121104011	DHANUSHRAJ D

12	821121104012	DHARANI R

13	821121104013	DHEVADHARSHINI M

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

DEVADHARSHINI M

for successfully completing the course

Introduction to Cloud Computing

on Sunday, February 26th 2023

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14	821121104014	GAYATHIRI S

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Gayathiri S

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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15	821121104015	GOWRISHANGARI R

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

R Gowrishangari

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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16	821121104016	HARIHARAN K

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

HARI HARAN K

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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17	821121104017	HARIHARAN S
		 Infosys Navigate your next COURSE COMPLETION CERTIFICATE The certificate is awarded to HariHaran S for successfully completing the course Introduction to Cloud Computing on Saturday, March 4th 2023 Infosys | Springboard Congratulations! You make us proud! Thirumala Aoshi
18	821121104018	HARINI V
		 Infosys Navigate your next COURSE COMPLETION CERTIFICATE The certificate is awarded to V Harini for successfully completing the course Introduction to Cloud Computing on Saturday, March 4th 2023 Infosys | Springboard Congratulations! You make us proud! Thirumala Aoshi

19	821121104019	HARI PRASATH S

20	821121104020	INDRANI M

21	821121104021	JANARTHANAN P

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Janarthanan P

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

Infosys | Springboard

Congratulations! You make us proud!

22	821121104022	JEEVA R

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Jeeva R

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

Infosys | Springboard

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23	821121104023	JEEVESH P S

Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

S Jeevesh

for successfully completing the course

Azure Functions

on Tuesday, March 7th 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

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24	821121104024	JOHARA KANI S

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Johara Kani.s

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
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Issued on: Monday, February 27th, 2023
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25	821121104025	KARTHIK V

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

V Karthik

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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26	821121104026	KEERTHANA J

Infosys

COURSE COMPLETION CERTIFICATE

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Keerthana J

for successfully completing the course

Introduction to Cloud Computing

on Saturday, March 4th 2023

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27	821121104027	KUMARESAN K P

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Kumaresan K P

for successfully completing the course

Introduction to Cloud Computing

on Wednesday, March 1st 2023

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28	821121104028	MAHESHWARI D

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

D Maheshwari

for successfully completing the course

Introduction to Cloud Computing

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29	821121104029	MANIBHARATHI V S

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Manibharathi

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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30	821121104030	MANOJ M

Infosys

COURSE COMPLETION CERTIFICATE

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MANOJ M

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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31	821121104031	MATHESH KRISHNAN M

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Mathesh Krishnan

for successfully completing the course

Introduction to Cloud Computing

on Sunday, February 26th 2023

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Education, Training and Assessment (ETA)
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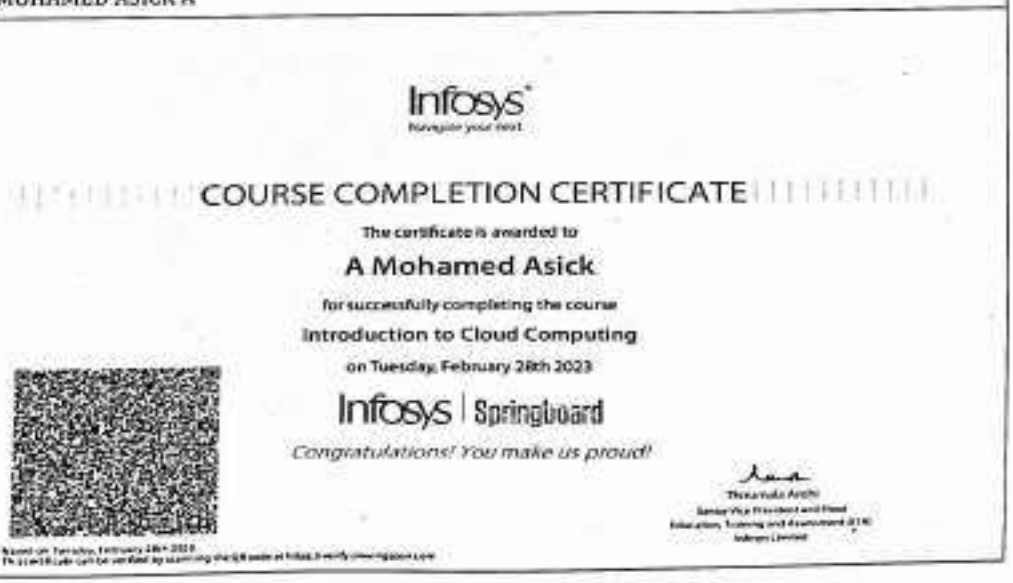
32	821121104032	MOHAMED ASICK A



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A Mohamed Asick

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33	821121104033	MOHAMED GANI M

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The certificate is awarded to

Mohamed Gani

for successfully completing the course

Introduction to Cloud Computing

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34	821121104034	MOHAMMED ALI K

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Mohammed Ali

for successfully completing the course

Introduction to Cloud Computing

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35	821121104035	MONESHWARAN S

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S Moneshwaran

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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36	821121104036	MURUGANANTHAM P

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Muruga Nantham

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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37	821121104037	MURUGESHWARI A

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The certificate is awarded to

A Murugeshwari

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Introduction to Cloud Computing

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Education, Training and Assessment (ETA)
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issued on: Tuesday, February 28th 2023
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38	821121104038	NANDHAKUMAR P

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Nandha Kumar

for successfully completing the course

Introduction to Cloud Computing

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39	821121104039	NAVEEN G
40	821121104040	NITHYASHRI B M

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

G Naveen

for successfully completing the course

Introduction to Cloud Computing

on Saturday, March 4th 2023

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Senior Vice President and Head

Education, Training and Assessment (ETA)

Infosys Limited

Issued on Saturday, March 4th 2023

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The certificate is awarded to

B M Nithyashri

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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Senior Vice President and Head

Education, Training and Assessment (ETA)

Infosys Limited

Issued on Tuesday, February 28th 2023

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41	821121104041	NOORA K M

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Noora K.M

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

42	821121104042	PRAGATHI V

Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Pragathi V

for successfully completing the course

Introduction to Cloud Computing

on Wednesday, March 1st 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

43	821121104043	PRAKASH M

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Prakash M

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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Thirumala Reddy

Senior Vice President and Head

Education, Training and Assessment (ETA)

Infosys Limited

44	821121104044	PRASANNA R

Infosys

Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Prasanna.R PrasannaRaj

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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Thirumala Reddy

Senior Vice President and Head

Education, Training and Assessment (ETA)

Infosys Limited

45	821121104045	RAHUL S

Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

S Rahul

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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46	821121104046	ROOBIGA R

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Roobiga Ravi

for successfully completing the course

Azure Functions

on Tuesday, March 7th 2023

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47	821121104047	ROOHI SHIFA M

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The certificate is awarded to

M Roohi Shifa

for successfully completing the course

Introduction to Cloud Computing

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Senior Vice President and Head
Education, Training and Assessment (ETA)
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48	821121104048	SARAVANAN K

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

K Saravanan

for successfully completing the course

Introduction to Cloud Computing

on Saturday, March 4th 2023

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Education, Training and Assessment (ETA)
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49	821121104049	SATHYA A

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A Sathya

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50	821121104050	SHALINI K

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The certificate is awarded to

Shalini K

for successfully completing the course

Introduction to Cloud Computing

on Sunday, February 26th 2023

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51	821121104051	SHARMIKA R
52	821121104052	SHASHANK S

53	821121104053	SIVADHARANI M

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Sivadharani M

for successfully completing the course

Introduction to Cloud Computing

on Saturday, March 4th 2023

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54	821121104054	SOWMIYA P J

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PJ Sowmiya

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55	821121104055	SRIRAM R

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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

R Sriram

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 28th 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

56	821121104056	SUJITH V

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

V Sujith

for successfully completing the course

Introduction to Cloud Computing

on Saturday, March 4th 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
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57	821121104057	SURENDRAN V

58	821121104058	VASANTHKUMAR K

59	821121104059	VENKATESH B

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

B Venkatesh

for successfully completing the course

Introduction to Cloud Computing

on Monday, February 27th 2023

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60	821121104060	VISHAL K

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

VISHAL K

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Introduction to Cloud Computing

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61	LE	YOKESHWARAN M
		 Infosys COURSE COMPLETION CERTIFICATE The certificate is awarded to M Yokeshwaran for successfully completing the course Introduction to Cloud Computing on Tuesday, February 28th 2023 Infosys | Springboard Congratulations! You make us proud! Thirumala Rao Senior Vice President and Head Education, Training and Assessment (ETA) Infosys Limited
62	LE	KANNA
		 Infosys Navigate your next COURSE COMPLETION CERTIFICATE The certificate is awarded to Kanna for successfully completing the course Introduction to Cloud Computing on Saturday, March 4th 2023 Infosys | Springboard Congratulations! You make us proud! Thirumala Rao Senior Vice President and Head Education, Training and Assessment (ETA) Infosys Limited

63	LE	Yuvaraj Chinnaya

Infosys

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

R Yuvaraj Chinnaiya

for successfully completing the course

Introduction to Cloud Computing

on Tuesday, February 20th 2018

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course

on

TCS – iON Edge career – Young professionals

ACADEMIC YEAR

2022-2023

KINGS COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
NAAC B++

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022– 23 EVEN SEMESTER

CERTIFICATION COURSE – REPORT

TCS ION Career edge-Young Professional

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
TCS ION Career edge-Young Professional	30 Hrs	II	Mr.M.Arun	03.01.2023

1. OBJECTIVE

To make the students

- TCS iON Career Edge - Young Professional is a free to access career preparedness course that has been designed with the intent to equip the youth of today with core employability skills to take on the future.

2. COURSE COVERAGE

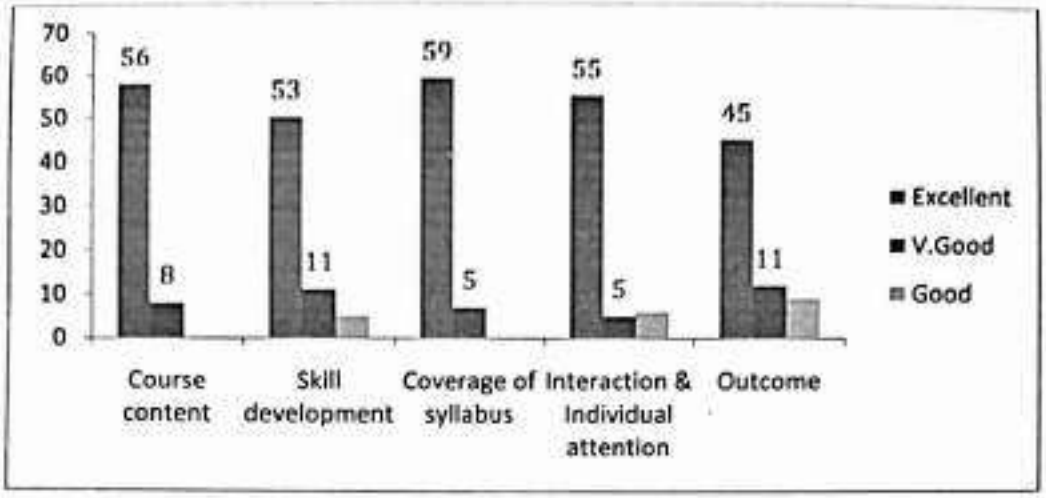
The course provided the students with

- Communication skills
- Presentation skill
- Career guidance framework
- Interview skills
- Etiquette

3. FEEDBACK

Total Strength: 64

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	56	8		
2.	Skill development	53	11		
3.	Coverage of syllabus	59	05		
4.	Interaction & Individual attention	55	5	4	
5.	Outcome	45	11	8	
Other suggestions					



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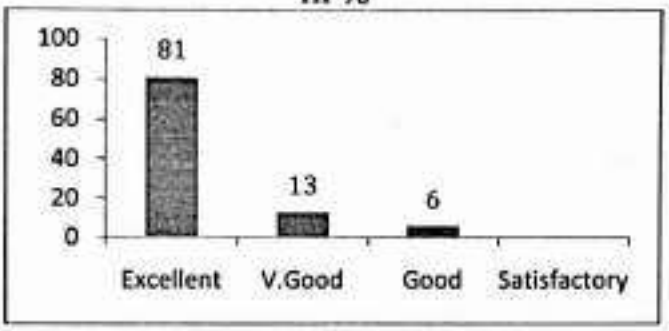


OUTCOME

The students are able to

- Gain the interview skills.
- Identify the suitable career.
- Exploring the career options.
- Expertise in the communication skills.

29/6/23

COURSE COORDINATOR(s)

29/6/23

HOD/CSE

Sample certificates

II CSE
Week Test-1
Cumulative Mark Statement

R.No.	Reg.No	Name of the student
1	821121104001	AAKASH S
2	821121104002	AANDAL S A
3	821121104003	AARTHI S
4	821121104004	ANEES PRIYANKA V

5	821121104005	ARAVIND S
6	821121104006	ARUL B

7	821121104007	ASHOK KUMAR K
8	821121104008	ASMA S

9	821121104009	BHARATHI P A
10	821121104010	DEEPA K

11	821121104011	DHANUSHRAJ D
12	821121104012	DHARANI R

13	821121104013	DHEVADHARSHINI M
14	821121104014	GAYATHIRI S

15	821121104015	GOWRISHANGARI R
16	821121104016	HARIHARAN K

17	821121104017	HARIHARAN S

TCS iON

Certificate of Achievement

HARI HARAN S

TCS iON Career Edge - Young Professional

Career Edge

18	821121104018	HARINI V

TCS iON

Certificate of Achievement

Harini Harini.V

TCS iON Career Edge - Young Professional

Career Edge

19	821121104019	HARI PRASATH S

TCS iON

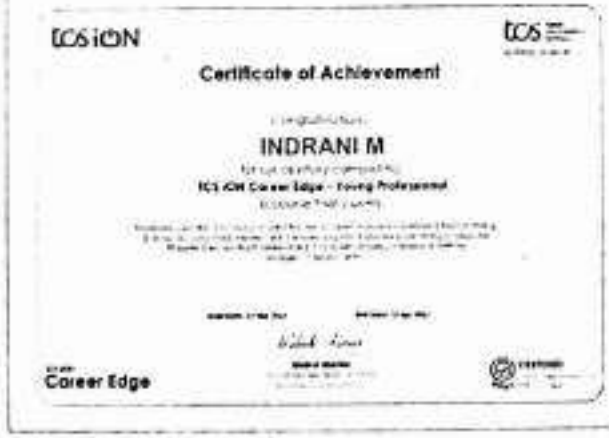
Certificate of Achievement

HARI PRASATH S

TCS iON Career Edge - Young Professional

Career Edge

20	821121104020	INDRANI M


TCS iON

Certificate of Achievement

INDRANI M

TCS iON Career Edge - Young Professional

Career Edge

21	821121104021	JANARTHANAN P
22	821121104022	JEEVA R
23	821121104023	JEEVESH P S
24	821121104024	JOHARA KANI S

25	821121104025	KARTHIK V
26	821121104026	KEERTHANA J

27	821121104027	KUMARESAN K P
28	821121104028	MAHESHWARI D

29	821121104029	MANIBHARATHI V S
30	821121104030	MANOJ M

31	821121104031	MATHESH KRISHNAN M
32	821121104032	MOHAMED ASICK A

33	821121104033	MOHAMED GANI M

TCS iON

Certificate of Achievement

MOHAMED GANI M

TCS iON Career Edge - Young Professional

Career Edge

34	821121104034	MOHAMMED ALI K

TCS iON

Certificate of Achievement

MOHAMMED ALI K

TCS iON Career Edge - Young Professional

Career Edge

35	821121104035	MONESHWARAN S

TCS iON

Certificate of Achievement

MONESHWARAN S

TCS iON Career Edge - Young Professional

Career Edge

36	821121104036	MURUGANANTHAM P

TCS iON

Certificate of Achievement

MURUGANANTHAM P

TCS iON Career Edge - Young Professional

Career Edge

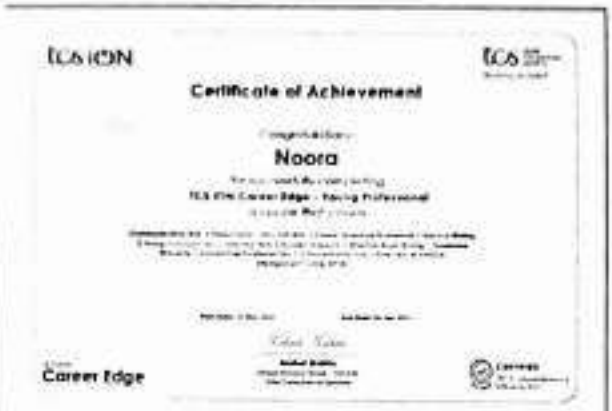
37	821121104037	MURUGESHWARI A

38	821121104038	NANDHAKUMAR P

39	821121104039	NAVEEN G

40	821121104040	NITHYASHRI B M

41	821121104041	NOORA K M


TCS iON

Certificate of Achievement

Noora

TCS iON Career Edge - Young Professional

Career Edge

42	821121104042	PRAGATHI V

TCS iON

Certificate of Achievement

PRAGATHI V

TCS iON Career Edge - Young Professional

Career Edge

43	821121104043	PRAKASH M

TCS iON

Certificate of Achievement

PRAKASH M

TCS iON Career Edge - Young Professional

Career Edge

44	821121104044	PRASANNA R

TCS iON

Certificate of Achievement

Congratulations!

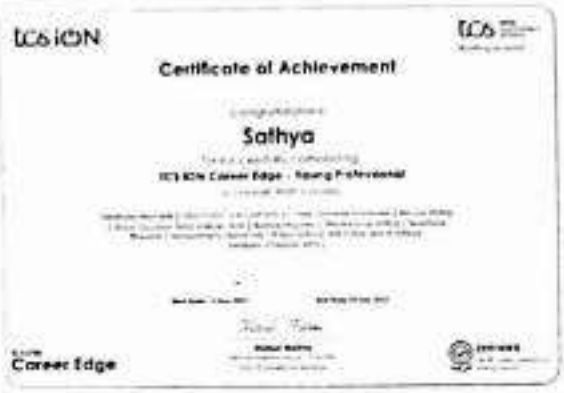
PRASANNAR

TCS iON Career Edge - Young Professional

Career Edge

45	821121104045	RAHUL S
46	821121104046	ROOBIGA R
47	821121104047	ROOHI SHIFA M
48	821121104048	SARAVANAN K

49	821121104049	SATHYA A



50	821121104050	SHALINI K

51	821121104051	SHARMIKA R

52	821121104052	SHASHANK S

53	821121104053	SIVADHARANI M

TCS iON

Certificate of Achievement

SIVADHARANI M

Career Edge

54	821121104054	SOWMIYA P J

TCS iON

Certificate of Achievement

Sowmiya J

Career Edge

55	821121104055	SRIRAM R

TCS iON

Certificate of Achievement

SRIRAM R

Career Edge

56	821121104056	SUJITH V

TCS iON

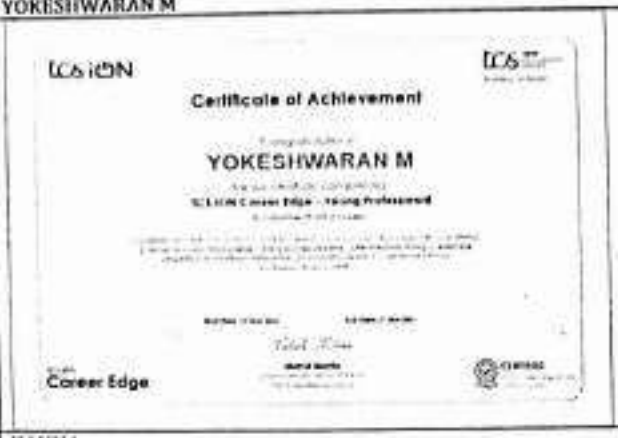
Certificate of Achievement

SUJITH V

Career Edge

57	821121104057	SURENDRAN V
58	821121104058	VASANTHKUMAR K

59	821121104059	VENKATESH B
60	821121104060	VISHAL K

61	LE	YOKESHWARAN M
		
62	LE	KANNA

		YUVARAJ CHINNAYA

Class Coordinator

Head of the Department

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course

on

Introduction to Cloud computing

ACADEMIC YEAR

2022-2023

KINGS COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
B++ NAAC

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2023– 24 EVEN SEMESTER

CERTIFICATION COURSE – REPORT

Intro to cloud computing

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
Intro to Cloud Computing	30 Hrs	II & III	Mr.M.Arun	03.01.2023

1. OBJECTIVE

To make the students

- Understand the concept of Cloud computing.
- Understand the concept of different Service deployments in Cloud computing.
- Understand the concept of cloud storage, examples and applications of cloud computing.

2. COURSE COVERAGE

The courses will cover the

- The principles of cloud architecture, models and infrastructure.
- The concepts of virtualization and virtual machines.
- knowledge about virtualization Infrastructure.
- explore the various Cloud deployment environments.
- The security issues in the cloud environment.

3. SYLLABUS COVERAGE

NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
30	30	05

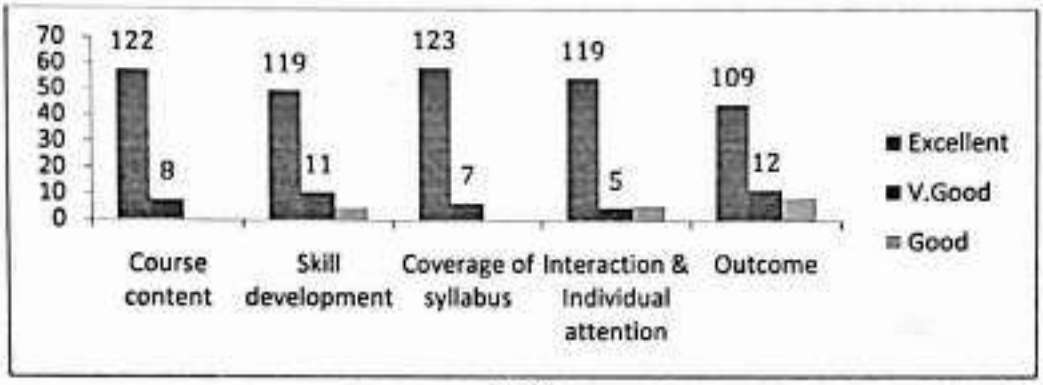
4. Completion Status

Year/Sem	Total No of Students Enrolled	Total .No of Students completed
II/IV	64	64
III/VI	66	66

5. FEEDBACK

Total Strength: 66

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	122	8		
2.	Skill development	119	11		
3.	Coverage of syllabus	123	7		
4.	Interaction & Individual attention	119	5	6	
5.	Outcome	109	12	9	
Other suggestions					



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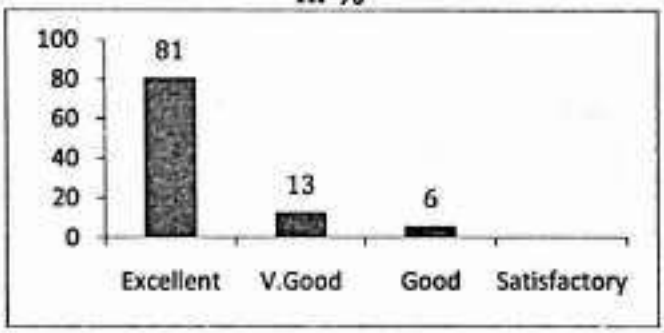

OUTCOME

The students are able to

- Gain knowledge about cloud architecture and Infrastructure
- Understand the design challenges in cloud computing.
- Identify the concepts of virtual machines
- Apply the concept of virtualization and its types.
- Explore with various Cloud deployment environments
- Develop and deploy services on the cloud and set up a cloud environment

29/5/23

COURSE COORDINATOR(s)

29/5/23

SAMPLE CERTIFICATES

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COURSE COMPLETION CERTIFICATE
Barathraj R
Infosys foundation

64

COURSE COMPLETION CERTIFICATE
Varsha N N
Infosys foundation

65

COURSE COMPLETION CERTIFICATE
KARTHIKA M
Infosys foundation

66

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certification Course

on

Networking and web technology

ACADEMIC YEAR

2022-2023

KINGS COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

NAAC B++

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022- 23 EVEN SEMESTER

CERTIFICATION COURSE – REPORT

Networking and web technology

Course Details

Name of the course	Duration of the course	Target Group	Faculty Instructor	Start Date
TCS ION Career edge- Young Professional	30 Hrs	III	Mr.M.Arun	03.01.2023

1. OBJECTIVE

To make the students

- Understand the concept of layering in networks.
- Know the functions of protocols of each layer of TCP/IP protocol suite.
- Visualize the end-to-end flow of information.
- Familiarize the functions and protocols of the Transport layer.
- Learn the basics of internet and web terminologies.

2. COURSE COVERAGE

The course provided the students with

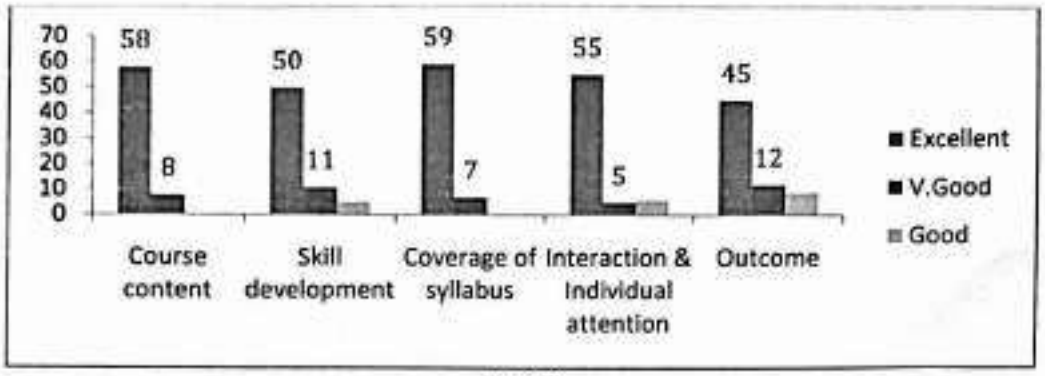
- Analyze the working of OSI layer protocols.
- The basic layers and its functions in computer networks.
- Introduce the fundamentals of internet and principal of web design.
- Construct the websites using HTML.

3. FEEDBACK

Total Strength: 66

S.No	Criteria	Rating			
		Excellent	Very good	Good	Satisfactory
1.	Course content	58	8		
2.	Skill development	50	11		
3.	Coverage of syllabus	59	7		
4.	Interaction &	55	5	6	

	Individual attention				
5.	Outcome	45	12	9	
Other suggestions					



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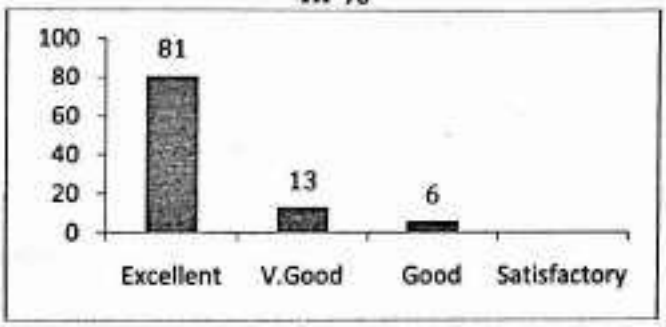

OUTCOME

The students are able to

- Understand the basics of how data flows from one node to another.
- Analyze routing algorithms.
- Describe protocols for various functions in the network.
- Analyze the working of various application layer protocols.
- develop a web page using HTML.
- Describe the concept of www

29/5/23

COURSE COORDINATOR(s)

29/5/23

HOD/CSE

SAMPLE CERTIFICATES

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COURSE COMPLETION CERTIFICATE

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COURSE COMPLETION CERTIFICATE

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COURSE COMPLETION CERTIFICATE

57

COURSE COMPLETION CERTIFICATE

Suruthiga C

58

COURSE COMPLETION CERTIFICATE

Varsha N N

59

COURSE COMPLETION CERTIFICATE

60

COURSE COMPLETION CERTIFICATE

priyarani JB

61

COURSE COMPLETION CERTIFICATE

Jena vinnarasi A

62

COURSE COMPLETION CERTIFICATE

20CS41 REENA. S

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NPTEL COURSES

ACADEMIC YEAR

2022-2023

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 EVEN SEMESTER

CIRCULAR

06.02.23

As a part of curriculum enrichment, our department has planned to offer a **SWAYAM- NPTEL** courses for **II, III, IV** year students, through which the students can be exposed to the currently trending domain. Kindly go through the course schedule mentioned below for your reference and from the list you can choose your optional course.

Course Details

Name of the course	Duration of the course	Start Date
Data Mining	12 weeks	06.02.23
Block Chain and its Application	12 weeks	06.02.23

Note

- To be circulated in II,III,IV CSE Whatsapp group
- Copy to Notice board

6/2/23

HOD/CSE

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 EVEN SEMESTER

SWAYAM COURSE - SYLLABUS

Data Mining

INTRODUCTION:

Data mining is study of algorithms for finding patterns in large data sets. It is an integral part of modern industry, where data from its operations and customers are mined for gaining business insight. It is also important in modern scientific endeavors. Data mining is an interdisciplinary topic involving databases, machine learning and algorithms. The course will cover the fundamentals of data mining. It will explain the basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization. It will also explain implementations in open source software. Finally, case studies on industrial problems will be demonstrated.

INTENDED AUDIENCE : Any engineering discipline and mathematics,Physics.
PREREQUISITES : Nil

Course layout

Week 1: Introduction, Data Preprocessing

Week 2: Association Rule Mining, Classification Basics

Week 3: Decision Tree, Bayes Classifier, K nearest neighbor

Week 4: Support Vector Machine, Kernel Machine

Week 5: Clustering, Outlier detection

Week 6: Sequence mining

Week 7: Evaluation, Visualization.

Week 8: Case studies

Books and references

1. Introduction to Data Mining, Tan, Steinbach and Vipin Kumar, Pearson Education, 2016
2. Data Mining: Concepts and Techniques, Pei, Han and Kamber, Elsevier, 2011

6/6/23
Course Co-Ordinator

6/6/23
HOD/CSE

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (FEBRUARY 2023 - MAY 2023, EVEN SEM)

B.E - CSE (Reg. 2021) - With Effect from 06.02.2023 - Tentative Last Working Day - 12.5.2023

Batch:2021-2025

Year: II Semester: IV Class Room : 222 Strength: Block:

Session	1	2	10.45 am - 11.00 am	3	4	12.10 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	CS3401	CS3491	BREAK	CS3451	CS3492	LUNCH BREAK	ICC	GE3451	BREAK	CS3492	T&P(SS)
TUE	CS3491	CS3452		CS3401			CS3451	GE3451		S/Y	
WED	CS3492	CS3491		CS3451	LIB/NET		CS3452	CS3461		CS3461	
THU	CS3401	CS3492		CS3491			CS3452	CS3401		CS3451	SEM
FRI	GE3451	CS3401		T&P(A)	CS3452		CS3491	CS3481		CS3481	
SAT	CS3452			CS3491			CS3451			NPTEL	ICC

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	TUTORIAL (T), THEORY CUM PRACTICAL(P)					
CS3452	Theory of Computation	PCC	3	Ms.P.Nalayini	CSE	6
CS3491	Artificial Intelligence and Machine Learning	PCC	4(P)	Ms.K.Abhirami	CSE	8
CS3492	Database Management Systems	PCC	3	Ms.S.Abikayil Aarthi	CSE	4
CS3401	Algorithms	PCC	4(P)	Ms.N.Dhamayandhi	CSE	6
CS3451	Introduction to Operating Systems	PCC	3	Dr.S.Kannan	CSE	6
GE3451	Environmental Sciences and Sustainability	BSC	2	Dr.S.Udayakumar	CHEM	3
	PRACTICAL					
CS3461	Operating Systems Laboratory	PCC	1.5	Dr.S.Kannan & Ms.S.Priyadharshini	CSE	3
CS3481	Database Management Systems Laboratory	PCC	1.5	Ms.S.Abikayil Aarthi & Ms.N.Dhamayanthi	CSE	3
	VALUE ADDITION INITIATIVES (VAI)					
ICC	Industry based Certification Courses	VAI		Mr.M.Arun	CSE	2
LIB/NET	Library / Internet	VAI		Dr.S.Kannan & Ms.N.Dhamayandhi & Ms.P.Nalayini	CSE	1
NPTEL	NPTEL / SWAYAM Online Course	VAI		Ms.S.Priyadharshini	CSE	1
[illegible]	Technical Seminar	VAI		Ms.B.Bavithra	CSE	1
S/Y	Sports/Yoga (Odd Week - Sports - Girls & Yoga - Boys)	VAI		Mr.S.Senthilnathan & Ms.B.Bavithra	CSE	2
T&P(A)	Training & Placement - Aptitude	VAI		Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskills	VAI		Dr.B.Barankumar	T&P	1

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.N.Dhamayandhi	J.Keerthana	26
	M.Manoj	30
CLASS COMMITTEE CHAIR PERSON	Ms.S.Puvaneswari	

DEPT. TTC 2/2/23 HOD 2/2/23 PRINCIPAL 02/02/2023

Format: QP06

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (FEBRUARY 2023 - MAY 2023, EVEN SEM)

B.E - CSE (Reg. 2017) - With Effect from 06.02.2023 - Tentative Last Working Day - 12.5.23

Batch:2019-2023 | Year: III | Semester: VI | Class Room : 227 | Strength: | Block:

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	CS8691	CS8601	BREAK	CS8651	CS8603	LUNCH BREAK	CS8661		BREAK	CS8661	
TUE	CS8603	CS8601		CS8602	T&P(SS)		CS8611			S/Y	
WED	CS8603	CS8691		HS8581			CS8603	CS8602		CS8651	CS8691
THU	CS8602	CS8601		T&P(A)	LIB/NET		CS8662			CS8662	
FRI	CS8651	CS8691		CS8602			CS8601	CS8603		CS8651	SEM
SAT	CS8651	CS8601		CS8691	CS8602		ICC			NPTEL	GATE

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), PROFESSIONAL ELECTIVE (PE), THEORY CUM PRACTICAL(P)						
CS8651	Internet Programming	PC	3	Mr.S.Senthilnathan	CSE	5
CS8691	Artificial Intelligence	PC	3	Ms.S.Priyadharshini	CSE	5
CS8601	Mobile Computing	PC	3	Dr.S.M.Uma	CSE	5
CS8602	Compiler Design	PC	4(P)	Ms.S.Puvaneswari	CSE	6
CS8603	Distributed Systems	PC	3	Ms.B.Bavithra	CSE	5
PRACTICAL						
CS8661	Internet Programming Lab	PC	2	Mr.S.Senthilnathan & Ms.B.Bavithra	CSE	4
CS8662	Mobile Application Development Laboratory	PC	2	Ms.S.Puvaneswari & Ms.S.Abikayil Aarthi	CSE	4
CS8611	Mini Project	EEC	1	Ms.P.Nalayini	CSE	2
HS8581	Professional Communication	EEC	1	Ms.M.Yasotha	ENG	2
VALUE ADDITION INITIATIVES (VAI)						
ICC	Industry based Certification Course		VAI	Mr.S.Senthilnathan	CSE	2
GATE	GATE / Competitive Exam		VAI	Ms.N.Dhanayanchi / Ms.S.Priyadharshini	CSE	1
LIB/NET	Library / Internet		VAI	Ms.S.Puvaneswari & Mr.S.Senthilnathan & Ms.B.Bavithra	CSE	1
NPTEL	NPTEL Swayam Courses		VAI	Ms.S.Puvaneswari	CSE	1
SEM	Seminar		VAI	Ms.B.Bavithra	CSE	1
S/Y	Sports/Yoga (Odd Week - Sports - Girls & Yoga - Boys)		VAI	Mr.S.Senthilnathan & Ms.B.Bavithra	CSE	2
T&P (A)	Training & Placement - Aptitude		VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		VAI	Dr.K.Sudhakar	T&P	1

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.S.Puvaneswari	S.Mohamed Sameer & D.Parkavi	29 & 36
CLASS COMMITTEE CHAIR PERSON	Ms.R.Suganthalakshmi	

3/2/2023
DEPT. TTC

HOD 3/2/23

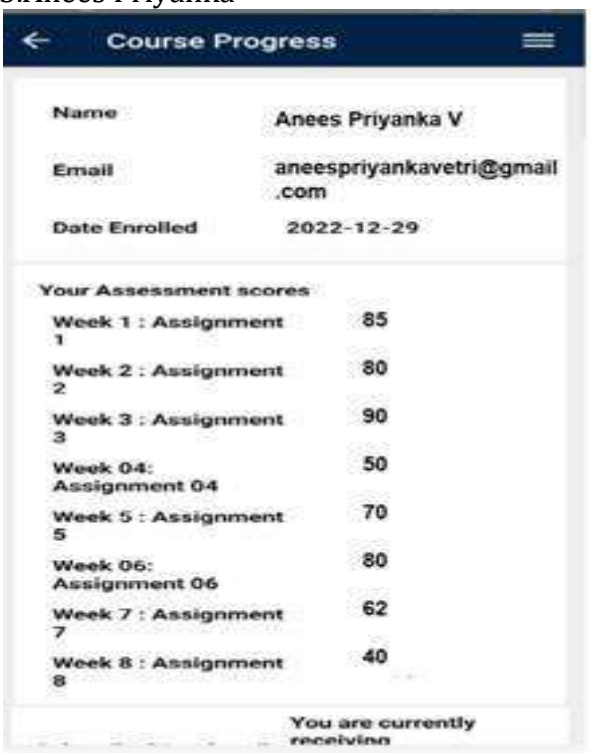
03/2/2023
PRINCIPAL

SCREENSHOTS – II CSE

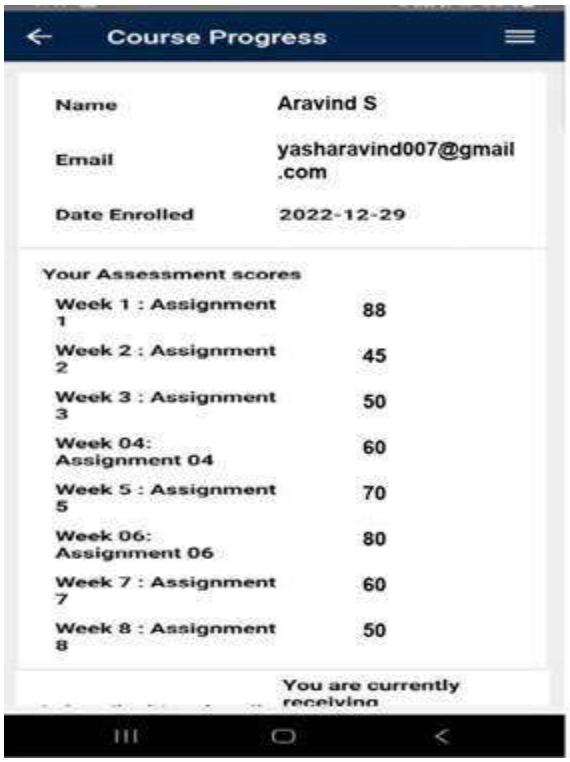
1. Aaksh S

2. Aandal S A

3.Anees Priyanka

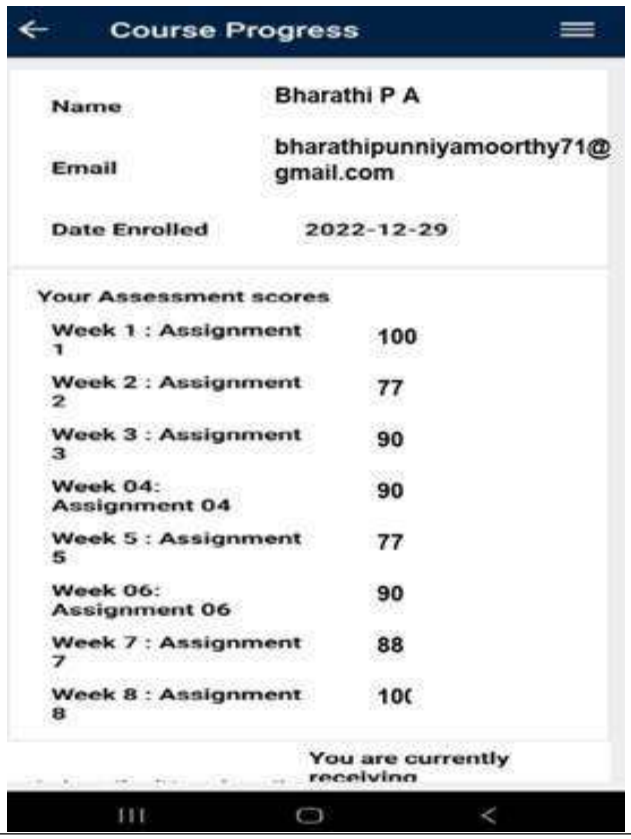


4. Aravind S

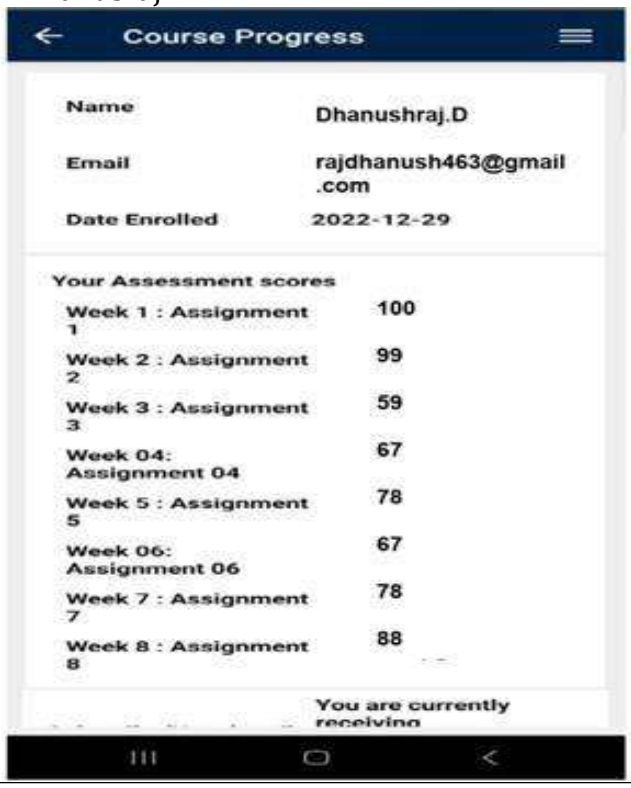


5. Asma S

6. Bharathi P A



7.Dhanusraj D



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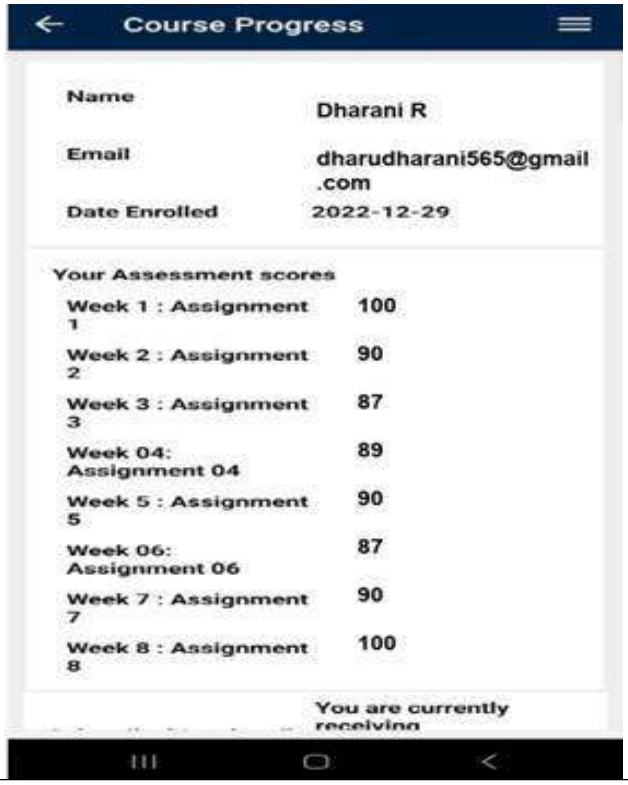

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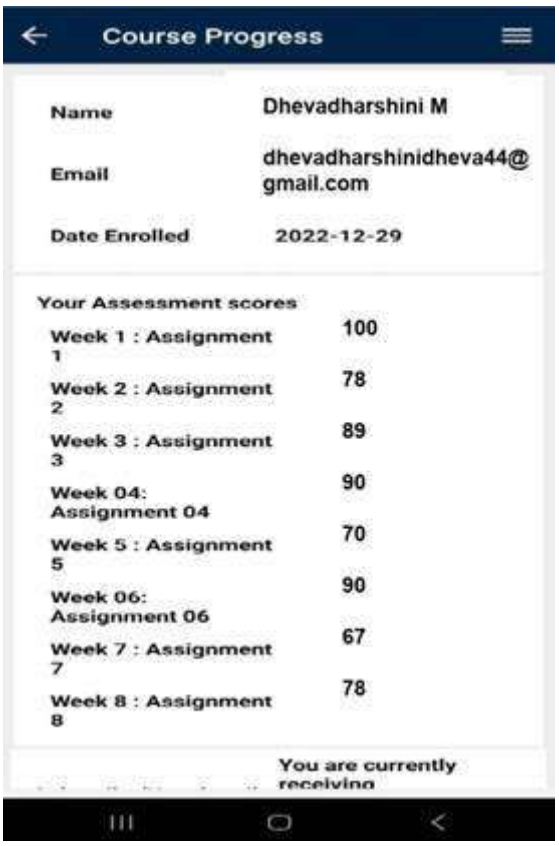

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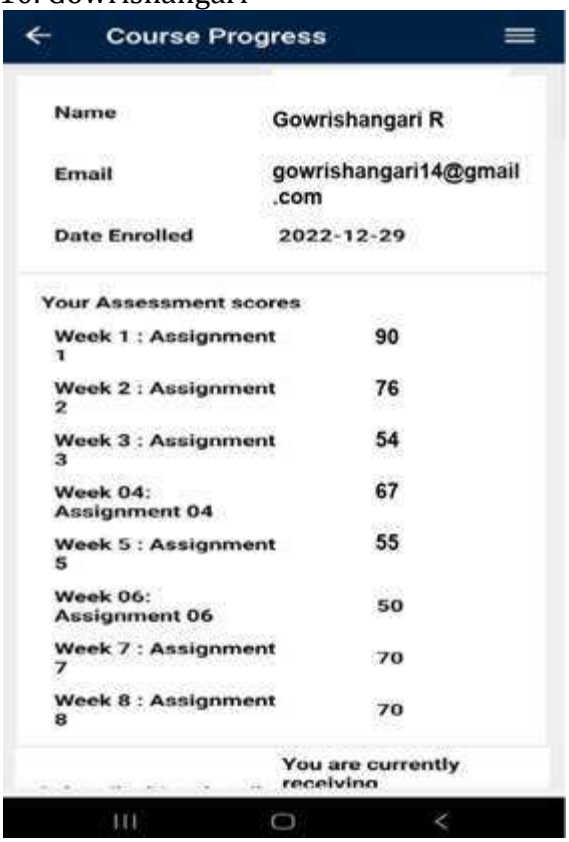

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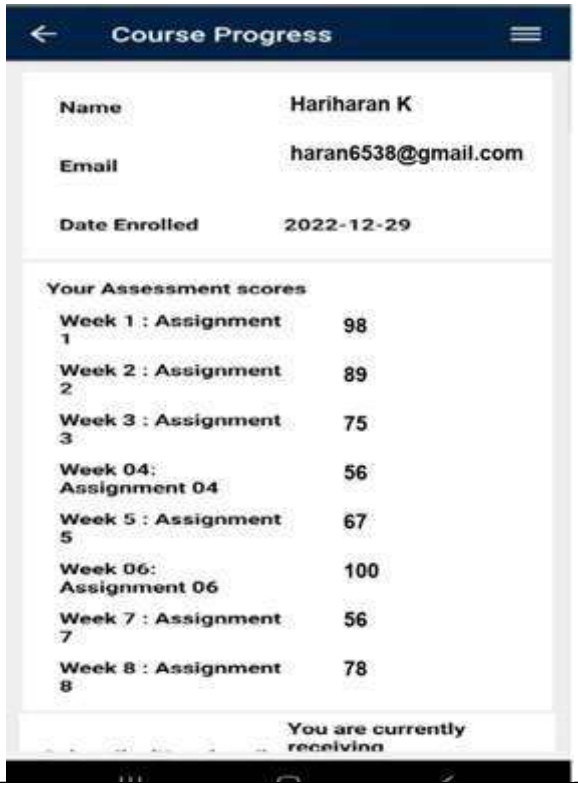

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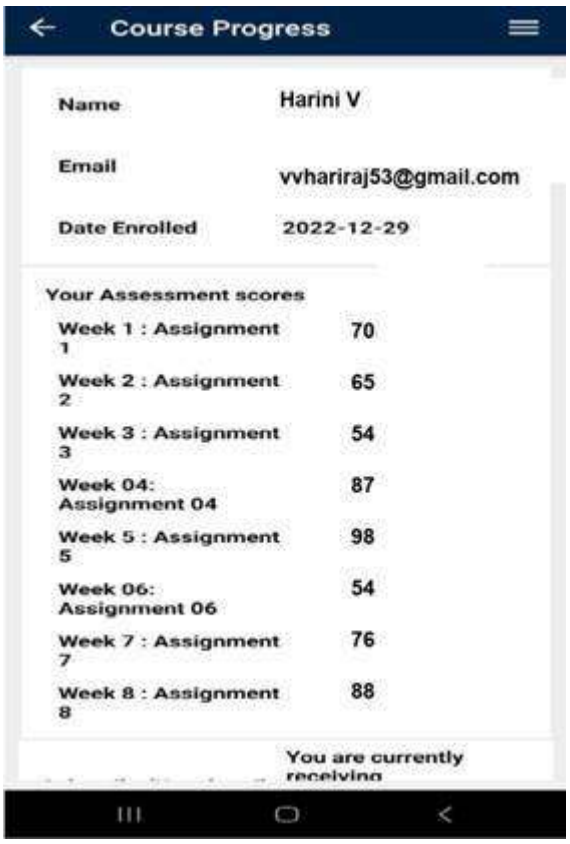

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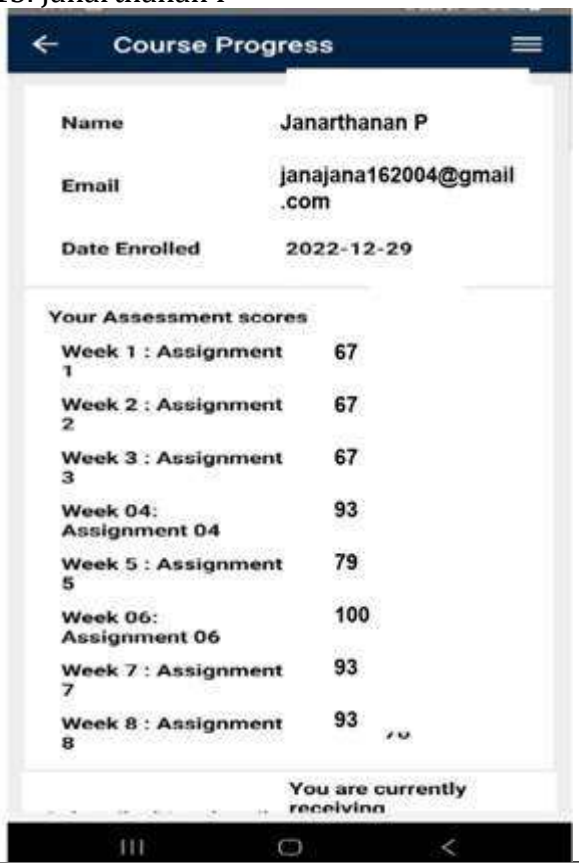

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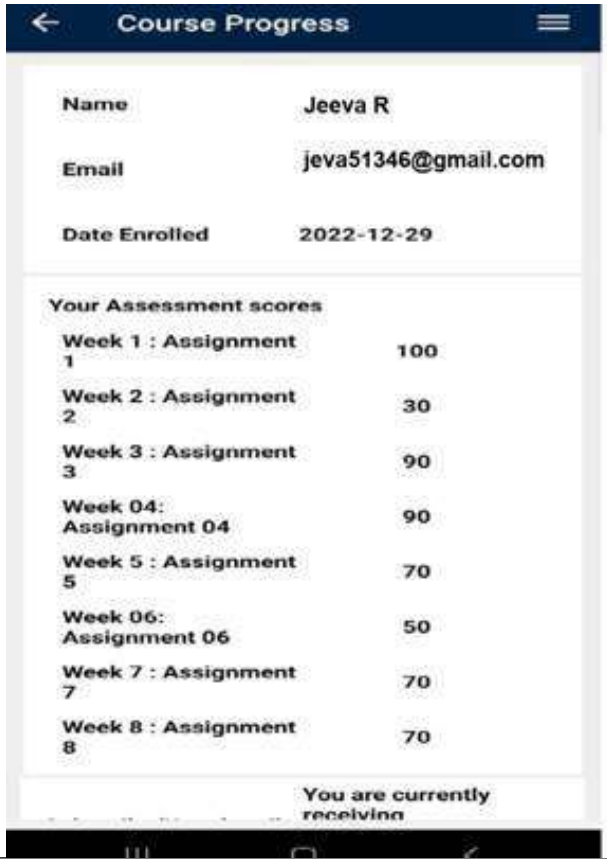

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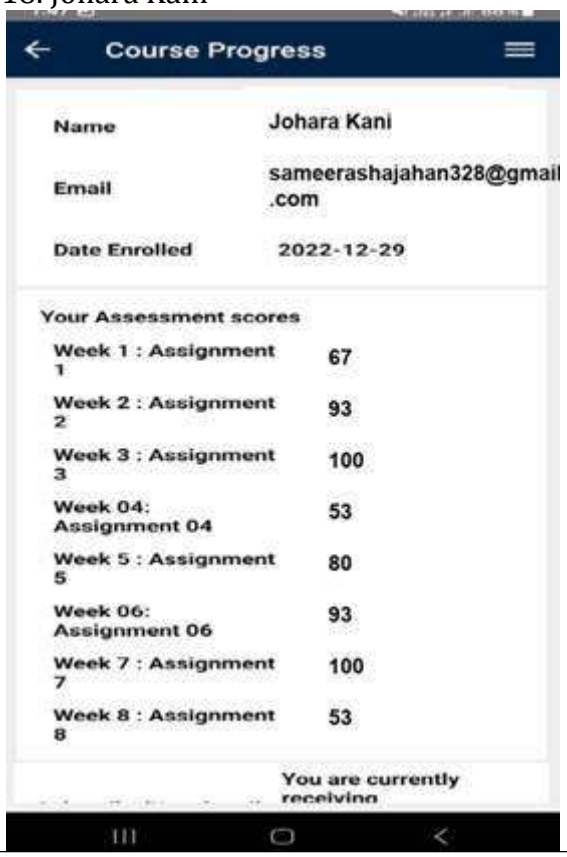

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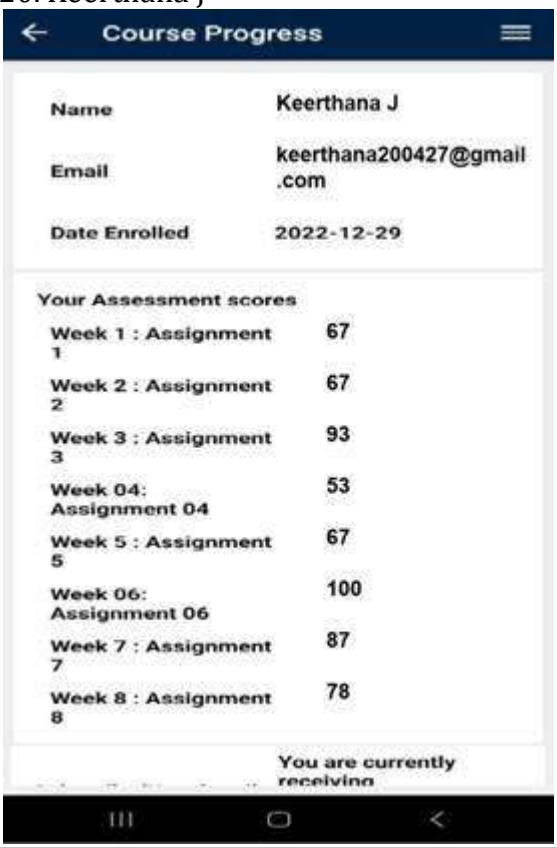

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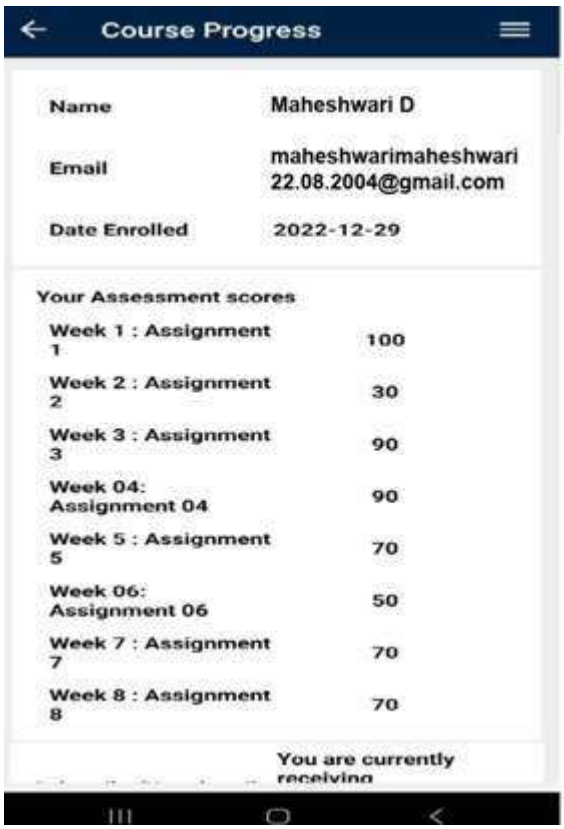

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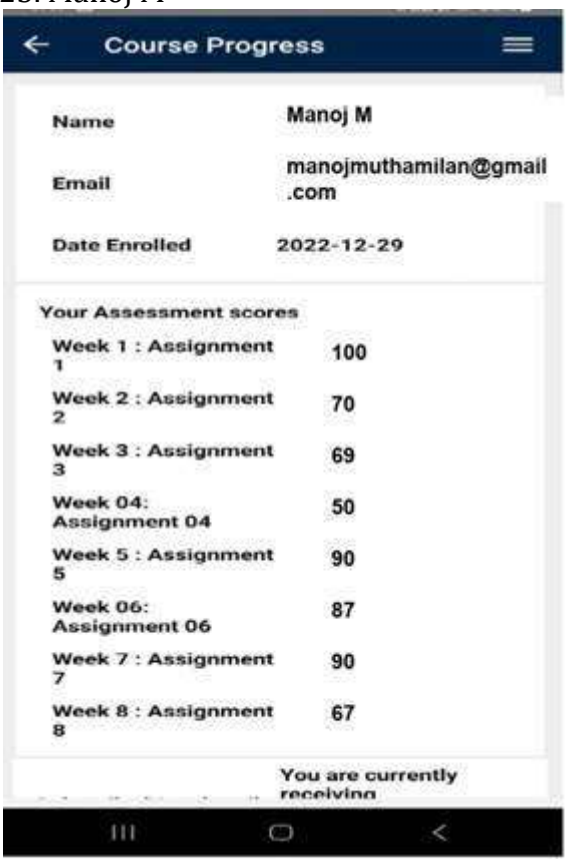

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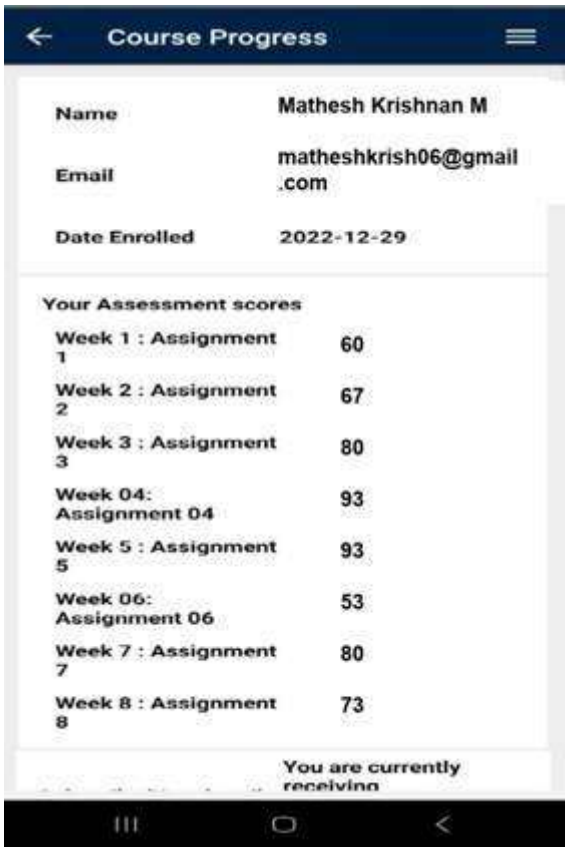

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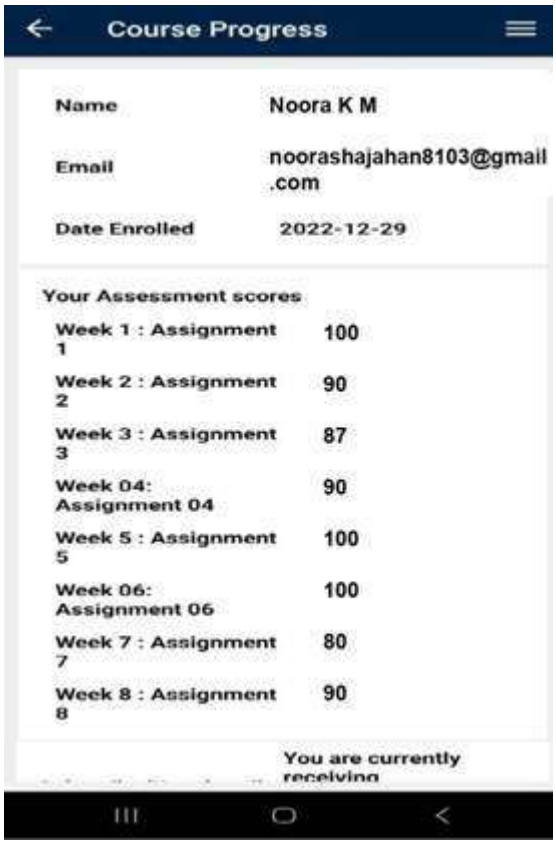

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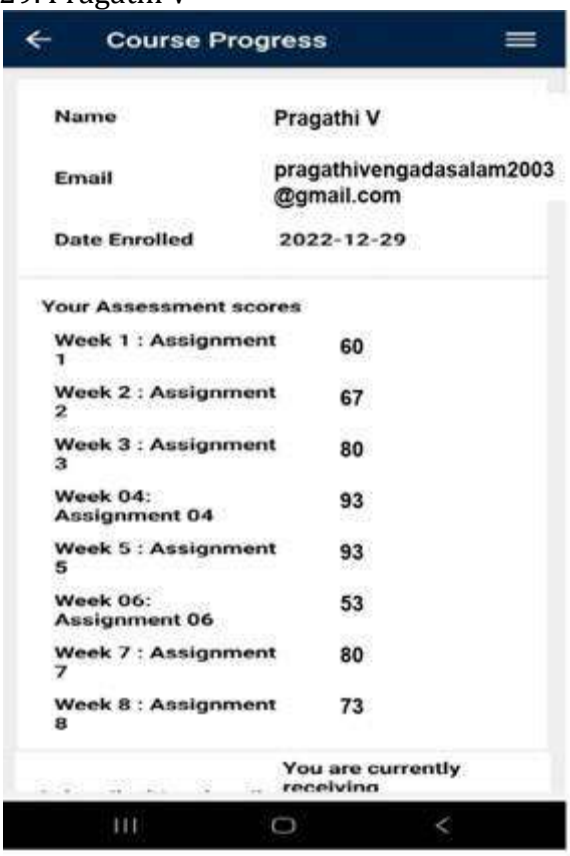

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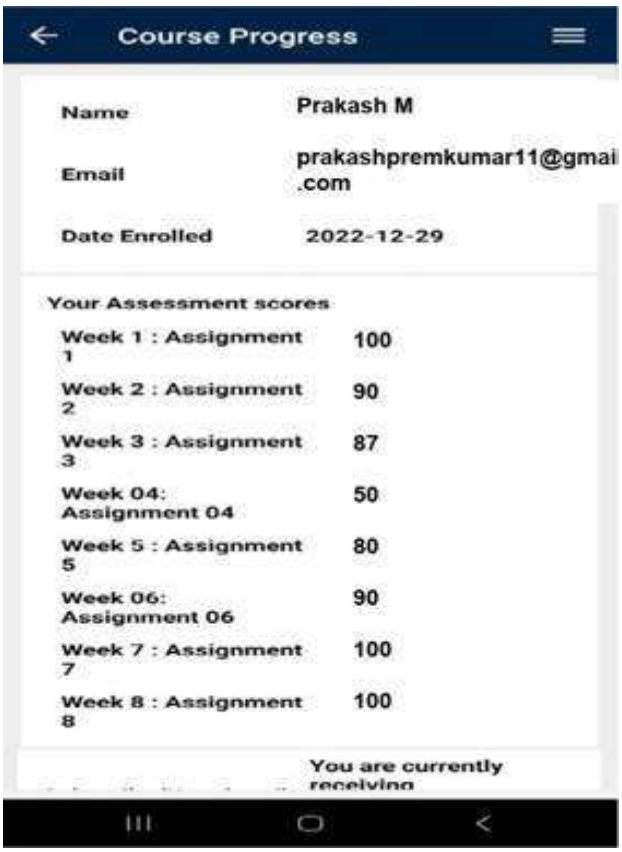

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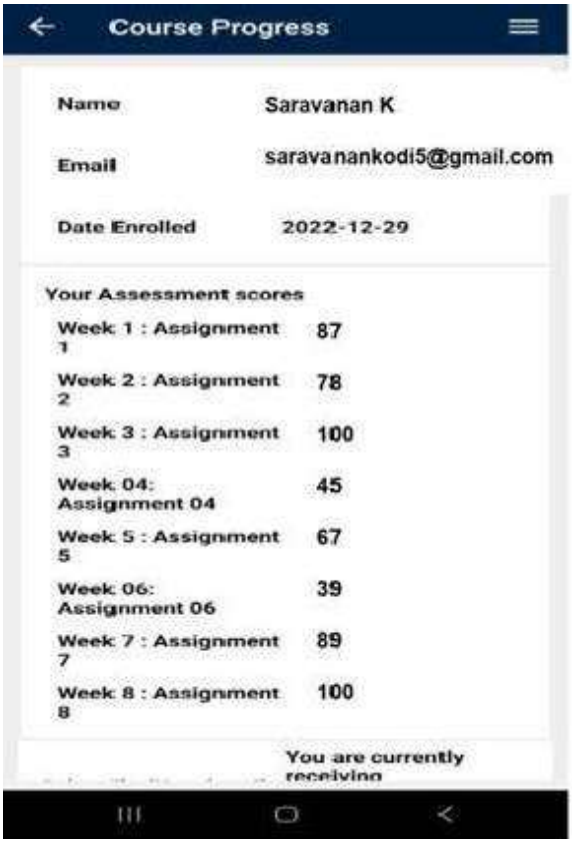

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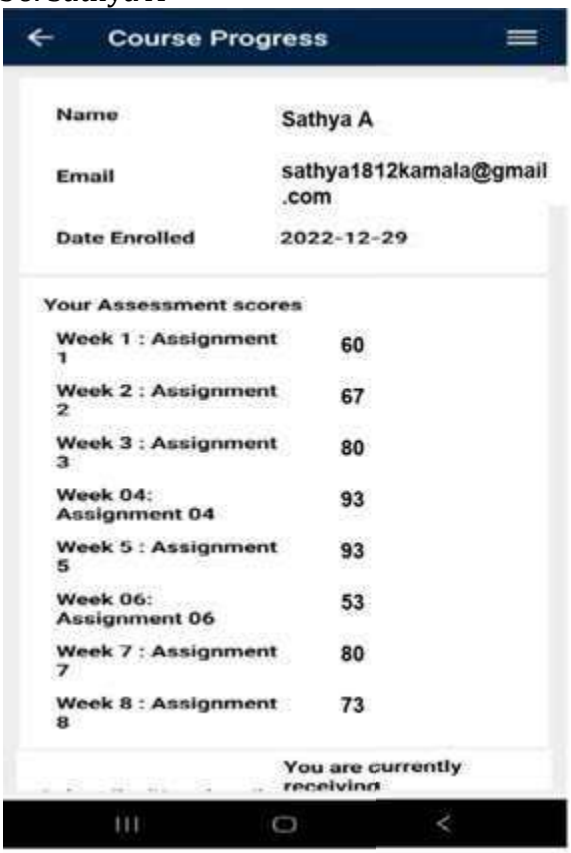

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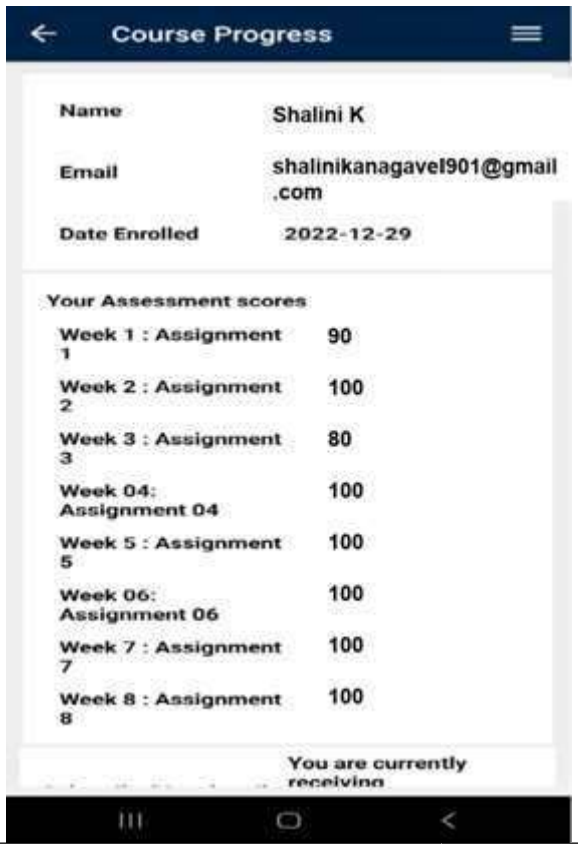

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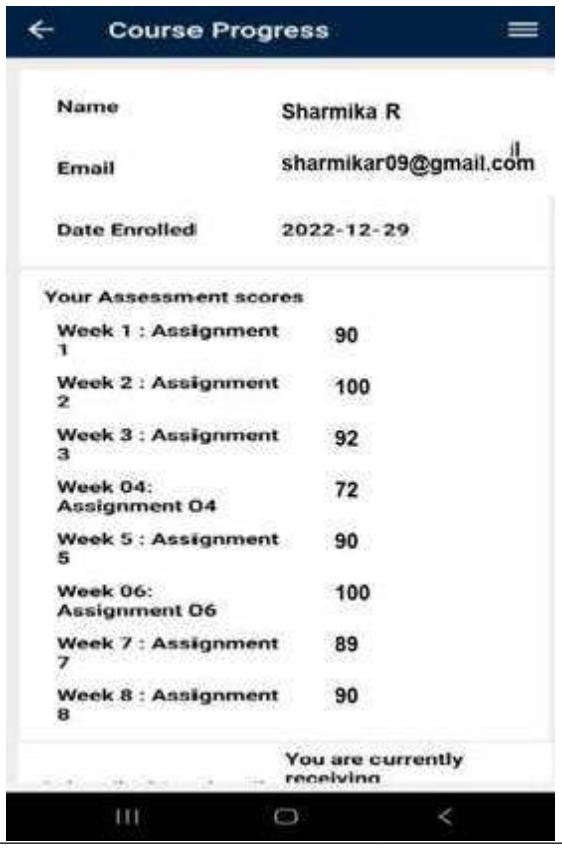

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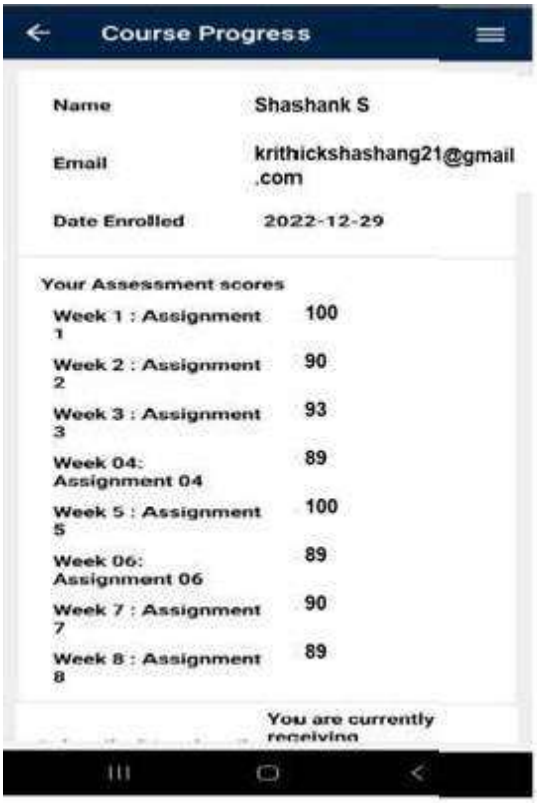

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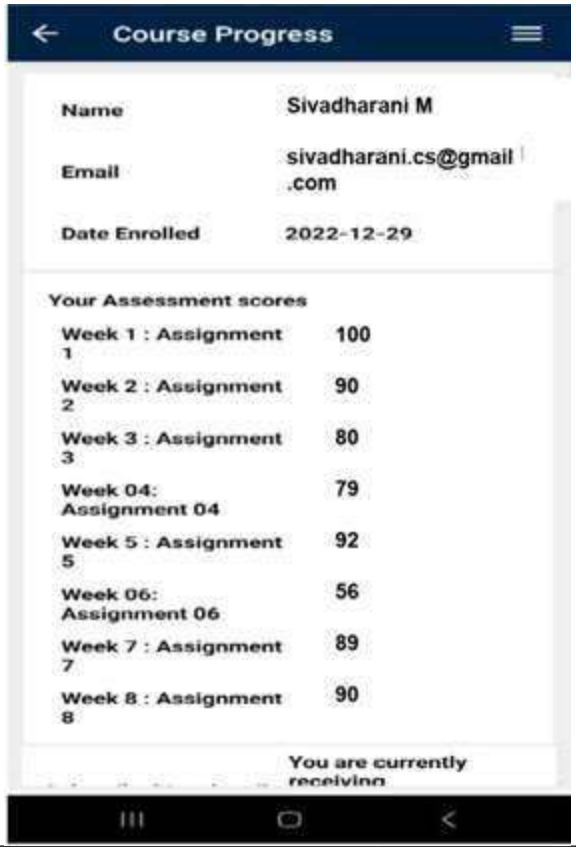

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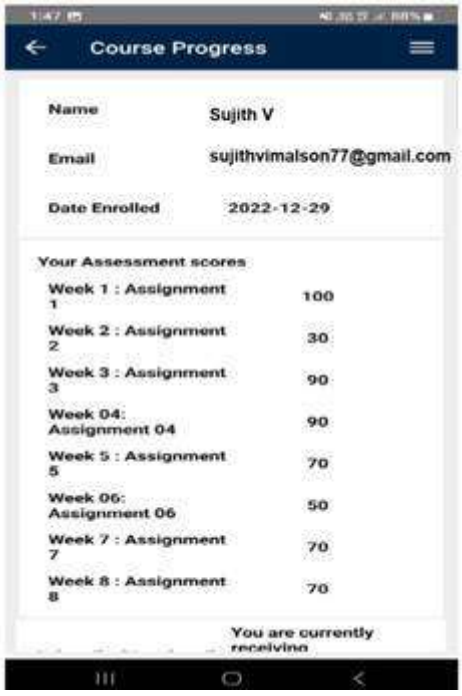

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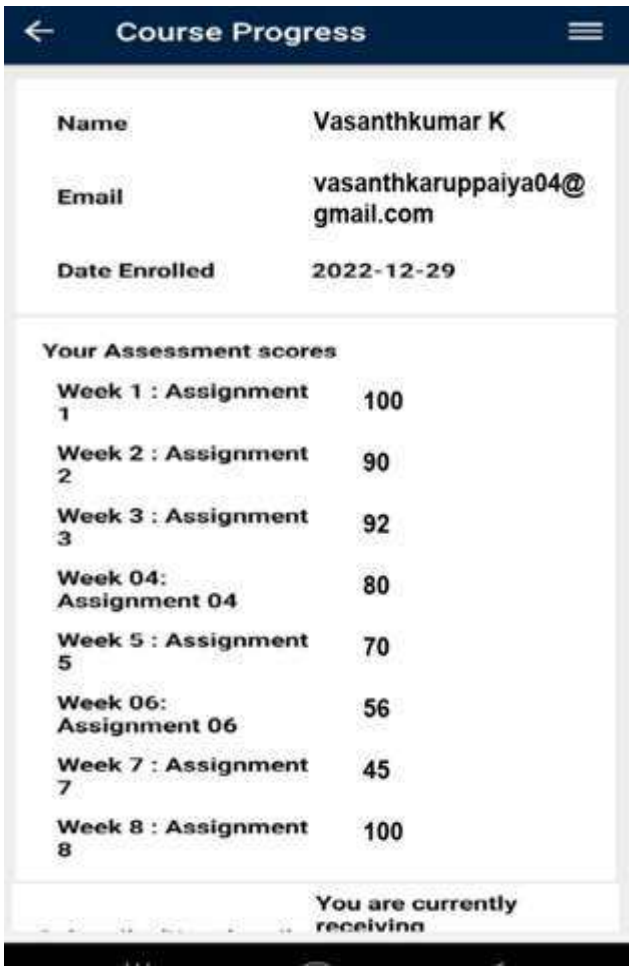

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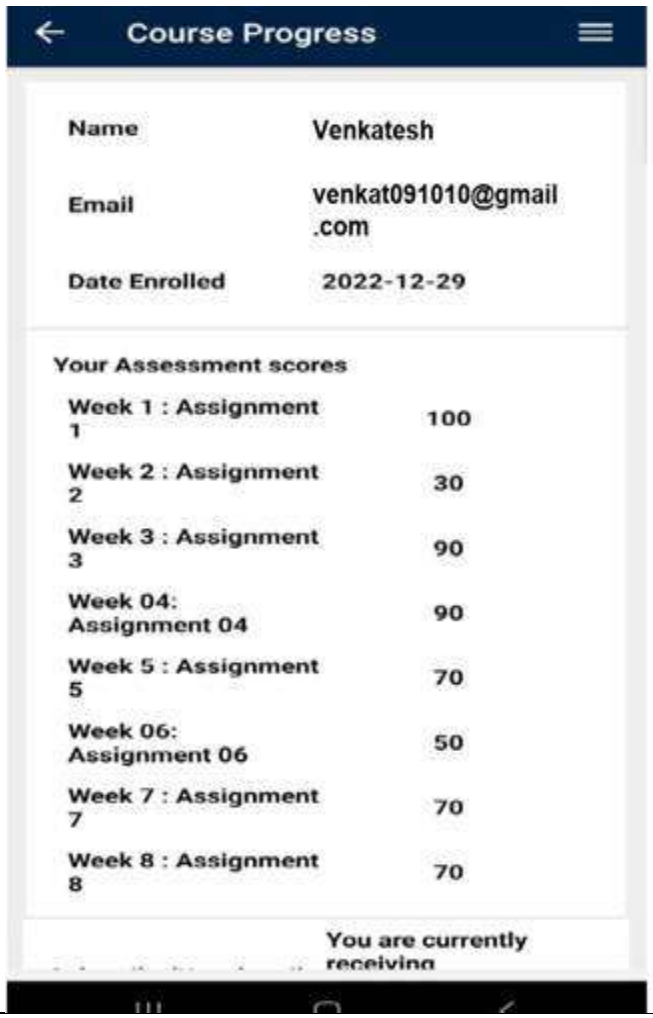

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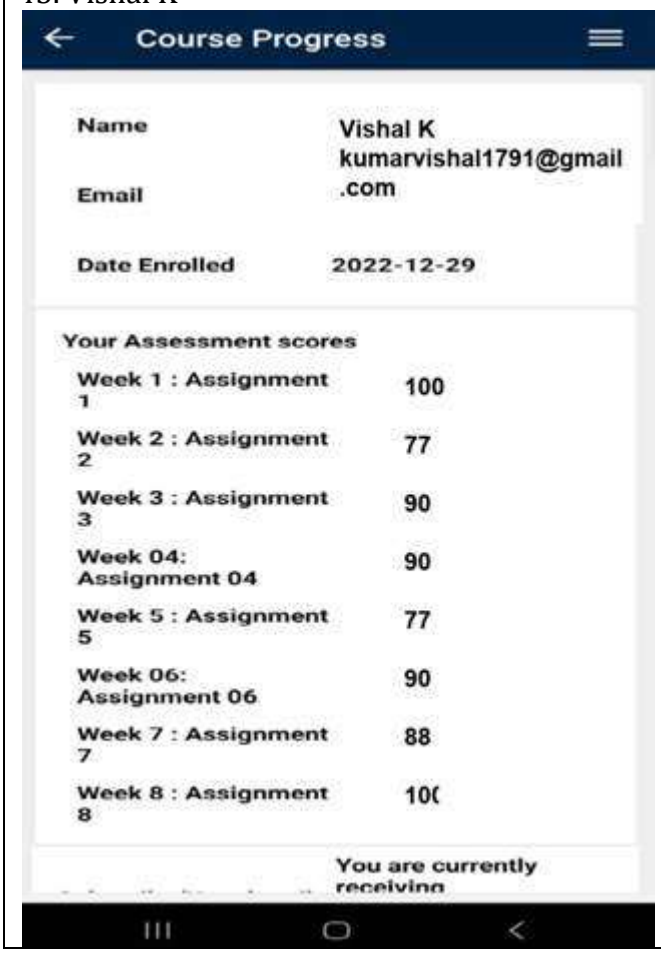
Course Progress
Name
Vishal K
Email
kumarvishal1791@gmail.com
Date Enrolled
2022-12-29
Your Assessment scores
Week 1 : Assignment 1
100
Week 2 : Assignment 2
77
Week 3 : Assignment 3
90
Week 04: Assignment 04
90
Week 5 : Assignment 5
77
Week 06: Assignment 06
90
Week 7 : Assignment 7
88
Week 8 : Assignment 8
10(
You are currently

SCREENSHOTS – III CSE

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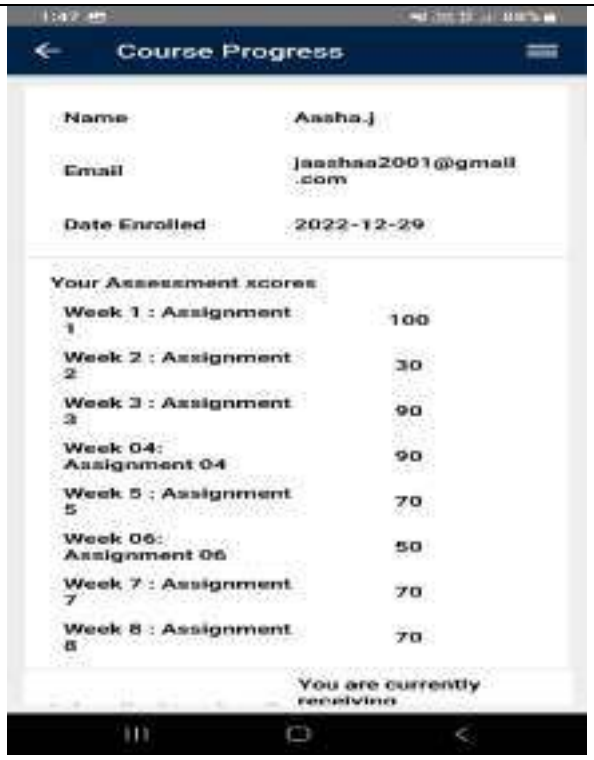
1.		2.	
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			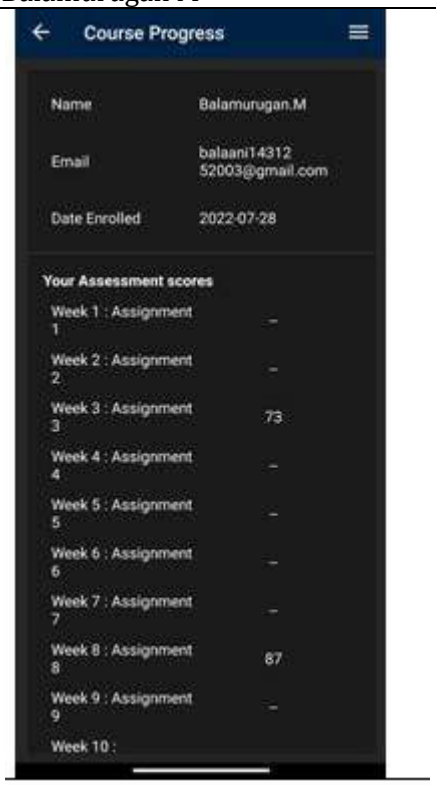
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	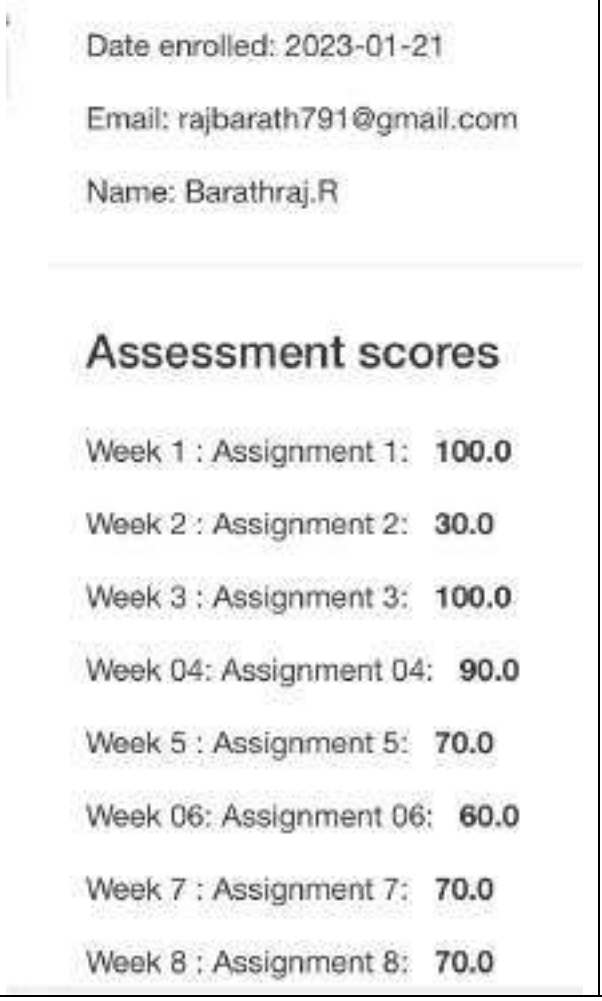		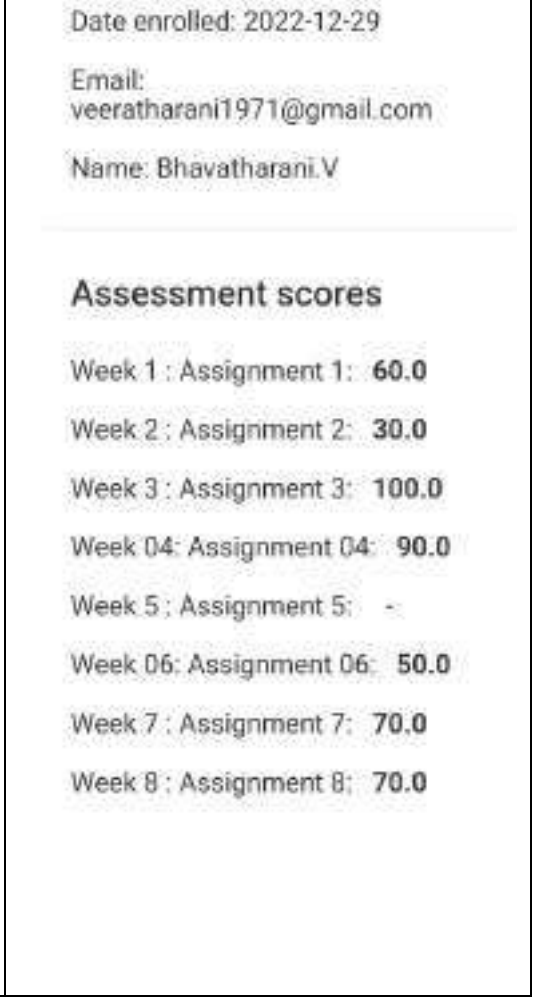

9.	R. Boomika	10.	Deepak Kumar D
	R.BOOMIKA Date enrolled: 2023-01-05 Email: boomikaramesh018@outlook.com Name: R.BOOMIKA Assessment scores Week 1 : Assignment 1: - Week 2 : Assignment 2: 80.0 Week 3 : Assignment 3: - Week 04: Assignment 04: 90.0 Week 5 : Assignment 5: 70.0 Week 06: Assignment 06: 50.0 Week 7 : Assignment 7: 70.0 Week 8 : Assignment 8: 70.0		Deepak kumar D Date enrolled: 2023-02-06 Email: dk7318813@gmail.com Name: Deepak kumar D Assessment scores Week 1 : Assignment 1: 100.0 Week 2 : Assignment 2: 20.0 Week 3 : Assignment 3: 100.0 Week 04: Assignment 04: 90.0 Week 5 : Assignment 5: 70.0 Week 06: Assignment 06: 70.0 Week 7 : Assignment 7: 70.0 Week 8 : Assignment 8: -
11	Thirumurugan	12.	Deepika K
	Email: thirumurugan32590@gmail.com Name: Thirumurugan Assessment scores Week 1 : Assignment 1: 67.0 Week 2 : Assignment 2: 67.0 Week 3 : Assignment 3: 80.0 Week 4 : Assignment 4: 87.0 Week 5 : Assignment 5: - Week 6 : Assignment 6: 100.0 Week 7 : Assignment 7: - Week 8 : Assignment 8: 80.0 Week 9 : Assignment 9: 53.0 Week 10 : Assignment 10: 73.0 Week 11 : Assignment 11: 93.0 Week 12 : Assignment 12: 100.0		NPTEL - Data Mining Course Progress Deepika.K Date enrolled: 2023-01-21 Email: deepikakumaravel174@gmail.com Name: Deepika.K Assessment scores Week 1 : Assignment 1: 100.0 Week 2 : Assignment 2: 100.0 Week 3 : Assignment 3: 100.0 Week 04: Assignment 04: 90.0 Week 5 : Assignment 5: - Week 06: Assignment 06: - Week 7 : Assignment 7: 70.0 Week 8 : Assignment 8: 70.0

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	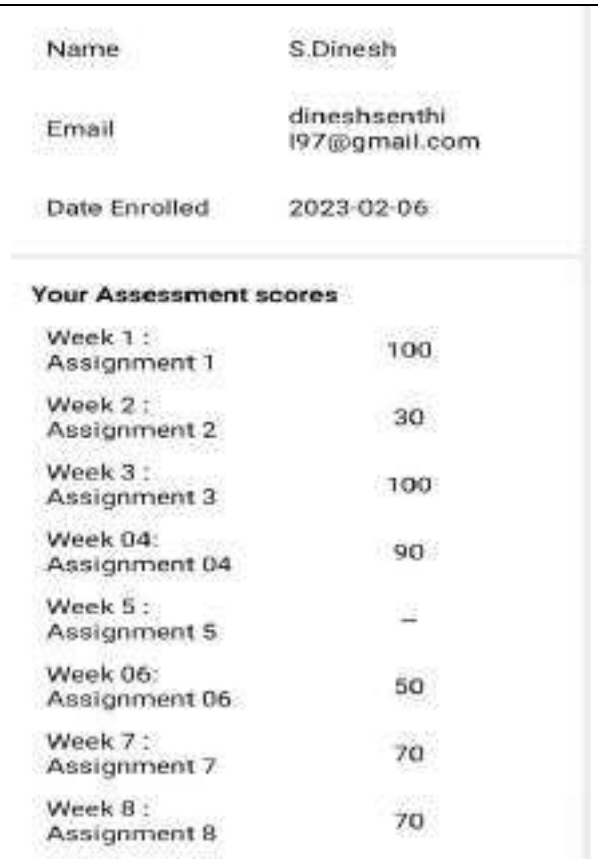		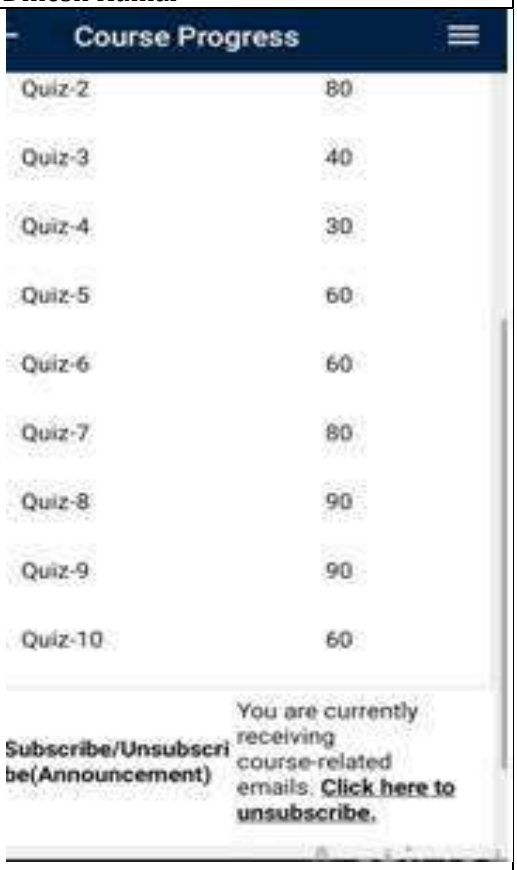
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			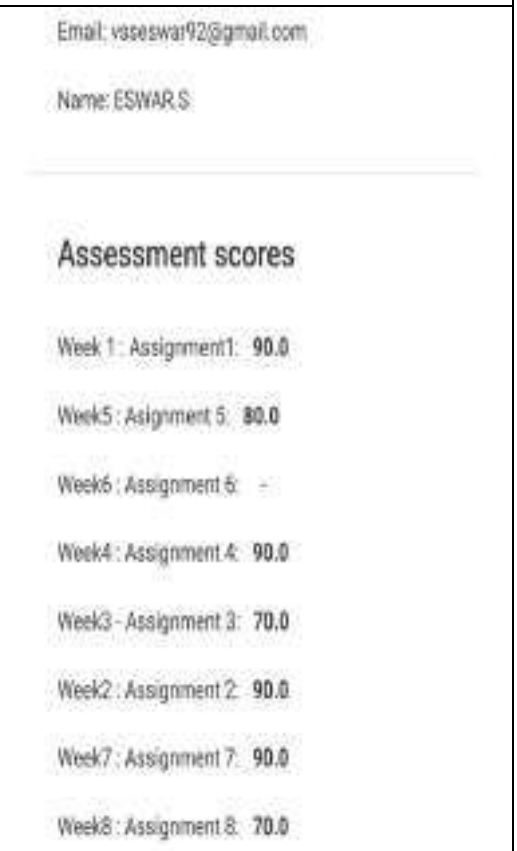

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			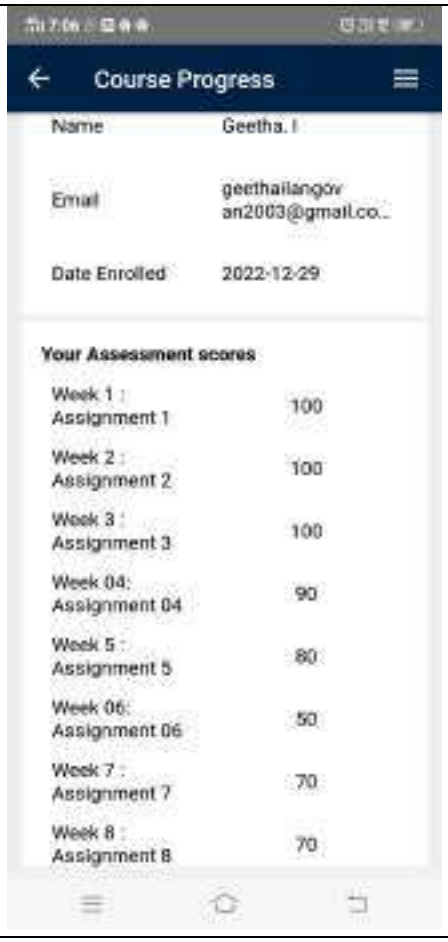
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	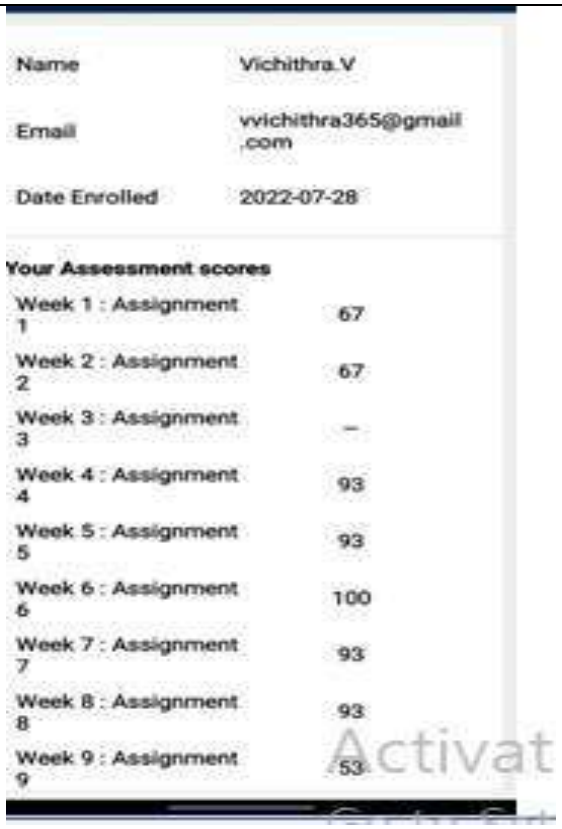		

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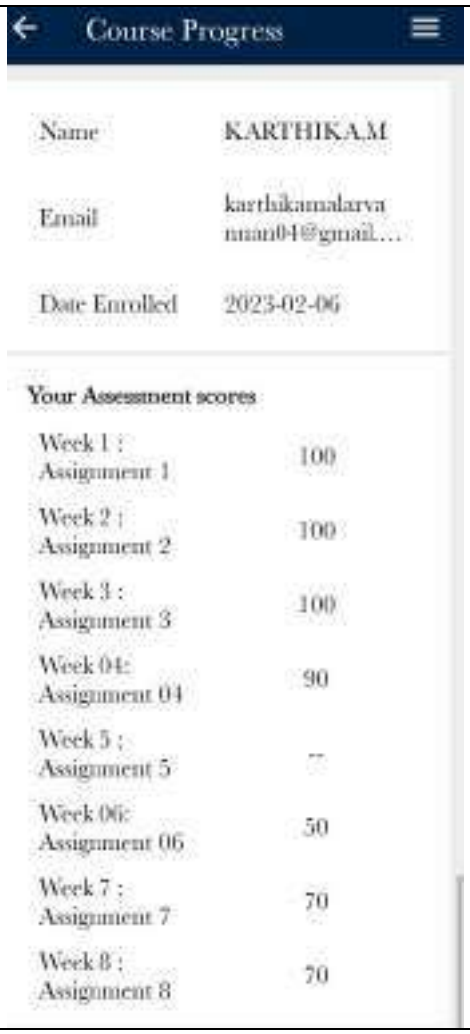
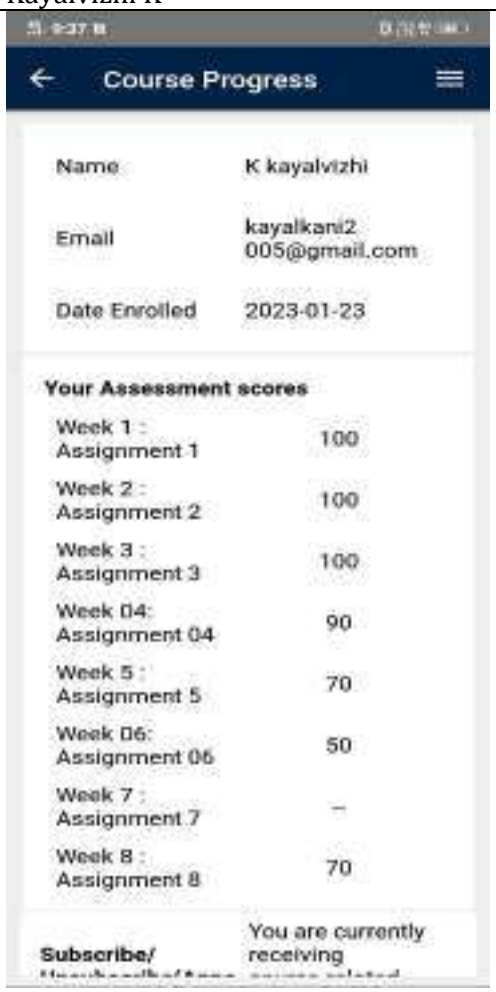
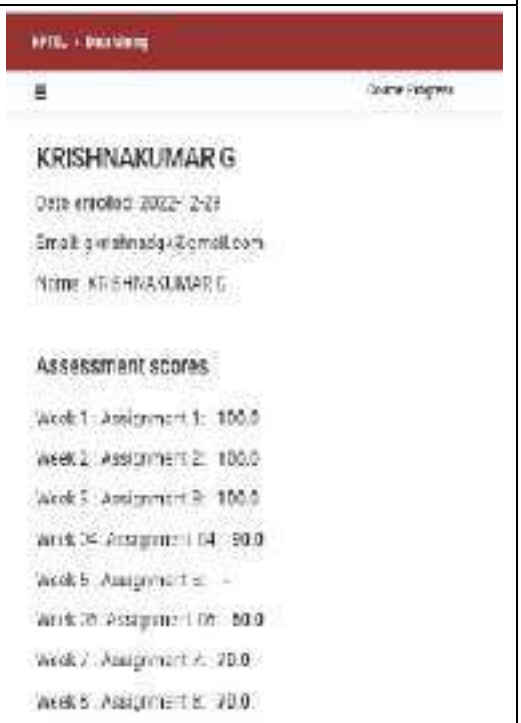
			

25	Keerthiga S	26.	Krishnakumar G
	KEERTHIGA. S Date enrolled: 2023-02-02 Email: keerthigaseralathan@gmail.com Name: KEERTHIGA. S Assessment scores Week 1 : Assignment 1: 100.0 Week 2 : Assignment 2: 100.0 Week 3 : Assignment 3: 100.0 Week 04: Assignment 04: 90.0 Week 5 : Assignment 5: 70.0 Week 06: Assignment 06: 50.0 Week 7 : Assignment 7: 70.0 Week 8 : Assignment 8: 70.0		 KRISHNAKUMAR G Assessment scores
27	Lavanya J	28.	Mahalakshmi V
	 LAVANYA J Assessment scores		V. MAHALAKSHMI Date enrolled: 2023-02-06 Email: lathamahalakshmi03@gmail.com Name: V. MAHALAKSHMI Assessment scores Week 1 : Assignment 1: 100.0 Week 2 : Assignment 2: 100.0 Week 3 : Assignment 3: 100.0 Week 04: Assignment 04: 80.0 Week 5 : Assignment 5: - Week 06: Assignment 06: 50.0 Week 7 : Assignment 7: 70.0 Week 8 : Assignment 8: 70.0

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	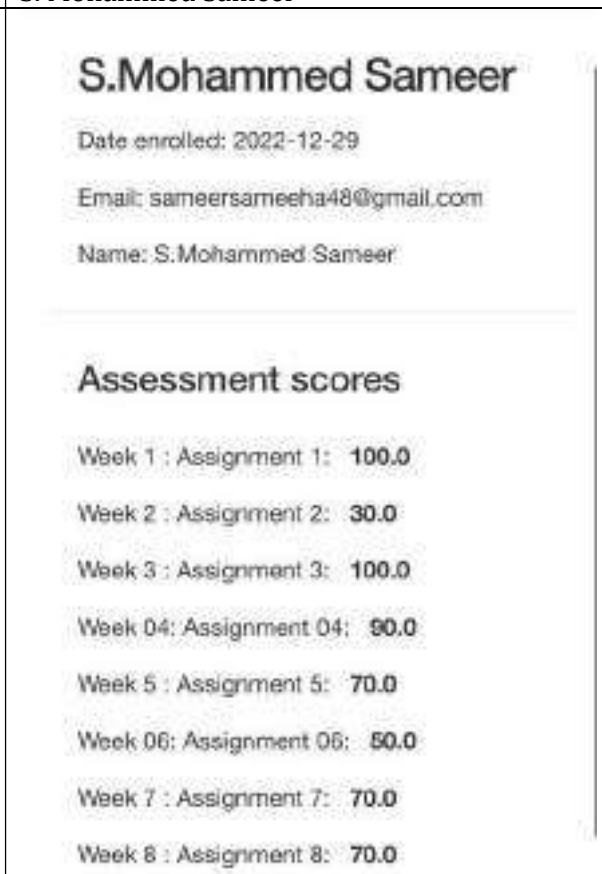		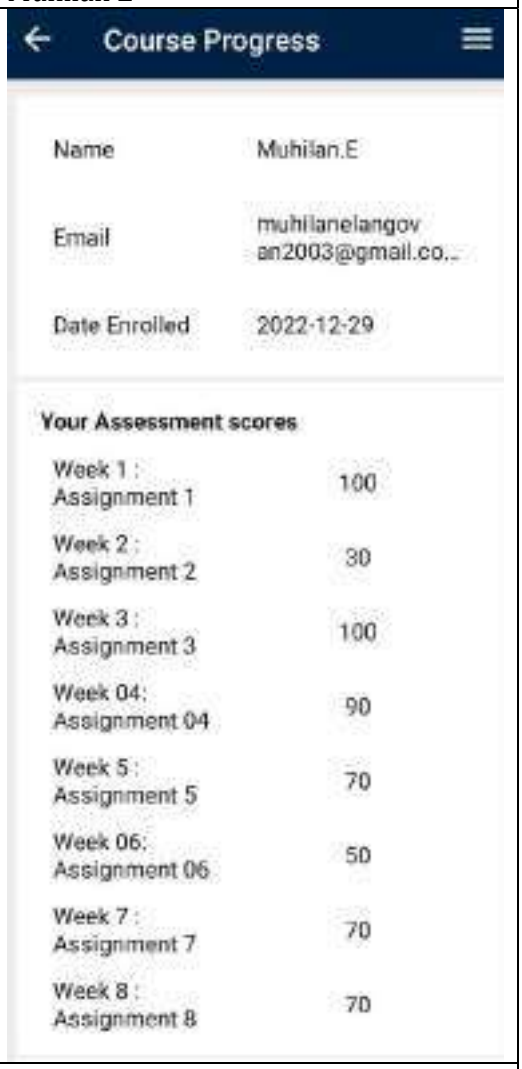
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			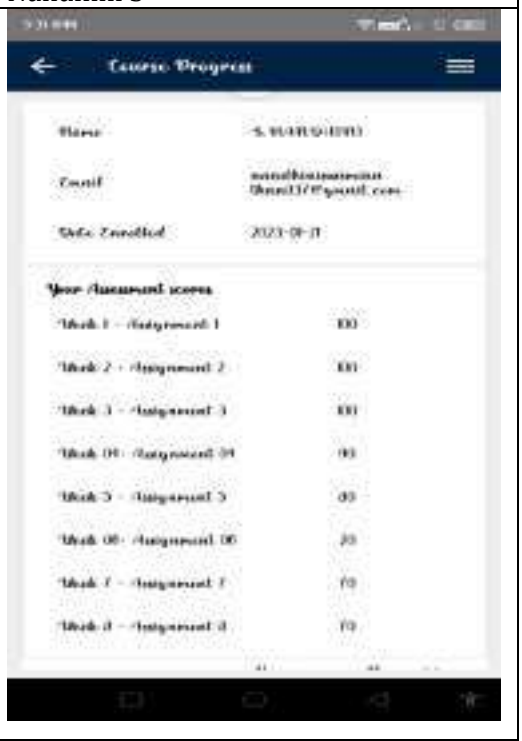

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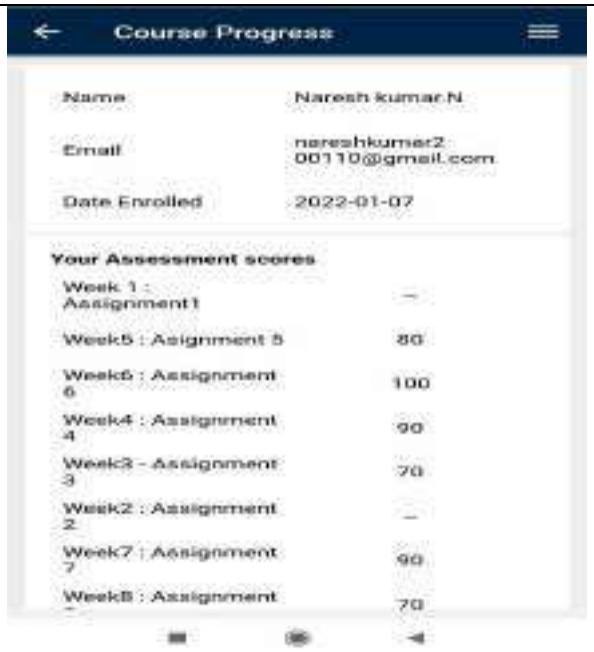

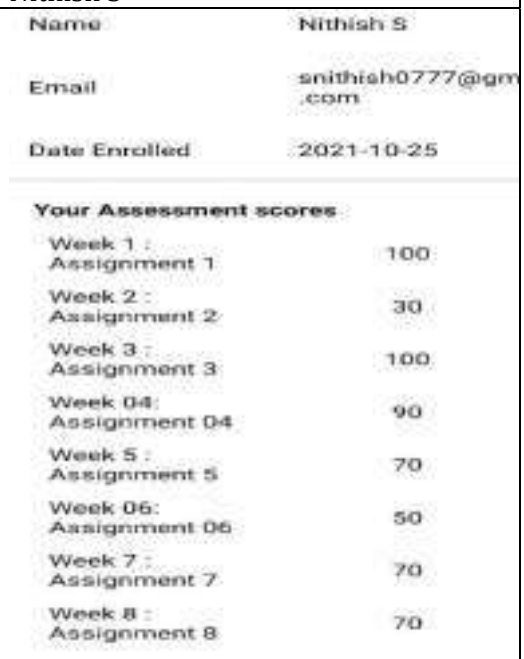

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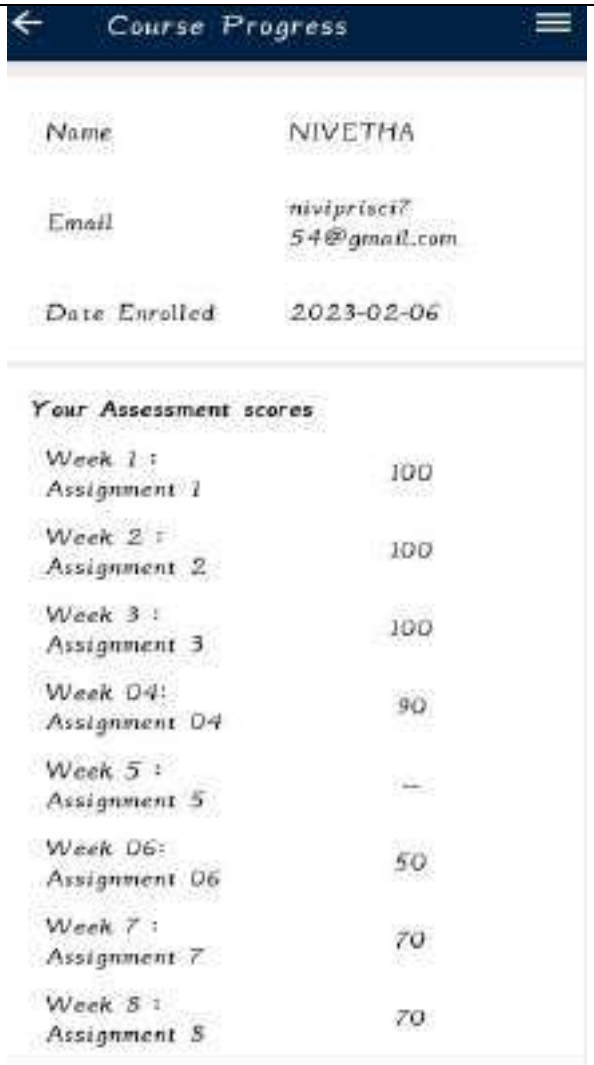
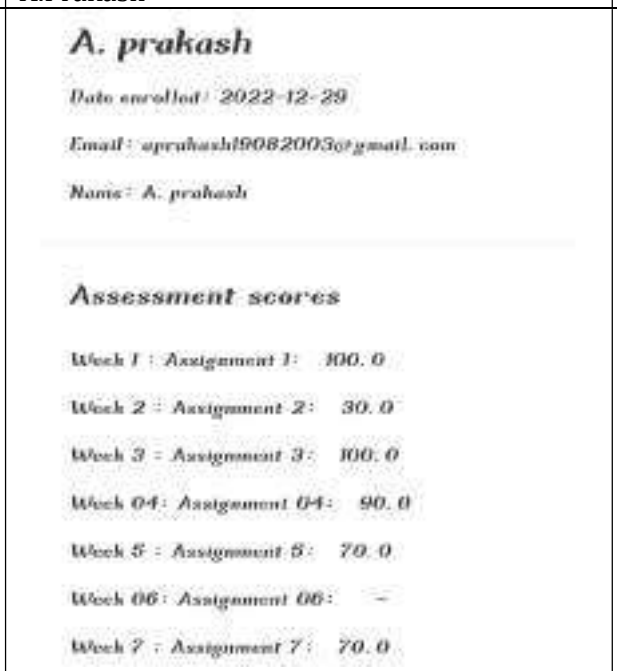
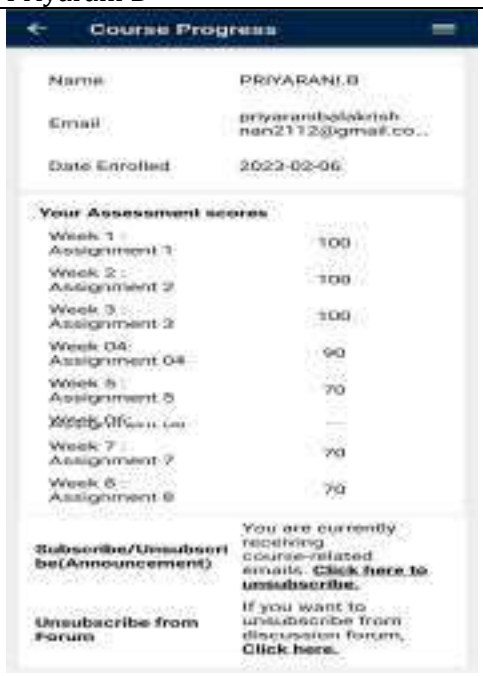
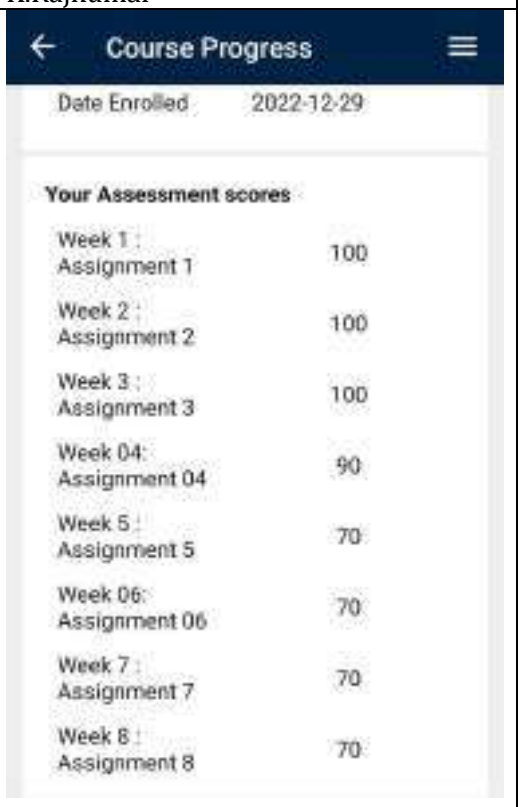
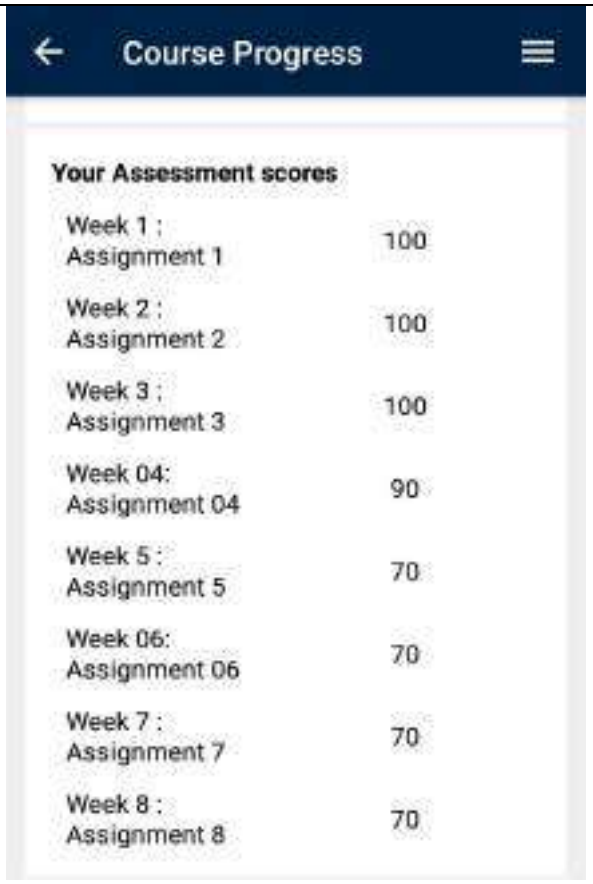
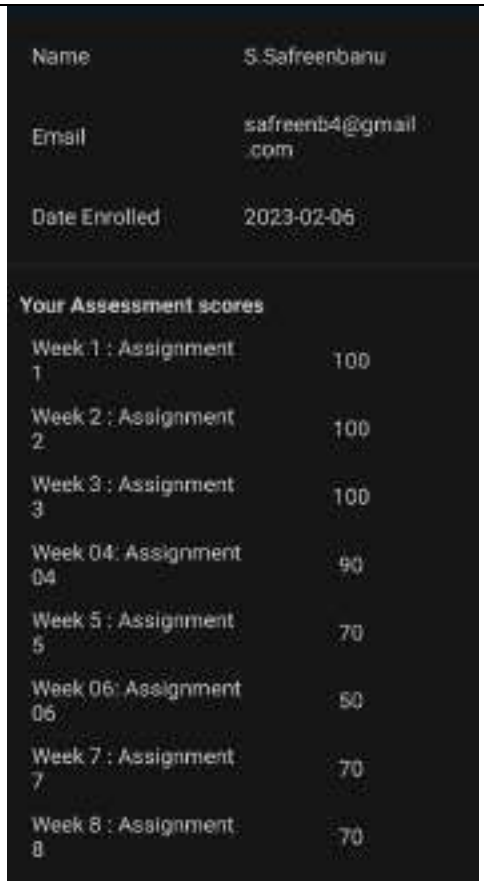
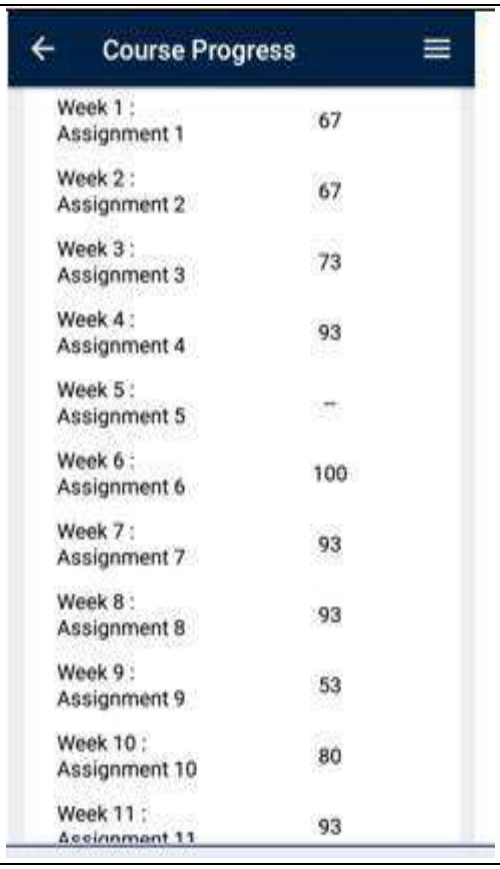


37	A.Prakash	38.	Priyarani B
			
39	J.Ragul Sankar	40.	K.Rajkumar
			

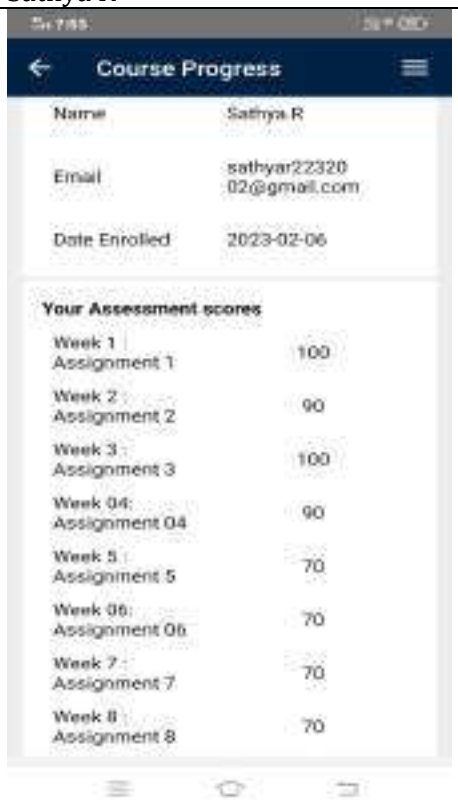
41	Reena S	42.	S. Safreenbanu
			
43	Santhosh Kumar	44.	Sarvesh
			

45	Sathya A	46.	Sathya R

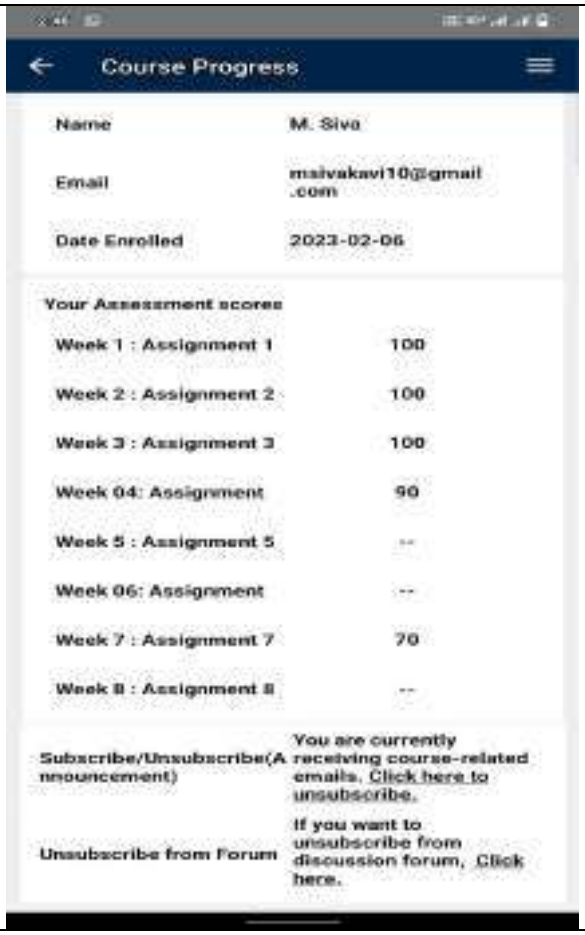
Name	A.Sathya
Email	sathyadsdikk slam5@gmail.com
Date Enrolled	2022-12-29

Your Assessment scores

Week 1 : Assignment 1	100
Week 2 : Assignment 2	100
Week 3 : Assignment 3	100
Week 04: Assignment 04	90
Week 5 : Assignment 5	--
Week 06: Assignment 06	--
Week 7 : Assignment 7	70
Week 8 : Assignment 8	70



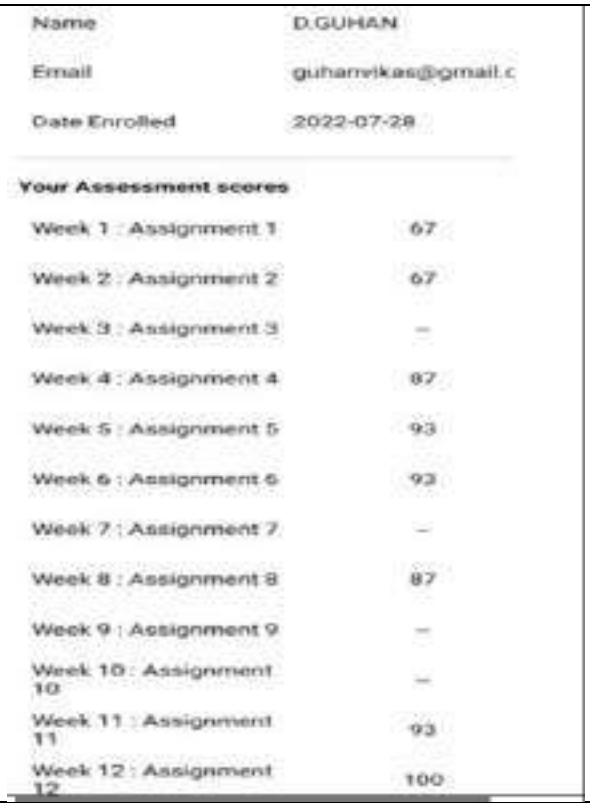
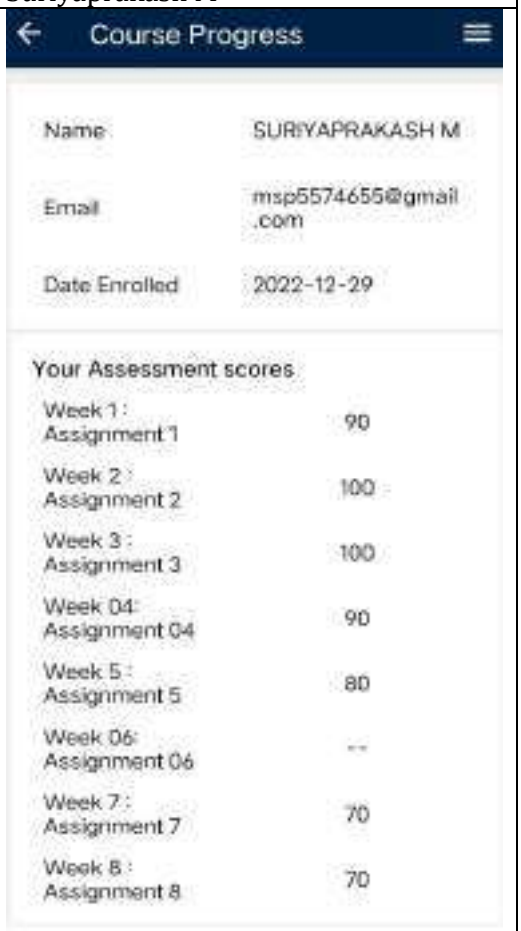
47	SIVA	48.	Snega S

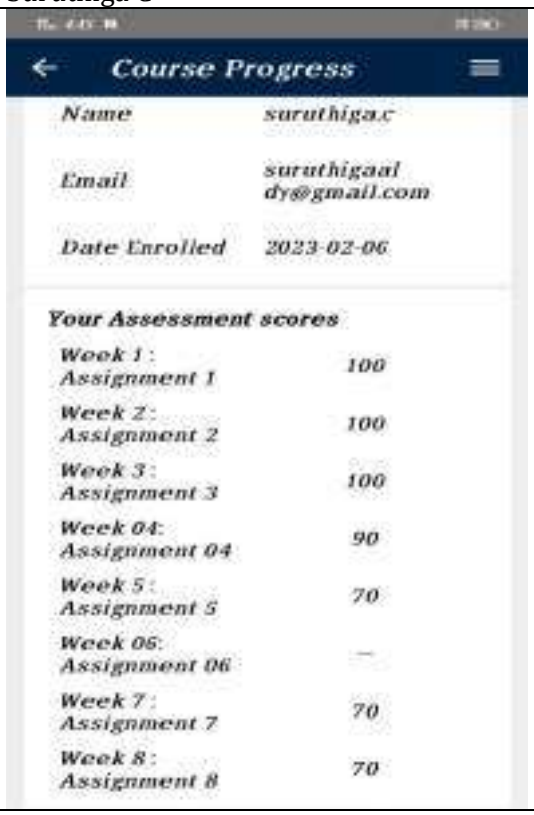
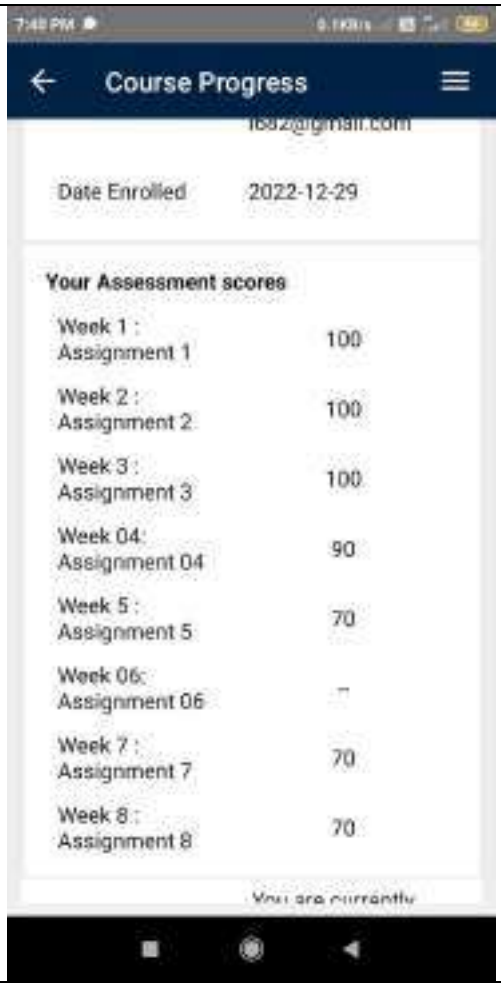


Name	Snega. S
Email	snegaseethara man42@gmail.com
Date Enrolled	2023-02-06

Your Assessment scores

Week 1 : Assignment 1	100
Week 2 : Assignment 2	100
Week 3 : Assignment 3	100
Week 04: Assignment 04	90
Week 5 : Assignment 5	70
Week 06: Assignment 06	50
Week 7 : Assignment 7	70
Week 8 : Assignment 8	70

49	Guhan D	50.	Sneha P
			
51	Sneka P	52.	Suriyaprakash M
			

53	Suruthiga C	54.	Vinthiya M
			
55	Varsha N N	56.	
			

57		

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2022-23 EVEN SEMESTER

SWAYAM COURSE – SYLLABUS

Blockchain and its Applications

INTRODUCTION:

In the last few years, Blockchain technology has generated massive interest among governments, enterprises, and academics, because of its capability of providing a transparent, secured, tamper-proof solution for interconnecting different stakeholders in a trustless setup. In January 2021, the Ministry of Electronics and Information Technology (MeITY), Government of India, published the first draft of the "National Strategy on Blockchain" that highlights 17 potential applications that are of national interest. Against this backdrop, this subject will cover the basic design principles of Blockchain technology and its applications over different sectors. Additionally, the course also provides tutorials on setting up blockchain applications using one of the well-adopted permissionless blockchain platforms - Ethereum, and one permissioned blockchain platform - Hyperledger.

Course layout

Week 1: Introduction to Blockchain Technology and its Importance
Week 2: Basic Crypto Primitives I – Cryptographic Hash
Week 3: Basic Crypto Primitives II – Digital Signature
Week 4: Evolution of the Blockchain Technology
Week 5: Elements of a Blockchain
Week 6: Blockchain Consensus I – Permissionless Models
Week 7: Blockchain Consensus II – Permissioned Models
Week 8: Smart Contract Hands On I – Ethereum Smart Contracts (Permissionless Model)
Week 9: Smart Contract Hand On II – Hyperledger Fabric (Permissioned Model)
Week 10: Decentralized Identity Management
Week 11: Blockchain Interoperability
Week 12: Blockchain Applications

Books and references

1. Mastering Blockchain: A deep dive into distributed ledgers, consensus protocols, smart contracts, DApps, cryptocurrencies, Ethereum, and more, 3rd Edition, Imran Bashir, Packt Publishing, 2020, ISBN: 9781839213199, book website: https://www.packtpub.com/product/mastering-blockchain-third-edition/9781839213199
2. Hyperledger Tutorials - https://www.hyperledger.org/use/tutorials
3. Ethereum Development Resources - https://ethereum.org/en/developers
4. Online materials and case studies

S. Kavitha 6/2/23
Course Co-Ordinator

6/2/23
HOD/CSE

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TIME TABLE (FEBRUARY 2023 - MAY 2023, EVEN SEM)

B.E – CSE (Reg. 2017) - With Effect from 06.02.2023 - Tentative Last Working Day - 12.05.2023

Batch:2019-2023 **Strength:60**

Year: IV **Semester: VIII** **Class Room : 225** **Block: II**

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	GE8076	CS8078	BREAK	T&P(A)	GE8076	LUNCH BREAK	SEM	CS8811	BREAK	CS8811	
TUE	CS8078	GE8076		CS8078	MCC		CS8811			S/Y	
WED	GE8076	CS8078		GE8076	CS8078		RWP	CS8811		CS8811	
THU	CS8078	GE8076		CS8078	T&P(SS)		MCC	IRT		IRT	
FRI	GE8076	CS8078		GE8076	LIB/NET		CS8811			CS8811	
SAT	CS8811			CS8811			CS8811			CS8811	

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), PROFESSIONAL ELECTIVE (PE)						
GE8076	Professional Ethics in Engineering	PE	3(PE-IV)	Dr.K.Sudhakar	MGMT	8
CS8078	Green Computing	PE	3(PE-V)	Ms.R.Suganthalakshmi	CSE	8
PRACTICAL						
CS8811	Project Work	EEC	10	Ms.R.Suganthalakshmi	CSE	20
VALUE ADDITION INTIATIVES (VAI)						
IRT	Industry Ready Training		VAI	Mr.M.Arun	CSE	3
LIB/NET	Library / Internet		VAI	Ms.R.Suganthalakshmi Mr.M.Arun Ms.S.Abikavil Aarthi	CSE	1
MCC	NPTEL Swayam Courses		VAI	Dr.S.Kannan	CSE	2
RWP	Report Writing Practice		VAI	Ms.R.Suganthalakshmi	CSE	1
SEM	Technical Seminar		VAI	Ms.S.Priyadharshini	CSE	1
S/Y	Sports/Yoga (Odd Week - Sports - Girls & Yoga - Boys)		VAI	Mr.S.Senthilnathan & Ms.B.Bavithra	CSE	2
T&P (A)	Training & Placement - Aptitude		VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training & Placement - Softskill		VAI	Dr.K.Sudhakar		1

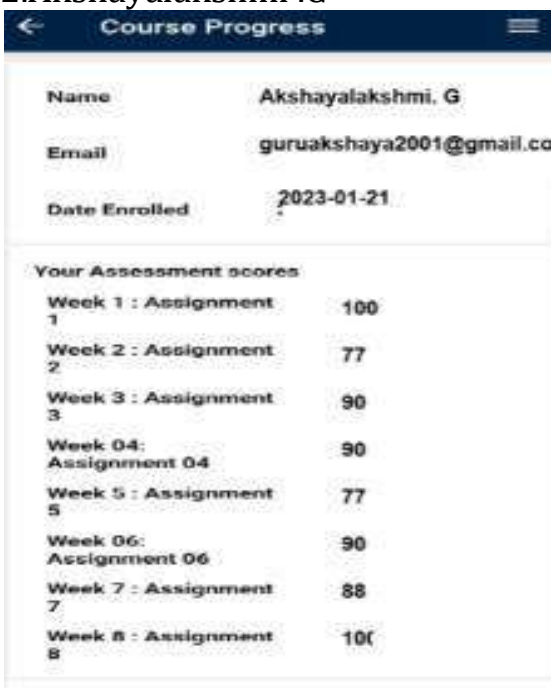
CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Ms.R.Suganthalakshmi	P.Deepika S.Vengatramanan	12 46
CLASS COMMITTEE CHAIR PERSON	Ms.N.Dhamayandhi	

DEPT. TTC 3/2/23 HOD 3/2/23 PRINCIPAL 3/2/2023

SCREENSHOTS

1.Aarthi .R

2.Akshayalakshmi .G



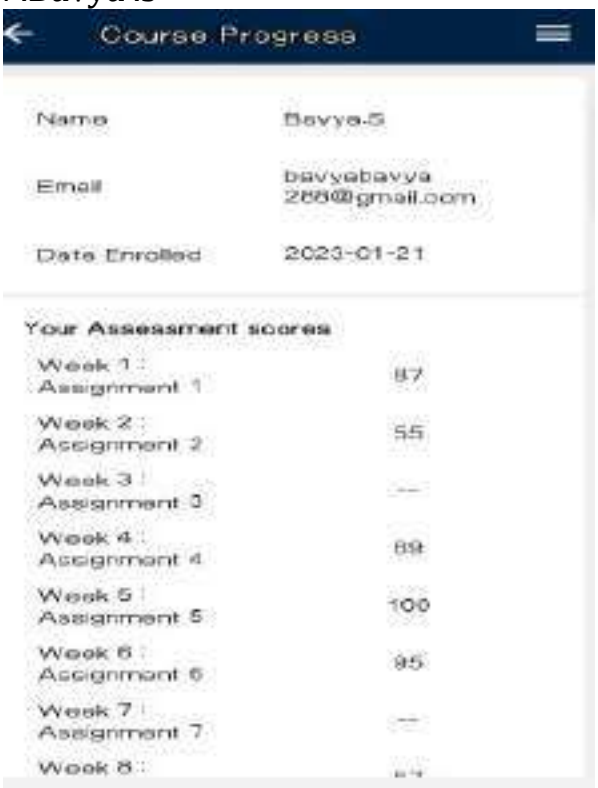
3.Aravind

4.Avudaiyappan .A B

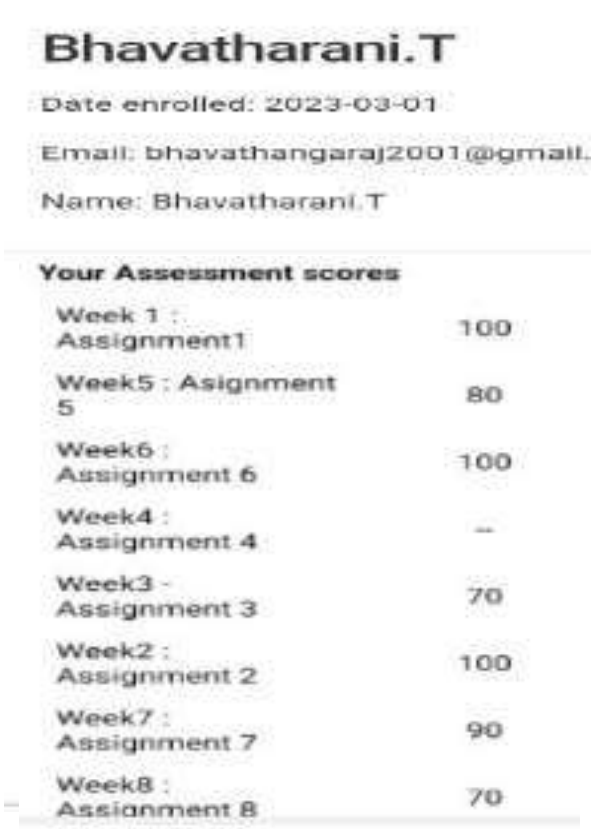
5.Bakiya Lakshmi .A

6.Balakrishnan.M

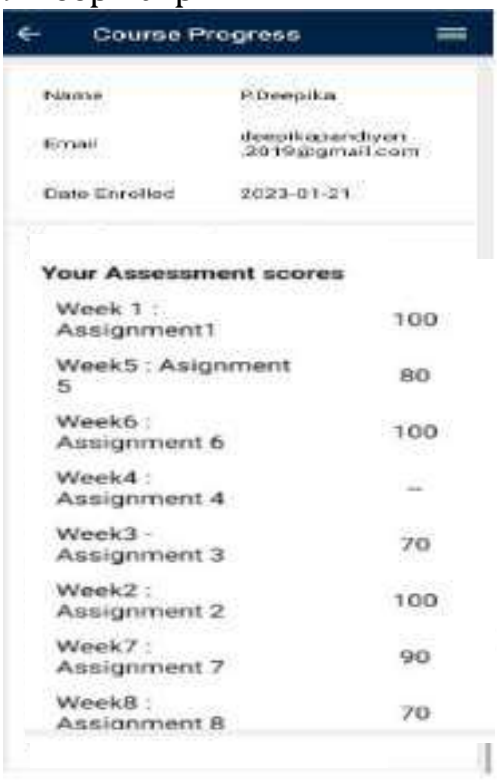
7.Bavya .s



8.Bhavatharini.T

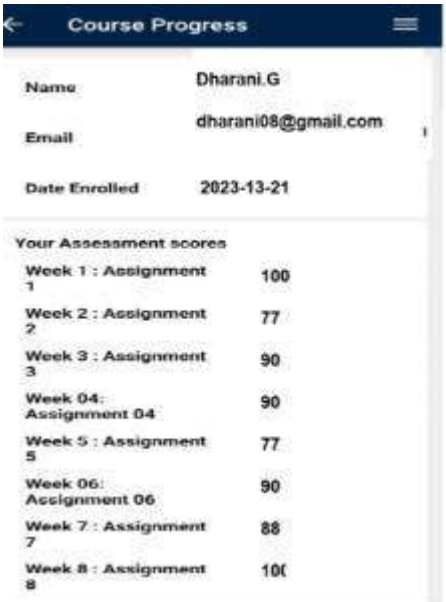


9.Deepika .p



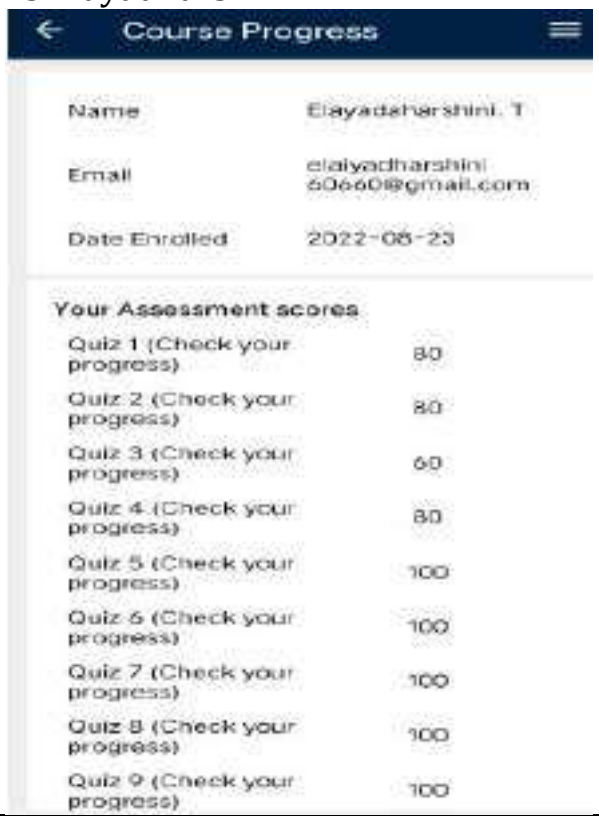
10.Devipriya .S

11.Dharani.G

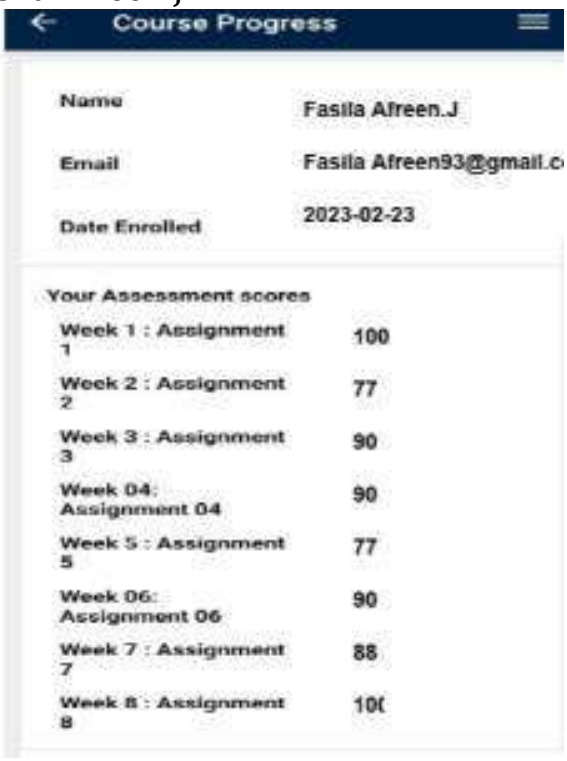


12.Divakaran.J

13.Elayadharsini.T



14.Fasila Afreen.J

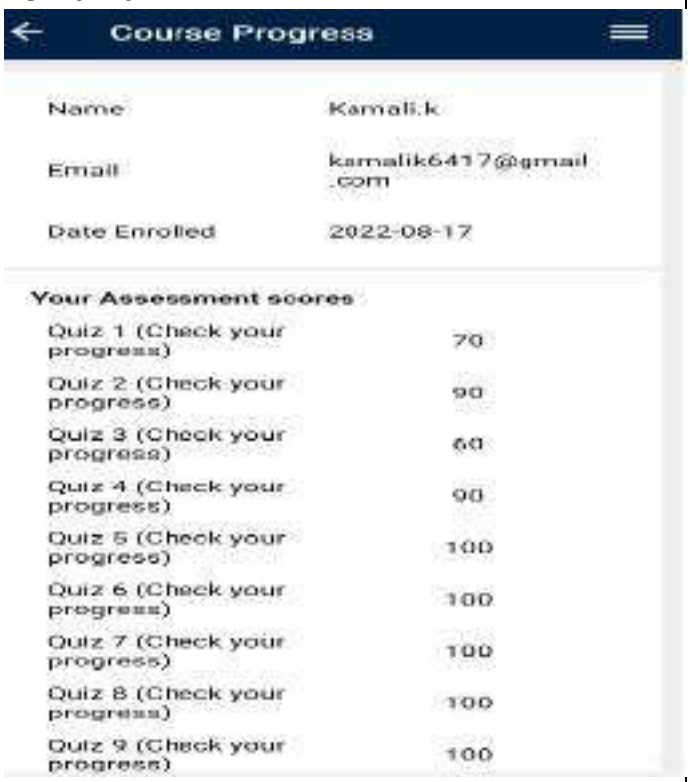


15.Gomathi.A

16.Gopinath.P

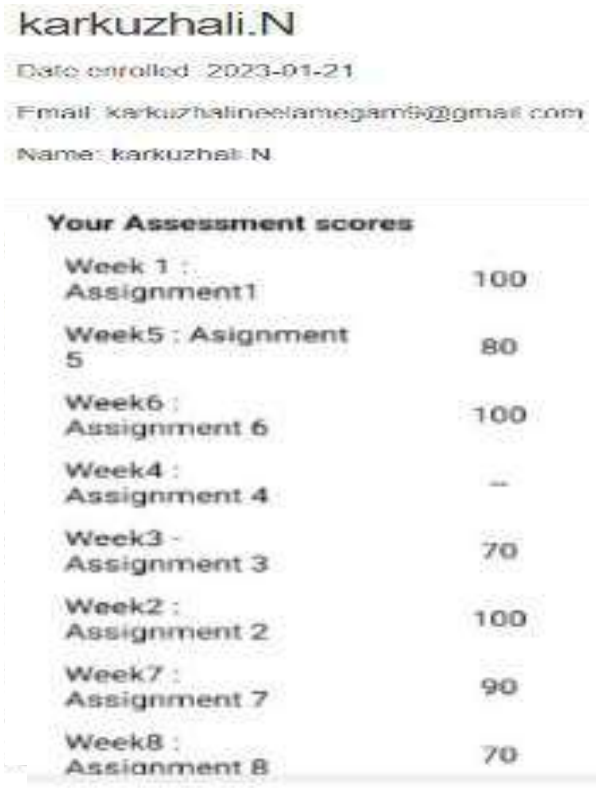
17.Govindharajan.K

18.Kamali.K

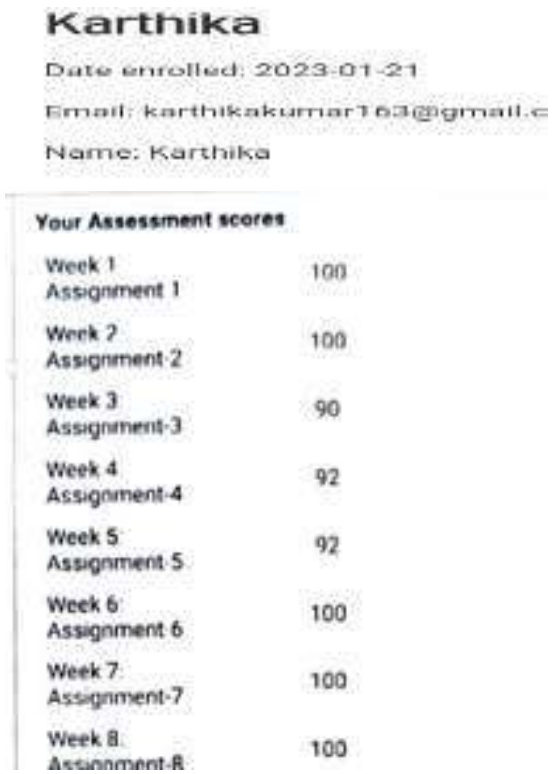


19.Kanishkar.K

20.Karkuzhali.N



21.Karthika.R



Karthika

Date enrolled: 2023-01-21

Email: karthikakumar163@gmail.c

Name: Karthika

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment 5	92
Week 6 Assignment 6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

22.Mohamed Yasir .A

Mohamed Yasir .A

Date enrolled: 2023-01-21

Email: mohamedyasir880@gmail.

Name: Mohamed Yasir .A

Assessment scores

Week1 : Assignment1 : 90.0

Week5 : Assignment 5 : 80.0

Week6 : Assignment 6 :

Week4 : Assignment 4 : 90.0

Week3 : Assignment 3 : 70.0

Week2 : Assignment 2 : 90.0

Week7 : Assignment 7 : 90.0

Week8 : Assignment 8 : 70.0

23.Muralitharan.N

Course Progress

Name	Muralitharan.N
Email	Muralitharan098@gmail.co
Date Enrolled	2023-02-23

Your Assessment scores

Week 1 : Assignment 1	100
Week 2 : Assignment 2	77
Week 3 : Assignment 3	90
Week 04: Assignment 04	90
Week 5 : Assignment 5	77
Week 06: Assignment 06	90
Week 7 : Assignment 7	88
Week 8 : Assignment 8	10(

24.Priyadharsini.E

Course Progress

Name	E.priyadharshini
Email	priyadharshin i95668@gmail.com
Date Enrolled	2022-01-02

Your Assessment scores

Week 1 : Assignment1	100
Week5 : Asignment 5	80
Week6 : Assignment 6	100
Week4 : Assignment 4	–
Week3 : Assignment 3	70
Week2 : Assignment 2	100
Week7 : Assignment 7	90
Week8 : Assignment 8	70

25.Ramakrishnan.E

Name	Ramakrishnan
Email	ramsaravanan15203@gmail.com
Date Enrolled	2023-01-21

Your Assessment scores

Week 1 : Assignment 1	42
Week 2 : Assignment 2	55
Week 3 : Assignment 3	—
Week 4 : Assignment 4	69
Week 5 : Assignment 5	100
Week 6 : Assignment 6	95
Week 7 : Assignment 7	85
Week 8 : Assignment 8	77
Week 9 : Assignment 9	65
Week 10 : Assignment 10	90
Week 11 : Assignment 11	95
Week 12 : Assignment 12	—

26.Rethinapriya.T

Rethinapriya

Date enrolled: 2023-01-21

Email: priyathanapal02@gmail.com

Name: Rethinapriya

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment 5	92
Week 6 Assignment 6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

27.sathish.T

sathish.T

Date enrolled: 2023-01-21

Email: mathaki8thravi19@gmail.com

Name: M.sathakithravi

Your Assessment scores

Week 1 Assignment 1	100
Week 2 Assignment 2	100
Week 3 Assignment-3	90
Week 4 Assignment-4	92
Week 5 Assignment 5	92
Week 6 Assignment 6	100
Week 7 Assignment-7	100
Week 8 Assignment-8	100

28.Selvabharathi.S

Course Progress

Name	S.selvabharathi
Email	selvabharathiak12002@gmail.com
Date Enrolled	2023-01-21

Your Assessment scores

Week 1 : Assignment 1	69
Week 2 : Assignment 2	60
Week 3 : Assignment 3	—
Week 4 : Assignment 4	69
Week 5 : Assignment 5	100
Week 6 : Assignment 6	—
Week 7 : Assignment 7	80
Week 8 : Assignment 8	67
Week 9 : Assignment 9	98
Week 10 : Assignment 10	—
Week 11 : Assignment 11	—
Week 12 : Assignment 12	78

29.Shakthivel .M

M.shakthivel

Date enrolled: 2023-01-21

Email: mshakthivel19@gmail.com

Name: M.shakthivel

Your Assessment scores

Week 1 : Assignment1	100
Week5 : Asignment 5	80
Week6 : Assignment 6	100
Week4 : Assignment 4	–
Week3 - Assignment 3	70
Week2 : Assignment 2	100
Week7 : Assignment 7	90
Week8 : Assignment 8	70

30.siva.G

Course Progress

G.Siva

Date enrolled: 2023-01-23

Email: vethaisiva420@gmail.com

Name: G.Siva

Your Assessment scores

Week 1 : Assignment1	100
Week5 : Asignment 5	80
Week6 : Assignment 6	100
Week4 : Assignment 4	–
Week3 - Assignment 3	70
Week2 : Assignment 2	100
Week7 : Assignment 7	90
Week8 : Assignment 8	70

31.Sivaranjani.S

Name	S.sivaranjani
Email	sshivaranjini20@gmail.com
Date Enrolled	2023-01-21

Your Assessment scores

Week 1 : Assignment 1	87
Week 2 : Assignment 2	50
Week 3 : Assignment 3	–
Week 4 : Assignment 4	69
Week 5 : Assignment 5	100
Week 6 : Assignment 6	95
Week 7 : Assignment 7	80
Week 8 : Assignment 8	–
Week 9 : Assignment 9	89
Week 10 : Assignment 10	–

32.Suguna .S

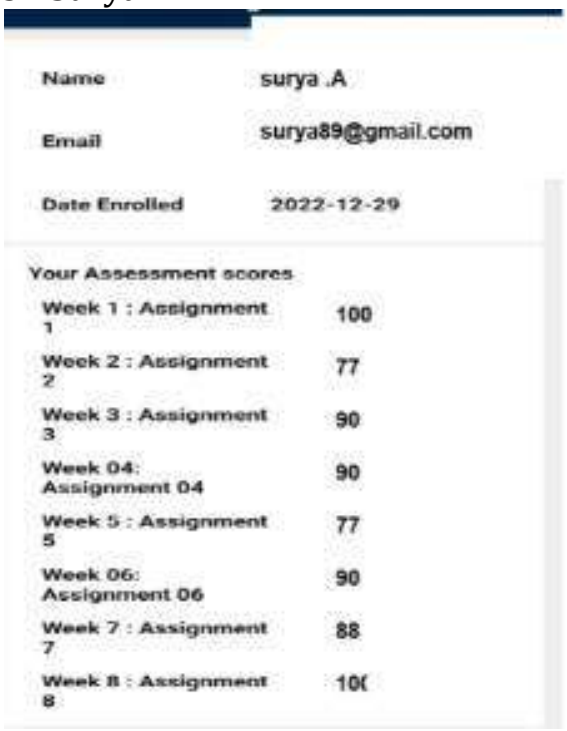
Course Progress

Your Assessment scores

Week 1 : Assignment 1	87
Week 2 : Assignment 2	50
Week 3 : Assignment 3	–
Week 4 : Assignment 4	69
Week 5 : Assignment 5	90
Week 6 : Assignment 6	50
Week 7 : Assignment 7	–
Week 8 : Assignment 8	57
Week 9 : Assignment 9	50
Week 10 : Assignment 10	
Week 11 : Assignment 11	–
Week 12 : Assignment 12	70

33.Suruthi.S

34.Surya.A



35.Suruthi.S

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2022- 23 EVEN SEMESTER

SWAYAM - REPORT

Course Details

Name of the course	Year	Duration of the course	Faculty Instructor	Start Date
Swayam courses on "Data Mining"	II	12 Weeks	Ms. S. Priyadharshini	6.2.23
Swayam courses on "Data Mining"	III	12 Weeks	Mrs. S. Puvaneswari	6.2.23
Swayam courses on "Block Chain and its Application"	IV	12 Weeks	Dr. S. Kannan	6.2.23

1. OBJECTIVE

- To understand data mining concepts.
- To understand basic algorithms like data preprocessing, association rules, classification, clustering, sequence mining and visualization.
- To understand the concepts of Block chain Technology.
- To understand the applications on Block chain.

2. COURSE COVERAGE

The course provided the students with

a. Data Mining

- Introduction to Data Preprocessing
- Association Rule Mining, Classification Basics
- Decision Tree, Bayes Classifier, K nearest neighbor
- Support Vector Machine, Kernel Machine
- Clustering, Outlier detection
- Sequence mining
- Evaluation, Visualization

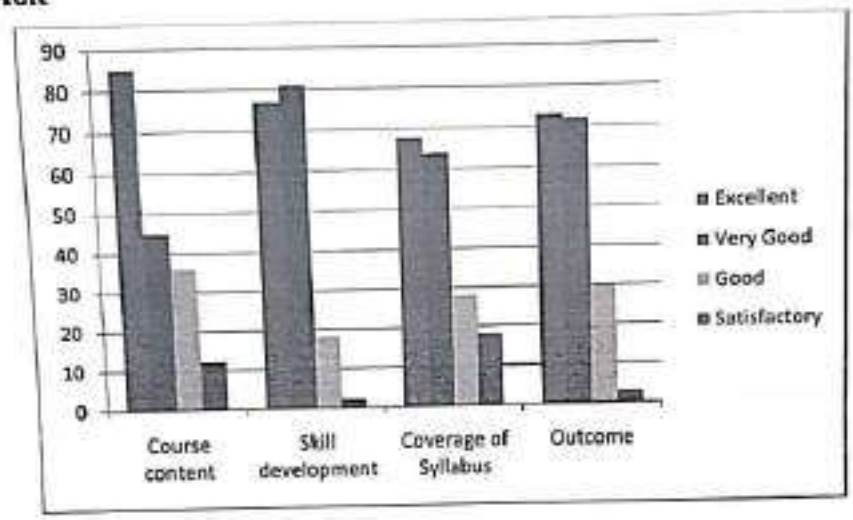
b. Block Chain and its Application

- Introduction to Blockchain Technology and its Importance
- Basic Crypto Primitives
- Evolution of the Blockchain Technology
- Smart Contract Hands On Ethereum Smart Contracts, Hyperledger Fabric

3. SYLLABUS COVERAGE

NAME OF THE COURSE	NO OF HOURS PLANNED	NO OF HOURS EXECUTED	NO OF UNITS COMPLETED
Data Mining	12 Weeks	12 Weeks	12
Block Chain and its Application	12 Weeks	12 Weeks	12

4. FEEDBACK



5. OUTCOME

- Understand the various concepts of Data mining.
- Understand the algorithms in data mining.
- Implement various data mining algorithm.
- Understand the concepts of Block chain.
- Understand the basic design principles of Block chain technology and its applications over different sectors.
- Implement various Block chain and its application.
- To set up block chain applications using one of the well-adopted permissionless blockchain platforms - Ethereum, and one permissioned blockchain platform - Hyperledger

22/5/23

COURSE COORDINATOR

22/5/23

HOD/CSE

H.O.D of Computer Science & Engineering
KINGS COLLEGE OF ENGINEERING
Punalkulam, Gandarvakottai (TK)
Pudukottai (Dt) - 613 303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR (2022–2023)

KINGS COLLEGE OF ENGINEERING

Recognised under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi.
Affiliated to Anna University, Chennai.

ACCREDITED WITH GRADE B++ NAAC

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CERT ISO 9001

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON PROGRAMS / CERTIFICATE COURSE DURING THE ACADEMIC YEAR

Academic Year 2022-23

Syllabus, Course Plan, Time table, Evaluation, Certificate, Outcome

S.No	COURSE TITLE
1.	VAC- IoT Using Arduino. III Yr
2.	Certification course on CCTV" -IV Yr & III Yr
3.	GATE and Competitive Exam Coaching. III Yr
4.	SWAYAM course on "Python for Data Science" - IV Yr
5.	SWAYAM course on "C Programming And Assembly Language" - IV Yr
6.	MHRD sponsored IIT Bombay certification course on "SCILAB"– II Yr
7.	MHRD sponsored IIT Bombay certification course on "INKSCAPE"– III Yr
8.	MHRD sponsored IIT Bombay certification course on "ARDUINO"– IV Yr
9.	GATE and Competitive Exam Coaching. III Yr
10.	SWAYAM course on "Computer Networks" - II Yr
11.	SWAYAM course on "Communication Networks" - II Yr
12.	SWAYAM course on "Systems and Usable Security" - II Yr
13.	SWAYAM course on "Digital Electronics and Microprocessor" - III Yr
14.	SWAYAM course on "Introduction to programming in C" - IV Yr
15.	SWAYAM course on "Introduction to machine learning" - IV Yr
16.	MHRD sponsored IIT Bombay certification course on "GIMP"– II Yr
17.	MHRD sponsored IIT Bombay certification course on "LATEX"– III Yr
18.	MHRD sponsored IIT Bombay certification course on "eSIM"– IV Yr

D. Venkatesh 26/5/23

FACULTY IN-CHARGE

26/5/23

HOD/ECE

26/5/2023

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEM)

VALUE ADDED COURSE

SYLLABUS

SUBJECT CODE/NAME: IOT using Arduino

YEAR/SEMESTER: III/V

PREPARED BY

Mr. T. JEYASEELAN AP/ECE

SYLLABUS

Internet of things (IOT) using Arduino

L	T	P	C
1	0	1	2

UNIT I INTRODUCTION TO IOT SYSTEM ARCHITECTURE 6

Introduction to internet of things (IOT) -IOT Architecture and protocols-Hardware and Software Development Platforms for IOT- Real time Examples of IOT-Overview of IOT components- IOT Communication Technologies-Challenges in IOT.

UNIT II ARDUINO INTEGRATED DEVELOPMENT ENVIRONMENT 6

Introduction to Arduino IDE-Arduino Libraries-Embedded C programming for Arduino IDE-Interfacing LED, push button, buzzer, Relay, LCD, Ultrasonic sensor, IR sensor and temperature and humidity sensor with Arduino Development board.

UNIT III NETWORKING WITH ESP8266 WI-FI MODULE AND NODE MCU 6

Introduction to ESP8266 Wi-Fi Module and NODE MCU- Wi-Fi library- Wireless Networking using ESP8266 Wi-Fi Module and NODE MCU - Web server-introduction, installation and configuration-Posting real-time sensor(s) data to web server.

UNIT IV CLOUD PLATFORMS FOR IOT 6

Cloud Architecture- Virtualization concepts- Cloud computing- benefits-Cloud services -Cloud providers - IOT Cloud platforms-ThingSpeak API and MQTT-Interfacing ESP8266 with Web services.

UNIT V IMPLEMENTATION OF REAL TIME APPLICATIONS USING IOT 6

Implementation of Thermometer using IOT- smart farming using IOT-Real time air pollution monitoring system using IOT-LPG gas leakage and fire alert safety system using IOT and monitoring on ThingsSpeak cloud platform- Remote wireless control of home appliances and industrial machines using IOT- IOT Smart watch for pulse rate monitoring.

TOTAL: 30 PERIODS

4/8/22

Staff in-charge
JEYASEELAN.T, AP/ECE

4/8/22

HOD/ ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE PLAN

Sub. Code	: -	**Branch / Year / Sem**	: B.E ECE / III /V
Sub. Name	: **IOT using Arduino**	**Batch**	: 2019-2023
Staff Name	: Mr.T.Jeyaseelan	**Academic Year**	: 2022 - 23 (ODD)

COURSE OBJECTIVE

- To make the students to apply fundamental concepts in Internet of Things (IOT) for providing solutions for real-time system design.
- To provide practical experience to the students on interfacing of Input-Output devices, sensors and communication devices with the IOT device.
- To introduce the basic concepts in IOT Cloud platforms.
- To practice the students to implement IOT system for the real time applications

TEXT BOOKS

T1. "Internet of Things - A Hands-on Approach", Arshdeep Bahga and Vijay Madisetti, Universities Press, 2015

T2. "Internet-of-Things (IoT) Systems Architectures, Algorithms, Methodologies", Dimitrios Serpanos Marilyn Wolf

REFERENCE BOOKS

R1. "Building Arduino Projects for the Internet of Things", Adeel Javed

R2. "Sensors and Transducers", Ian R.Sinclair, Third edition, Newnes.

R3. "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", by Pethuru Raj and Anupama C. Raman (CRC Press)

R4."C Programming for Embedded Systems", Kirk zurell, R&D books, CMP media, Inc, USA.

WEB RESOURCES

W1. https://www.rfpage.com/applications-of-internet-of-things-iot/ **(Topic No. 04)**

W2.http://www.eng.auburn.edu/~nelson/courses/elec3040_3050/C%20programming%20for%20embedded%20system%20applications.pdf **(Topic No. 09)**

W3.https://create.arduino.cc/projecthub/electronicsfan123/interfacing-ultrasonic-sensor-with-arduino-uno-5e49d2?ref=part&ref_id=8233&offset=28 **(Topic No. 10-12)**

W4. https://www.electronics-tutorials.ws/io/io_7.html **(Topic No. 18)**

W5. https://create.arduino.cc/projecthub/ejshea **(Topic No. 20, 27-29)**

W6. https://cloud.google.com/architecture/iot-overview **(Topic No. 19, 22, 23)**

W7. https://iot4beginners.com/introduction-to-nodemcu_esp8266/ **(Topic No. 13, 15-18, 24-30)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	**INTRODUCTION TO IOT SYSTEM ARCHITECTURE**					**(6)**
1.	Introduction to internet of things (IOT)	T1 T2	20-23 1-5	PPT	1	1
2.	IOT Architecture and protocols	T1 T2	23-28 7-14	PPT	1	2
3.	Hardware and Software Development Platforms for IOT	T2	17-22	PPT	1	3
4.	Real time Examples of IOT	W1	-	PPT	2	5
5.	Overview of IOT components	T1	66-69	PPT		
6.	IOT Communication Technologies, Challenges in IOT.	R1	35-40	PPT	1	6
LEARNING OUTCOME At the end of unit, students will be able to • Know the functional components of IOT system. • Understand the concept and architecture of IOT system.						
UNIT II	**ARDUINO INTEGRATED DEVELOPMENT ENVIRONMENT**					**(6)**
7.	Introduction to Arduino IDE	R1	3-12	PPT	2	8
8.	Arduino Libraries	R1	15-33	Practical		
9.	Embedded C programming for Arduino IDE	R1 W2	9-12 -	Practical	1	9
10.	Interfacing LED, push button, buzzer, Relay and LCD with Arduino Development board	R4 R2 W3	114-115 37-40 -	Practical	1	10
11.	Interfacing Ultrasonic sensor and IR sensor with Arduino Development board	W3	-	Practical	1	11
12.	Interfacing temperature and humidity sensor with Arduino Development board	W3	-	Practical	1	12
LEARNING OUTCOME At the end of unit, students will be able to • Know the basics of Arduino Integrated Development Environment. . • Develop a physical entity (thing) for IOT application.						
UNIT III	**NETWORKING WITH ESP8266 WI-FI MODULE AND NODE MCU**					**(6)**
13.	Introduction to ESP8266 Wi-Fi Module and NODE MCU	W7	-	PPT	1	13

14.	Wi-Fi library	R1	35-40	Practical	1	14
15.	Wireless Networking using ESP8266 Wi-Fi Module and NODE MCU	W7	-	Practical	1	15
16.	Web server- introduction	W7	-	Practical	1	16
17.	installation and configuration of Web server	W7	-	Practical	1	17
18.	Posting real-time sensor(s) data to web server.	W4,W7	-	Practical	1	18

LEARNING OUTCOME

At the end of unit, students should be able to

- Know the configuration of ESP8266 WI-FI Module and NODE MCU**.**
- Implement a web server for Real-time IOT applications.

UNIT IV CLOUD PLATFORMS FOR IOT (6)

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
19.	Cloud Architecture	W6	-	PPT	1	19
20.	Virtualization concepts	T1	69-77	Practical	1	20
21.	Cloud computing, benefits	T1 T2	36-44 296-308	Practical	1	21
22.	Cloud services ,Cloud providers	W6	-	Practical	1	22
23.	IOT Cloud platforms-ThingSpeak API and MQTT	W6	-	Practical	1	23
24.	Interfacing ESP8266 with Web services.	W7	-	Practical	1	24

LEARNING OUTCOME

At the end of unit, students will be able to

- Cloud platforms for IOT.
- Implement IOT application in ThingSpeak cloud.

UNIT V IMPLEMENTATION OF REAL TIME APPLICATIONS USING IOT (6)

25.	Implementation of Thermometer using IOT	W7	-	Practical	1	25
26.	smart farming using IOT	W7	-	Practical	1	26
27.	Real time air pollution monitoring system using IOT	T1 W5,W7	52-57 -	Practical	1	27
28.	LPG gas leakage and fire alert safety system using IOT and monitoring on ThingsSpeak cloud platform	T1 W5,W7	48-50 -	Practical	1	28
29.	Remote wireless control of home appliances and industrial machines using IOT	W5,W7	-	Practical	1	29
30.	IOT Smart watch for pulse rate monitoring.	T1 W7	62-63	Practical	1	30

LEARNING OUTCOME

At the end of unit, students will be able to

- Design Real-time IOT systems.
- Implement Real-time IOT applications.

COURSE OUTCOME

At the end of the course, the students will be able to

- Apply knowledge of Electronics and recent technologies for realizing IOT systems
- Design applications based on sensors, IO devices, peripherals, Wi-Fi Module and NODE MCU.
- Formulate Hardware and software design of real-time IOT system.
- Build real-time IOT applications.

INTERNAL ASSESSMENT DETAILS

ASST. NO.	I	II
Topic Nos.	1 - 15	16-30
Date		

Prepared by 04/08/2022
T.JEYASEELAN

4/8/2022
Verified By
HOD/ECE

05/8/2022
Approved by
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Academic Year 2022-23 / ODD Semester

VALUE ADDED COURSE TIME TABLE

B.E –ECE (Regulation 2017)

Batch : 2020-2024

Year & Branch: III ECE **Semester: V**

Session	1	2		3	4		5	6		7	8
Day	09.15am - 10.00am	10.00am - 10.45am	10.45 am - 11.00 am	11.00am - 11.45am	11.45am - 12.30pm	12.30 pm - 01.10 pm	01.10pm - 01.55pm	01.55 pm - 02.40 pm	02.40 pm - 02.50 pm	02.50pm - 03.35pm	03.35 pm - 04.20 pm
SAT	(Theory Session)	(Practical Session)	BREAK	(Practical Session)		LUNCH BREAK			BREAK		

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
IVA067	**IOT using Arduino**	2	Mr.T.Jeyaseelan, AP/ECE	ECE	3

4/8/22

DEPT.VACC
(JEYASEELAN.T, AP/ECE)

4/8/22

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course. Code	: IVA067	**Branch / Year / Sem**	: B.E ECE / III /V
Course. Name:	IOT using Arduino	**Batch**	: 2020-2024
Staff Name	: Mr. T. IEYASEELAN	**Academic Year**	: 2022-23 (Odd)

VALUE ADDED COURSE ASSESSMENT MARK STATEMENT

S.NO	REG.NO	STUDENTS NAME	ATT-1 (10.08.22 – 20.09.22) Conducted Hours : 16	ATT-2 (21.09.22 – 19.11.22) Conducted Hours : 14	ASS-I Mark (100)	ASS-II Mark (100)
1	821120106001	AJAY A	16	14	90	95
2	821120106002	AMAR SAMUEL L	16	14	80	86
3	821120106003	ANBURAJ R	16	14	80	85
4	821120106004	ANJALINE SNEKA J	16	14	87	91
5	821120106005	ANUSUYA V	16	14	85	88
6	821120106006	DEEPAKRAJ T	16	14	82	87
7	821120106008	DEVADHARSHINI B	16	14	87	94
8	821120106009	DHIVYA DHARSHINI M	16	14	86	90
9	821120106010	DURGADEVI G	16	14	86	92
10	821120106012	GURU RAGAVAN R K	16	14	82	90
11	821120106013	HARIHARAN D	16	14	80	86
12	821120106014	JAISHREE A	16	14	88	95
13	821120106015	JANANI B	16	14	84	88
14	821120106016	JOTHIKA G	16	14	87	95
15	821120106017	KAVI NILA J	16	14	90	96
16	821120106018	KEERTIGA S	16	14	90	94
17	821120106019	KIRTHICKVASAN S	16	14	80	87
18	821120106020	LOGESHWARAN M	16	14	80	84
19	821120106021	MAHALAKSHMI R	16	14	90	94
20	821120106022	MANIYARASI R	16	14	84	88
21	821120106025	NANDHINI R	16	14	82	86
22	821120106026	NATIKA K S	16	14	88	95
23	821120106027	NAVIN G	16	14	77	79
24	821120106028	NIVYA P	16	14	87	94

S.NO	REG.NO	STUDENTS NAME	ATT-1 (10.08.22 - 20.09.22) Conducted Hours : 16	ATT-2 (21.09.22 - 19.11.22) Conducted Hours : 14	ASS-I Mark (100)	ASS-II Mark (100)
25	821120106029	PREETHI S	16	14	87	94
26	821120106030	PRIYADHARSHINI J	16	14	87	92
27	821120106031	PRIYANGA R	16	14	86	94
28	821120106033	RANJITH M	16	14	83	88
29	821120106034	SANDEEP R	16	14	82	85
30	821120106035	SATHISHKANNAN S	16	14	90	95
31	821120106036	SHAFRIN S	16	14	82	85
32	821120106037	SHANMUGAPRIYA V	16	14	90	95
33	821120106038	SIVASETHUMATHAVAN D	16	14	92	96
34	821120106039	SOLAIMANI G	16	14	88	92
35	821120106040	SURUTHI S	16	14	90	95
36	821120106041	SWATHI SHUKI M	16	14	92	97
37	821120106042	TAMILAZHAHI M	16	14	87	88
38	821120106043	THENMOZHI J	16	14	88	90
39	821120106044	THIYAHALAKSHIMI T	16	14	94	97
40	821120106045	THIRISHAMALINI T	16	14	88	89
41	821120106046	VENKATESH M (VOC)	16	14	85	82
42	821120106047	VENNILA D	16	14	87	92
43	821120106048	VIGNESHWARI A	16	14	87	92
44	821120106301	JANANARTHANAN R	16	14	78	80
45	821120106302	MADHAN S	16	14	79	80
46	821120106303	SUNDARA VIGNESH G	14	12	77	79

COURSE COORDINATOR
(JEYASEELAN.T)

23/11/22

HOD/ECE

23/11/22

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR (2022-2023) ODD SEMESTER

VALUE ADDED COURSE "IVA067- IOT using Arduino" -REPORT

30.11.22

The Department of ECE, Kings College of Engineering, Punalkulam, Pudukkottai District, conducted a Value added course on **"IVA067-IOT using Arduino"** from 18.08.2022 to 30.11.2022 for the third year (V semester) ECE students. Totally 46 students have enrolled for the course. Mr.T.Jeyaseelan Assistant Professor, Department of Electronics and Communication Engineering coordinated the course.

The syllabus for the value added course IVA067- IOT using Arduino includes five units covering the topics such as introduction to Arduino, Interfacing with Zigbee, Real time applications, Li-Fi with Arduino and IOT configuration & Integration.

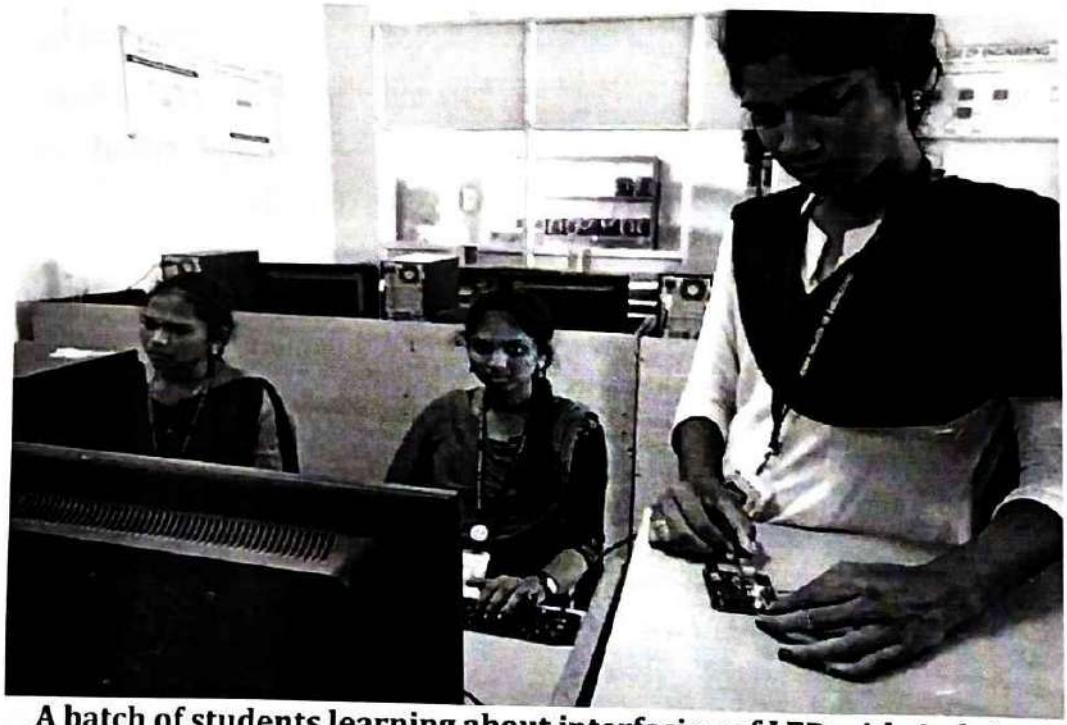
The value added course is a Practical oriented course with 2 credits and was approved by The Director, Center for Academic Courses, Anna University, Chennai-25 with the course code **IVA019**. The Value added course commenced on 18.08.2022 and ended on 30.11.2022. The course was successfully completed for the batch 2020-2024.

The outcome of this value added course is that students can design and build Real time applications interfacing with sensors and Robot. They can also implement wireless data transmission using Arduino. This course created a platform for the students in which they can implement a typical IOT application such as sensor data monitoring on cloud using IOT. They can also develop and build other IOT applications such as smart farming using IOT, Real time air pollution monitoring system using IOT, Remote wireless control of home appliances or industrial machines using IOT etc.,

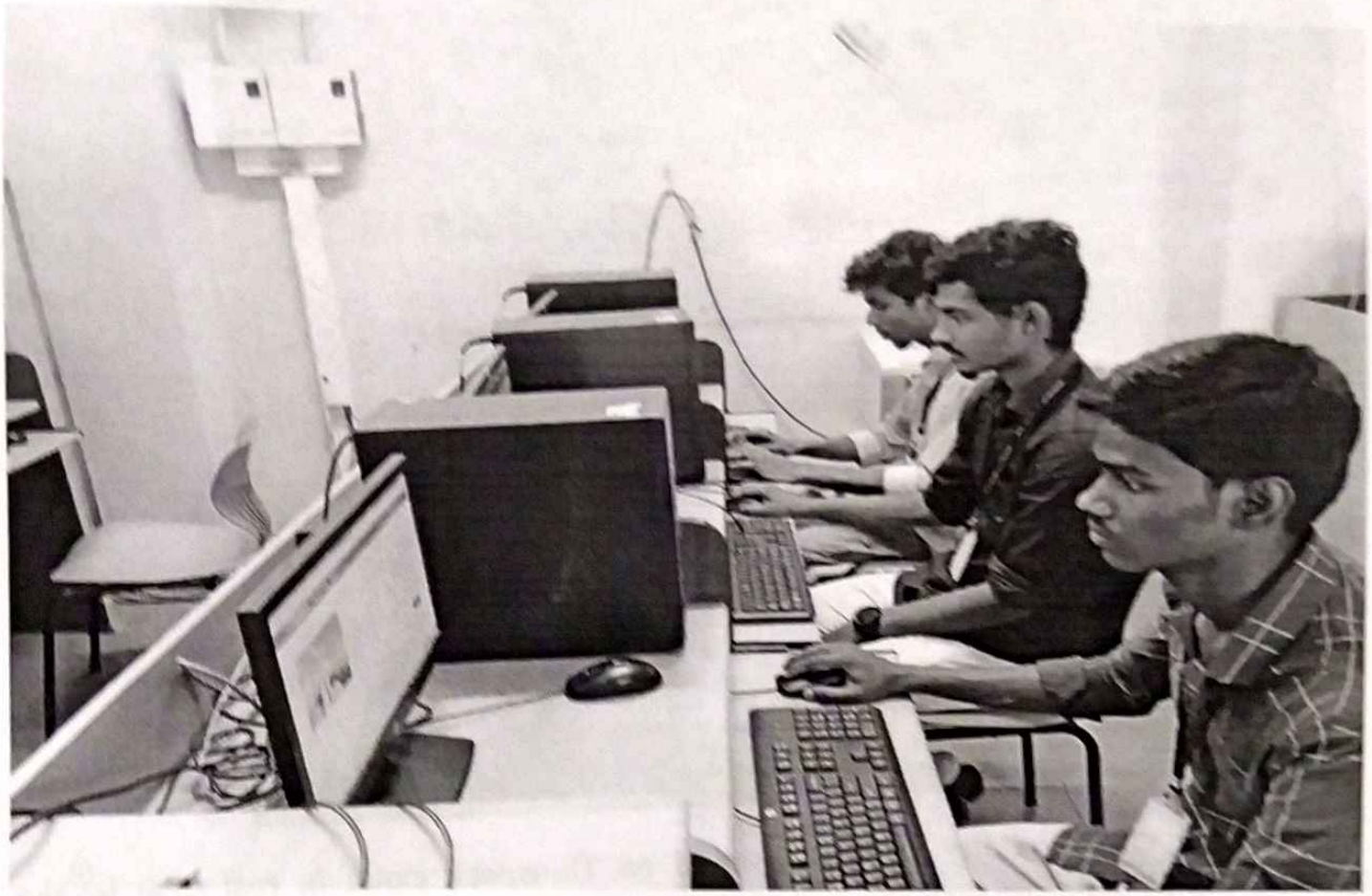
After completion of this value added course each student can earn 2 credits in their curriculum. The Evaluation of this Value added course is performed by conducting two

Assessment tests. The Assessment tests are both theoretical and practical oriented. The grade obtained for the completed value added course shall appear in their fifth semester Grade sheet which will be issued by the Anna University.

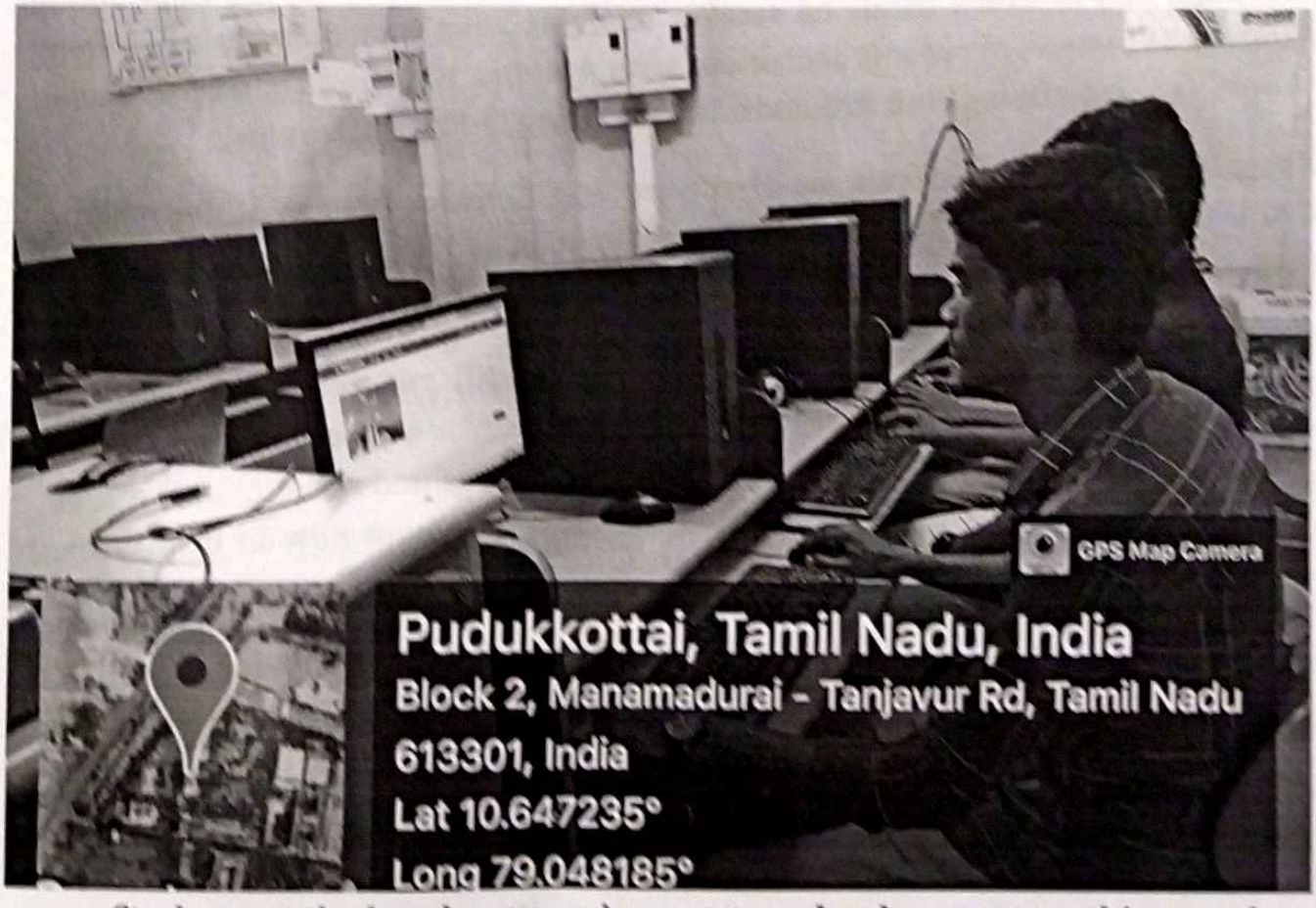
Students at Hands on session working with Arduino Integrated Development Environment



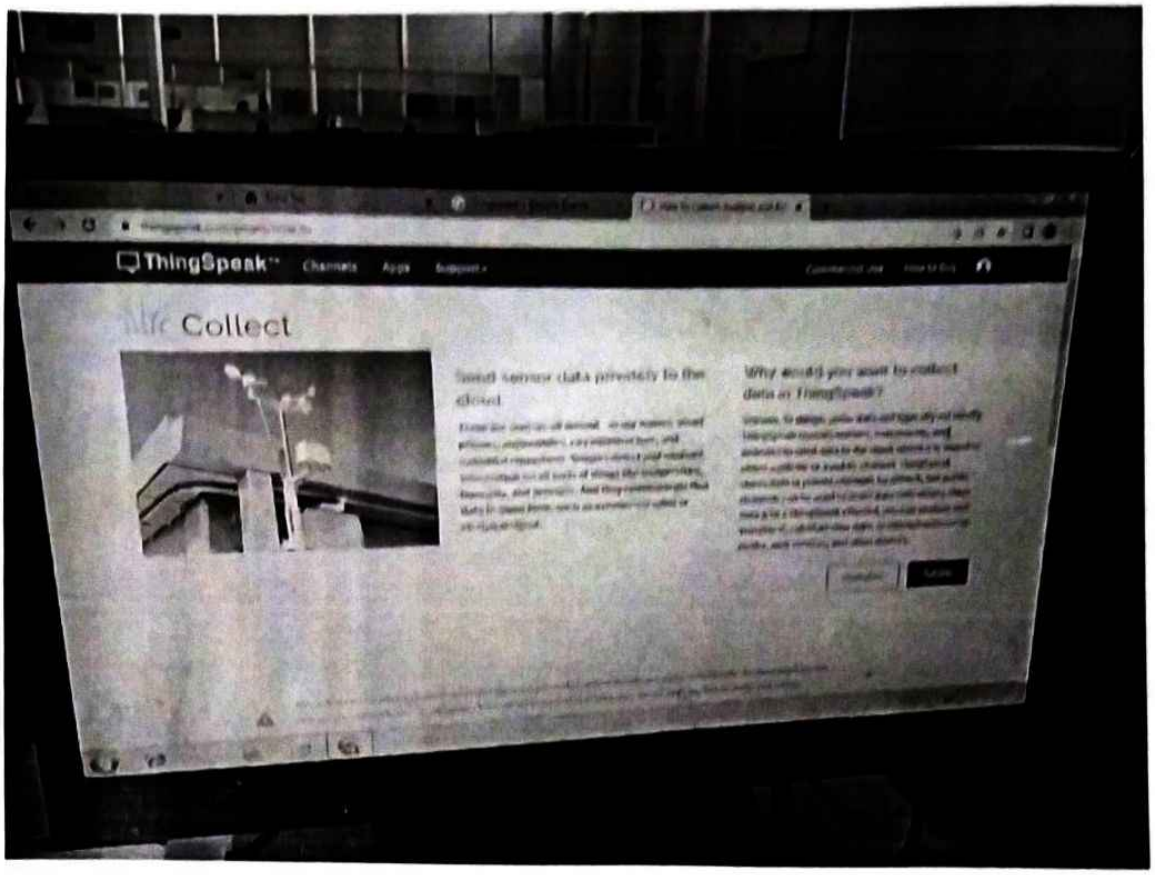
A batch of students learning about interfacing of LED with Arduino Development board during the hands on session of value added course



A batch of students learning about Thing speak cloud during the hands on session of value added course



Students at the hands-on session create a cloud account on thingspeak.



Temperature and Humidity values displayed on Thinspeak cloud in real time by the students during hands on session.

The students have actively participated in hands on session conducted for the value added course. Through this practical hands on session, students have leaned about interfacing sensors such as IR sensor, ultrasonic sensor etc. with Arduino, GSM and Zigbee interfacing with Arduino, LCD interfacing with Arduino and interfacing Li-Fi with Arduino.

They also gained practical exposure on Hardware and Software design of typical IOT application using sensors, LCDs and wireless modules such as Zigbee, Bluetooth and GSM modules etc.,.

When they develop an IOT application which monitors Humidity and Temperature sent by the DHT11 Humidity and temperatur sensor on a cloud they have learned about how a sensor can be interfaced with Arduino and how the temperatrue and humdity data can be read from the sensor through the Arduino. They aslo learned about how to display the measured temperature and Humidity on a cloud.

Through this value added course, students have been trained to work on Arduino IDE. They could write and develop Embedded C program in order to build hardware and software module of a typical IOT application.

The hands on session program were practical and the students were actively participated in the program and they have got technical training on IOT.

Outcome:

The outcome of this value added course is that students can build Real time IOT systems. Students who have completed this value added course can get better placement in industries/companies such as American Mega Trends, L&T, HoneyWell, Robert Bosch, HCL Technologies etc.,

30/11/22

Course coordinator
T.Jeyaseelan, AP/ECE

30/11/22

HOD/ECE

30/11/2022

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

YEAR/ SEMESTER :III/ V & VII/IV

COURSE :

Certificate course on CCTV Installation Technician

COURSE PLAN

PREPARED BY

Mr. P.Raja Pirian, AP/ECE

Mr.T.Jeyaseelan , AP/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE PLAN

Sub. Code : CCTV Branch / Year / Sem : B.E ECE / III/ V& VII/IV
Sub.Name : Certificate Course on CCTV Installation and Servicing
Incharge Name: Mr.P.Raja Pirian Academic Year : 22-23 (ODD)
: Mr.T.Jeyaseelan

COURSE OBJECTIVE

1. To understand the functionalities CCTV.
2. To be familiar with the components required to build CCTV network.
3. To be exposed to the required functionality of NVR.
4. To learn the Installation of CCTV.

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
1.	Basics of Security Surveillance	BB / PPT	3	3
2.	Functions of Video Surveillance	BB / PPT	3	6
3.	Types of cameras and their functions	BB / PPT	3	9
4.	Sensors, Light, Lens and Zoom	BB / PPT	3	12
5.	DVR and switcher	BB / PPT	3	15
6.	Principles of network Remote accessing	Live DEMO	3	18
7.	Install the CCTV camera	Live DEMO	3	21
8.	Setup up the CCTV surveillance system	Live DEMO	3	24
9.	Cables	DEMO	1	25

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
10.	Survey planning and maintenance	Field Work	2	27
11.	Interaction with customers and colleagues , concept of team work	Discussion	3	30
Total Hours			30	30

TOTAL : 30 PERIODS

COURSE OUTCOME

At the end of the course, the students will be able to

- Identify the components required to build CCTV networks
- Choose the specific Camera based on the environment.
- Able to analyze the security requirements.
- Know the requirements of customer and fulfill the requirements.

1. 1/8/2022 2. 1/8/2022

Prepared by

Mr.P.Raja Pirian

Mr.T.Jeyaseelan

HOD/ECE 1/8/2022

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

VALUE ADDITION INITIATIVE – MARK STATEMENT

CERTIFICATE COURSE ON CCTV INSTALLATION AND SERVICING

YEAR / SEM: III / V **BATCH: 2020-2024**

STAFF INCHARGE: Mr. P.RAJAPIRIAN & Mr.T.JEYASEELAN **Date : 17/10/2022**

S.	Register	Student Name	Signature
1	821120106001	AJAY A	95
2	821120106002	AMAR SAMUEL L	87
3	821120106003	ANBURAJ R	95
4	821120106004	ANJALINE SNEKA J	98
5	821120106005	ANUSUYA V	98
6	821120106006	DEEPAKRAJ T	95
7	821120106008	DEVADHARSHINI B	94
8	821120106009	DHIVYA DHARSHINI M	85
9	821120106010	DURGADEVI G	96
10	821120106012	GURU RAGAVAN R K	95
11	821120106013	HARIHARAN D	97
12	821120106014	JAISHREE A	93
13	821120106015	JANANI B	90
14	821120106016	JOTHIKA G	85
15	821120106017	KAVI NILA J	92
16	821120106018	KEERTIGA S	83
17	821120106019	KIRTHICKVASAN S	75
18	821120106020	LOGESHWARAN M	86
19	821120106021	MAHALAKSHMI R	85
20	821120106022	MANIYARASI R	94
21	821120106025	NANDHINI R	85
22	821120106026	NATIKA K S	75
23	821120106027	NAVIN G	70
24	821120106028	NIVYA P	76
25	821120106029	PREETHI S	85
26	821120106030	PRIYADHARSHINI J	80
27	821120106031	PRIYANGA R	71
28	821120106033	RANJITH M	82
29	821120106034	SANDEEP R	90
30	821120106035	SATHISHKANNAN S	85
31	821120106036	SHAFRIN S	78
32	821120106037	SHANMUGAPRIYA V	80
33	821120106038	SIVASETHUMATHAVAN D	96
34	821120106039	SOLAIMANI G	75
35	821120106040	SURUTHI S	69
36	821120106041	SWATHI SHUKI M	80
37	821120106042	TAMILAZHAHI M	95
38	821120106043	THENMOZHI J	75
39	821120106044	THIYAHALAKSHIMI T	70
40	821120106045	THIRISHAMALINI T	80
41	821120106046	VENKATESH M (VOC)	65
42	821120106047	VENNILA D	90
43	821120106048	VIGNESHWARI A	85
44	821120106301	JANANARTHANAN R	75
45	821120106302	MADHAN S	70
46	821120106303	SUNDARA VIGNESH G	85

17/10/2022

Staff Incharge

17/10/22

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

VALUE ADDITION INITIATIVE – MARK STATEMENT

CERTIFICATE COURSE ON CCTV INSTALLATION AND SERVICING

YEAR / SEM: IV/ VII **BATCH: 2019-2023**

STAFF INCHARGE: Mr. P.RAJAPIRIAN & Mr.T.JEYASEELAN **Date : 17/10/2022**

S.No.	Register Number	Student Name	Signature
1	821119106001	ABIMANEU S	90
2	821119106002	AGALYA P	95
3	821119106004	BLESSON MANUEL J	80
4	821119106005	DHARMADURAI A	85
5	821119106006	DHARSHINI C	75
6	821119106007	DURGA SRI R	90
7	821119106008	GANGA L	95
8	821119106009	GANGA R	96
9	821119106010	GAYATHRI K	97
10	821119106011	GAYATHRI S	85
11	821119106012	ISHWARYA K	93
12	821119106013	JAYAKUMAR A	95
13	821119106015	JOTHIKA R	75
14	821119106016	KABILAN R	80
15	821119106017	KABISHENA P	75
16	821119106019	KARIKALAN G	85
17	821119106022	KIRUBADHARSHINI S	80
18	821119106024	LOGESHWARAN P	70
19	821119106025	MADHUMITHA G	96
20	821119106026	MAHESWARI V	98
21	821119106027	MATHIVANAN K	85
22	821119106028	NITHITHA U	70
23	821119106029	NIVETHITHA S	85
24	821119106030	PAVITHRA P	81
25	821119106031	PRAKASH A	96
26	821119106032	PRETHIYA B	95
27	821119106033	PRIYANKA K	70
28	821119106034	RAMANA BHARATHI S	72
29	821119106035	RENUKA K	85
30	821119106036	RUTHRA R	96
31	821119106037	SABARINATHAN S	94
32	821119106039	SARASWATHI K	85
33	821119106040	SATHYA G	97
34	821119106042	SHATHANA B	80
35	821119106043	SOUNDHARYA R	95
36	821119106044	SURIYA C	90
37	821119106045	SUSIKUMAR T	76
38	821119106046	SWETHAA S M	80
39	821119106048	VAISHNAVI G	90

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17/10/22

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR (2022-2023) ODD SEMESTER

REPORT

ON

Value Addition Initiatives (VAI)

For III ECE students

01.08.2022-09.08.2022

Coordinator

Ms.N.Mangaiyarkarasi, AP/ECE

The Department of Electronics and communication Engineering, Kings College of Engineering organized Value Addition Initiatives for III year undergraduate ECE students from 01.08.2022 to 09.08.2022.

Mr. Dineshkumar AP/ENG conducted **"Communication Skill Training"** program between 11.00 AM to 12.30 PM from 01.08.2022 to 09.08.2022. He trained the students to have effective communication skill through his teaching on grammar, Direct speech, indirect speech, and Active and passive voices. He also insisted that communication skill training provides soft skills such as building trust, communicating with power, and understanding nonverbal. During the training, he focused the following examples to improve the communication skills of students.

The examples are;

- How to read body language
- How to present our ideas effectively
- How to make a great first impression
- How to negotiate
- How to politely disagree and disengage arguments
- How to talk to VIPs, bosses, and clients
- How to read facial expressions
- How to build trust
- How to speak with assertiveness
- How to speak effectively on the phone
- How to write better emails

He insisted that when we have a strong grasp of communication, we can better read others, be more thoughtful and calm during interactions, have more confidence even in challenging conversations and better present our ideas.

Mr.P.Rajapirian, AP/ECE and Mr.T.Jeyaseelan, AP/ECE conducted a certificate course on CCTV installation and Servicing. During the course, the course incharge presented function block diagram of CCTV system and explained about the following concepts of CCTV system.

- ❖ CCTV System Design Requirements and Considerations
- ❖ Components of CCTV Systems
- ❖ Transmission
- ❖ VIDEO Storage
- ❖ IP- Based CCTV System

Mr. B. Suresh Babu, AP/T&P conducted a session on Training and Placement activities between 1.10PM to 1.55 PM on 02.08.2022. He highlighted that the Objective of Training and Placement Cell is to guide students to choose right career and to give knowledge, skill, and aptitude and meet the manpower requirements of the Industry. During the session he guided the students on Resume Preparation, Technical skill development methods and training, soft skill training & Group Discussion.

Ms. P.Suganya AP/T&P conducted Aptitude Training & Practice Tests between 1.55PM to 2.40 PM on 02.08.2022. She also guided the students on developing Interview Skills.

In addition to these training and courses, Lecture sessions on the following subjects were handled from 01.08.2022 to 09.08.2022 by the subject Experts.

- ❖ Digital Communication
- ❖ Discrete-Time Signal Processing
- ❖ Computer Architecture and Organization
- ❖ Communication Networks
- ❖ Medical Electronics
- ❖ Renewable Energy Source

Lecture sessions on these subjects are planned to provide the students to understand the subject in simple and let them be confident and positive in the subjects. Mr.T.Pasupathi, AP/ECE handled the lecture session on Digital Communication subject. Ms. M.Muthulalshmi

handled lecture sessions on Discrete-Time Signal Processing. Mr.W.Newton David Raj handled the lecture session on Computer Architecture and Organization. Mr.P.Rajapirian handled the lecture session on Communication Networks. Ms.R.Ponni handled the lecture session on Medical Electronics. Ms.N.Mangaiyarkarasi, AP/ECE handled lecture session on Renewable Energy Source.

<table>
<tr>
<td>
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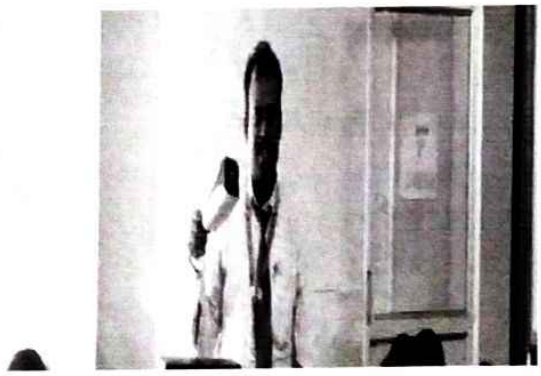
<tr>
<td>Presentation on
" CCTV installation and Servicing " by
Mr.P.Rajapirian, AP/ECE on02.08.2022</td>
<td>Presentation on
"Digital Communication" by
Mr.T.Pasupathi, AP/ECE on02.08.2022</td>
</tr>
<tr>
<td>  </td>
<td>
</td>
</tr>
<tr>
<td>Presentation on
"CCTV cameras "
by Mr.P.Rajapirian , AP/ECE on 05.08.2022</td>
<td>Students attending lecture session on
08.08.2022</td>
</tr>
</table>

Outcome:

Through the Value Addition Initiatives, students could get the opportunity to gain knowledge on the applications of Electronics and Communication Engineering and to have exposure on Industry requirements so that they could prepare themselves to get good career in the field of Electronics and Communication Engineering.

Staff-In charge

T.Jeyaseelan, AP/ECE

HOD/ECE 6/9/2022

06/9/2022

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IEEE | Madras Section STB 16621

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CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. Ajay · A

from Third year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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This is to certify that Mr./Ms. Amar Samuel · L

from Third year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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This is to certify that Mr./Ms. Anburaj · R

from Third year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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This is to certify that Mr./Ms. Anjaline Sneka · J

from Third year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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This is to certify that Mr./Ms. Abimaneu. S

from Final year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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This is to certify that Mr./Ms. Aagaliya. P

from Final year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE

Dr.J.Arputha Vijaya Selvi, PRINCIPAL

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CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. BLESSON MANUEL. J

from Final year ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

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CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. DHARMADURAI. A.

from FINAL YEAR ECE has participated in the Workshop organized by the Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, from 13-10-2022 to 15-10-2022.

CO ORDINATORS : Mr.W.Newton David Raj, AP/ECE — Mr.R.Thandayuthapani, AP/ECE — Mrs.D. Vennila, AP/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE — 15/10/2022

Dr.J.Arputha Vijaya Selvi, PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(ODD SEMESTER)

GATE COACHING CLASS- ACTION PLAN

Name of the Course : GATE Coaching

Batch : 2020-2024

Year/Semester : III/V

Duration : 30 Hours

Staff in-Charge : Mr.W.Newton David Raj

Topic No.	Topics	Hours Planned	Cumulative No.of.Hours
1.	Introduction to GATE and its benefits, Subjects and Question Pattern	1	1
2.	Networks – Question Discussion	2	3
3.	Networks – Question Discussion	2	5
4.	Test on Networks	1	6
5.	Signals and Systems – Question Discussion	2	8
6.	Signals and Systems –Question Discussion	2	10
7.	Test on Signals and Systems	1	11
8.	Electronic Devices –Question Discussion	2	13
9.	Electronic Devices –Question Discussion	2	15
10.	Test on Electronic Devices	1	16
11.	Digital Circuits – Question Discussion	2	18
12.	Digital Circuits – Question Discussion	2	19
13.	Test on Digital Circuits	1	20
14.	Communications – Question Discussion	2	22
15.	Communications – Question Discussion	2	24
16.	Test on Communications	1	25
17.	Electromagnetics - Question Discussion	2	27
18.	Electromagnetics - Question Discussion	1	29
19.	Test on Electromagnetics	1	30
	Total Hours	-	**30**

W.Newton 16/08/2022
Staff-in-Charge

16/8/2022
HOD/ECE

16/08/2022
GATE Coordinator

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(ODD SEMESTER)

GATE COACHING CLASS SCHEDULE

Name of the Course:GATE Coaching **Duration** **: 30 Hours**

Batch **:(2020-2024)** **Staff-in-Charge** **:Mr.W.Newton David Raj**

Year/Sem **:III/05** **Date** **:10.08.2022**

S.No	Staff Name	III ECE		Topic Name
		Date	Period	
1.	Mr. T. Jeyaseelan	13.08.2022	08	Networks
2.	Mr.T.Pasupathi	20.08.2022	08	Signals and Systems
3.	Mr. R. Sathyaraj	27.08.2022	08	Electronic Devices
Assignment- I - 3 Hours				
4.	Mrs. D. Vennila	03.09.2022	08	Digital Circuits
5.	Mr.P.Rajapirian	10.09.2022	08	Analog Circuits
6.	Mrs. R. Ponni	17.09.2022	08	Communications
Assignment- II - 3 Hours				
7.	Mrs.U.Jeyamalar	24.09.2022	08	Control Systems
8.	Mr. W. Newton David Raj	01.10.2022	08	Electromagnetics
9.	Mr.S. Ramarajan	08.10.2022	08	Networks
Assignment- III - 3 Hours				
10.	Mr.R.Balakrishnan	15.10.2022	08	Signals and Systems
11.	Dr. T.Shanthi	22.10.2022	08	Electronic Devices
12.	Mr.R.Thandayuthapani	29.10.2022	08	Digital Circuits
Assignment- IV - 3 Hours				
13.	Mrs.M.Muthulakshmi	05.11.2022	08	Analog Circuits
14.	Mr.N.Mangaiyarkarasi	12.11.2022	08	Communications
15.	Mr. K. Sudarsanan	19.11.2022	08	Control Systems
Assignment- V - 3 Hours				
16.	Mr. W. Newton David Raj	26.11.2022	08	Mock Test

Total No of Class Hours **: 15**

Total No of Assignments Hours **:15**

Test Hour **: 01**

W. Newton
10/08/2022

GATE CO-ORDINATOR
[Mr.W.Newton David Raj,AP/ECE]

10/8/2022

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(ODD SEMESTER)

COMPETITIVE EXAM COACHING- ACTION PLAN

Date:10.08.2022

Name of the Course : Competitive Exam Coaching
Batch : 2020-2024
Year/Semester : III/V
Duration : 30 Hours
Staff in-Charge : Mr.W.Newton David Raj

Topic No.	Name of the Topics	Hours Planned	Cumulative No.of.Hours
1.	Introduction to Competitive exam and its benefits, Subjects and Question Pattern	1	1
2.	Quantitative Aptitude (QA) – Question Discussion	2	3
3.	Quantitative Aptitude (QA) – Question Discussion	2	5
4.	Test on Quantitative Aptitude (QA)	1	6
5.	Intelligence and Critical Reasoning – Question Discussion	2	8
6.	Intelligence and Critical Reasoning – Question Discussion	2	10
7.	Test on Intelligence and Critical Reasoning	1	11
8.	Language Comprehension– Question Discussion	2	13
9.	Language Comprehension– Question Discussion	2	15
10.	Test on Language Comprehension	1	16
11.	General Studies– Question Discussion	2	18
12.	General Studies– Question Discussion	2	20
13.	Test on General Studies	1	21
14.	Current Affairs– Question Discussion	2	23
15.	Current Affairs – Question Discussion	2	25
16.	Test on Current Affairs	1	26
17.	Overview of Competitive Exam	2	28
18.	Mock Test	2	30
Total Hours		-	30

W. Newton 10/08/2022
GATE Co-ordinator

10/8/2022
HOD/ECE

10/08/22
GATE Convenor

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(ODD SEMESTER)

NON-GATE COACHING CLASS SCHEDULE

Name of the Course:Non-GATE Coaching **Duration** **: 30 Hours**

Batch **:(2020-2024)** **Staff-in-Charge** **:Mr.W.Newton David Raj**

Year/Sem **:III/05** **Date** **:10.08.2022**

S.No	Staff Name	III ECE	
		Date	Period
1.	Mrs. D. Vennila	13.08.2022	08
2.	Mr.P.Rajapirian	20.08.2022	08
3.	Mrs. R. Ponni	27.08.2022	08
4.	Mr. T. Jeyaseelan	03.09.2022	08
5.	Mr.T.Pasupathi	10.09.2022	08
6.	Mr. R. Sathyaraj	17.09.2022	08
7.	Mr.R.Balakrishnan	24.09.2022	08
8.	Dr. T.Shanthi	01.10.2022	08
9.	Mr.R.Thandayuthapani	08.10.2022	08
10.	Mrs.U.Jeyamalar	15.10.2022	08
11.	Mr. W. Newton David Raj	22.10.2022	08
12.	Mr.S. Ramarajan	29.10.2022	08
13.	Mr.N.Mangaiyarkarasi	05.11.2022	08
14.	Mr. K. Sudarsanan	12.11.2022	08
15.	Mrs.M.Muthulakshmi	19.11.2022	08
16.	Mr. W. Newton David Raj	26.11.2022	08

Summary :

Total No of Class Hours **: 15**

Total No of Assignments Hours **:15**

Test Hour **:01**

30

W. Newton
10/08/22
STAFF INCHARGE

10/8/22
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR (2022-23)/ODD SEMESTER

GATE AWARENESS PROGRAMME ATTENDANCE STATEMENTTE 2023 EXAM

Date : 29.08.2022

CLASS : III ECE

S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
01	821120106001	AJAY A	
02	821120106005	ANUSUYA V	
03	821120106006	DEEPAKRAJ T	
04	821120106012	GURU RAGAVAN R K	
05	821120106014	JAISHREE A	
06	821120106019	KIRTHICKVASAN S	ABSENT
07	821120106021	MAHALAKSHMI R	ABSENT
08	821120106026	NATIKA K S	
09	821120106028	NIVYA P	
10	821120106030	PRIYADHARSHINI J	
11	821120106031	PRIYANGA R	
12	821120106033	RANJITH M	ABSENT
13	821120106036	SHAFRIN S	
14	821120106038	SIVASETHUMATHAVAN D	
15	821120106040	SURUTHI S	
16	821120106044	THIYAHALAKSHIMI T	
17	821120106045	THIRISHAMALINI T	
18	821120106047	VENNILA D	
19	821120106048	VIGNESHWARI A	ABSENT
20	821120106303	SUNDARA VIGNESH G	ABSENT
21	821120106015	JANANI. B	

CLASS : IV ECE			
S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
01	821119106002	AGALYA P	P. Akya.
02	821119106006	DHARSHINI C	C. Dhf
03	821119106008	GANGA L	L. Ganga
04	821119106009	GANGA R	R. Ganga
05	821119106010	GAYATHRI K	K. Gaythr
06	821119106012	ISHWARYA K	K. Ishwa
07	821119106015	JOTHIKA R	P. Jothika
08	821119106017	KABISHENA P	P. Kif
09	821119106022	KIRUBADHARSHINI S	G. Kirubadharshini
10	821119106025	MADHUMITHA G	G. Madhumitha
11	821119106026	MAHESWARI V	Gov. Lalaboriya
12	821119106028	NITHITHA U	U. Nithitha.
13	821119106029	NIVETHITHA S	S. Nivethitha
14	821119106030	PAVITHRA P	P. Pavi
15	821119106032	PRETHIYA B	B. Prethiya
16	821119106034	RAMANA BHARATHI S	ABSENT
17	821119106036	RUTHRA R	R. Ruthra
18	821119106039	SARASWATHI K	K. Sathi
19	821119106040	SATHYA G	G. Sathya.
20	821119106043	SOUNDHARYA R	R. Soundharya.
21	821119106044	SURIYA C	C. Suriya
22	821119106046	SWETHAA S M	SM. Swethaa

W. Newton 29/08/2022
Staff-in-Charge

29/8/2022
HOD/ECE

29/8/2022
GATE Co-ordinator

KINGS

COLLEGE OF ENGINEERING
Punalkulam, Thanjavur.

Approved by AICTE, Affiliated to Anna University

TÜVRheinland CERT ISO 9001

ACADEMIC YEAR 2022-23 (ODD)

REPORT ON GATE AWARENESS PROGRAMME HELD ON 29.08.2022

Gate awareness programme has been organized for all the departments (Civil, CSE, ECE, EEE &MECHANICAL) on **29.08.2022(Monday)** in **Chera Hall** from from **10.30 a.m to 12.30 p.m** for II, III and IV year students.

OBJECTIVE:

- To spread awareness about **'Gate examination and its direct and indirect benefits'.**
- To convey key rules, examination patterns, syllabus to the students.
- To give information about government schemes.

PROGRAMME SCHEDULE:

AGENDA

10.00 A.M	-	Prayer song
10.05 A.M	-	Welcome Address- Mrs.A.Prabha, Gate Convener,AP/EEE
10.10 A.M	-	Special Address by Vice Principal- Dr.S.Sivakumar
10.15 A.M	-	Introduction to Chief Guest - Mr.S.Sabanayagam AP/MECH
10.25 A.M	-	Chief Guest Felicitation
10.30 A.M	-	**Session-I Importance and Benefits of Gate & Competitive exams**
		Mrs.Najrana Begum, Centre Head, GATE FORUM, Trichy
11.30 A.M	-	Feedback for Session -I
11.35 A.M	-	Vote of Thanks for Session-I –Mr.W.Newton David Raj, AP/ECE
11.45 A.M	-	**Session –II Life after GATE and Competitive exams**
		Mrs A.Prabha, AP/EEE, Kings College of Engineering, Pudukkottai
		Session –III Guidelines for GATE and Competitive exams
		Mrs.N.Dhamayandhi. AP/CSE, Kings College of Engineering, Pudukkottai

12.00 P.M	-	**Session-IV Gate Perceptives** Mr.K.S.Guru Swathik, ALUMINI, Department of Civil Engineering, Kings College of Engineering, Pudukkottai.
12.25 P.M	-	Feedback and Vote of Thanks for session II and Session III & IV Mr.S.Sabanayagam, AP/Mech
12.30 P.M	-	National Anthem

MCs Desk: Ms.D.Shrividhya, AP/CIVIL, KCE

SOUVENIR:

The resourse person Mrs.Najrana Begum has given a book as a token of respect and keepsake to Dr.J.Arputha Vijaya Selvi, Principal, Kings College of Engineering.

Principal Dr.J.Arputha Vijaya Selvi receiving the token of respect from Mrs.Najrana Begum

SESSION DETAILS:

The GATE awareness programme has been started with the prayer song. Mrs.A.Prabha, GATE Convener has presented a welcome address to the gatherings.

Resource person and ALUMNI on the Dias

Mrs.A.Prabha delivering Welcome address

Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has delivered a special address to the participants of the GATE awareness programme. He encouraged the students to attend the programme with full interest and he advised the participants to enroll for the examination and to prepare well.

Dr.S.Sivakumar,Viceprincipal delivering a Special address

Mr.S.Sabanayagam, AP/MECH has introduced the Resource person Mrs.Najrana Begum, Centre Head, GATE FORUM, Trichy. Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has felicitated the resource person and ALUMNI with shawl and memento.

Mr.S.Sabanayagam, is introducing the resource person

Felicitating the resource person by Dr.S.Sivakumar

Felicitating ALUMNI Mr.K.S.Guru Swathik

The resource person Mrs.Najrana Begum has delivered the **session-I** under the title **'Importance and Benefits of GATE & Competitive exams'**. She has engaged the session with the complete details about GATE exam and preparatory works. Mrs.Najrana Begum said that the coaching for GATE exam is helping the students to clear TNEBAE Exam (TANCEDCO Assistant Engineer Exam), RRBJE Exam (Railway Recruitment Board Exam for the post of Junior Engineers), SSCJE Exam (Staff Selection Commission Exam), TNPSC AE (Tamilandu combined Engineering Service Exam), CES (Civil Service Exams), IES (Indian Engineering Service Exam).

She has also discussed the benefits of GATE exam. The resource person said that the students can

- pursue ME/M.Tech/MS/Ph.D. in prestigious colleges like NITs, IITs & IISc Bangalore
- pursue ME/M.Tech/MS in other recognized colleges and universities with a stipend of Rs.12400/- per month for 2 years.
- pursue Ph.D. in recognized colleges and universities with a stipend for Rs.30,000/- per month
- get Job at PSUs like BHEL, ONGC, IOCL, BARC, NLC, IRCON, RITES, etc.
- pursue MS at NTU (Singapore), NUS (Singapore), Dresden University (Germany)
- get a job at private companies with a minimum salary of Rs.50000/-

Mrs.Najrana Begum delivering a session

Resource person interacting with the students

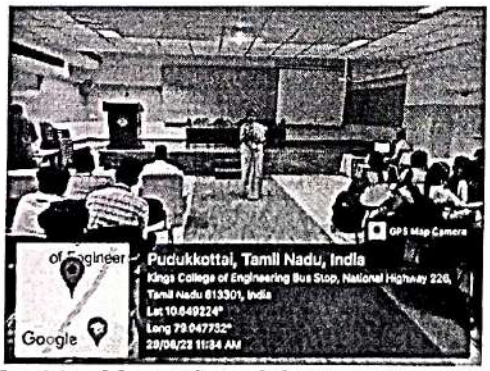
She has mentioned some of the GATE successive students and their present status in this competitive world. Really that was most encouraging which has created a spark of enrollment and preparation of GATE exam in students mind. She has ended up the session with good feedback from the students. Mr.W.Newton David Raj, AP/ECE has delivered the vote of thanks for the session –I.

Mr.W.Newton David Raj proposing vote of thanks for session-I

Followed by **Session –II** has been started under the topic **'Life after GATE and Competitive exams'**. Mrs.A.Prabha, GATE convener has delivered the session-II. She said GATE exam is one the most prestigious exam in India not only because it is conducted by IITs but also because of the excess of opportunities available after the examination. She has listed the opportunities as follows.

- Postgraduate (MTech)
- Public Sector Undertaking (PSU)
- PhD
- Fellowship Program in Management (FPM)
- Post Graduate Diploma in Management
- MS Program
- Recruitment in State Electricity Boards and
- Research Opportunities

The session was very much informative.



Mrs.A.Prabha,AP/EEE delivering a session

Participants of GATE awareness programme

Session –III has been started under the topic **'Guidelines for GATE and Competitive exams'**. Mrs.N.Dhamayandhi, AP/CSE has delivered the session –III. She has informed about the documents to be carried during examination and tactics to be followed in GATE examination. She

has given the complete guidelines to be followed at the time of examination. She also discussed the exam pattern, syllabus details and last minute tips to the students. The session was very useful to the students.

Mrs.N.Dhamayandhi is delivering a guidelines about GATE

Mr.K.S.Guru Swathik, ALUM'NI, Department of Civil Engineering has handled the session-IV under the title 'GATE Perceptives'. He said, GATE and competitive examination requires continuous attentiveness, inspiration, commitment, and tutorship. He said many popular private companies prefer engineers who have cracked GATE. He said GATE score is valid for three years if cleared. He encouraged the students that clearing GATE distinguishes the students from the majority of engineering graduates who graduate without a valid GATE score. The session was very much interactive.

Mr.K.S.Guru Swathik, ALUMNI sharing his GATE perceptive with students

Mr.S.Sabanayagam, AP/Mech has proposed vote of thanks for the last three sessions. The awareness programme ended up with national anthem.

Mr.S.Sabanayagam proposing vote of thanks to the gatherings

OUTCOME:

At the end of session, the students should be able to,

- understand the direct and indirect benefits of GATE examination.
- get knowledge about key rules, examination patterns, syllabus of the GATE.
- know the information about government schemes.

29/08/2022

GATE CONVENER

(A.PRABHA, AP/EEE)

29/8/2022

PRINCIPAL

(DR.J.ARPUTHA VIJAYA SELVI)

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KINGS COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC

Approved by AICTE, New Delhi

Affiliated to Anna University, Chennai

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A REPORT

ON

"SWAYAM/NPTEL ONLINE COURSES"

FOR THE ACADEMIC YEAR 2022-2023 ODD SEMESTER.

Organized by

Department of Electronics and Communication Engineering

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

A NAAC Accredited Institution

Recognized under 2(f) & 12(B) of UGC

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Phone : 04362-282474, 282395

Website : www.kingsindia.net

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

SWAYAM EXECUTION STATUS

SWAYAM- Students Detail

S.No	Class	SWAYAM Course Title	No. of students Enrolled in the Course	No. of students Completed the Course	No. of students Attended Exam
1.	IV ECE	Python for Data Science	39	24/39	NIL
		C Programming And Assembly Language	39	20/39	NIL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

ABOUT THE SWAYAM / NPTEL ONLINE COURSE:

As per the Instruction given by our HOD, it was planned to conduct SWAYAM / NPTEL online course for **Final year ECE** students in 2022-2023 Odd semester.

The SWAYAM / NPTEL online course list was taken from the SWAYAM portal, and it was circulated to the students. Then they were asked to prefer any one course with four, six or twelve week duration.

All the **39** students have enrolled in 2 courses with 4 weeks duration.

COURSE 1: PYTHON FOR DATA SCIENCE

Course Start Date: **25th July 2022** and the Course End Date: **19th August 2022.**

COURSE 2: C PROGRAMMING AND ASSEMBLY LANGUAGE

Course Start Date: **25th July 2022** and the Course End Date: **19th August 2022.**

COURSE NAME: 1. PYTHON FOR DATA SCIENCE

This course was handled by **Professor Ragunathan Rengasamy** from Indian Institute of Technology (IIT) Madras, India.

The course starting date was 25th July 2022.

The course ending date was 19th August 2022.

The duration of this course was 4 weeks.

The Course layout was scheduled as follows.

Week 1: BASICS OF PYTHON SPYDER (TOOL)

- Introduction Spyder
- Setting working Directory
- Creating and saving a script file
- File execution, clearing console, removing variables from environment, clearing environment
- Commenting script files
- Variable creation
- Arithmetic and logical operators
- Data types and associated operations

Week 2: Sequence data types and associated operations

- Strings
- Lists
- Arrays
- Tuples
- Dictionary
- Sets
- Range
- NumPy
- ndArray

Week 3: Pandas dataframe and dataframe related operations on Toyota Corolla dataset

- Reading files
- Exploratory data analysis
- Data preparation and preprocessing

Data visualization on Toyoto Corolla dataset using matplotlib and seaborn libraries

- Scatter plot , Line plot, Bar plot, Histogram, Box plot, Pair plot

Control structures using Toyota Corolla dataset

- if-else family, for loop, for loop with if break, while loop

Functions

Week 4: CASE STUDY

- **Regression**

  Predicting price of pre-owned cars

- **Classification**

  Classifying personal income

COURSE NAME: 2. C PROGRAMMING AND ASSEMBLY LANGUAGE

This course was handled by **Professor Janakiram** from Indian Institute of Technology (IIT) Madras, India.

The course starting date was 25th July 2022.

The course ending date was 19th August 2022.

The duration of this course was 4 weeks.

The Course layout was scheduled as follows.

WEEK 1: Introduction to Microprocessors and Assembly language Programming

- Microprocessor Architecture
- Machine Language Execution sequence in a MuP
- Memory in a microprocessor Instruction Set
- Addressing Schemes
- Mov

- Arithmetic And Logical Instructions
- Flag Register
- Stack Instructions
- Call And Ret
- Hardware Loops

WEEK 2: Introduction to C and Inline Assembly

- Data types and their sizes Simple examples of Inline assembly
- ALU operations
- String length Multiplication using repeated addition
- Swap two variables in C
- Swap two variables in inline Assembly
- Function to swap two variable in C
- Inline code to swap the two variables using a function

WEEK3: Compiling C to Assembly Language

- Compiling a simple program to Assembly – first order Passing parameters
- Prologue Epilogue
- Local variables

WEEK4: C++ and Some special Functions

- C and C++ at assembly language level
- Recursion vs Loops with factorial as example
- Special functions memcpy strlen

OUTCOME:

Students gained more knowledge on C Programming. They can able to write the assembly language programming and also they have learned some special functions of c and C++.

Students studied machine learning course have acquired knowledge about the basics of supervised learning.

Out of 39 students, 34 have enrolled and completed the course Introduction to programming in c.

09 students have enrolled and completed the course Introduction to Machine learning.

The student's course progress was attached below.

22/11/22

IQAC member

22/11/22

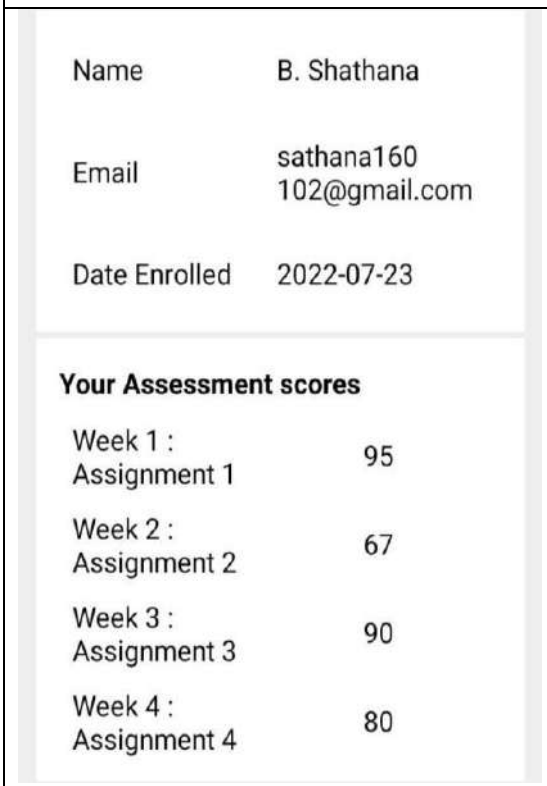
HOD / ECE

22/11/2022

PRNCIPAL

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303

COURSE PROGRESS- PYTHON FOR DATA SCIENCE



S. RAMANA BHARATHI

Date enrolled: 2022-07-26

Email: ramanabharathi511@gmail.com

Name: S. RAMANA BHARATHI

Assessment scores

Week 1 : Assignment 1: **95.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: **80.0**

Week 4 : Assignment 4: **80.0**

Name	SATHYA G
Email	chuttiponnusathya@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	85
Week 4 : Assignment 4	80

G.vaishnavi

Date enrolled: 2022-07-22

Email: vvaishnavi589@gmail.com

Name: G.vaishnavi

Assessment scores

Week 1 : Assignment 1: **95.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: **80.0**

Week 4 : Assignment 4: **80.0**

Name	K.saraswathi
Email	kdsaras005@gmail.com
Date Enrolled	2022-07-22

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

Name	Kabishena
Email	kabishena2 88@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	85
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

L. Ganga

Date enrolled: 2022-07-22

Email: gangapapukuty2002@gmail.com

Name: L. Ganga

Assessment scores

Week 1 : Assignment 1: **95.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: -

Week 4 : Assignment 4: **80.0**

Name	K.Ishwarya
Email	ishwaryaishwar ya952@gmail.com
Date Enrolled	2022-08-01

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	56
Week 3 : Assignment 3	80
Week 4 : Assignment 4	80

Name	R.Ganga
Email	gangaganga6 079@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	85
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	–

U. Nithitha

Date enrolled: 2022-07-21

Email: nithithanithi@gmail.com

Name: U. Nithitha

Assessment scores

Week 1 : Assignment 1: **85.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: **80.0**

Week 4 : Assignment 4: **80.0**

R. Soundharya

Date enrolled: 2022-07-21

Email: soundaryaece2019@gmail.com

Name: R. Soundharya

Assessment scores

Week 1 : Assignment 1: **85.0**

Week 2 : Assignment 2: -

Week 3 : Assignment 3: **90.0**

Week 4 : Assignment 4: **80.0**

Name	Suriya
Email	suriyacsuriyac7@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	85
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

Name	Gayathri.s
Email	sankarangayathri67@gmail.com
Date Enrolled	2022-08-06

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	80
Week 4 : Assignment 4	80

Name	S.kirubadharshini
Email	kirubasekar433@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

B.prethiya

Date enrolled: 2022-07-23

Email: prethiyakavitha@gmail.com

Name: B.prethiya

Assessment scores

Week 1 : Assignment 1: **85.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: **90.0**

Week 4 : Assignment 4: **80.0**

R.Jothika

Date enrolled: 2022-07-22

Email: jothikar462002@gmail.com

Name: R.Jothika

Assessment scores

Week 1 : Assignment 1: **95.0**

Week 2 : Assignment 2: **67.0**

Week 3 : Assignment 3: **90.0**

Week 4 : Assignment 4: **80.0**

V.Maheswari

Date enrolled: 2022-07-29

Email: mahibaby1310@gmail.com

Name: V.Maheswari

Assessment scores

Week 1 : Assignment 1: **85.0**

Week 2 : Assignment 2: -

Week 3 : Assignment 3: **85.0**

Week 4 : Assignment 4: **85.0**

Name	K. Renuka.
Email	renukaece275@gmail.com
Date Enrolled	2022-07-22

Your Assessment scores

Week 1 : Assignment 1	85
Week 2 : Assignment 2	61
Week 3 : Assignment 3	80
Week 4 : Assignment 4	80

Name	Dharshini.C
Email	dharshinicece02@gmail.com
Date Enrolled	2022-07-21

Your Assessment scores

Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

Name	SM.Swethaa
Email	swethaa1492001@gmail.com
Date Enrolled	2022-07-22

Your Assessment scores

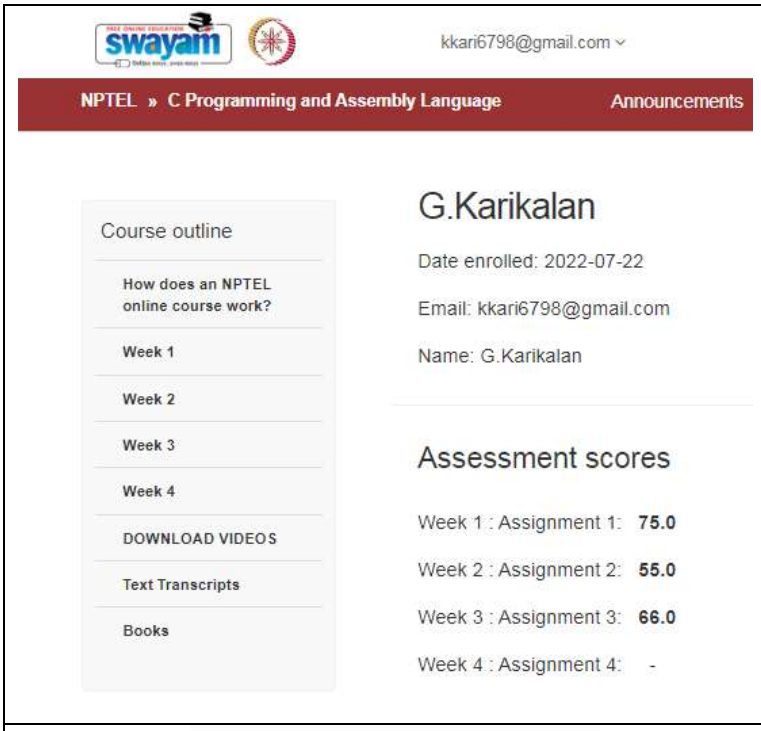
Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

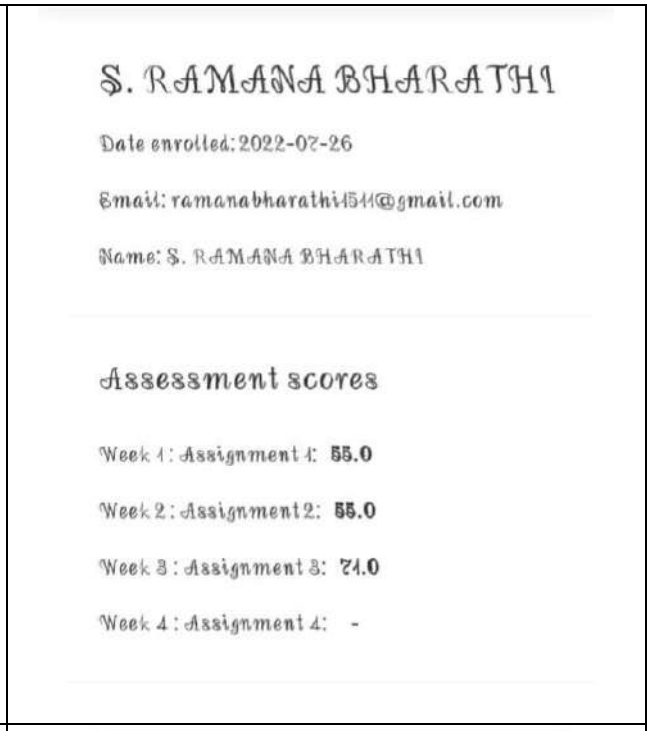
Name	K.priyanka
Email	vanipriya835@gmail.com
Date Enrolled	2022-07-21

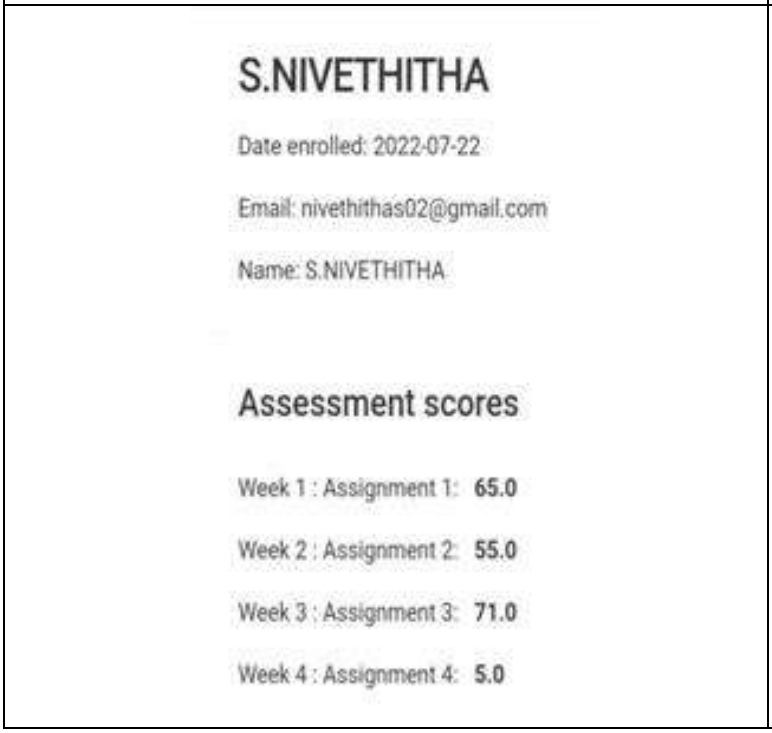
Your Assessment scores

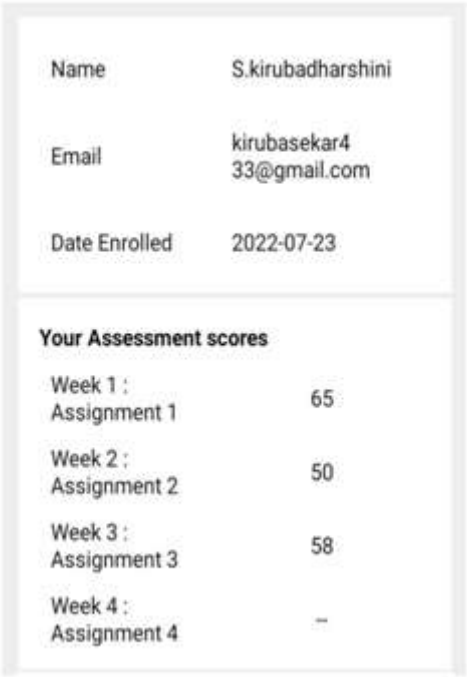
Week 1 : Assignment 1	95
Week 2 : Assignment 2	67
Week 3 : Assignment 3	90
Week 4 : Assignment 4	80

COURSE PROGRESS- C PROGRAMMING AND ASSEMBLY LANGUAGE









Name	Suriya
Email	suriyacsuriyac7@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	55
Week 2 : Assignment 2	55
Week 3 : Assignment 3	--
Week 4 : Assignment 4	--

Name	K.Ishwarya
Email	ishwaryaishwarya952@gmail.com
Date Enrolled	2022-08-01

Your Assessment scores

Week 1 : Assignment 1	55
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

R. Soundharya

Date enrolled: 2022-07-21

Email: soundaryaece2019@gmail.com

Name: R. Soundharya

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: -

Week 3 : Assignment 3: **71.0**

Week 4 : Assignment 4: -

K.Gayathri

Date enrolled: 2022-07-21

Email: gayathriviga2065@gmail.com

Name: K.Gayathri

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: **55.0**

Week 3 : Assignment 3: **71.0**

Week 4 : Assignment 4: -

V.Maheswari

Date enrolled: 2022-07-29

Email: mahibaby1310@gmail.com

Name: V.Maheswari

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: -

Week 3 : Assignment 3: **71.0**

Week 4 : Assignment 4: -

Name	R.Ganga
Email	gangaganga6079@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

B.prethiya

Date enrolled: 2022-07-23

Email: prethiyakavitha@gmail.com

Name: B.prethiya

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: **55.0**

Week 3 : Assignment 3: **68.0**

Week 4 : Assignment 4: -

G.vaishnavi

Date enrolled: 2022-07-22

Email: vvaishnavi589@gmail.com

Name: G.vaishnavi

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: **55.0**

Week 3 : Assignment 3: **66.0**

Week 4 : Assignment 4: -

R.Jothika

Date enrolled: 2022-07-22

Email: jothikar462002@gmail.com

Name: R.Jothika

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: **55.0**

Week 3 : Assignment 3: **71.0**

Week 4 : Assignment 4: **77.0**

Name	SM.Swethaa
Email	swethaa149 2001@gmail.com
Date Enrolled	2022-07-22

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

Name	Madhumitha
Email	madhumithagovin tharasu@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	66
Week 4 : Assignment 4	-

Name	K.priyanka
Email	vanipriya835@gmail .com
Date Enrolled	2022-07-21

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	-

Name	SATHYA G
Email	chuttiponnusathya@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	50
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

Name	Dharshini.C
Email	dharshinicece02@gmail.com
Date Enrolled	2022-07-21

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

Name	K. Renuka.
Email	renukaece275@gmail.com
Date Enrolled	2022-07-23

Your Assessment scores

Week 1 : Assignment 1	65
Week 2 : Assignment 2	55
Week 3 : Assignment 3	71
Week 4 : Assignment 4	--

Gayathri.s

Date enrolled: 2022-08-06

Email: sankarangayathri67@gmail.com

Name: Gayathri.s

Assessment scores

Week 1 : Assignment 1: **65.0**

Week 2 : Assignment 2: **50.0**

Week 3 : Assignment 3: **70.0**

Week 4 : Assignment 4: -

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(EVEN SEMESTER)

GATE COACHING CLASS- ACTION PLAN

Date:06.02.2023

Name of the Course : GATE Coaching
Batch : 2020-2024
Year/Semester : III/VI
Duration : 30 Hours
Staff in-Charge : Mr.W.Newton David Raj

Topic No.	Topics	Hours Planned	Cumulative No.of.Hours
1.	Introduction to GATE and its benefits, Subjects and Question Pattern	1	1
2.	Networks – Question Discussion	2	3
3.	Networks – Question Discussion	2	5
4.	Test on Networks	1	6
5.	Signals and Systems – Question Discussion	2	8
6.	Signals and Systems –Question Discussion	2	10
7.	Test on Signals and Systems	1	11
8.	Electronic Devices –Question Discussion	2	13
9.	Electronic Devices –Question Discussion	2	15
10.	Test on Electronic Devices	1	16
11.	Digital Circuits – Question Discussion	2	18
12.	Digital Circuits – Question Discussion	2	19
13.	Test on Digital Circuits	1	20
14.	Communications – Question Discussion	2	22
15.	Communications – Question Discussion	2	24
16.	Test on Communications	1	25
17.	Electromagnetics - Question Discussion	2	27
18.	Electromagnetics - Question Discussion	1	29
19.	Test on Electromagnetics	1	30
	Total Hours	-	**30**

W. Newton 06/02/2023
GATE Co-ordinator

6/2/2023
HOD/ECE

06/2/23
GATE Convenor

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(EVEN SEMESTER)

GATE COACHING CLASS SCHEDULE AFTER EXECUTED

Name of the Course: GATE Coaching **Duration : 30 Hours**
Batch :(2020-2024) **Staff-in-Charge :Mr.W.Newton David Raj**
Year/Sem :III/06 **Date :06.02.2023**

S.No	Staff Name	III ECE		Name of the Topics	Staff Sign
		Date	Period		
1.	Mr.W.Newton David Raj	11.02.2023	07	Introduction to Gate and its benefits, Subjects and Question Pattern	
2.	Mr. T. Jeyaseelan	18.02.2023	01,02	Networks	
3.	Mr.T.Pasupathi	18.02.2023	03	Networks	
		25.02.2023	07		
4.	Mr. R. Sathyaraj	12.03.2023	01	Test on Networks	
		12.03.2023	02	Signals and Systems	
5.	Mrs. D. Vennila	12.03.2023	03	Signals and Systems	
		08.04.2023	01		
6.	Mr.P.Rajapirian	08.04.2023	02	Signals and Systems	
		08.04.2023	03	Test on Signals and Systems	
7.	Mrs. R. Ponni	16.04.2023	01	Electronic Devices	
		16.04.2023	02		
8.	Mrs.U.Jeyamalar	16.04.2023	03	Electronic Devices	
		22.04.2023	01		
9.	Mr.S. Ramarajan	22.04.2023	02	Test on Electronic Devices	
		22.04.2023	03	Digital Circuits	
10.	Mr.R.Balakrishnan	30.04.2023	01	Digital Circuits	
		30.04.2023	02		
11.	Dr. T.Shanthi	30.04.2023	03	Digital Circuits	
		07.05.2023	01	Test on Digital Circuits	
12.	Mr.R.Thandayuthapani	07.05.2023	02	Communications	
		07.05.2023	03		
13.	Mrs.M.Muthulakshmi	13.05.2023	01	Communications	
		13.05.2023	02		
14.	Mr. K. Sudarsanan	13.05.2023	03	Test on Communications	
		21.05.2023	01	Electromagnetics	
15.	Mr. A.Herald	21.05.2023	02	Electromagnetics	
		21.05.2023	03		
16.	Mr.N.Mangaiyarkarasi	25.05.2023	01	Test on Electromagnetics	
17.	Mr. W. Newton David Raj	25.05.2023	02,03	Mock Test	

25/05/2023
STAFF INCHARGE

25/5/2023
HOD/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(EVEN SEMESTER)

COMPETITIVE EXAM COACHING- ACTION PLAN

Date:06.02.2023

Name of the Course : Competitive Exam Coaching
Batch : 2020-2024
Year/Semester : III/VI
Duration : 30 Hours
Staff in-Charge : Mr.W.Newton David Raj

Topic No.	Name of the Topics	Hours Planned	Cumulative No.of.Hours
1.	Introduction to Competitive exam and its benefits, Subjects and Question Pattern	1	1
2.	Quantitative Aptitude (QA) – Question Discussion	2	3
3.	Quantitative Aptitude (QA) – Question Discussion	2	5
4.	Test on Quantitative Aptitude (QA)	1	6
5.	Intelligence and Critical Reasoning – Question Discussion	2	8
6.	Intelligence and Critical Reasoning – Question Discussion	2	10
7.	Test on Intelligence and Critical Reasoning	1	11
8.	Language Comprehension– Question Discussion	2	13
9.	Language Comprehension– Question Discussion	2	15
10.	Test on Language Comprehension	1	16
11.	General Studies– Question Discussion	2	18
12.	General Studies– Question Discussion	2	20
13.	Test on General Studies	1	21
14.	Current Affairs– Question Discussion	2	23
15.	Current Affairs – Question Discussion	2	25
16.	Test on Current Affairs	1	26
17.	Overview of Competitive Exam	2	28
18.	Mock Test	2	30
Total Hours		-	30

W. Newton 06/02/2023
GATE Co-ordinator

HOD/ECE 6/2/2023

GATE Convenor 06/02/23

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-23(EVEN SEMESTER)

NON-GATE COACHING CLASS SCHEDULE AFTER EXECUTED

Name of the Course: Competitive Exam Coaching Duration :30 Hours
Batch :(2020-2024) Staff-in-Charge :Mr.W.Newton David Raj
Year/Sem :III/06 Date :06.02.2023

S.No	Staff Name	III ECE		Name of the Topics	Staff Sign
		Date	Period		
1.	Mr.W.Newton David Raj	11.02.2023	07	Introduction to Competitive exam and its benefits, Subjects and Question Pattern	W.Newton
2.	Mrs. D.Vennila	18.02.2023	01,02	Quantitative Aptitude (QA)	D.Vennila
3.	Mr.P.Rajapirian	18.02.2023	03	Quantitative Aptitude (QA)	
		25.02.2023	07		
4.	Mrs. R. Ponni	12.03.2023	01	Test on Quantitative Aptitude (QA)	
		12.03.2023	02	Intelligence and Critical Reasoning	
5.	Mr. T. Jeyaseelan	12.03.2023	03	Intelligence and Critical Reasoning	
		08.04.2023	01		
6.	Mr.T.Pasupathi	08.04.2023	02	Intelligence and Critical Reasoning	
		08.04.2023	03	Test on Intelligence and Critical Reasoning	T.Pasupathi
7.	Mr. R. Sathyaraj	16.04.2023	01	Language Comprehension	
		16.04.2023	02		
8.	Mr.R.Balakrishnan	16.04.2023	03	Language Comprehension	
		22.04.2023	01		
9.	Dr. T.Shanthi	22.04.2023	02	Test on Language Comprehension	
		22.04.2023	03	General Studies	
10.	Mr.R.Thandayuthapani	30.04.2023	01	General Studies	
		30.04.2023	02		
11.	Mrs.U.Jeyamalar	30.04.2023	03	General Studies	
		07.05.2023	01	Test on General Studies	
12.	Mr. A.Herald	07.05.2023	02	Current Affairs	
		07.05.2023	03		A.Herald
13.	Mr.S. Ramarajan	13.05.2023	01	Current Affairs	
		13.05.2023	02		S.Ramarajan
14.	Mr.N.Mangaiyarkarasi	13.05.2023	03	Test on Current Affairs	
		21.05.2023	01	Overview of Competitive Exam	
15.	Mr. K. Sudarsanan	21.05.2023	02	Overview of Competitive Exam	
16.	Mrs.M.Muthulakshmi	21.05.2023	03	Practice Past Competitive Exams Question Papers	
		25.05.2023	01		
17.	Mr. W. Newton David Raj	25.05.2023	02,03	Mock Test	W.Newton

W.Newton
25.05.2023
STAFF INCHARGE

25/5/2023
HOD/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR (2022-23)/EVEN SEMESTER

GATE and Competitive Examination Awareness Programme- Attendance Statement

Class/Sem : III ECE/06

Date : 10.03.2023

S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
01	821120106001	AJAY A	
02	821120106002	AMAR SAMUEL L	
03	821120106003	ANBURAJ R	
04	821120106004	ANJALINE SNEKA J	
05	821120106005	ANUSUYA V	
06	821120106006	DEEPAKRAJ T	
07	821120106008	DEVADHARSHINI B	
08	821120106009	DHIVYA DHARSHINI M	
09	821120106010	DURGADEVI G	ABSENT
10	821120106012	GURU RAGAVAN R K	
11	821120106013	HARIHARAN D	
12	821120106014	JAISHREE A	
13	821120106015	JANANI B	
14	821120106016	JOTHIKA G	
15	821120106017	KAVI NILA M	
16	821120106018	KEERTIGA S	
17	821120106019	KIRTHICKVASAN S	
18	821120106020	LOGESHWARAN M	
19	821120106021	MAHALAKSHMI R	
20	821120106022	MANIYARASI R	ABSENT
21	821120106025	NANDHINI R	
22	821120106026	NATIKA K S	
23	821120106027	NAVIN G	
24	821120106028	NIVYA P	
25	821120106029	PREETHI S	
26	821120106030	PRIYADHARSHINI J	ABSENT
27	821120106031	PRIYANGA R	
28	821120106033	RANJITH M	
29	821120106034	SANDEEP R	
30	821120106035	SATHISHKANNAN S	
31	821120106036	SHAFRIN S	
32	821120106037	SHANMUGAPRIYA V	
33	821120106038	SIVASETHUMATHAVAN D	
34	821120106039	SOLAIMANI G	
35	821120106040	SURUTHI S	
36	821120106041	SWATHI SHUKI M	
37	821120106042	TAMILAZHAHI M	
38	821120106043	THENMOZHI J	
39	821120106044	THIYAHALAKSHMI T	
40	821120106045	THIRISHAMALINI T	
41	821120106046	VENKATESH M (VOC)	
42	821120106047	VENNILA D	
43	821120106048	VIGNESHWARI A	
44	821120106301	JANARTHANAN R	
45	821120106302	MADHAN S	ABSENT
46	Transfer	KARTHICK N	

10/3/2023
GATE Co-ordinator

(0/3/2023
HOD/ECE

10/03/23
GATE Convenor

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ACADEMIC YEAR 2022-23 (EVEN)

REPORT ON GATE AWARENESS PROGRAMME HELD ON 10.03.2023

Gate awareness programme has been organized for all the departments (Civil, CSE, ECE, EEE &MECHANICAL) on **10.03.2023(Friday)** in **Chera Hall** from from **10.00 a.m to 12.30 p.m** for III year students.

OBJECTIVE:

- To spread awareness about **'Gate examination and its direct and indirect benefits'.**
- To convey key rules, examination patterns, syllabus to the students.
- To give information about government schemes.

PROGRAMME SCHEDULE:

AGENDA

10.00 A.M	-	Prayer song
10.05 A.M	-	Welcome Address- Mrs.A.Prabha, AP/EEE – GATE CONEVENER
10.10 A.M	-	Special Address by Vice Principal- Dr.S.Sivakumar
10.15 A.M	-	Introduction to Chief Guest -Mr.W.Newton David Raj, AP/ECE
10.25 A.M	-	Chief Guest Felicitation by Vice Principal- Dr.S.Sivakumar
10.30 A.M	-	**Session on Gate & Competitive exams – Career Guidance by** Resource Person Mr.S.Sivakumar, Director, GATE FORUM, Trichy
12.00 P.M	-	Interaction and Feedback Session
12.25 P.M	-	Vote of Thanks by Mr.S.Sabanayagam, AP/MECH
12.30 P.M	-	National Anthem

MCs Desk: Ms.N.Dhamayandhi, AP/CSE, KCE

SESSION DETAILS:

The GATE awareness programme has been started with the prayer song. Mrs.A.Prabha, GATE Convener has presented a welcome address to the gatherings.

Mrs.A.Prabha delivering Welcome address

Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has delivered a special address to the participants of the GATE awareness programme. He encouraged the students to attend the programme with full interest and he advised the participants to enroll for the examination and to prepare well.

Dr.S.Sivakumar,Vice Principal delivering a Special address

Mr.W.Newton David Raj, AP/ECE has introduced the Resource person Mr.S.Sivakumar, Director, GATE FORUM, Trichy. Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has felicitated the resource person with shawl and memento.

Mr.W.Newton David Raj, is introducing the resource person

Felicitating the resource person by Dr.S.Sivakumar

Honoring the resource person by Dr.S.Sivakumar

The resource person Mr.S.Sivakumar, Director , GATE FORUM, Trichy has delivered the **session** under the title **'Gate & Competitive exams – Career Guidance'**. He has engaged the session with the complete details about GATE exam and preparatory works. Mr.S.Sivakumar said that the coaching for GATE exam is helping the students to clear TNEBAE Exam (TANCEDCO Assistant Engineer Exam), RRBJE Exam (Railway Recruitment Board Exam for the post of Junior Engineers), SSCJE Exam (Staff Selection Commission Exam), TNPSC AE (Tamilandu combined Engineering Service Exam), CES (Civil Service Exams), IES (Indian Engineering Service Exam).

He has also discussed the benefits of GATE exam. The resource person said that the students can

- pursue ME/M.Tech/MS/Ph.D. in prestigious colleges like NITs, IITs & IISc Bangalore
- pursue ME/M.Tech/MS in other recognized colleges and universities with a stipend of Rs.12400/- per month for 2 years.
- pursue Ph.D. in recognized colleges and universities with a stipend for Rs.30,000/- per month

- ❖ get Job at PSUs like BHEL, ONGC, IOCL, BARC, NLC, IRCON, RITES, etc.
- ❖ pursue MS at NTU (Singapore), NUS (Singapore), Dresden University (Germany)
- ❖ get a job at private companies with a minimum salary of Rs.50000/-

He said GATE exam is one the most prestigious exam in India not only because it is conducted by IITs but also because of the excess of opportunities available after the examination. He has listed the opportunities as follows.

- ❖ Postgraduate (MTech)
- ❖ Public Sector Undertaking (PSU)
- ❖ PhD
- ❖ Fellowship Program in Management (FPM)
- ❖ Post Graduate Diploma in Management
- ❖ MS Program
- ❖ Recruitment in State Electricity Boards and
- ❖ Research Opportunities

Mr.S.Sivakumar delivering a session

Resource person interacting with the students

He has informed about the documents to be carried during examination and tactics to be followed in GATE examination. He has given the complete guidelines to be followed at the time of examination. He also discussed the exam pattern, syllabus details and last minute tips to the students.. The session was very useful to the students.

He said, GATE and competitive examination requires continuous attentiveness, inspiration, commitment, and tutorship. He said many popular private companies prefer engineers who have cracked GATE. He said GATE score is valid for three years if cleared. He encouraged the students that clearing GATE distinguishes the students from the majority of

engineering graduates who graduate without a valid GATE score. The session was very much interactive.

Break up session by Resource person

Feedback by Students

He has mentioned some of the GATE successive students and their present status in this competitive world. Really that was most encouraging which has created a spark of enrollment and preparation of GATE exam in students mind. He has ended up the session with good feedback from the students. The session was very informative. Mr.S.Sabanayagam, AP/MECH has delivered the vote of thanks for the session.

Mr.S.Sabanayagam proposing vote of thanks to the gatherings

The awareness programme ended up with national anthem.

OUTCOME:

At the end of session, the students should be able to,

- ❖ understand the direct and indirect benefits of GATE examination.
- ❖ get knowledge about key rules, examination patterns, syllabus of the GATE.
- ❖ know the information about government schemes.

17/03/23

GATE CONVENER

(A.PRABHA, AP/EEE)

17/3/2023

PRINCIPAL

(DR.J.ARPUTHA VIJAYA SELVI)

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A REPORT

ON

"SWAYAM/NPTEL ONLINE COURSES"

FOR THE ACADEMIC YEAR 2022-2023 EVEN SEMESTER.

Organized by

Department of Electronics and Communication Engineering

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

A NAAC Accredited Institution

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEMESTER)

SWAYAM EXECUTION STATUS

S.No	Class	SWAYAM Course Title	No. of students Completed the Course	No. of students Attended Exam
1.	II ECE	COMMUNICATION NETWORKS	37/66	NIL
2.		SYSTEMS AND USABLE SECURITY	20/20	NIL
3.		COMPUTER NETWORKS	47/66	NIL
4.	III ECE	DIGITAL ELECTRONICS AND MICROPROCESSOR	30/46	NIL
5.	IV ECE	INTRODUCTION TO PROGRAMMING IN C	34/34	12
		INTRODUCTION TO MACHINE LEARNING	08/08	02

Total 176 /240

20/7/23
IQAC member

25/7/23
HOD / ECE

25/7/2023
PRNCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEMESTER)

ABOUT THE SWAYAM / NPTEL ONLINE COURSE:

As per the Instruction given by our HOD, it was planned to conduct SWAYAM / NPTEL online course for **Second year ECE** students in 2022-2023 EVEN semester.

The SWAYAM / NPTEL online course list was taken from the SWAYAM portal, and it was circulated to the students. Then they were asked to prefer any one course with four, six or twelve week duration.

Among the 66 students 19 students have enrolled in **systems and usable security course** with 4 weeks duration.

All the **66** students have enrolled in 2 courses named **communication networks and computer networks** with 12 weeks duration.

COURSE 1: SYSTEMS AND USABLE SECURITY

Course Start Date**:** 23rd Jan 2023 and the Course End Date: 17th February 2023. (4 Weeks)

COURSE 2: COMMUNICATION NETWORKS

Course Start Date**:** 23rd Jan 2023 and the Course End Date: 14th April 2023. (12 Weeks)

COURSE 3: COMPUTER NETWORKS

Course Start Date**:** 23rd Jan 2023 and the Course End Date: 30th April 2023. (12 Weeks)

COURSE NAME: 1. SYSTEMS AND USABLE SECURITY

This course was handled by **Professor Neminath Hubballi** from Indian Institute of Technology (IIT) Indore.

The course starting date was 23rd January 2023.

The course ending date was 17th February 2023.

The duration of this course was 4 weeks.

The Course layout was scheduled as follows.

Week 1:

Introduction: Computer security concepts, threats, attacks; Malicious Software: Types of Malicious Software (Malware), Vulnerability, Exploits, Social Engineering–SPAM E-mail, Zombie, Bots, Keyloggers, Phishing, Spyware.

Week 2:

Operating System Security: System Security Planning, Application Security, Linux/Unix Security, Windows Security, Virtualization Security

Week 3:

Web Security: Secure E-mail and S/MIME, Domain Keys Identified Mail, Secure Sockets Layer (SSL) and Transport Layer Security (TLS), HTTPS, IPv4 and IPv6 Security, Public-Key Infrastructure and Federated Identity Management.

Week 4:

Usable Security: Introduction to Privacy, Trust and Semantic Security, Visualizing Privacy, Web Browser Security and Privacy, Authentication and Text Passwords, Biometrics and Graphical Passwords.

COURSE NAME: 2. COMMUNICATION NETWORKS

This course was handled by **Professor Goutam Das** from Indian Institute of Technology (IIT) Kharagpur.

The course starting date was 23rd January 2023.

The course ending date was 14th April 2023.

The duration of this course was 12 weeks.

The Course layout was scheduled as follows.

Week 1: Communication Networks basics.

Week 2: Circuit Switched Networks.

Week 3: Switching Concepts.

Week 4: Layered Architecture, Introduction to DLL Layer.

Week 5: MAC Protocols – Ethernet, Wireless LAN, PON.

Week 6: Network Layer - IP.

Week 7: Routing Algorithms and Associated Protocols.

Week 8: Transport Layer.

Week 9: Introduction to Queuing.

Week 10: Application of Queuing theory for Design of Circuit Networks.

Week 11: Performance analysis of CSMA CD, CSMA CA.

Week 12: Advanced Networking Concepts: Open Flow switching, SDN and NFV, Network slicing, cognitive Networks.

COURSE NAME: 3. COMPUTER NETWORKS

This course was handled by Dr. Narayan Patidar | Educational Multimedia Research Centre, Devi Ahilya Vishwavidyalaya, Indore

The course starting date was 26th January 2023.

The course ending date was 30th April 2023.

The duration of this course was 12 weeks.

The Course layout was scheduled as follows.

Week 1: Lecture No 1 An Introduction to Computer
Lecture No 2 Computer : History and Development
Lecture No 3 Evolution of Computer

Week 2: Lecture No 4 Overview of Computer : Input Devices, Part-1
Lecture No 5 Overview of Computer : Input Devices, Part-2
Lecture No 6 Overview of Computer : Input Devices, Pat-3

Week 3: Lecture No 7 Overview of Computer : Output Devices, Part-1
Lecture No 8 Overview of Computer : Output Devices, Part-2
Lecture No 9 Computer : Audio Input and Output Devices

Week 4: Lecture No 10 An Introduction to Computer - Operating System
Lecture No 11 Operating System Softwares
Lecture No 12 Computer : Memory Management
Lecture No 13 Computer : Cabinet, Power Supply & Ups

Week 5: Lecture No 14 An Introduction to Computer - Networking
Lecture No 15 Fundamental of Computer Networks
Lecture No 16 Network Hardware

Week 6: Lecture No 17 Network Hardware - Advanced Devices
Lecture No 18 Network Software
Lecture No 19 OSI Reference Model

Week 7: Lecture No 20 Computer Network Examples & Network Lab Setup
Lecture No 21 Network Standards & Protocol.

Lecture No 22 The Physical Layer

Week 8: Lecture No 23 Network Communication & Transmission Media

Lecture No 24 Computer Networks : Modulation

Lecture No 25 Multiplexing

Lecture No 26 Public Switched Telephone Network

Week 9: Lecture No 27 The Mobile Phone Network

Lecture No 28 Data Link Layer

Lecture No 29 Medium Access Control

Week10: Lecture No 30 Wireless Lan

Lecture No 31 Bluetooth

Lecture No 32 Radio Frequency Identification Technology

Week 11: Lecture No 33 Data Link Layer Switching

Lecture No 34 Network Layer

Lecture No 35 Transport Layer

Week 12: Lecture No 36 The Application Layer

Lecture No 37 Network Security Part 1

Lecture No 38 Network Security Part 2

OUTCOME:

Students gained more knowledge on Communication networks and Computer Networks. They are having very clear idea about the seven OSI layers. They can able to write the functions of each layer and services provided by each layer.

In systems and Usable security: 19 students have enrolled and completed the course.

In Communication Networks : Out of 66 students, 37 students have completed the course.

In Computer Networks: Out of 66 students, 47 students have completed the course.

The students course progresses were attached below.

20/7/23
IQAC member

25/7/2023
HOD / ECE

25/7/2023
PRNCIPAL

PROGRESS FOR COMPUTER NETWORKS

Abinash

Date enrolled: 2023-01-19

Email: abinashabinash208@gmail.com

Name: Abinash

Assessment scores

Week 1 : Assignment 1: -

Week 2 : Assignment 2: -

Week 3 : Assignment 3: -

Week 4 : Assignment 4: 60.0

Week 5 : Assignment 5: 40.0

Week 6 : Assignment 6: 30.0

Week 7 : Assignment 7: 60.0

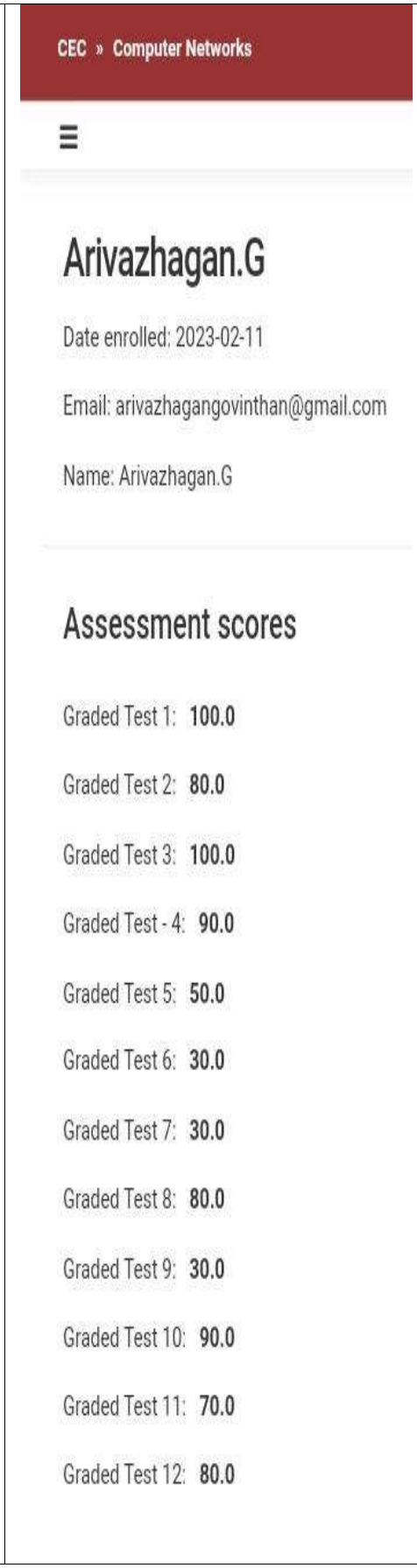
Week 8 : Assignment 8: 50.0

Week 9 : Assignment 9: 80.0

Week 10 : Assignment 10: 20.0

Week 11 : Assignment 11: 90.0

Week 12 : Assignment 12: -



CEC » Computer Networks

Arivazhagan.G

Date enrolled: 2023-02-11

Email: arivazhagangovinthan@gmail.com

Name: Arivazhagan.G

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 100.0

Graded Test - 4: 90.0

Graded Test 5: 50.0

Graded Test 6: 30.0

Graded Test 7: 30.0

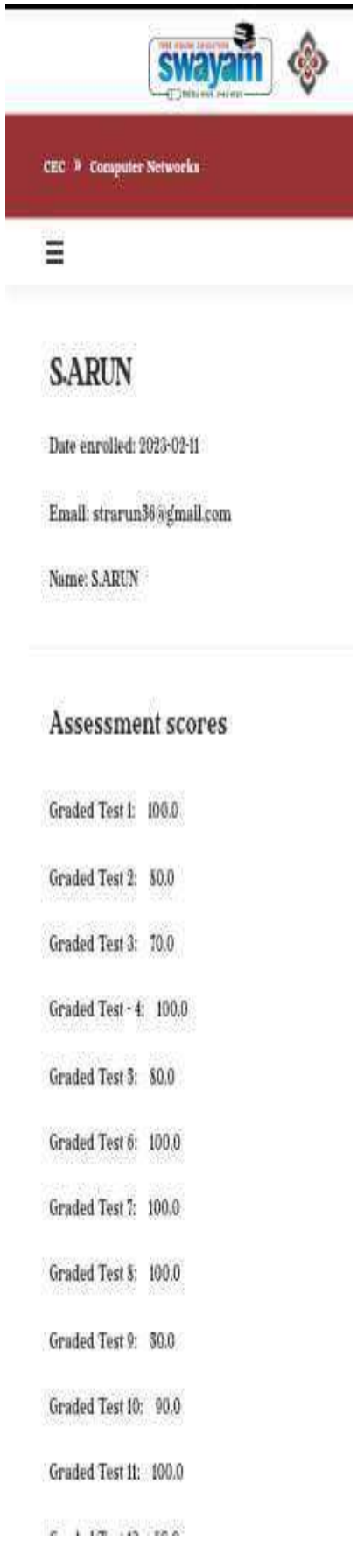
Graded Test 8: 80.0

Graded Test 9: 30.0

Graded Test 10: 90.0

Graded Test 11: 70.0

Graded Test 12: 80.0



CEC » Computer Networks

S.ARUN

Date enrolled: 2023-02-11

Email: srarun36@gmail.com

Name: S.ARUN

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 70.0

Graded Test - 4: 100.0

Graded Test 5: 80.0

Graded Test 6: 100.0

Graded Test 7: 100.0

Graded Test 8: 100.0

Graded Test 9: 80.0

Graded Test 10: 90.0

Graded Test 11: 100.0

CEC » Computer Networks

R. Ashwini

Date enrolled: 2023-02-11

Email: rashwini9785@gmail

Name: R. Ashwini

Assessment score

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **90.0**

Graded Test 12: **80.0**

CEC » Computer Networks

Dinesh kumar k

Date enrolled: 2023-02-11

Email: dineshvolley44@gmail.com

Name: Dinesh kumar k

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **40.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: -

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

Eniyarasi.P

Date enrolled: 2023-02-11

Email: eniyarasiselvam2004@

Name: Eniyarasi.P

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

Gowsika

Date enrolled: 2023-02-11

Email: shakthi9865@gmail.c

Name: Gowsika

Assessment score

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **70.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **40.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **30.0**

Graded Test 10: **30.0**

Graded Test 11: **10.0**

Graded Test 12: **80.0**

Hariharan

Date enrolled: 2023-02-13

Email: hariharana2742004@gmail.c

Name: Hariharan

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 80.0

Graded Test - 4: 100.0

Graded Test 5: 80.0

Graded Test 6: 30.0

Graded Test 7: 10.0

Graded Test 8: 60.0

Graded Test 9: 20.0

Graded Test 10: 30.0

Graded Test 11: 100.0

CEC » Computer Networks

Harinilakshmi

Date enrolled: 2023-02-11

Email: hariniviji290@gmail.com

Name: Harinilakshmi

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **40.0**

Graded Test - 4: **20.0**

Graded Test 5: **70.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

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janarthanan

Date enrolled: 2023-02-11

Email: ertyjana@gmail.com

Name: janarthanan

Assessment scores

Graded Test 1: **90.0**

Graded Test 2: **30.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **90.0**

Graded Test 8: **80.0**

Graded Test 9: **30.0**

Graded Test 10: **80.0**

Graded Test 11:

Graded Test 12: **80.0**

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Jaya prasad.P

Date enrolled: 2023-02-11

Email: www.jayaprasad4g@gmail.c

Name: Jaya prasad.P

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **90.0**

Graded Test 3: **90.0**

Graded Test - 4: **100.0**

Graded Test 5: **90.0**

Graded Test 6: **80.0**

Graded Test 7: **90.0**

Graded Test 8: **100.0**

Graded Test 9: **80.0**

Graded Test 10: **90.0**

Graded Test 11: **80.0**

Graded Test 12: **90.0**

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Kaushika Chand.S

Date enrolled: 2023-02-11

Email: kaushikaushi11902@gmail.com

Name: Kaushika Chand.S

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **30.0**

Graded Test 7: **20.0**

Graded Test 8: **20.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **90.0**

Graded Test 12: **30.0**

CEC » Computer Networks

Krishnamoorthy V

Date enrolled: 2023-02-11

Email: krishnamoorthyvece@gmail.com

Name: Krishnamoorthy V

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

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Course Progress

S.madhumitha

Date enrolled: 2023-02-11

Email: madhumithasankar99@gmail.c

Name: S.madhumitha

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **70.0**

Graded Test 9: **40.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

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Course Progress

MAHESWARAN D

Date enrolled: 2023-02-11

Email: devamahesh8116@gmail.com

Name: MAHESWARAN D

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **80.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

Course Progress

Your Assessment scores

Graded Test 1	100
Graded Test 2	80
Graded Test 3	80
Graded Test - 4	100
Graded Test 5	80
Graded Test 6	100
Graded Test 7	100
Graded Test 8	--
Graded Test 9	50
Graded Test 10	90
Graded Test 11	100
Graded Test 12	--

You are currently

CEC » Computer Networks

Manoj

Date enrolled: 2023-02-11

Email: rmanimuthu6@gmail.com

Name: Manoj

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **10.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **20.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **10.0**

CEC » Computer Networks

Mohamed rizwan

Date enrolled: 2023-02-11

Email: rizwan6380454939@gmail.com

Name: Mohamed rizwan

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **90.0**

Graded Test - 4: **80.0**

Graded Test 5: **70.0**

Graded Test 6: **60.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **70.0**

CEC » Computer Networks

Mohamed yaseen. I

Date enrolled: 2023-02-11

Email: yaseenwaseem005@gmail

Name: Mohamed yaseen. M

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 80.0

Graded Test - 4: 100.0

Graded Test 5: 80.0

Graded Test 6: 100.0

Graded Test 7: 100.0

Graded Test 8: 100.0

Graded Test 9: 50.0

Graded Test 10: 70.0

Graded Test 11: 100.0

Graded Test 12: 80.0

CEC » Computer Networks

Mukilvannan M

Date enrolled: 2023-02-11

Email: puthukaikettavanbgm@gmail.co

Name: Mukilvannan M

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 80.0

Graded Test - 4: 90.0

Graded Test 5: 80.0

Graded Test 6: 100.0

Graded Test 7: 100.0

Graded Test 8: -

Graded Test 9: 50.0

Graded Test 10: 90.0

Graded Test 11: 100.0

Graded Test 12: 70.0

CEC » Computer Networks

RAJKUMAR

Date enrolled: 2023-02-11

Email: r9487589665@gmail.com

Name: RAJKUMAR

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 30.0

Graded Test 3: 50.0

Graded Test - 4: -

Graded Test 5: 70.0

Graded Test 6: 20.0

Graded Test 7: 20.0

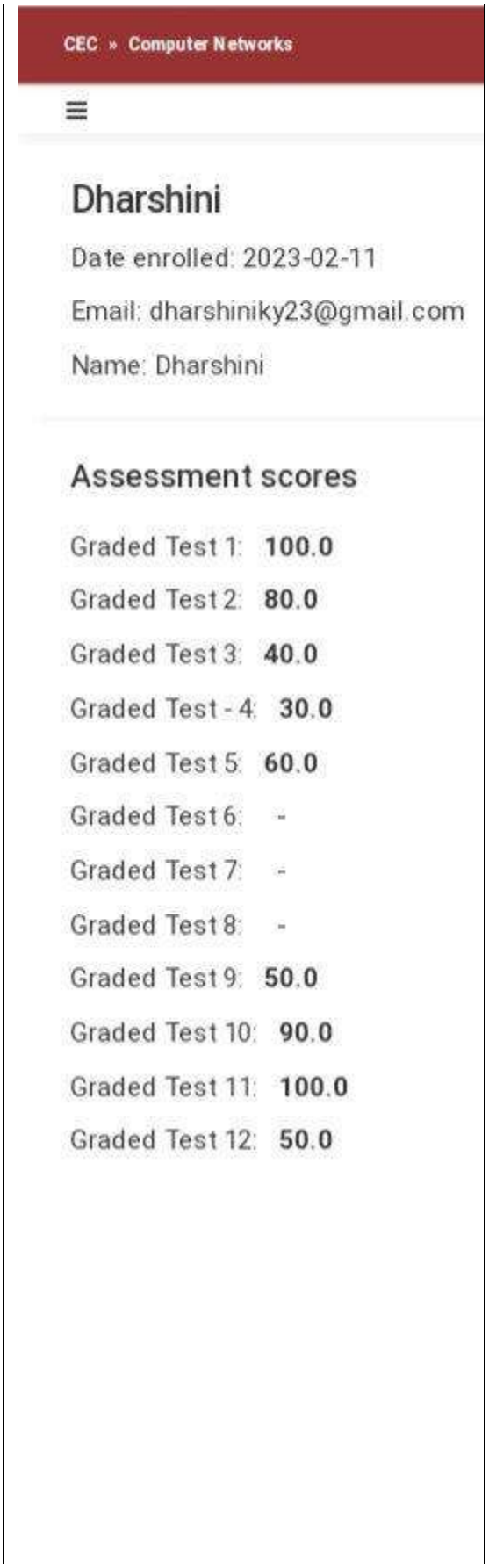
Graded Test 8: 80.0

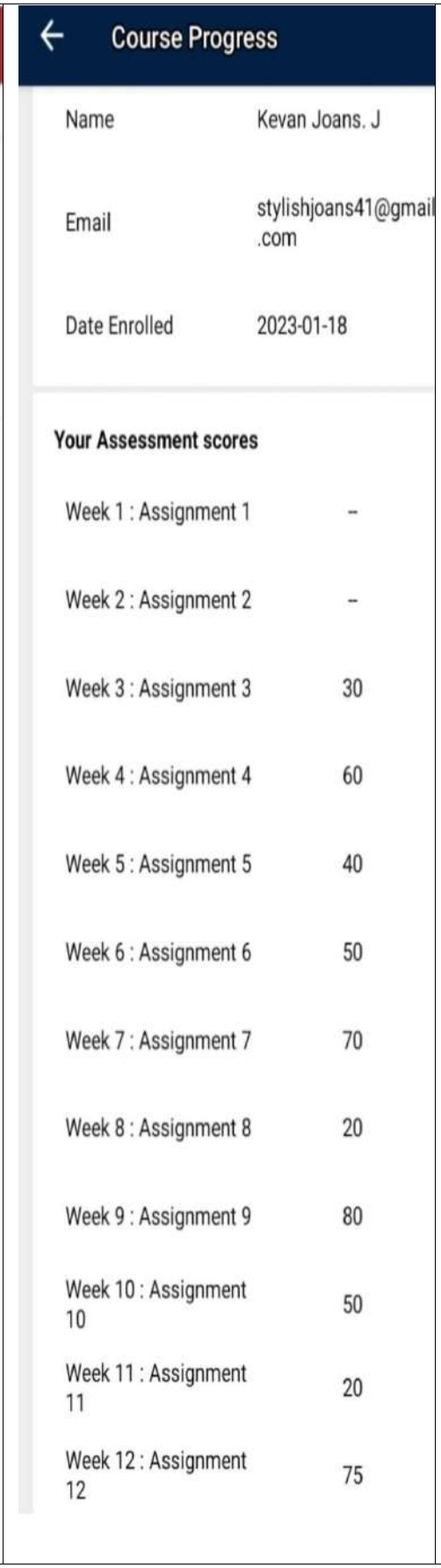
Graded Test 9: 40.0

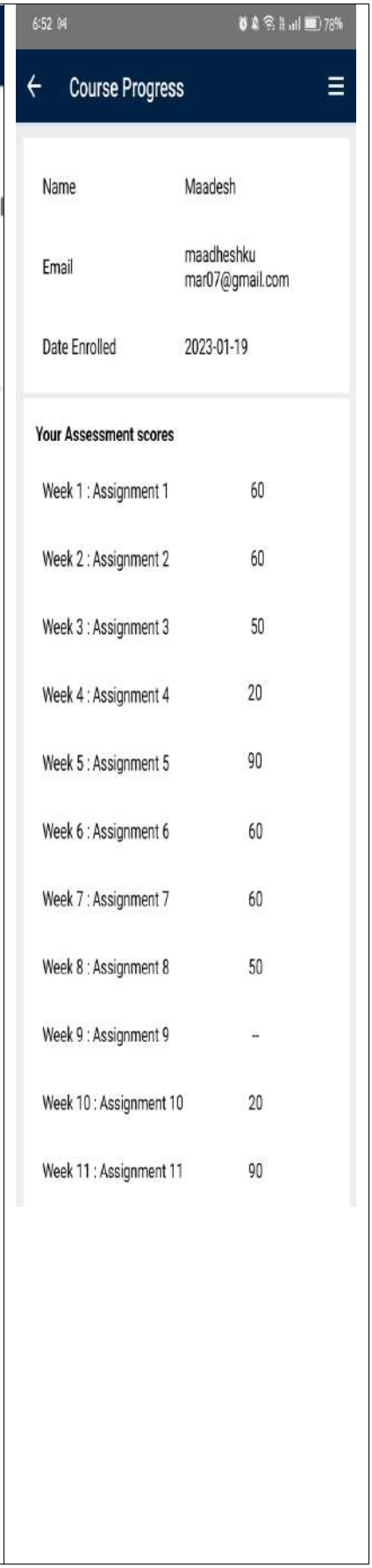
Graded Test 10: 90.0

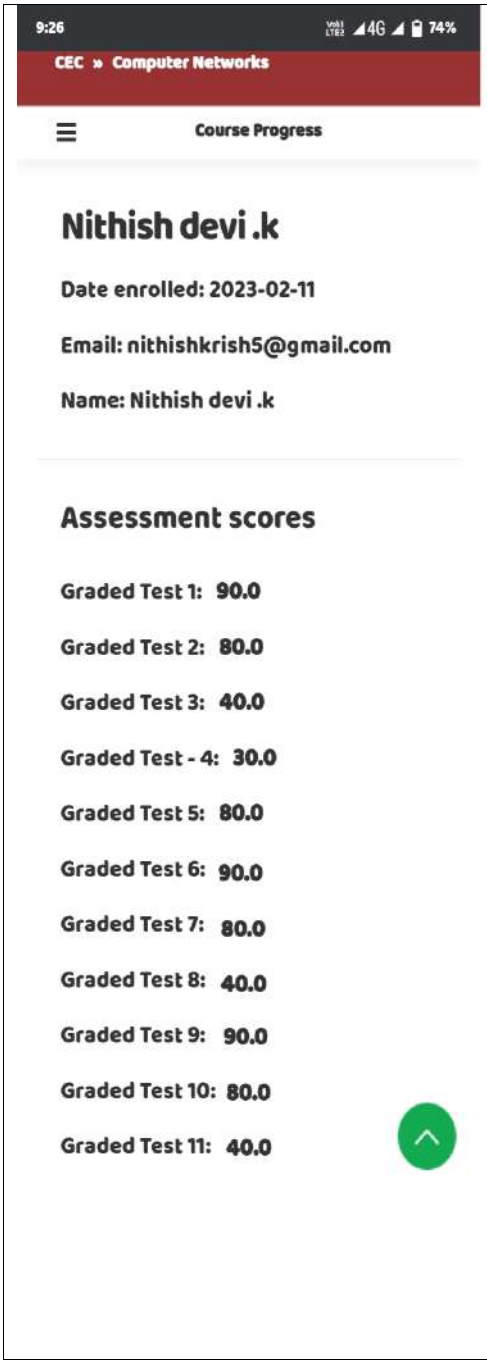
Graded Test 11: 100.0

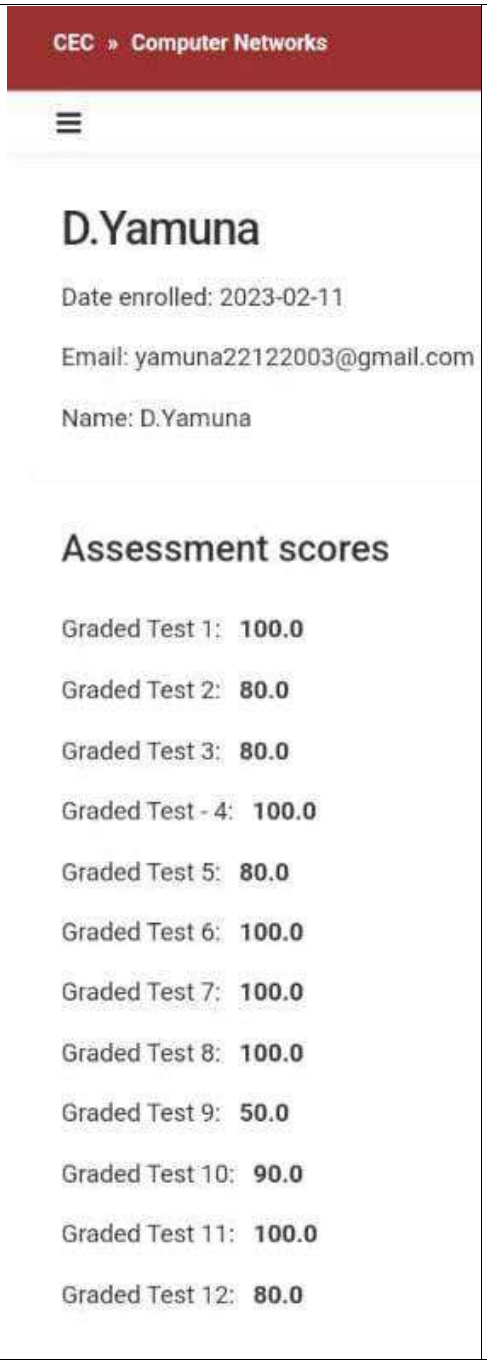
Graded Test 12: 20.0


CEC » Computer Networks
Dharshini
Date enrolled: 2023-02-11
Email: dharshiniky23@gmail.com
Name: Dharshini
Assessment scores
Graded Test 1: 100.0
Graded Test 2: 80.0
Graded Test 3: 40.0
Graded Test - 4: 30.0
Graded Test 5: 60.0
Graded Test 6: -
Graded Test 7: -
Graded Test 8: -
Graded Test 9: 50.0
Graded Test 10: 90.0
Graded Test 11: 100.0
Graded Test 12: 50.0


Course Progress
Name Kevan Joans. J
Email stylishjoans41@gmail.com
Date Enrolled 2023-01-18
Your Assessment scores
Week 1 : Assignment 1 -
Week 2 : Assignment 2 -
Week 3 : Assignment 3 30
Week 4 : Assignment 4 60
Week 5 : Assignment 5 40
Week 6 : Assignment 6 50
Week 7 : Assignment 7 70
Week 8 : Assignment 8 20
Week 9 : Assignment 9 80
Week 10 : Assignment 10 50
Week 11 : Assignment 11 20
Week 12 : Assignment 12 75


6:52
78%
Course Progress
Name Maadesh
Email maadheshkumar07@gmail.com
Date Enrolled 2023-01-19
Your Assessment scores
Week 1 : Assignment 1 60
Week 2 : Assignment 2 60
Week 3 : Assignment 3 50
Week 4 : Assignment 4 20
Week 5 : Assignment 5 90
Week 6 : Assignment 6 60
Week 7 : Assignment 7 60
Week 8 : Assignment 8 50
Week 9 : Assignment 9 --
Week 10 : Assignment 10 20
Week 11 : Assignment 11 90


9:26
74%
CEC » Computer Networks
Course Progress
Nithish devi .k
Date enrolled: 2023-02-11
Email: nithishkrish5@gmail.com
Name: Nithish devi .k
Assessment scores
Graded Test 1: 90.0
Graded Test 2: 80.0
Graded Test 3: 40.0
Graded Test - 4: 30.0
Graded Test 5: 80.0
Graded Test 6: 90.0
Graded Test 7: 80.0
Graded Test 8: 40.0
Graded Test 9: 90.0
Graded Test 10: 80.0
Graded Test 11: 40.0


CEC » Computer Networks
D.Yamuna
Date enrolled: 2023-02-11
Email: yamuna22122003@gmail.com
Name: D.Yamuna
Assessment scores
Graded Test 1: 100.0
Graded Test 2: 80.0
Graded Test 3: 80.0
Graded Test - 4: 100.0
Graded Test 5: 80.0
Graded Test 6: 100.0
Graded Test 7: 100.0
Graded Test 8: 100.0
Graded Test 9: 50.0
Graded Test 10: 90.0
Graded Test 11: 100.0
Graded Test 12: 80.0

Anith apel. J

Date enrolled: 2023-02-11

Email: anithjohn77@gmail.com

Name: Anith apel. J

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **40.0**

Graded Test 10: **90.0**

Graded Test 11: **90.0**

Graded Test 12: **80.0**

K. Pandimeena

Date enrolled: 2023-02-11

Email: pandimeenakumar2004@gma

Name: K. Pandimeena

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **20.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

Prithish

Date enrolled: 2023-02-11

Email: prithishgopi07@gmail.com

Name: Prithish

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 30.0

Graded Test - 4: 100.0

Graded Test 5: 80.0

Graded Test 6: 100.0

Graded Test 7: 100.0

Graded Test 8: 100.0

Graded Test 9: 50.0

Graded Test 10: 90.0

Graded Test 11: 90.0

Graded Test 12: 80.0

NPTEL » Communication Networks

C. M. Punniyamoorthy

Date enrolled: 2023-01-19

Email: punniyamoorthy719@gmail.com

Name: C. M. Punniyamoorthy

Assessment scores

Week 1 : Assignment 1: -

Week 2 : Assignment 2: **30.0**

Week 3 : Assignment 3: -

Week 4 : Assignment 4: -

Week 5 : Assignment 5: **60.0**

Week 6 : Assignment 6: **50.0**

Week 7 : Assignment 7: **60.0**

Week 8 : Assignment 8: **80.0**

Week 9 : Assignment 9: **80.0**

Week 10 : Assignment 10: **20.0**

Week 11 : Assignment 11: **90.0**

Week 12 : Assignment 12: **75.0**

CEC » Computer Networks

Rajeshwari.T

Date enrolled: 2023-02-15

Email: rajeshwariesh08@gmail.com

Name: Rajeshwari.T

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **90.0**

Graded Test 8: **80.0**

Graded Test 9: -

Graded Test 10: -

Graded Test 11: -

Graded Test 12: -

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Course Progr

Rani Chandra.V

Date enrolled: 2023-02-11

Email: kalpanavincent02@gma

Name: Rani Chandra.V

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **40.0**

Graded Test - 4: **20.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: -

Graded Test 10: -

Graded Test 11: -

Graded Test 12: -

CEC » Computer Networks

Renuga devi.s

Date enrolled: 2023-02-12

Email: renugadevir673@gmail.com

Name: Renuga devi.s

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **90.0**

Graded Test 5: **80.0**

Graded Test 6: **90.0**

Graded Test 7: **100.0**

Graded Test 8: **40.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

Course Progress

sajjeevan m

Date enrolled: 2023-02-11

Email: sajjeevan1312@gmail.com

Name: sajjeevan m

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: -

Graded Test 9: -

Graded Test 10: -

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

SANJAY

Date enrolled: 2023-02-11

Email: sanjusanju200218@gmail.co

Name: SANJAY

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **20.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **90.0**

Graded Test 7: **100.0**

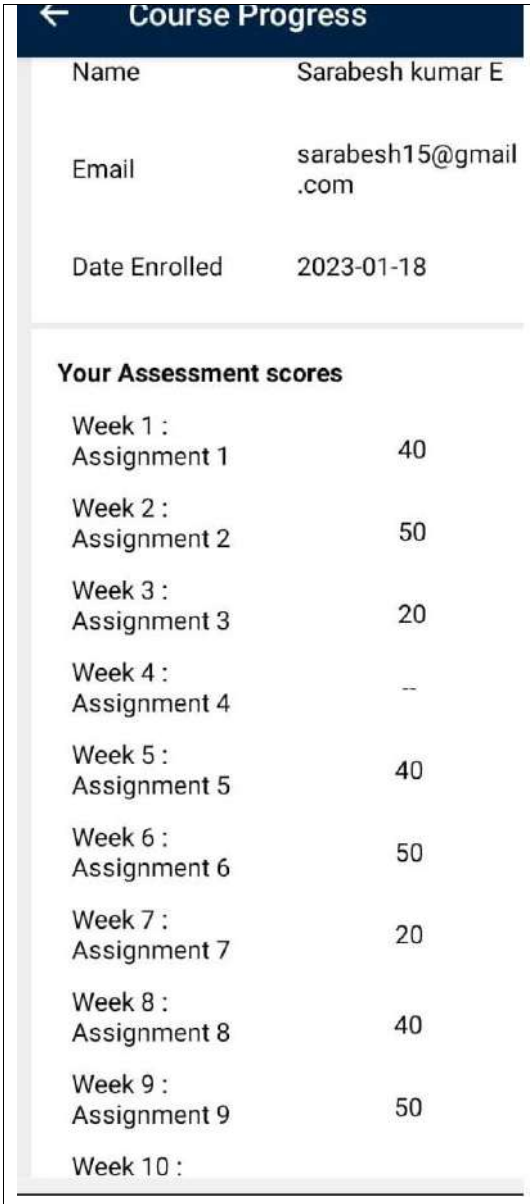
Graded Test 8: **30.0**

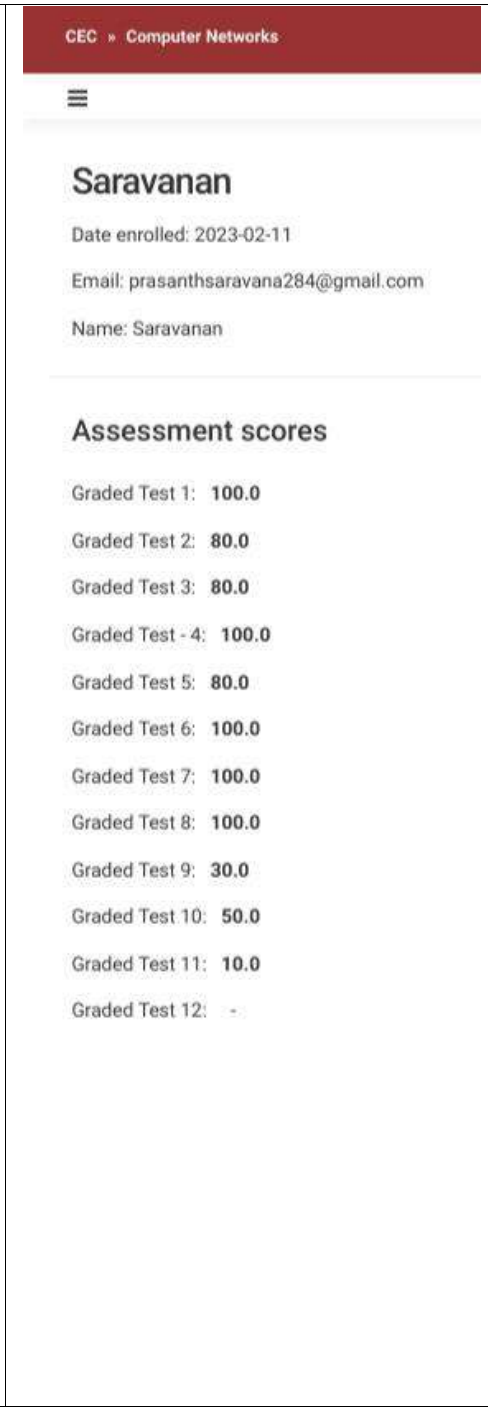
Graded Test 9: **50.0**

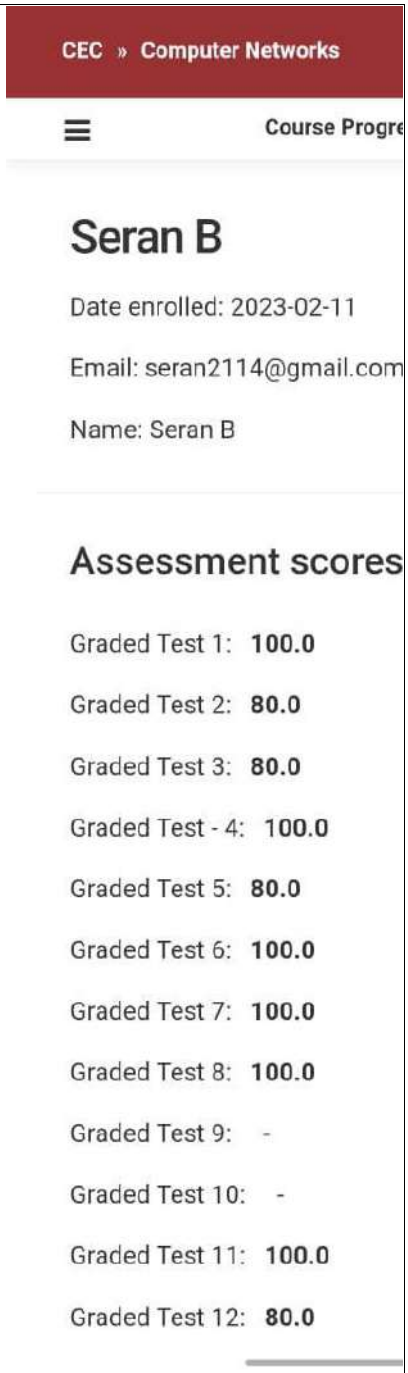
Graded Test 10: **90.0**

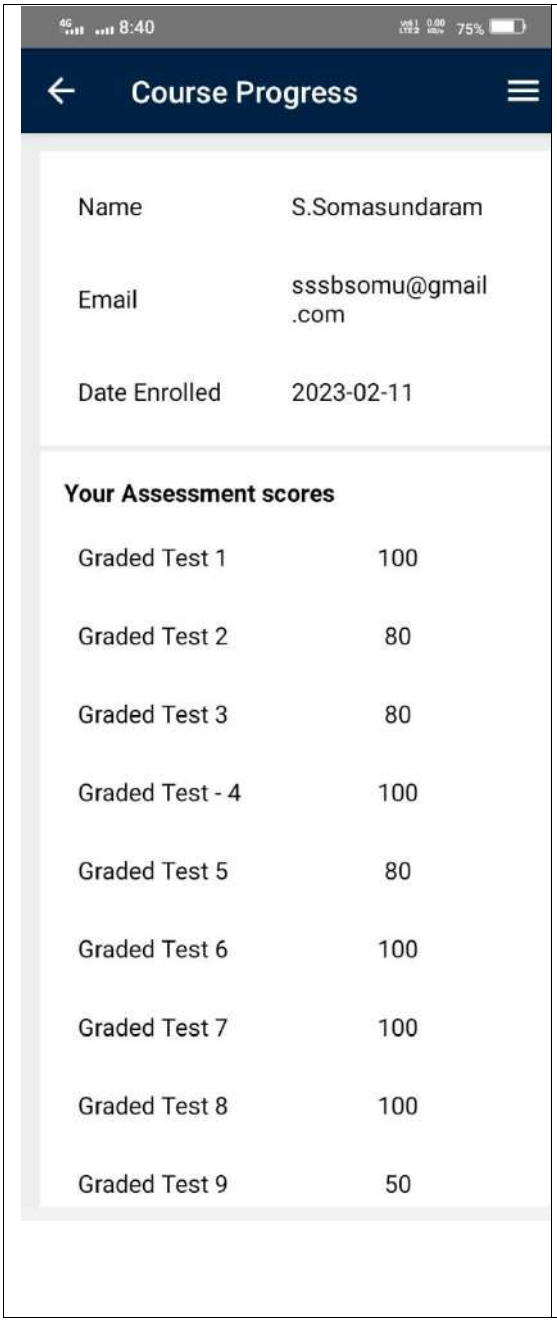
Graded Test 11: **100.0**

Graded Test 12: **80.0**


Course Progress
Name
Sarabesh kumar E
Email
sarabesh15@gmail.com
Date Enrolled
2023-01-18
Your Assessment scores
Week 1 : Assignment 1
40
Week 2 : Assignment 2
50
Week 3 : Assignment 3
20
Week 4 : Assignment 4
--
Week 5 : Assignment 5
40
Week 6 : Assignment 6
50
Week 7 : Assignment 7
20
Week 8 : Assignment 8
40
Week 9 : Assignment 9
50
Week 10 :


CEC » Computer Networks
Saravanan
Date enrolled: 2023-02-11
Email: prasanthsaravana284@gmail.com
Name: Saravanan
Assessment scores
Graded Test 1: 100.0
Graded Test 2: 80.0
Graded Test 3: 80.0
Graded Test - 4: 100.0
Graded Test 5: 80.0
Graded Test 6: 100.0
Graded Test 7: 100.0
Graded Test 8: 100.0
Graded Test 9: 30.0
Graded Test 10: 50.0
Graded Test 11: 10.0
Graded Test 12: -


CEC » Computer Networks
Course Progre
Seran B
Date enrolled: 2023-02-11
Email: seran2114@gmail.com
Name: Seran B
Assessment scores
Graded Test 1: 100.0
Graded Test 2: 80.0
Graded Test 3: 80.0
Graded Test - 4: 100.0
Graded Test 5: 80.0
Graded Test 6: 100.0
Graded Test 7: 100.0
Graded Test 8: 100.0
Graded Test 9: -
Graded Test 10: -
Graded Test 11: 100.0
Graded Test 12: 80.0



T.someswaran

Date enrolled: 2023-01-19

Email: someswaran271@gmail.com

Name: T.someswaran

Assessment scores

Week 1 : Assignment 1: -

Week 2 : Assignment 2: -

Week 3 : Assignment 3: -

Week 4 : Assignment 4: -

Week 5 : Assignment 5: **60.0**

Week 6 : Assignment 6: **40.0**

Week 7 : Assignment 7: -

Week 8 : Assignment 8: **80.0**

Week 9 : Assignment 9: **80.0**

Week 10 : Assignment 10: **30.0**

Week 11 : Assignment 11: -

Week 12 : Assignment 12: **75.0**

Sudharsan

Date enrolled: 2023-02-11

Email: sudharsanp967@gma

Name: Sudharsan

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

T. Sujithra

Date enrolled: 2023-02-14

Email: thrapavi721@gmail.com

Name: T. Sujithra

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **30.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

Course Progress

Suriya Prakash M

Date enrolled: 2023-02-11

Email: suriyaprakash2k03@gmail.co

Name: Suriya Prakash M

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **40.0**

Graded Test 7: **90.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: -

CEC » Computer Networks

Swathi.V

Date enrolled: 2023-02-11

Email: swathivijayakumar23@g

Name: Swathi.V

Assessment scores

Graded Test 1: 100.0

Graded Test 2: 80.0

Graded Test 3: 80.0

Graded Test - 4: 100.0

Graded Test 5: 80.0

Graded Test 6: 100.0

Graded Test 7: 100.0

Graded Test 8: 100.0

Graded Test 9: 50.0

Graded Test 10: 80.0

Graded Test 11: 100.0

Graded Test 12: 80.0

CEC » Computer Networks

Thirunithi.k

Date enrolled: 2023-02-12

Email: thirunithikamaraj@gmail.com

Name: Thirunithi.k

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **10.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **10.0**

CEC » Computer Networks

G.Vadivu

Date enrolled: 2023-02-11

Email: shalinibanu27@gmail.com

Name: G.Vadivu

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **90.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

CEC » Computer Networks

Course Progres

Vijayadharshini

Date enrolled: 2023-02-14

Email: vijayadharsini249@gmail.

Name: Vijayadharshini

Assessment scores

Graded Test 1: **100.0**

Graded Test 2: **80.0**

Graded Test 3: **80.0**

Graded Test - 4: **100.0**

Graded Test 5: **80.0**

Graded Test 6: **100.0**

Graded Test 7: **100.0**

Graded Test 8: **100.0**

Graded Test 9: **50.0**

Graded Test 10: **90.0**

Graded Test 11: **100.0**

Graded Test 12: **80.0**

COURSE PROGRESS FOR COMMUNICATION NETWORKS

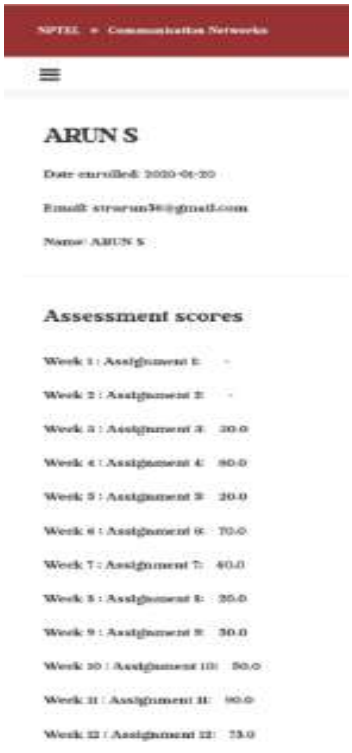
HARINILAKSHMI

JANARTHANAN V

MAHESWARAN D

ARIVAZHAGAN G

ARUN S



MANOJ L

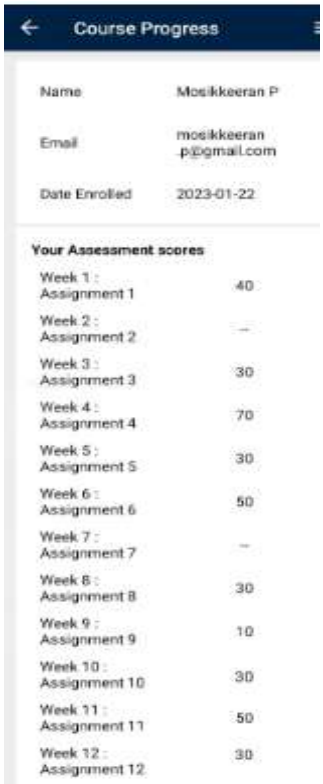
ASHWINI R

MOHAMED RIZWAN S

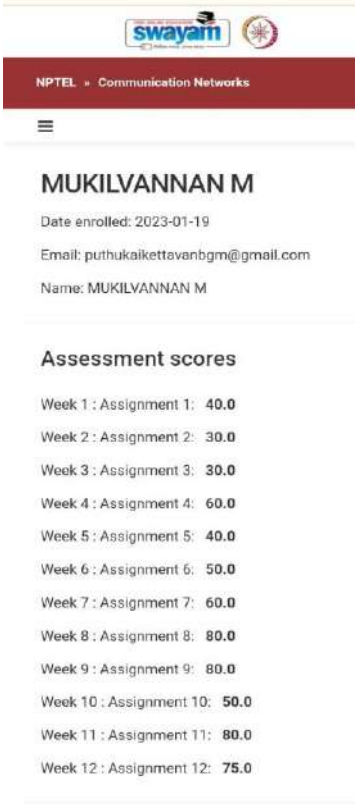
MOHAMED YASEEN M

DINESH KUMAR K

MOSIKKEERAN P



MUKILVANNAN M

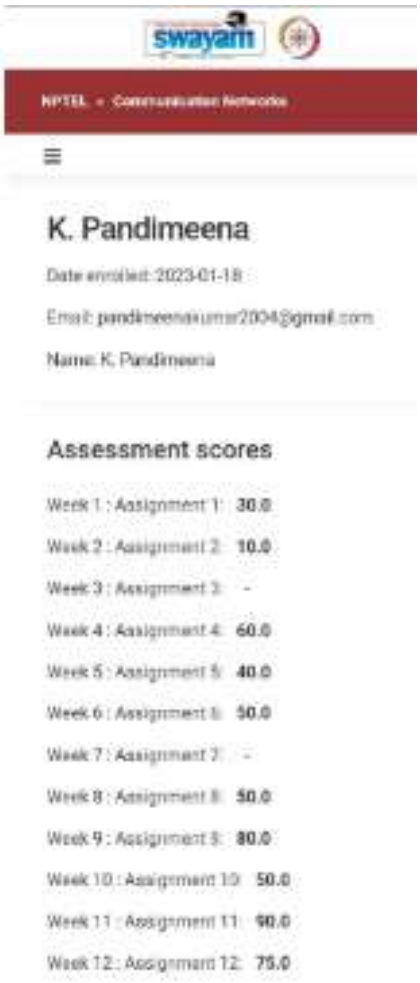


ENIYARASI P

KRISHNAMOORTHY

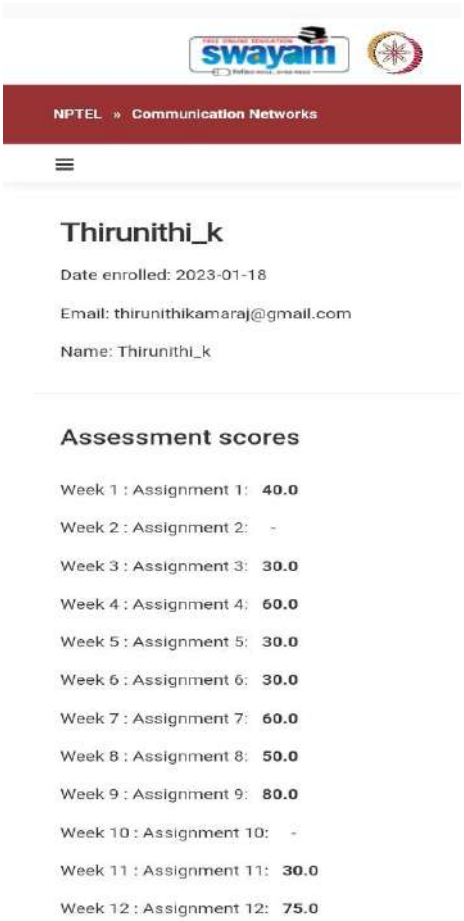
SERAN B

PANDI MEENA K



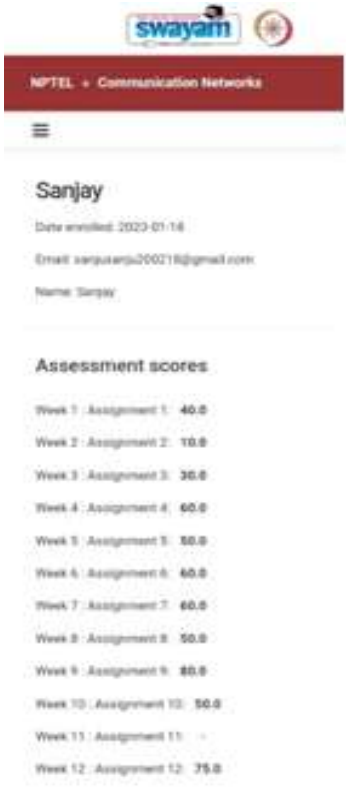
SAJJEEVAN

THIRUNITHI



SARAVANAN S

SANJAY



VADIVU G

PRAKASH ANTONY K

K.Prakash antony

Date enrolled: 2023-01-21

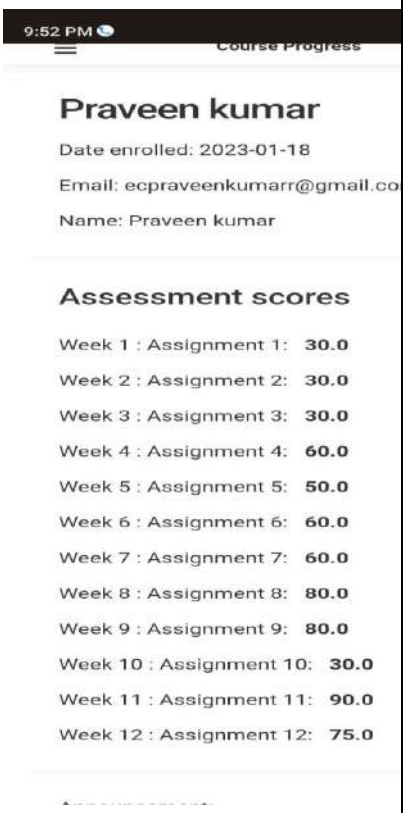
Email: prakashantony101@gmail.com

Name: K.Prakash antony

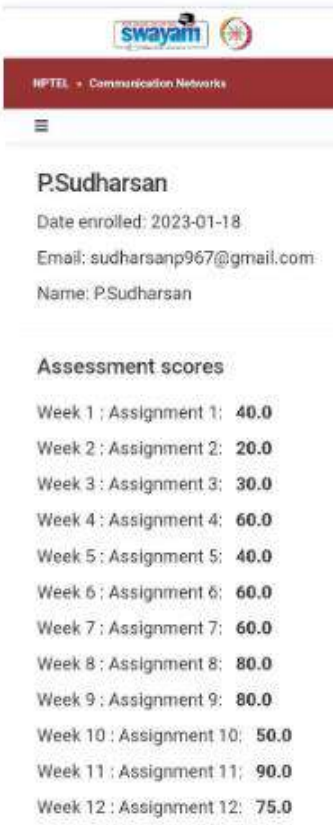
Assessment scores

Week 1 : Assignment 1: **30.0**
Week 2 : Assignment 2: **20.0**
Week 3 : Assignment 3: **30.0**
Week 4 : Assignment 4: **60.0**
Week 5 : Assignment 5: **50.0**
Week 6 : Assignment 6: **50.0**
Week 7 : Assignment 7: **30.0**
Week 8 : Assignment 8: **50.0**
Week 9 : Assignment 9: **80.0**
Week 10 : Assignment 10: **30.0**
Week 11 : Assignment 11: **60.0**
Week 12 : Assignment 12: **75.0**

PRAVEEN KUMAR R



SUDHARSAN P



RAJESHWARI T

YUVARAJ R

Yuvaraj. R

Date enrolled: 2023-01-18

Email: yuvarajravi777@gmail.com

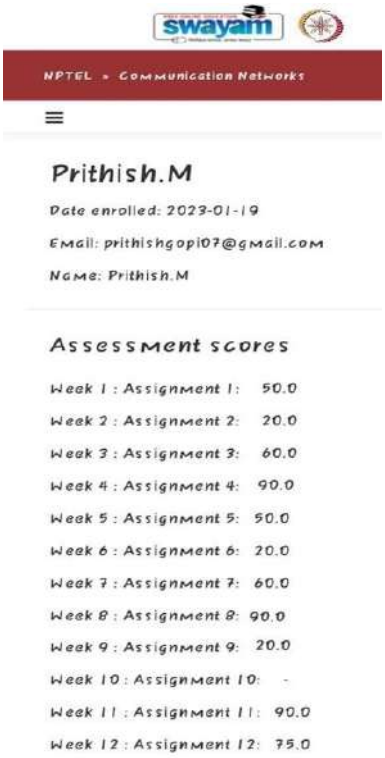
Name: Yuvaraj. R

Assessment scores

Week 1 : Assignment 1: **60.0**
Week 2 : Assignment 2: -
Week 3 : Assignment 3: -
Week 4 : Assignment 4: -
Week 5 : Assignment 5: **40.0**
Week 6 : Assignment 6: **50.0**
Week 7 : Assignment 7: **70.0**
Week 8 : Assignment 8: **80.0**
Week 9 : Assignment 9: **80.0**
Week 10 : Assignment 10: -
Week 11 : Assignment 11: **90.0**
Week 12 : Assignment 12: **75.0**

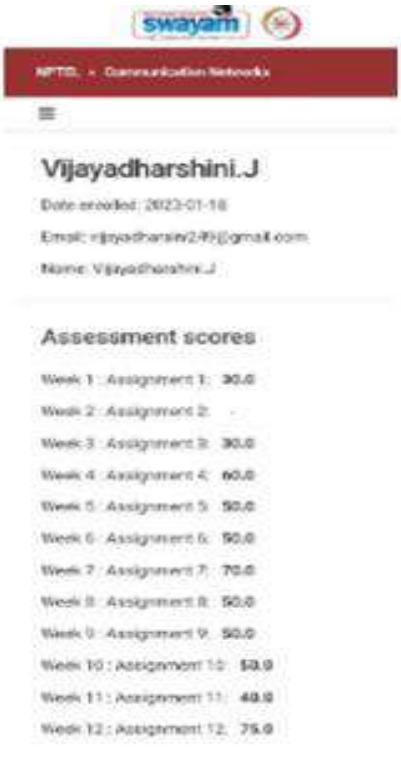
YAMUNA D

PRITHISH M



SNEHARAJ

VIJAYADHARSHINI J

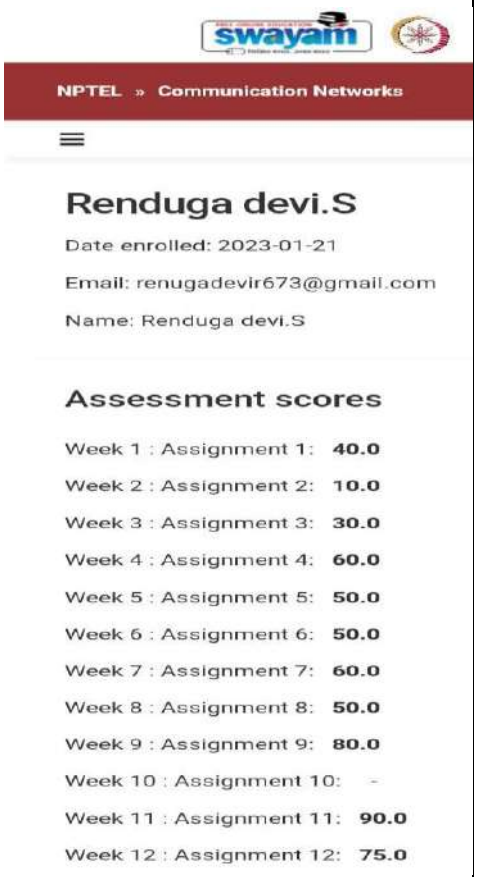


RANI CHANDRA V

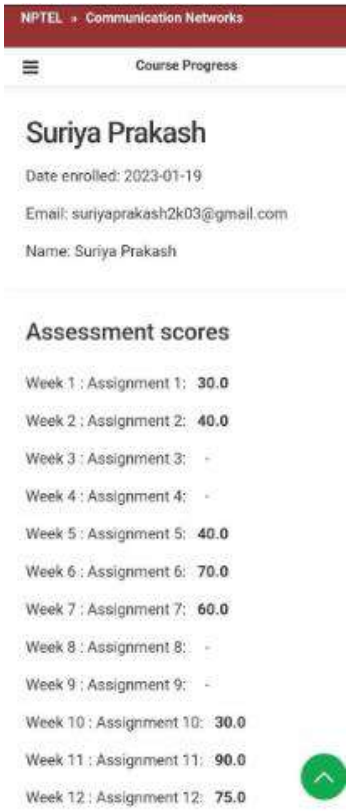
SUJITHRA T

ANITH APEL. J

RENUGA DEVI S



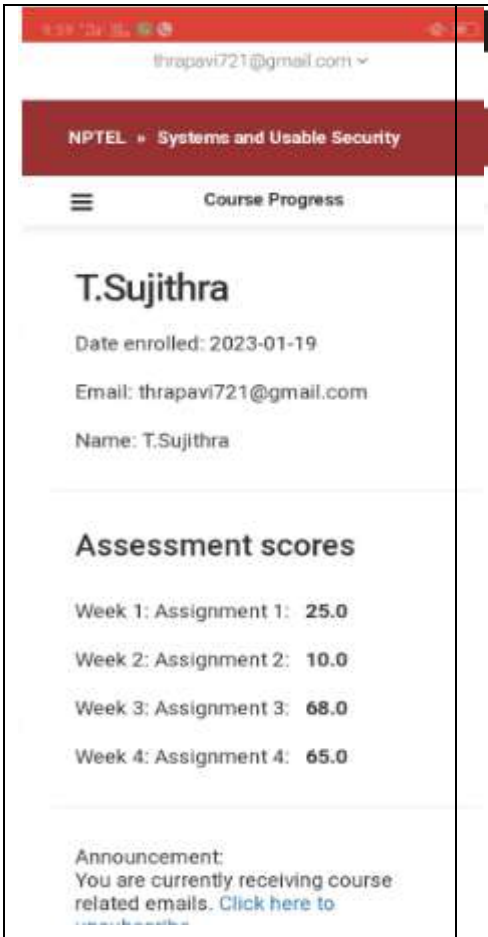
SURIYA PRAKASH M

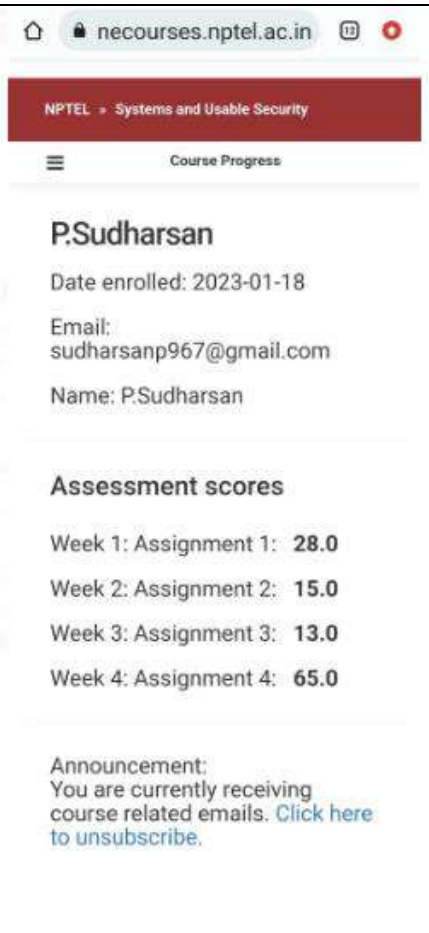


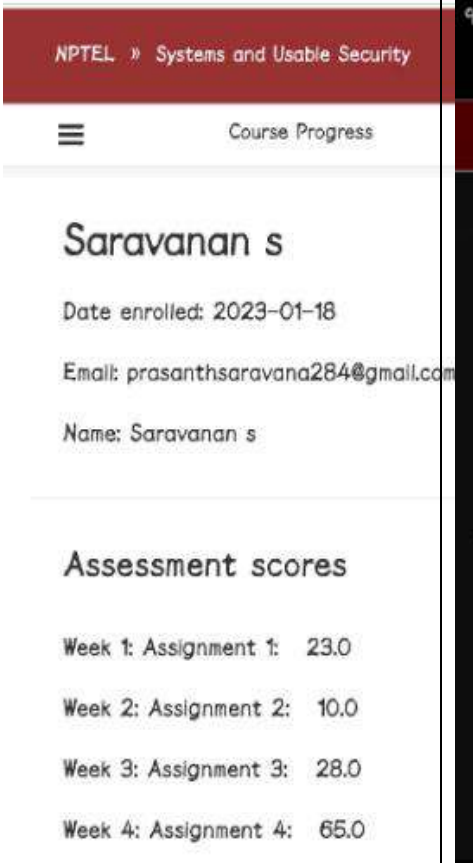
SABETHA M

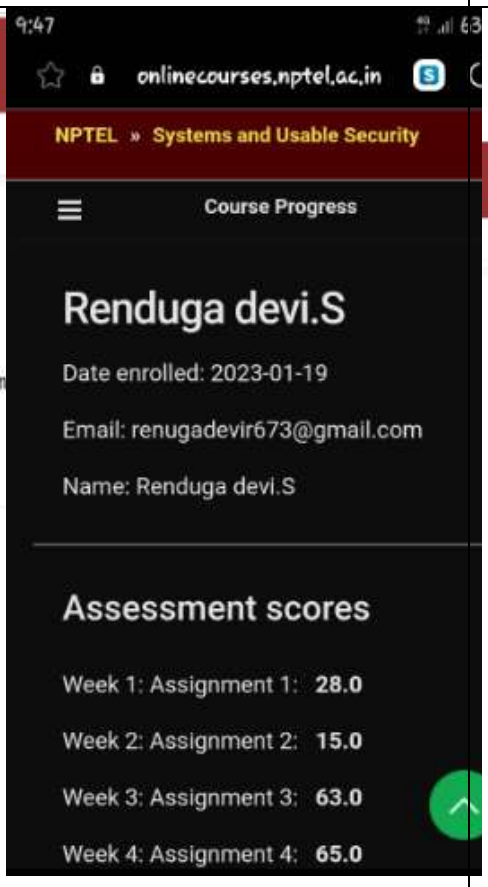
SWATHI V

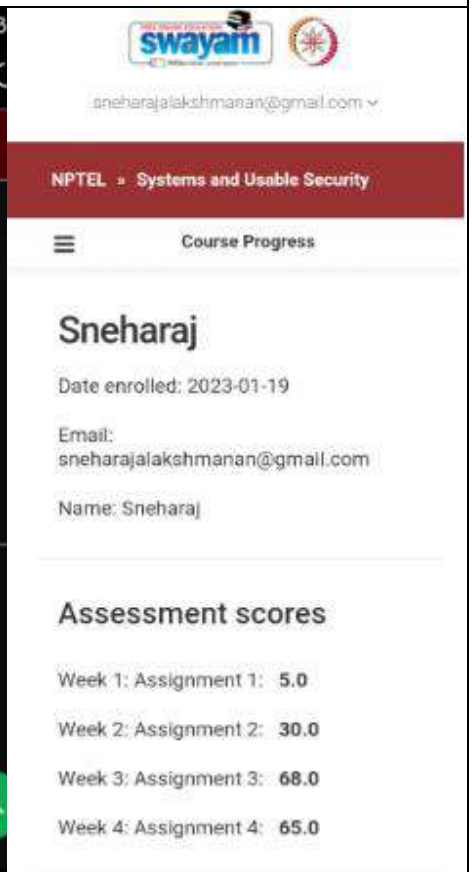
COURSE PROGRESS FOR SYSTEMS AND USABLE SECURITY

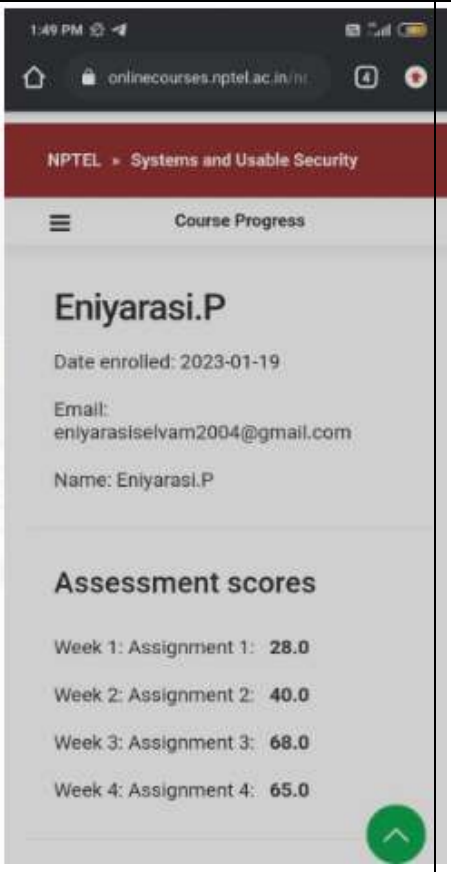


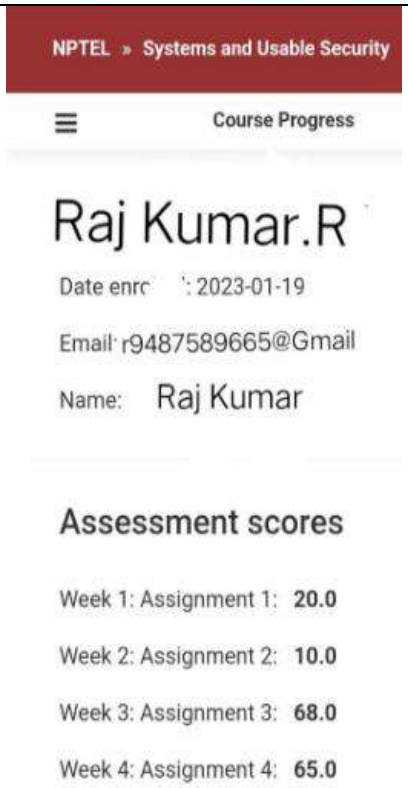




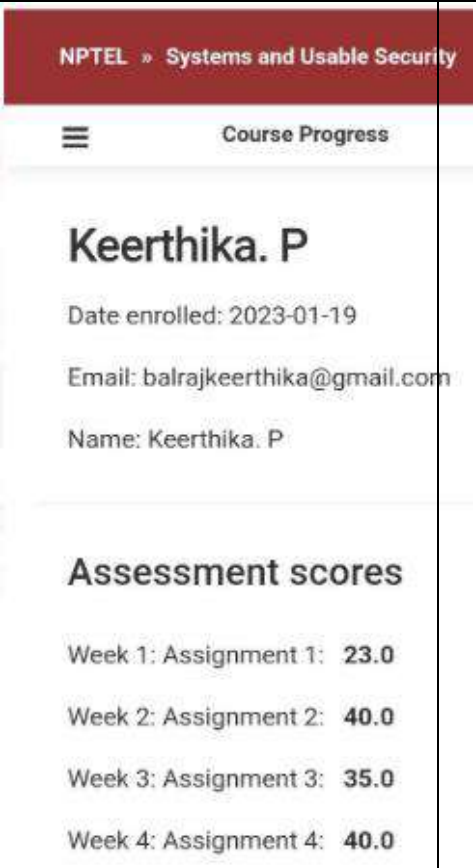


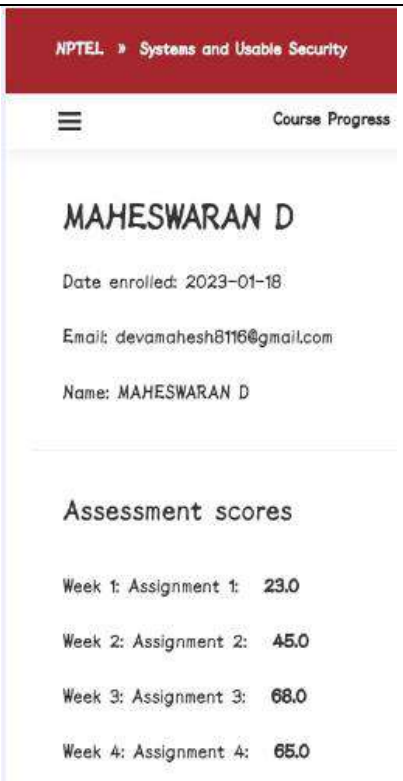


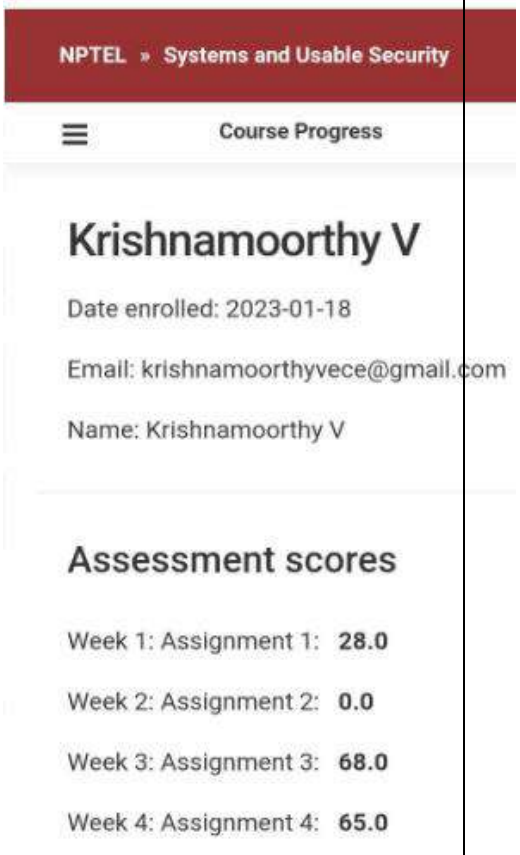

NPTEL » Systems and Usable Security
Course Progress
Eniyarasi.P
Date enrolled: 2023-01-19
Email: eniyarasiselvam2004@gmail.com
Name: Eniyarasi.P
Assessment scores
Week 1: Assignment 1: 28.0
Week 2: Assignment 2: 40.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0


NPTEL » Systems and Usable Security
Course Progress
Raj Kumar.R
Date enrc : 2023-01-19
Email r9487589665@Gmail
Name: Raj Kumar
Assessment scores
Week 1: Assignment 1: 20.0
Week 2: Assignment 2: 10.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

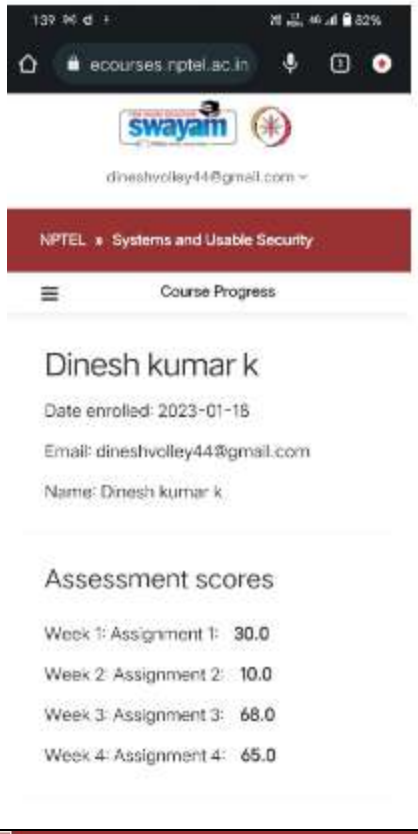
NPTEL » Systems and Usable Security
Course Progress
MUKILVANNAN M
Date enrolled: 2023-01-19
Email: puthukaikettavanbgm@gmail.com
Name: MUKILVANNAN M
Assessment scores
Week 1: Assignment 1: 20.0
Week 2: Assignment 2: 10.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

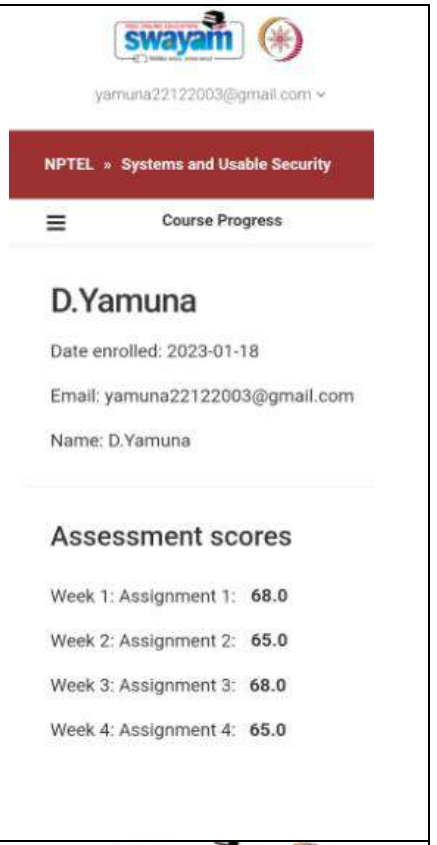

NPTEL » Systems and Usable Security
Course Progress
Keerthika. P
Date enrolled: 2023-01-19
Email: balrajkeerthika@gmail.com
Name: Keerthika. P
Assessment scores
Week 1: Assignment 1: 23.0
Week 2: Assignment 2: 40.0
Week 3: Assignment 3: 35.0
Week 4: Assignment 4: 40.0

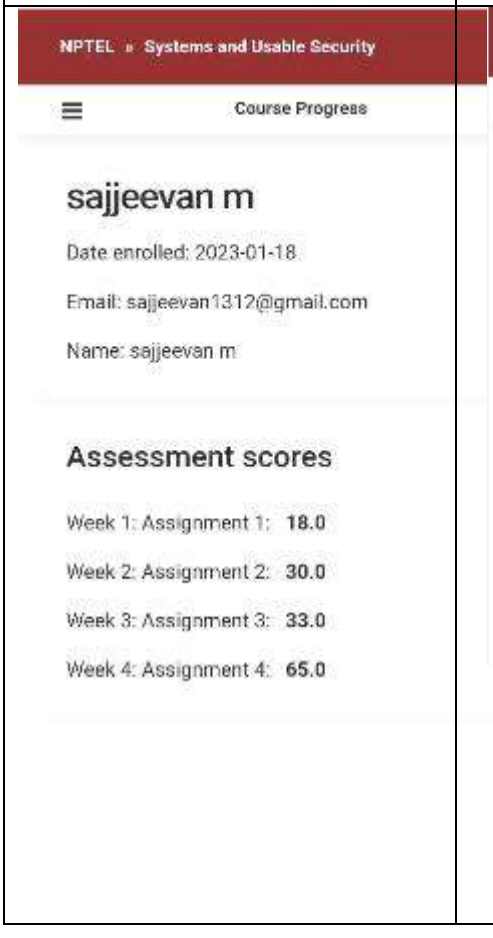

NPTEL » Systems and Usable Security
Course Progress
MAHESWARAN D
Date enrolled: 2023-01-18
Email: devamahesh8116@gmail.com
Name: MAHESWARAN D
Assessment scores
Week 1: Assignment 1: 23.0
Week 2: Assignment 2: 45.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0


NPTEL » Systems and Usable Security
Course Progress
Krishnamoorthy V
Date enrolled: 2023-01-18
Email: krishnamoorthyvece@gmail.com
Name: Krishnamoorthy V
Assessment scores
Week 1: Assignment 1: 28.0
Week 2: Assignment 2: 0.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

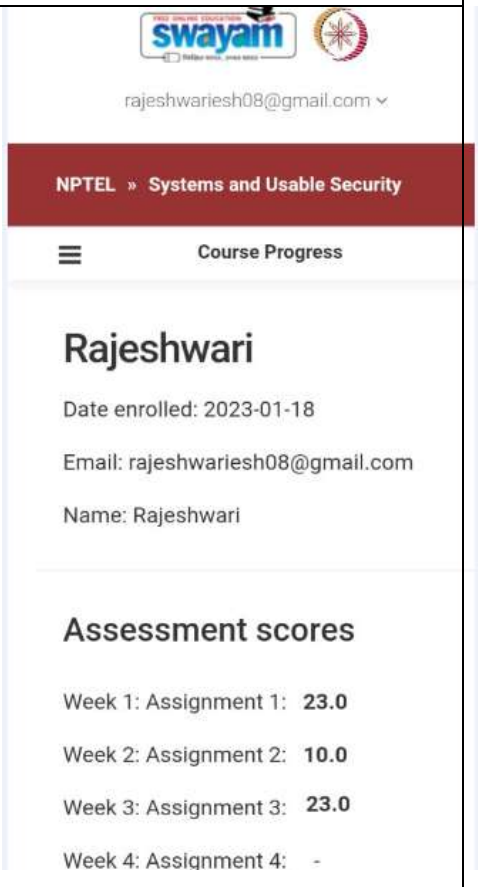
ecourses.nptel.ac.in
yaseenwaseem005@gmail.com
NPTEL » Systems and Usable Security
Course Progress
Mohamed yaseen. M
Date enrolled: 2023-01-18
Email: yaseenwaseem005@gmail.com
Name: Mohamed yaseen. M
Assessment scores
Week 1: Assignment 1: 20.0
Week 2: Assignment 2: 20.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

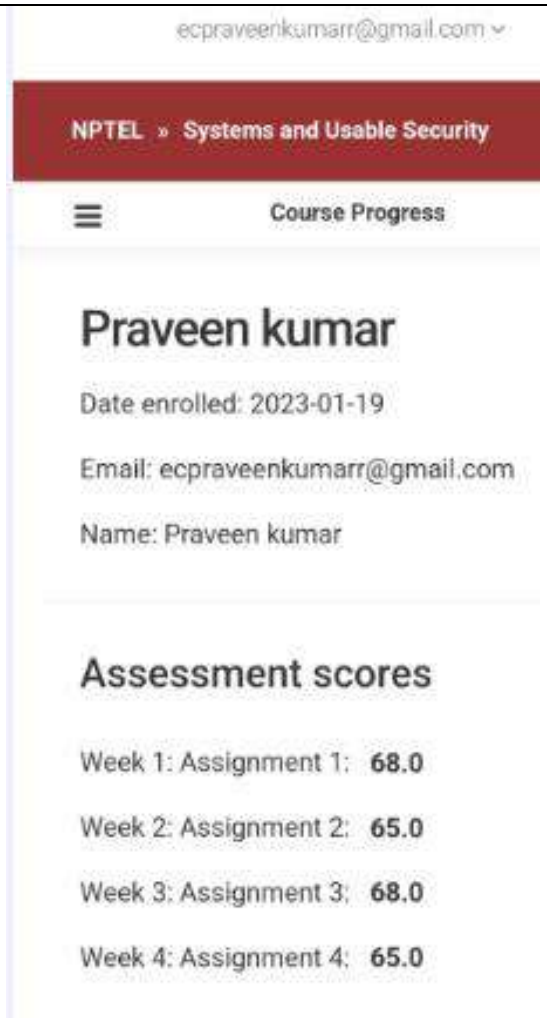

ecourses.nptel.ac.in
dineshvolley44@gmail.com
NPTEL » Systems and Usable Security
Course Progress
Dinesh kumar k
Date enrolled: 2023-01-18
Email: dineshvolley44@gmail.com
Name: Dinesh kumar k
Assessment scores
Week 1: Assignment 1: 30.0
Week 2: Assignment 2: 10.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0


yamuna22122003@gmail.com
NPTEL » Systems and Usable Security
Course Progress
D.Yamuna
Date enrolled: 2023-01-18
Email: yamuna22122003@gmail.com
Name: D.Yamuna
Assessment scores
Week 1: Assignment 1: 68.0
Week 2: Assignment 2: 65.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

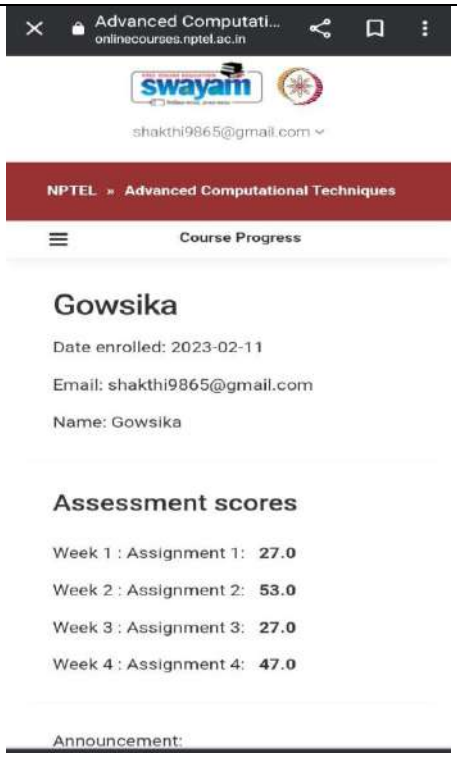

NPTEL » Systems and Usable Security
Course Progress
sajjeevan m
Date enrolled: 2023-01-18
Email: sajjeevan1312@gmail.com
Name: sajjeevan m
Assessment scores
Week 1: Assignment 1: 18.0
Week 2: Assignment 2: 30.0
Week 3: Assignment 3: 33.0
Week 4: Assignment 4: 65.0

NPTEL » Systems and Usable Security
Course Progress
Thirunithi_k
Date enrolled: 2023-01-18
Email: thirunithikamaraj@gmail.com
Name: Thirunithi_k
Assessment scores
Week 1: Assignment 1: 40.0
Week 2: Assignment 2: -
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0


rajeshwariesh08@gmail.com
NPTEL » Systems and Usable Security
Course Progress
Rajeshwari
Date enrolled: 2023-01-18
Email: rajeshwariesh08@gmail.com
Name: Rajeshwari
Assessment scores
Week 1: Assignment 1: 23.0
Week 2: Assignment 2: 10.0
Week 3: Assignment 3: 23.0
Week 4: Assignment 4: -


ecpraveenkumarr@gmail.com
NPTEL » Systems and Usable Security
Course Progress
Praveen kumar
Date enrolled: 2023-01-19
Email: ecpraveenkumarr@gmail.com
Name: Praveen kumar
Assessment scores
Week 1: Assignment 1: 68.0
Week 2: Assignment 2: 65.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0

1:05 PM | 0.3KB/s
:courses.nptel.ac.in
swayam
hariniviji290@gmail.com
NPTEL » Systems and Usable Security
Course Progress
Harinilakshmi.V
Date enrolled: 2023-01-18
Email: hariniviji290@gmail.com
Name: Harinilakshmi.V
Assessment scores
Week 1: Assignment 1: 68.0
Week 2: Assignment 2: 65.0
Week 3: Assignment 3: 68.0
Week 4: Assignment 4: 65.0


Advanced Computati...
onlinecourses.nptel.ac.in
swayam
shakthi9865@gmail.com
NPTEL » Advanced Computational Techniques
Course Progress
Gowsika
Date enrolled: 2023-02-11
Email: shakthi9865@gmail.com
Name: Gowsika
Assessment scores
Week 1 : Assignment 1: 27.0
Week 2 : Assignment 2: 53.0
Week 3 : Assignment 3: 27.0
Week 4 : Assignment 4: 47.0
Announcement:

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEMESTER)

ABOUT THE SWAYAM / NPTEL ONLINE COURSE:

As per the Instruction given by our HOD, it was planned to conduct SWAYAM / NPTEL online course for **Third year ECE** students in 2022-2023 EVEN semester.

The SWAYAM / NPTEL online course list was taken from the SWAYAM portal, and it was circulated to the students. Then they were asked to prefer any one course with four, six or twelve week duration.

Among the 46 students 30 students have enrolled in the course Digital Electronics and Microprocessor.

swayam

Digital Electronics and Microprocessor

By Dr. Sumeet Gupta | Associate professor,Shri Mata Vaishno Devi University, Katra, J&K.

Go to course Learners enrolled: 2119

COURSE NAME: 1. DIGITAL ELECTRONICS AND MICROPROCESSOR

This course was handled by **Professor Sumeet Gupta** Associate professor,Shri Mata Vaishno Devi University, Katra, J&K.

The course starting date was 23rd January 2023.

The course ending date was 30th April 2023.

The duration of this course was 12 weeks.

The Course layout was scheduled as follows.

Week 1

Introduction to Number system, Conversion between Decimal and Hexadecimal , conversion between binary and Hexadecimal Number

Week 2

Octal Number system, Conversion of Decimal to Octal, Octal to Decimal, conversion between binary and Octal Number,
Binary Addition, Hexadecimal Addition, Binary addition with carry, Binary

Week 3

History and concepts of Microprocessor, Microprocessor based system design ,
Memory, Machine language and Assembly Language

Week 4

8085 Microprocessor and its architecture

Week 5

8085 instructions and addressing modes

Week 6

System structure, I/O interfacing and Timing diagram IN and OUT instructions and Peripheral Interfacing,
Interfacing with LED, Memory mapped I/O

Week 7

8085 interrupts and its classification, Software interrupts, priorities of interrupts

Week 8

Interrupt instructions, Conditions of data transfer

Week 9

Programmable device 8155, signals and functions

Week 10
8155 control register and its modes & Sample programs

Week 11
8255 pins and signals, Modes of operation

Week 12
I/O configuration and Example programs

OUTCOME:

Students gained more knowledge on microprocessor and Digital Electronics.. They can able to write the 8085 microprocessor programs on their own.

Students studied the basics of digital electronics and they have acquired knowledge on that.

Out of 46 students, 30 have enrolled and completed the course Digital Electronics and Microprocessor.

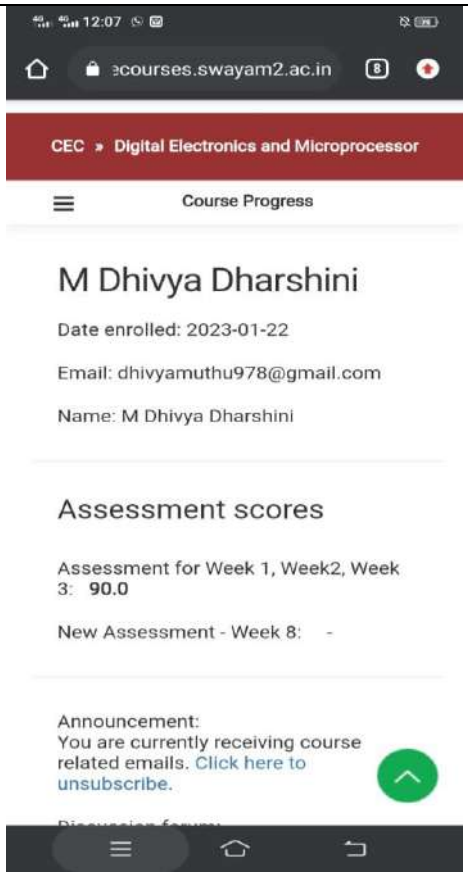
The students course progress were attached below.

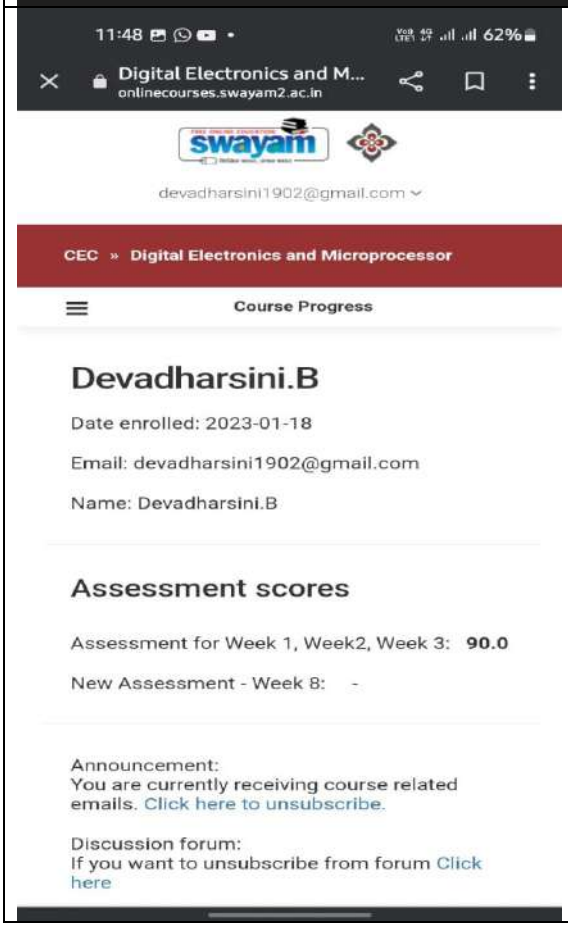
20/7/23
IQAC member

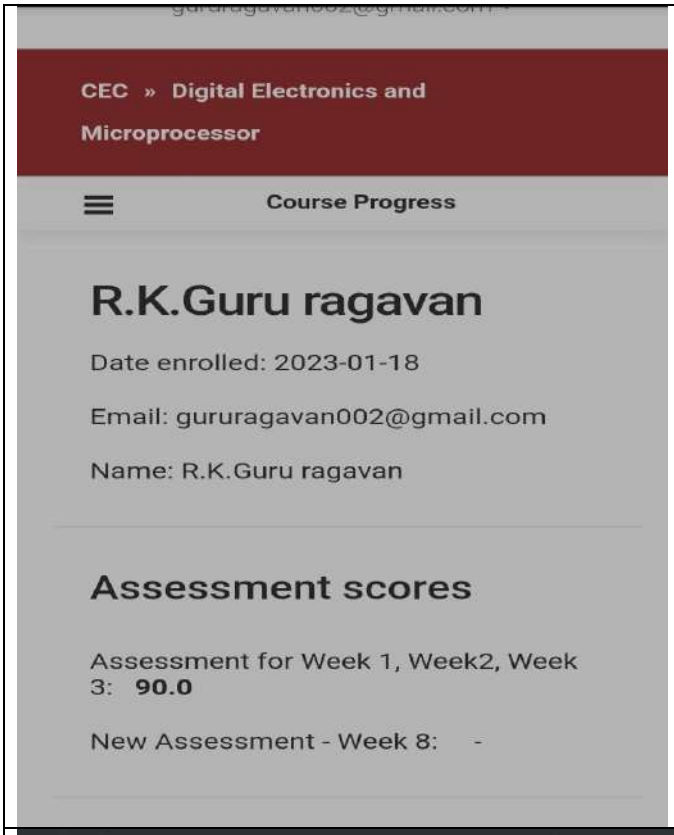
25/7/2023
HOD / ECE

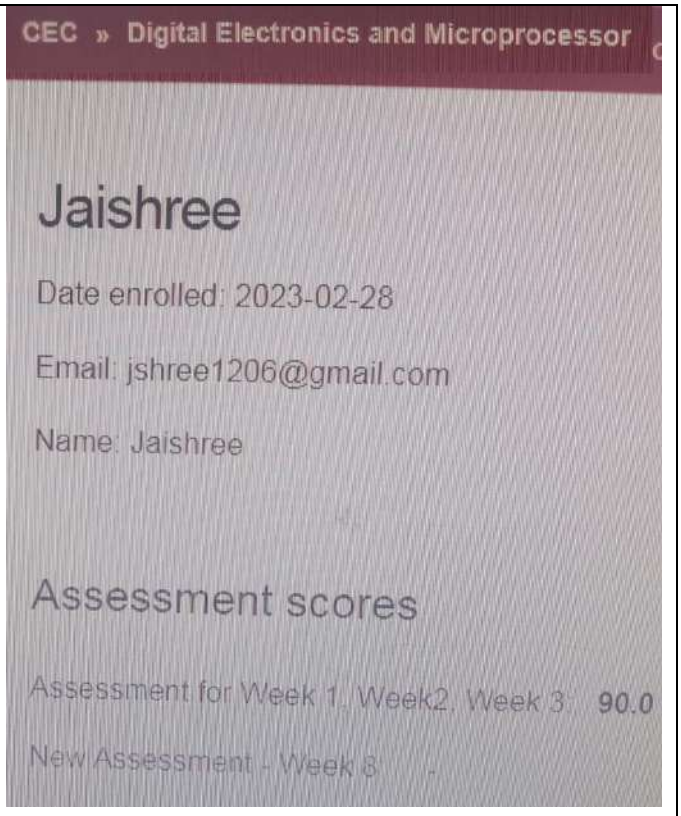
25/7/2023
PRNCIPAL

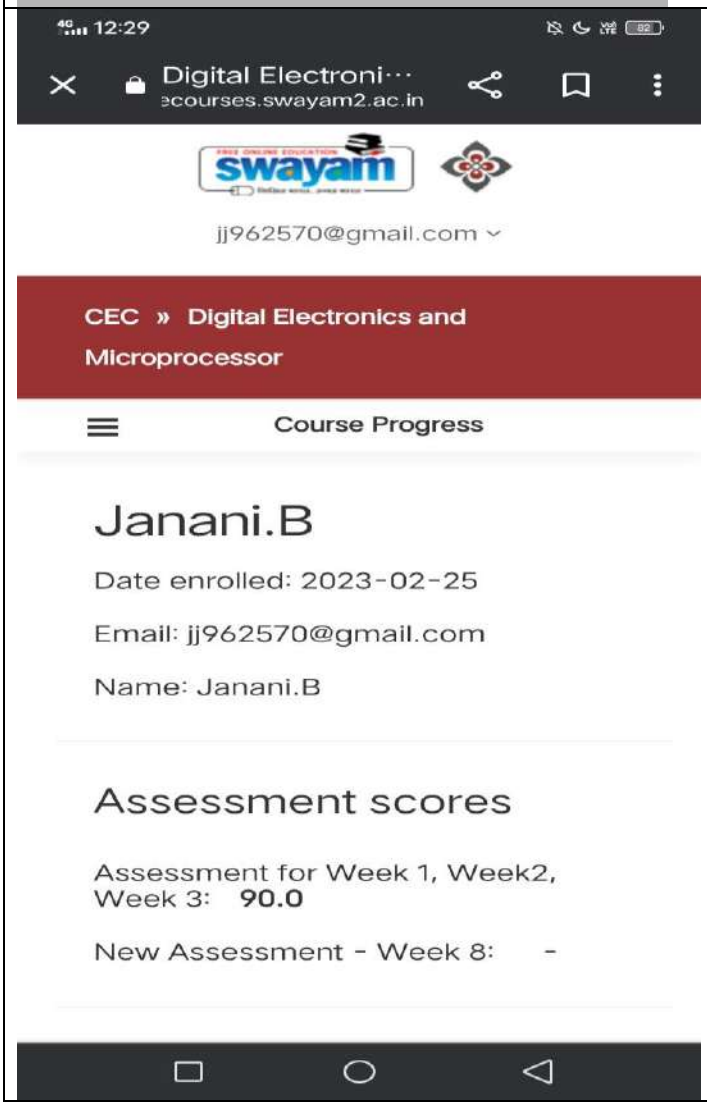
COURSE PROGRESS FOR DIGITAL ELECTRONICS AND MICROPROCESSOR






CEC » Digital Electronics and Microprocessor
Course Progress
R.K.Guru ragavan
Date enrolled: 2023-01-18
Email: gururagavan002@gmail.com
Name: R.K.Guru ragavan
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -


CEC » Digital Electronics and Microprocessor
Jaishree
Date enrolled: 2023-02-28
Email: jshree1206@gmail.com
Name: Jaishree
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -


12:29
Digital Electroni···
ecourses.swayam2.ac.in
swayam
jj962570@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
Janani.B
Date enrolled: 2023-02-25
Email: jj962570@gmail.com
Name: Janani.B
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -

11:58
68%
Digital Electroni...
ecourses.swayam2.ac.in
Course Progress
JOTHIKA G
Date enrolled: 2023-01-18
Email: jothikaganesan23102002@gmail.com
Name: JOTHIKA G
Assessment scores
Assessment for Week 1, Week2, Week 3: 70.0
New Assessment - Week 8: -
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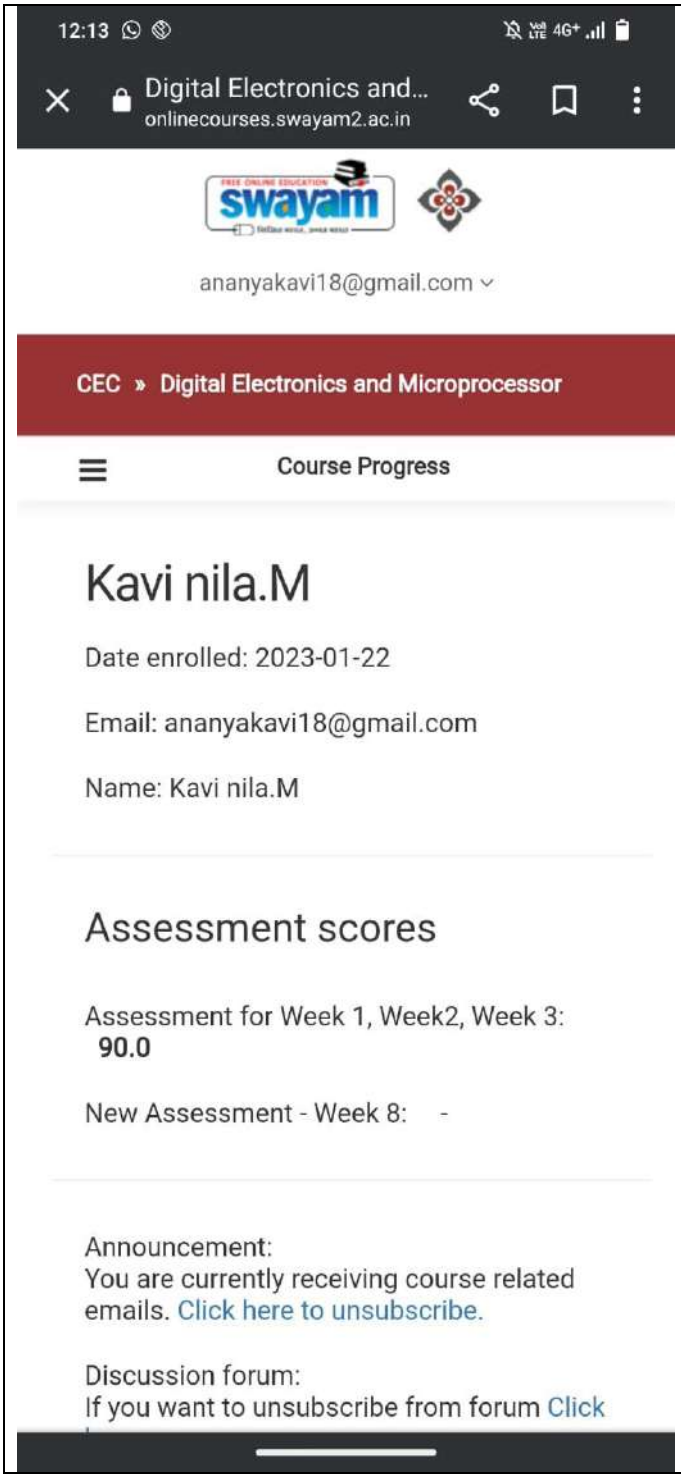
12:13
Digital Electronics and...
onlinecourses.swayam2.ac.in
ananyakavi18@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
Kavi nila.M
Date enrolled: 2023-01-22
Email: ananyakavi18@gmail.com
Name: Kavi nila.M
Assessment scores
Assessment for Week 1, Week2, Week 3:
90.0
New Assessment - Week 8: -
Announcement:
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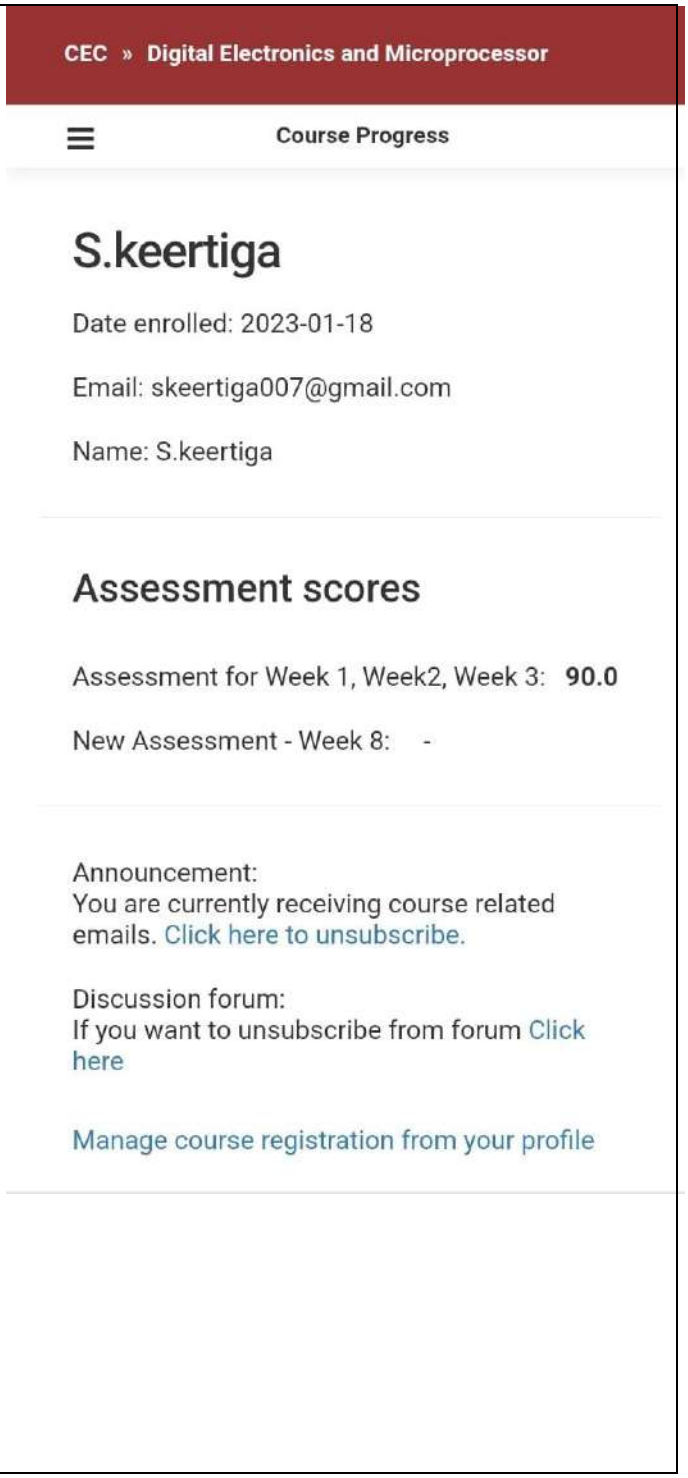
CEC » Digital Electronics and Microprocessor
Course Progress
S.keertiga
Date enrolled: 2023-01-18
Email: skeertiga007@gmail.com
Name: S.keertiga
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
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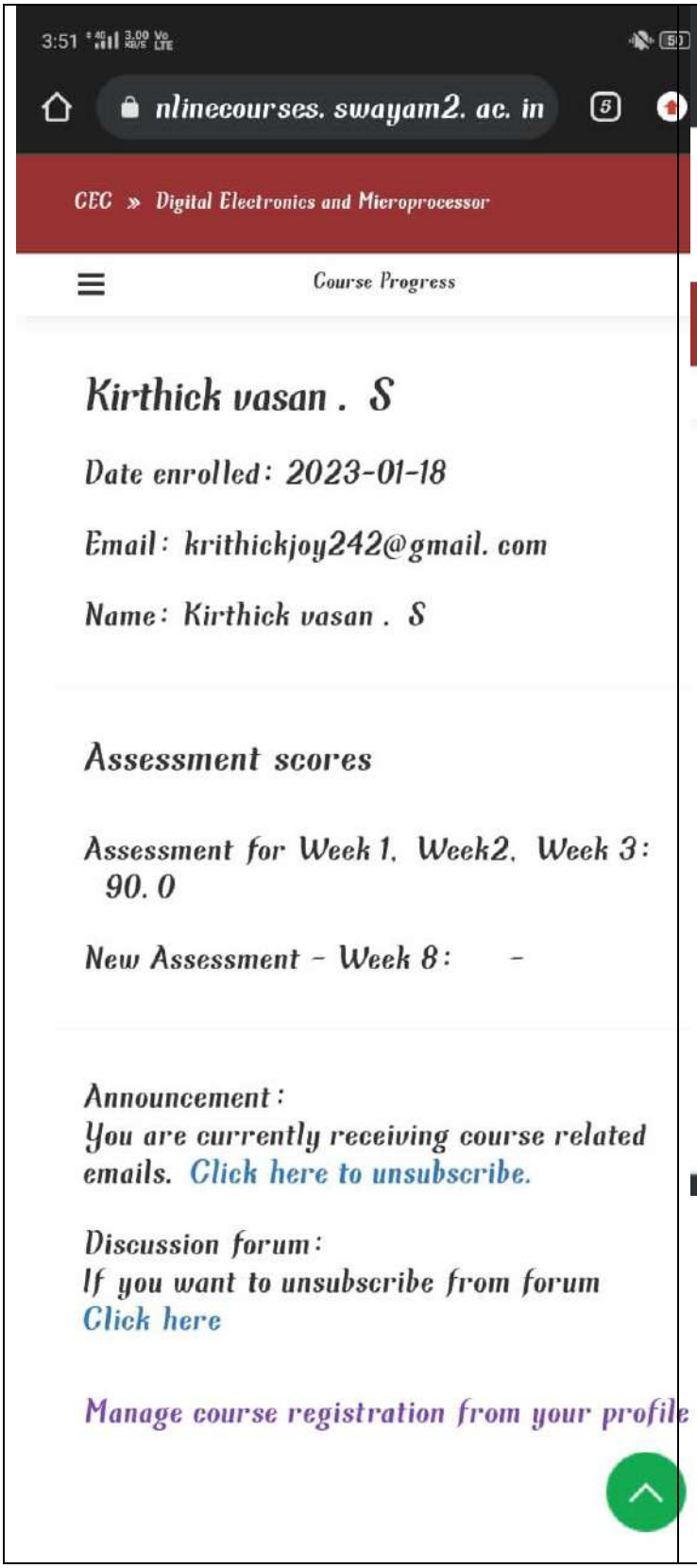
3:51
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CEC » Digital Electronics and Microprocessor
Course Progress
Kirthick vasan . S
Date enrolled: 2023-01-18
Email: krithickjoy242@gmail. com
Name: Kirthick vasan . S
Assessment scores
Assessment for Week 1. Week2. Week 3: 90. 0
New Assessment - Week 8: -
Announcement:
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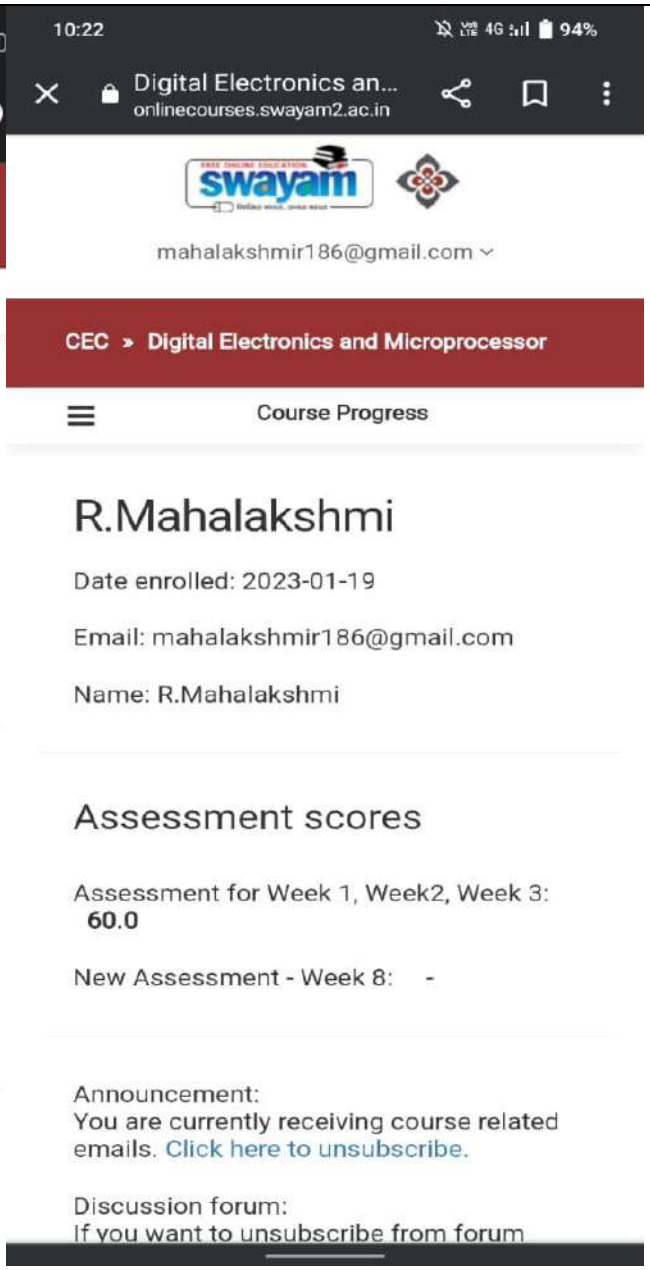
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swayam
mahalakshmir186@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
R.Mahalakshmi
Date enrolled: 2023-01-19
Email: mahalakshmir186@gmail.com
Name: R.Mahalakshmi
Assessment scores
Assessment for Week 1, Week2, Week 3: 60.0
New Assessment - Week 8: -
Announcement:
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Discussion forum:
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CEC » Digital Electronics and Microprocessor

Course Progress

Maniyarasi. R

Date enrolled: 2023-02-28

Email: maniyarasir3@gmail.com

Name: Maniyarasi. R

Assessment scores

Assessment for Week 1, Week2, Week 3: **90.0**

New Assessment - Week 8: -

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rlinecourses.swayam2.ac.in

kumarsenthil18667@gmail.com

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Course Progress

Natika. K.S

Date enrolled: 2023-01-18

Email: kumarsenthil18667@gmail.com

Name: Natika. K.S

Assessment scores

Assessment for Week 1, Week2, Week 3: **90.0**

New Assessment - Week 8: -

Announcement:

preethiselvakumar2002@gmail.com

CEC » Digital Electronics and Microprocessor

Course Progress

Preethi. S

Date enrolled: 2023-01-18

Email: preethiselvakumar2002@gmail.com

Name: Preethi. S

Assessment scores

Assessment for Week 1, Week2, Week 3: **90.0**

New Assessment - Week 8: -

Announcement:
You are currently unsubscribed from

12:33 PM 85%
urses.swayam2.ac.in
pddharshini3@gmail.com

CEC » Digital Electronics and Microprocessor

Course Progress

Priyadharshini.j

Date enrolled: 2023-01-18

Email: pddharshini3@gmail.com

Name: Priyadharshini.j

Assessment scores

Assessment for Week 1, Week2, Week 3: **90.0**

New Assessment - Week 8: -

Announcement:
You are currently receiving course related emails. Click here to

rockranjith6995@gmail.com

CEC » Digital Electronics and Microprocessor

Course Progress

Ranjith

Date enrolled: 2023-01-18

Email: rockranjith6995@gmail.com

Name: Ranjith

Assessment scores

Assessment for Week 1, Week2, Week 3:
80.0

New Assessment - Week 8: -

Announcement:
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sathishkannan7628@gmail.com

CEC » Digital Electronics and Microprocessor

Course Progress

Sathish Kannan.S

Date enrolled: 2023-01-18

Email: sathishkannan7628@gmail.com

Name: Sathish Kannan.S

Assessment scores

Assessment for Week 1, Week2, Week 3:
90.0

New Assessment - Week 8: -

Announcement:
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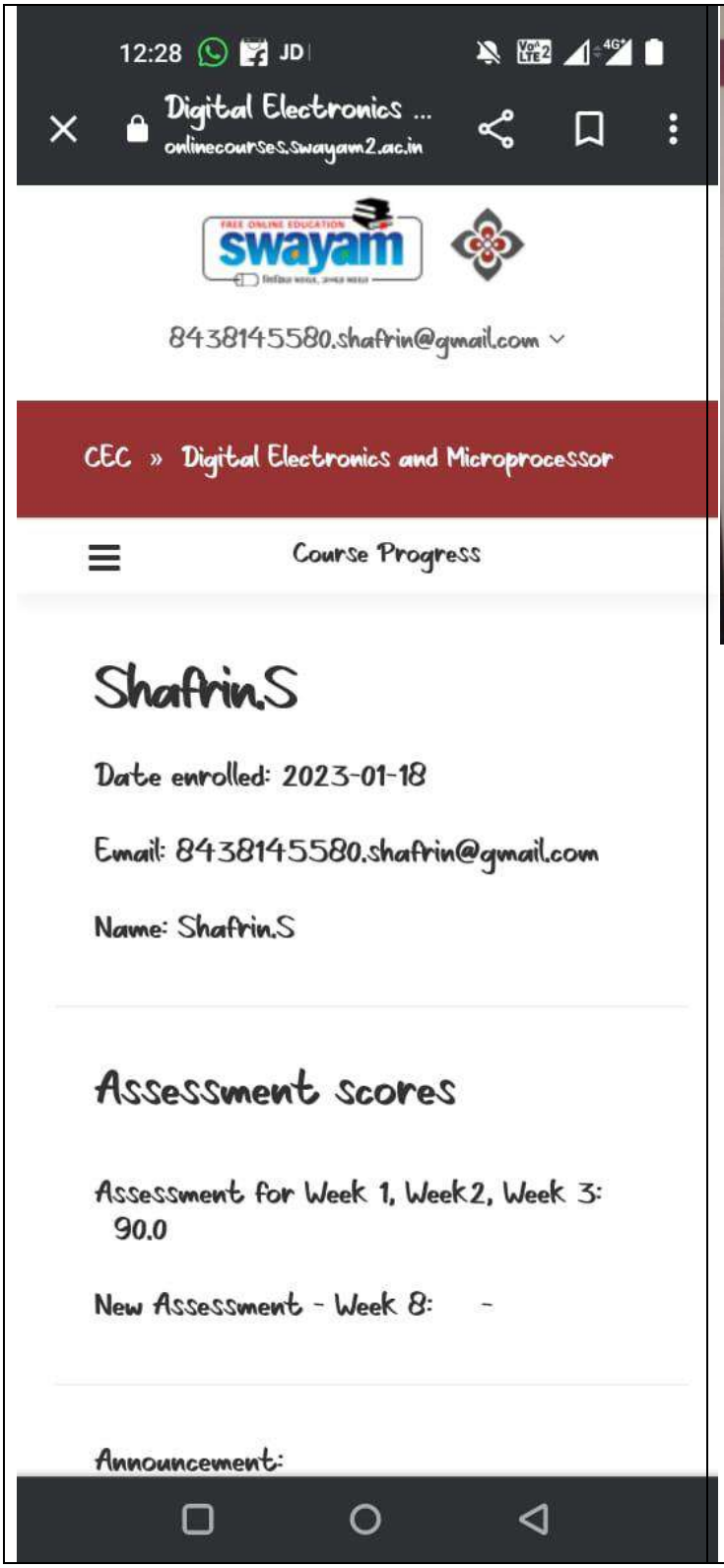
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JD
Digital Electronics ...
onlinecourses.swayam2.ac.in
8438145580.shafrin@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
ShafrinS
Date enrolled: 2023-01-18
Email: 8438145580.shafrin@gmail.com
Name: ShafrinS
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
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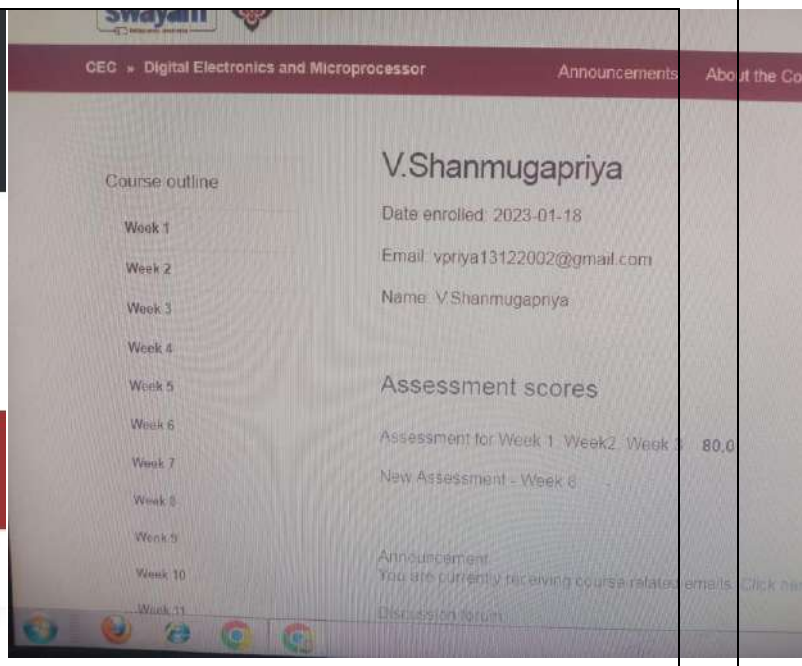
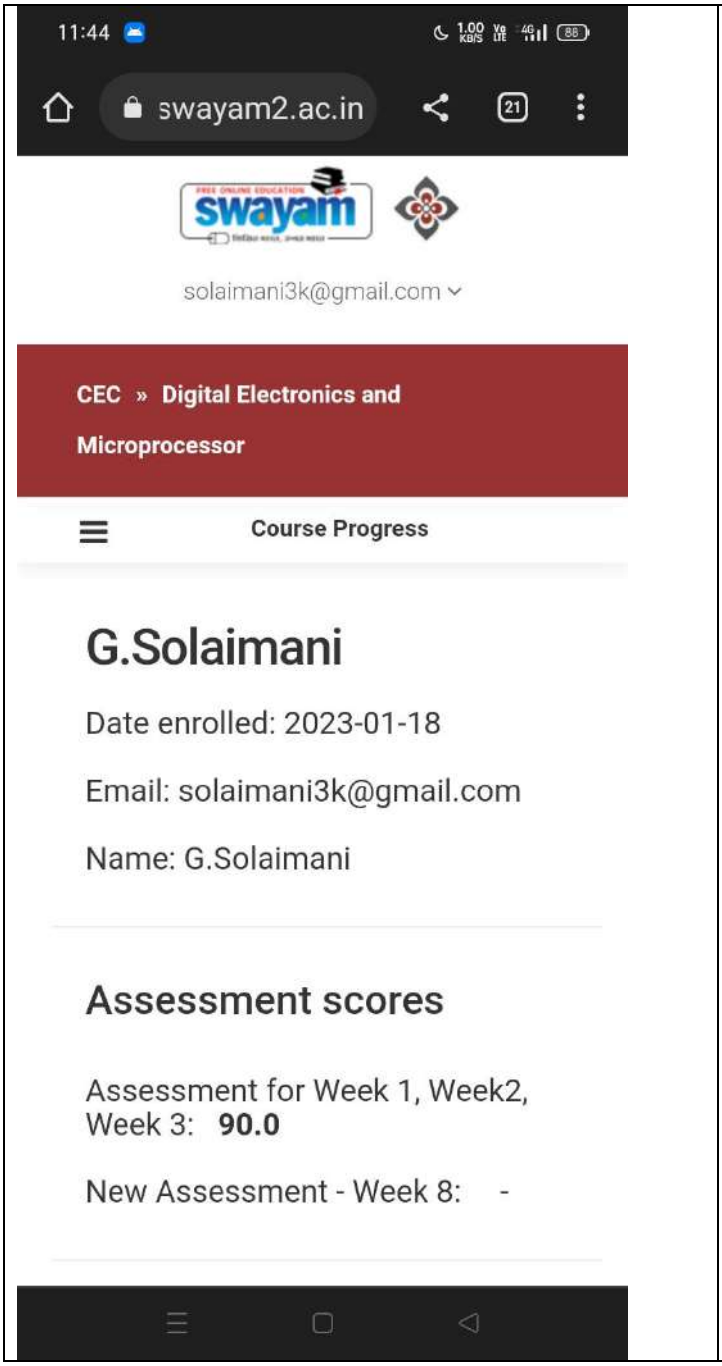

CEC » Digital Electronics and Microprocessor
Announcements
Course outline
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
V.Shanmugapriya
Date enrolled: 2023-01-18
Email: vpriya13122002@gmail.com
Name: V.Shanmugapriya
Assessment scores
Assessment for Week 1, Week2, Week 3: 80.0
New Assessment - Week 8: -
Announcement:
You are currently receiving course related emails.
Discussion forum


11:44
swayam2.ac.in
solaimani3k@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
G.Solaimani
Date enrolled: 2023-01-18
Email: solaimani3k@gmail.com
Name: G.Solaimani
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -

11:51
onlinecourses.swayam2.ac.in
CEC » Digital Electronics and Microprocessor
Course Progress
Suruthi.s
Date enrolled: 2023-02-25
Email: suruthi8303@gmail.com
Name: Suruthi.s
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
Announcement:
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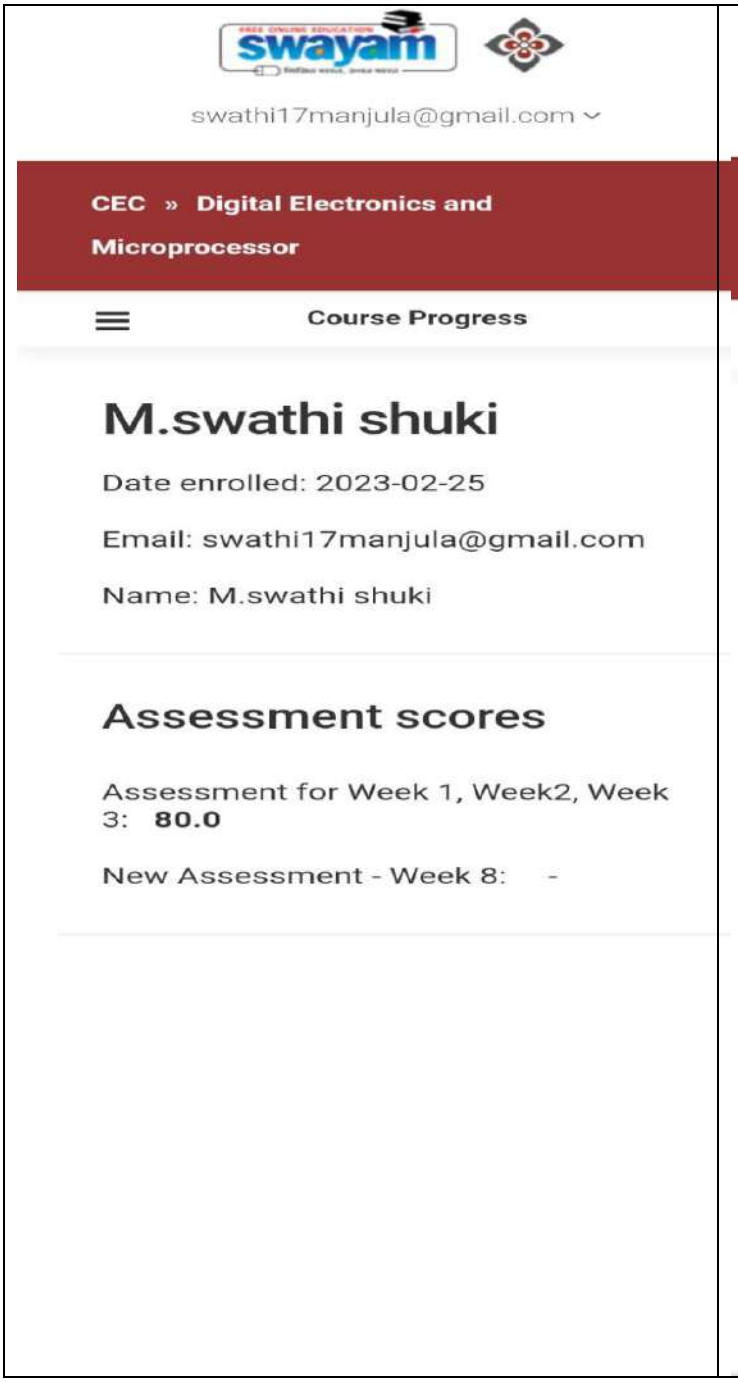

swathi17manjula@gmail.com

CEC » Digital Electronics and Microprocessor

Course Progress

M.swathi shuki

Date enrolled: 2023-02-25

Email: swathi17manjula@gmail.com

Name: M.swathi shuki

Assessment scores

Assessment for Week 1, Week2, Week 3: **80.0**

New Assessment - Week 8: -

9:32 AM

Digital Electronic...
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Course Progress

THENMOZHI.J

Date enrolled: 2023-01-19

Email: thenmozhijayavel2002@gmail.com

Name: THENMOZHI.J

Assessment scores

Assessment for Week 1, Week2, Week 3: **90.0**

New Assessment - Week 8: -

Assignment - Week 10: -

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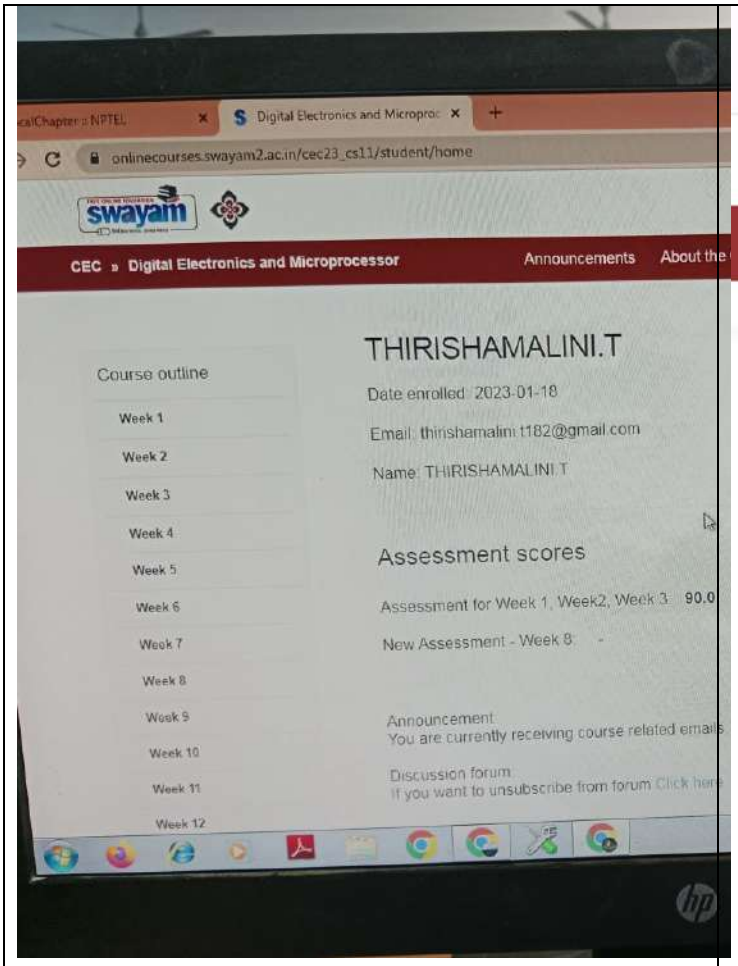
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Announcements
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Course outline
Week 1
Week 2
Week 3
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Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
THIRISHAMALINI.T
Date enrolled: 2023-01-18
Email: thirishamalini.t182@gmail.com
Name: THIRISHAMALINI.T
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
Announcement:
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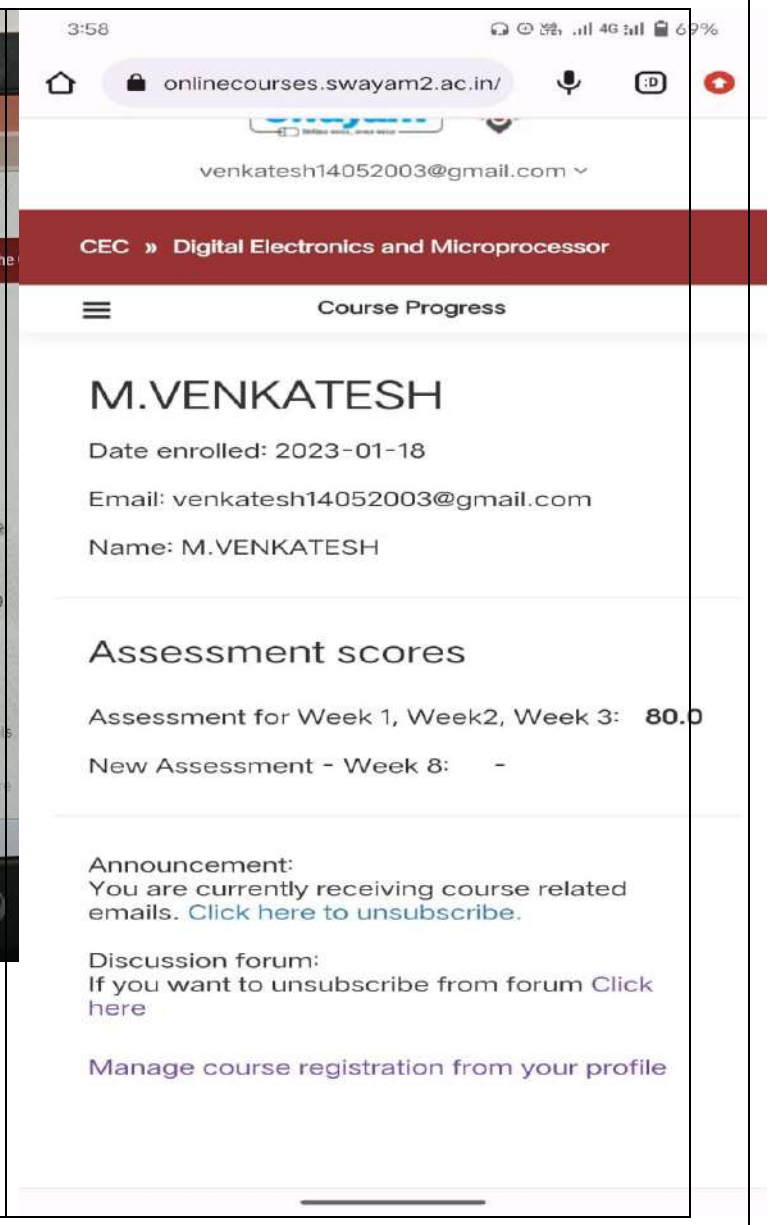
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onlinecourses.swayam2.ac.in/
venkatesh14052003@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
M.VENKATESH
Date enrolled: 2023-01-18
Email: venkatesh14052003@gmail.com
Name: M.VENKATESH
Assessment scores
Assessment for Week 1, Week2, Week 3: 80.0
New Assessment - Week 8: -
Announcement:
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Discussion forum:
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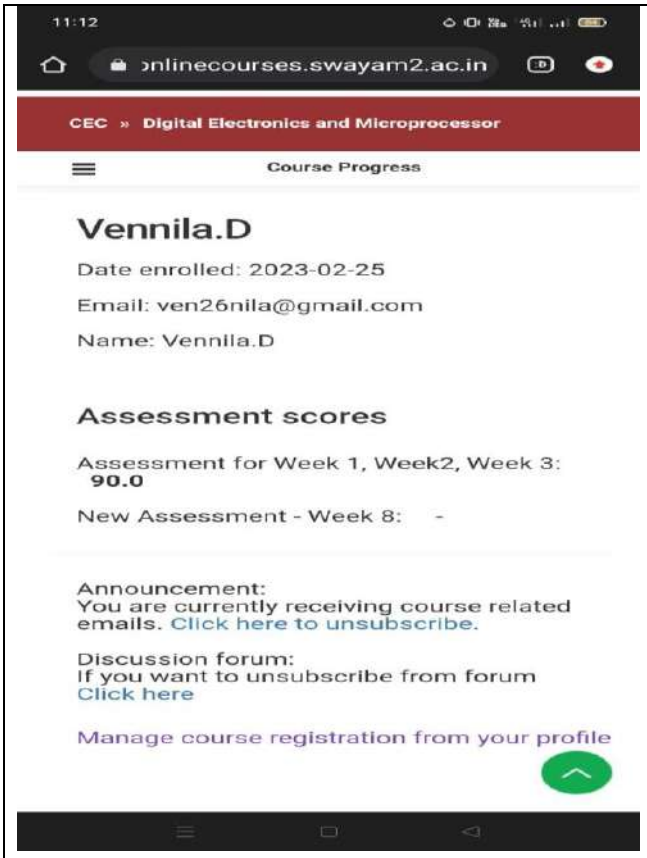
11:12
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CEC » Digital Electronics and Microprocessor
Course Progress
Vennila.D
Date enrolled: 2023-02-25
Email: ven26nila@gmail.com
Name: Vennila.D
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
Announcement:
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Discussion forum:
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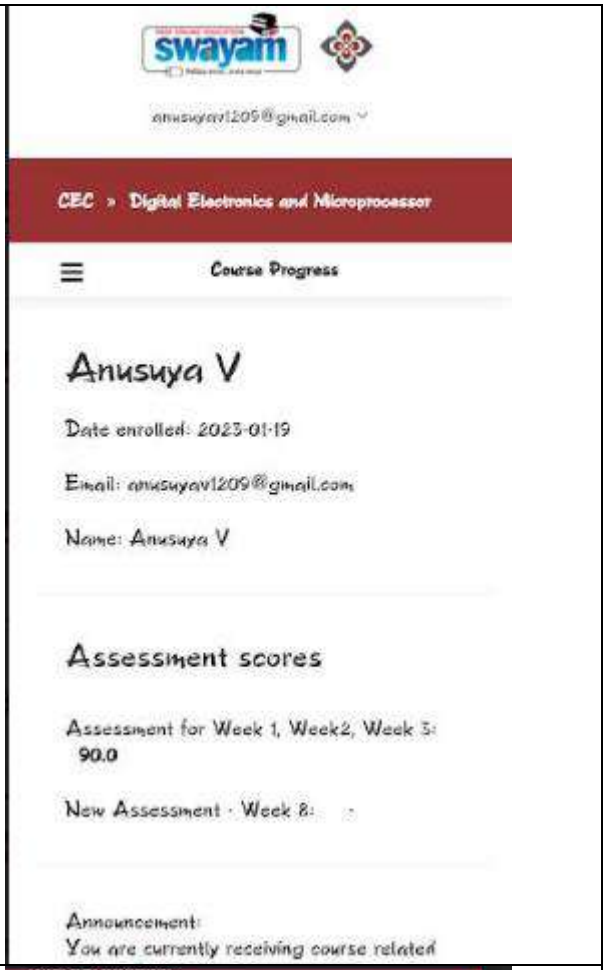
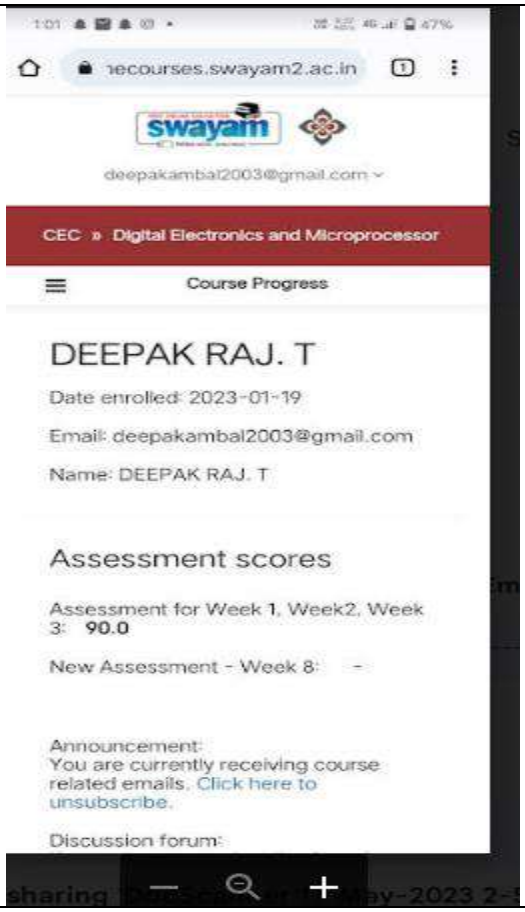

swayam
anusuyav1209@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
Anusuya V
Date enrolled: 2023-01-19
Email: anusuyav1209@gmail.com
Name: Anusuya V
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
Announcement:
You are currently receiving course related


swayam
deepakambal2003@gmail.com
CEC » Digital Electronics and Microprocessor
Course Progress
DEEPAK RAJ. T
Date enrolled: 2023-01-19
Email: deepakambal2003@gmail.com
Name: DEEPAK RAJ. T
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
Announcement:
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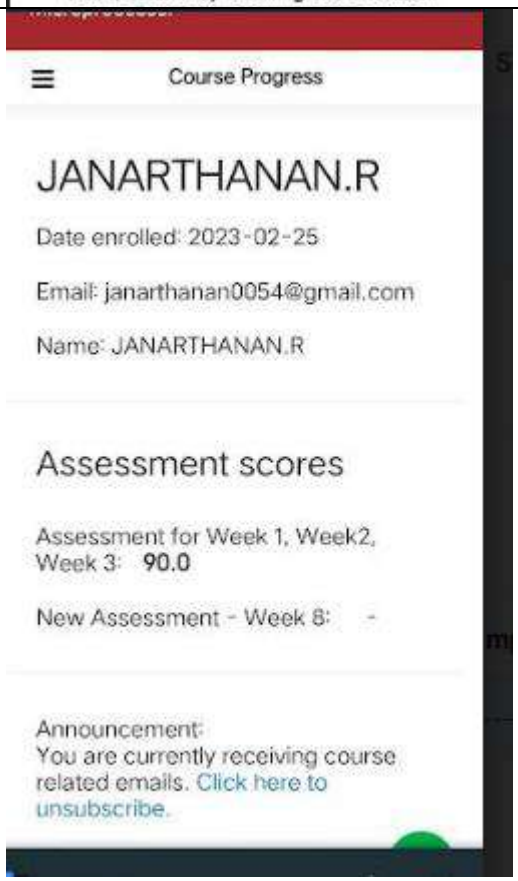
Discussion forum:


Course Progress
JANARTHANAN.R
Date enrolled: 2023-02-25
Email: janarthanan0054@gmail.com
Name: JANARTHANAN.R
Assessment scores
Assessment for Week 1, Week2, Week 3: 90.0
New Assessment - Week 8: -
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEMESTER)

ABOUT THE SWAYAM / NPTEL ONLINE COURSE:

As per the Instruction given by our HOD, it was planned to conduct SWAYAM / NPTEL online course for **Final year ECE** students in 2022-2023 Even semester.

The SWAYAM / NPTEL online course list was taken from the SWAYAM portal, and it was circulated to the students. Then they were asked to prefer any one course with four, six or twelve week duration.

Among the 39 students 34 students have enrolled in Introduction to programming in C course and 08 students have enrolled in Introduction to Machine learning.

COURSE 1: Introduction to programming in C

Course Start Date: 23rd Jan 2023 and the Course End Date: 17th March 2023. (8 Weeks)

COURSE 2: Introduction to Machine learning

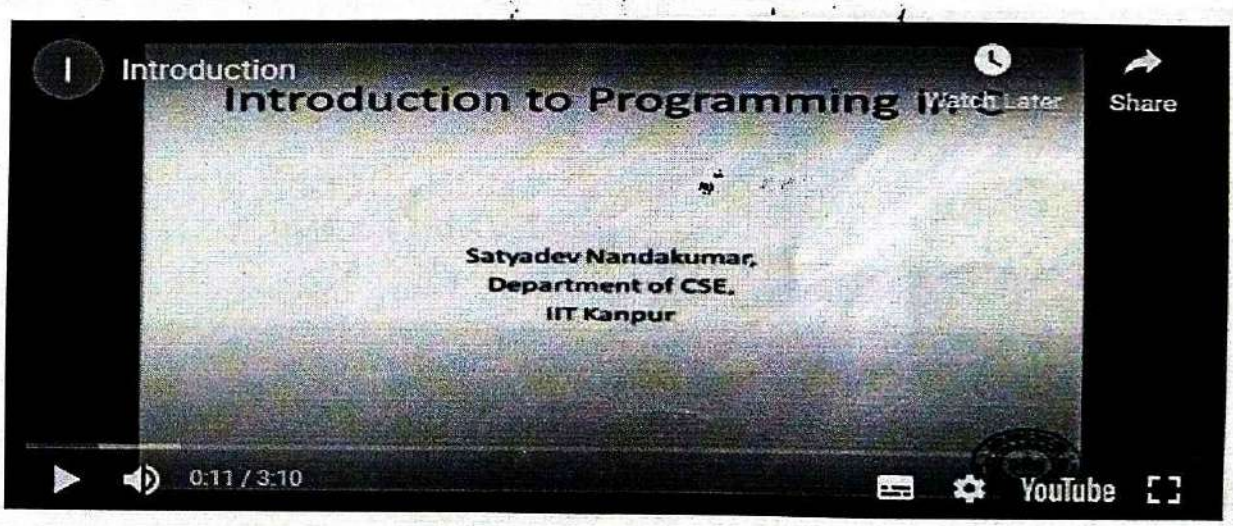
Course Start Date: 23rd Jan 2023 and the Course End Date: 17th March 2023. (8 Weeks)

COURSE NAME: 1. INTRODUCTION TO PROGRAMMING IN C

Introduction to programming in C

By Prof. Satyadev Nandakumar | IIT Kanpur

Go to course Learners enrolled: 45313



This course was handled by **Professor Satyadev Nandakumar, Department of CSE,** from Indian Institute of Technology (IIT) Kanpur, India.

The course starting date was 23rd Jan 2023.

The course ending date was 17th March 2023.

The duration of this course was 8 weeks.

The Course layout was scheduled as follows.

- **Week 1 :** Introduction. Straight-Line Code. Variables, Operators, Expressions and Conditionals.
- **Week 2** : Loops
- **Week 3** : Functions
- **Week 4** : One-Dimensional Arrays and Pointers
- **Week 5** : Recursion
- **Week 6 :** Multi-dimensional Arrays, Linked Lists.
- **Week 7** : Operating on Files
- **Week 8** : Organizing C projects, working with multiple source directories, makefiles.

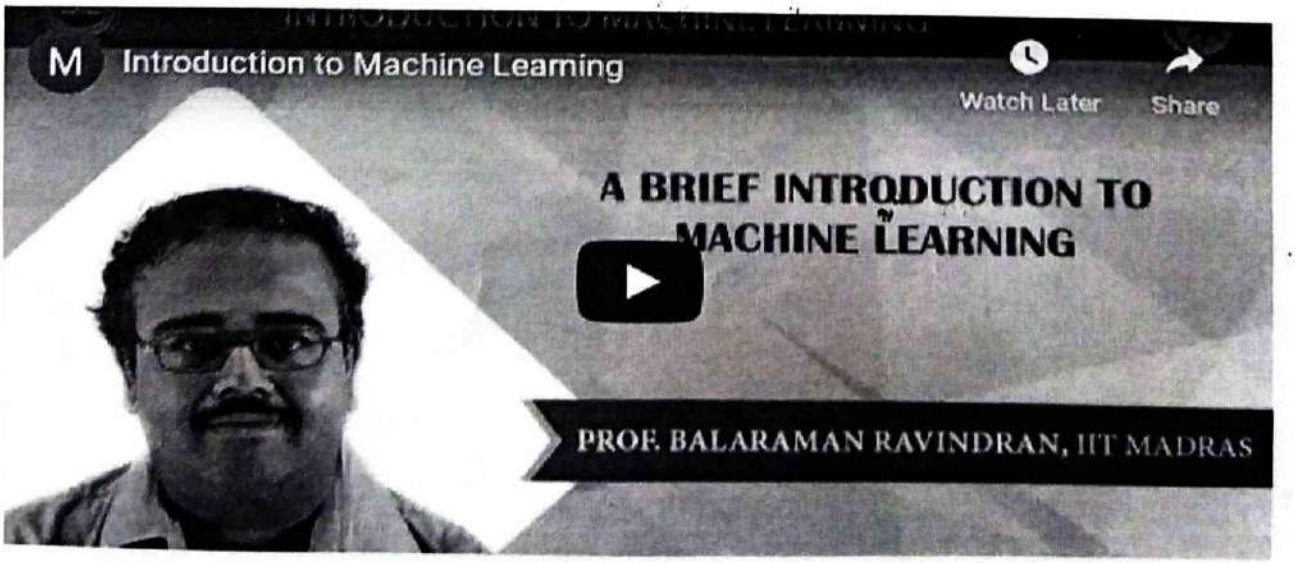
COURSE NAME: 2. INTRODUCTION TO MACHINE LEARNING

swayam

Introduction to Machine Learning

By Prof. Balaraman Ravindran | IIT Madras

Go to course Learners enrolled: 33946



This course was handled by **Professor Balaraman Ravindran** from Indian Institute of Technology (IIT) Madras, India.

The course starting date was 23rd Jan 2023.

The course ending date was 17th March 2023.

The duration of this course was 8 weeks.

The Course layout was scheduled as follows.

Week 1: Basics of Linear Algebra, Probability, Optimization

Week 2: Introduction to Supervised Learning - Regression; Topics - Linear Regression; Ridge Regression; LASSO

Week 3: Supervised Learning - Classification; Topics: K-NN, Decision Tree.

Week 4: Supervised Learning - Classification; Topics: Naive Bayes.

Week 5: Supervised Learning - Logistic Regression ,Perceptron.

Week 6: Supervised Learning - Support Vector Machines

Week 7: Supervised Learning - Ensemble Methods

Week 8: Unsupervised Learning - K-means Clustering, PCA

OUTCOME:

Students gained more knowledge on C Programming. They can able to write the programs on their own.

Students studied machine learning course have acquired knowledge about the basics of supervised learning.

Out of 39 students, 34 have enrolled and completed the course Introduction to programming in c.

09 students have enrolled and completed the course Introduction to Machine learning.

The students course progress were attached below.

20/7/23

IQAC member

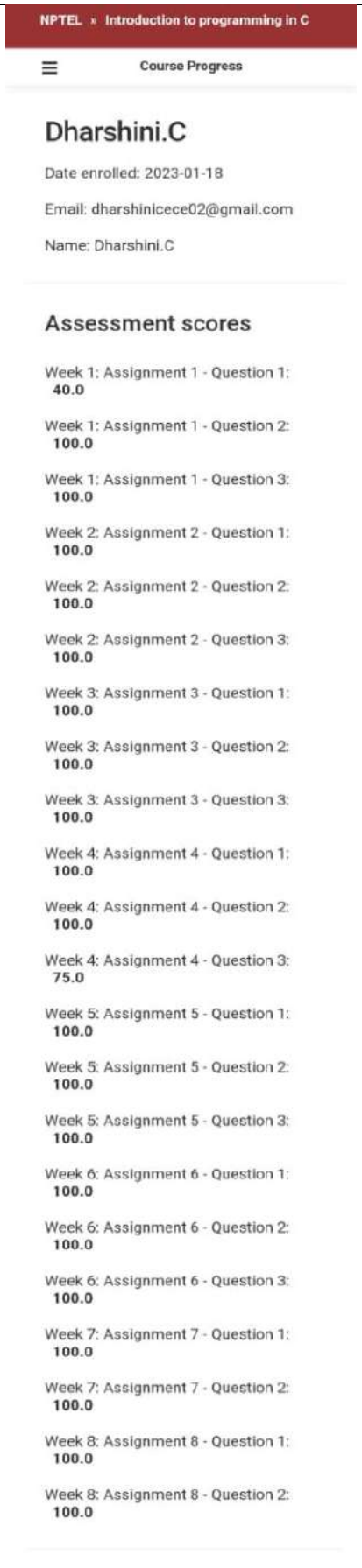
25/7/2023

HOD / ECE

25/7/2023

PRNCIPAL

COURSE PROGRESS FOR INTRODUCTION TO PROGRAMMING IN C



NPTEL » Introduction to programming in C

Course Progress

Dharshini.C

Date enrolled: 2023-01-18

Email: dharshinicece02@gmail.com

Name: Dharshini.C

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 100.0

Week 1: Assignment 1 - Question 3: 100.0

Week 2: Assignment 2 - Question 1: 100.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 100.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: 100.0

Week 6: Assignment 6 - Question 2: 100.0

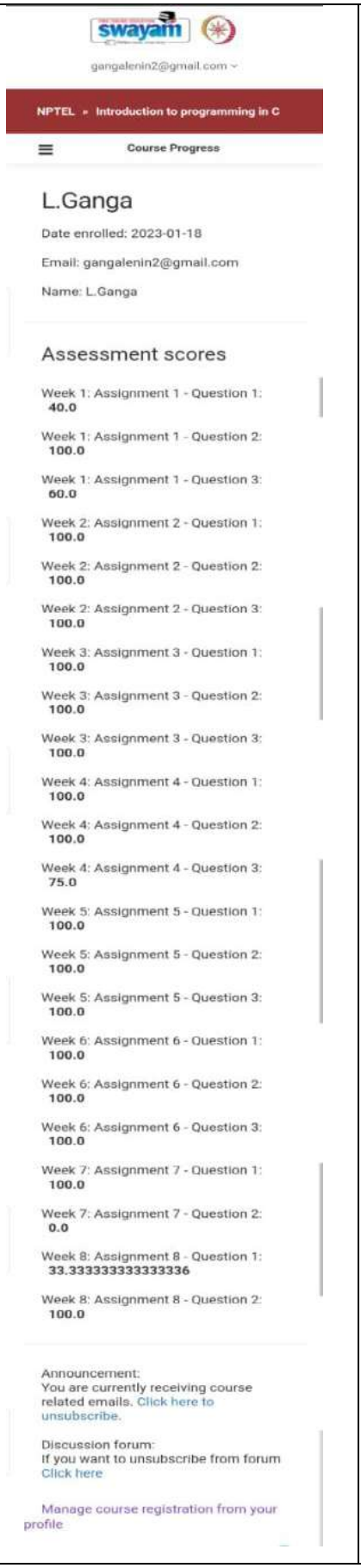
Week 6: Assignment 6 - Question 3: 100.0

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 100.0

Week 8: Assignment 8 - Question 1: 100.0

Week 8: Assignment 8 - Question 2: 100.0



gangalenin2@gmail.com

NPTEL » Introduction to programming in C

Course Progress

L.Ganga

Date enrolled: 2023-01-18

Email: gangalenin2@gmail.com

Name: L.Ganga

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 100.0

Week 1: Assignment 1 - Question 3: 60.0

Week 2: Assignment 2 - Question 1: 100.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 100.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: 100.0

Week 6: Assignment 6 - Question 2: 100.0

Week 6: Assignment 6 - Question 3: 100.0

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 0.0

Week 8: Assignment 8 - Question 1: 33.333333333333336

Week 8: Assignment 8 - Question 2: 100.0

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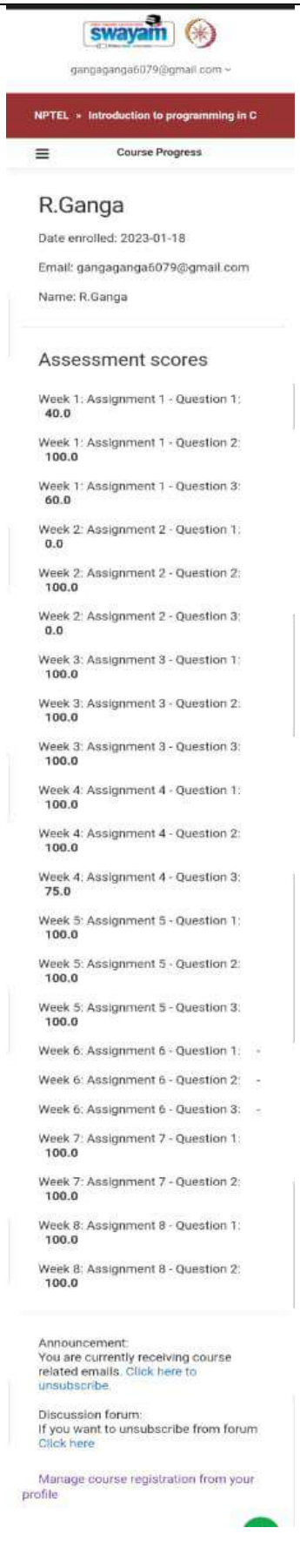

gangaganga6079@gmail.com

NPTEL » Introduction to programming in C

Course Progress

R.Ganga

Date enrolled: 2023-01-18

Email: gangaganga6079@gmail.com

Name: R.Ganga

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 100.0

Week 1: Assignment 1 - Question 3: 60.0

Week 2: Assignment 2 - Question 1: 0.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 0.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: -

Week 6: Assignment 6 - Question 2: -

Week 6: Assignment 6 - Question 3: -

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 100.0

Week 8: Assignment 8 - Question 1: 100.0

Week 8: Assignment 8 - Question 2: 100.0

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Course Progress

K.Ishwarya

Date enrolled: 2023-01-18

Email: ishwaryaishwarya952@gmail.com

Name: K.Ishwarya

Assessment scores

Week 1: Assignment 1 - Question 1: **40.0**

Week 1: Assignment 1 - Question 2: **100.0**

Week 1: Assignment 1 - Question 3: **60.0**

Week 2: Assignment 2 - Question 1: **100.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **0.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **100.0**

Week 4: Assignment 4 - Question 1: **100.0**

Week 4: Assignment 4 - Question 2: **100.0**

Week 4: Assignment 4 - Question 3: **75.0**

Week 5: Assignment 5 - Question 1: **100.0**

Week 5: Assignment 5 - Question 2: **100.0**

Week 5: Assignment 5 - Question 3: **100.0**

Week 6: Assignment 6 - Question 1: -

Week 6: Assignment 6 - Question 2: -

Week 6: Assignment 6 - Question 3: -

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **100.0**

Week 8: Assignment 8 - Question 1: **33.333333333333336**

Week 8: Assignment 8 - Question 2: **100.0**

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R.Jothika

Date enrolled: 2023-01-18

Email: jothikar462002@gmail.com

Name: R.Jothika

Assessment scores

Week 1: Assignment 1 - Question 1: **40.0**

Week 1: Assignment 1 - Question 2: **100.0**

Week 1: Assignment 1 - Question 3: **100.0**

Week 2: Assignment 2 - Question 1: **60.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **100.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **25.0**

Week 4: Assignment 4 - Question 1: **100.0**

Week 4: Assignment 4 - Question 2: **100.0**

Week 4: Assignment 4 - Question 3: **75.0**

Week 5: Assignment 5 - Question 1: **100.0**

Week 5: Assignment 5 - Question 2: **100.0**

Week 5: Assignment 5 - Question 3: **100.0**

Week 6: Assignment 6 - Question 1: **100.0**

Week 6: Assignment 6 - Question 2: **100.0**

Week 6: Assignment 6 - Question 3: **100.0**

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **100.0**

Week 8: Assignment 8 - Question 1: **100.0**

Week 8: Assignment 8 - Question 2: **0.0**

kabishena288@gmail.com

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Course Progress

Kabishena

Date enrolled: 2023-01-18

Email: kabishena288@gmail.com

Name: Kabishena

Assessment scores

Week 1: Assignment 1 - Question 1: -

Week 1: Assignment 1 - Question 2: **0.0**

Week 1: Assignment 1 - Question 3: **100.0**

Week 2: Assignment 2 - Question 1: **100.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **100.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **100.0**

Week 4: Assignment 4 - Question 1: **100.0**

Week 4: Assignment 4 - Question 2: **100.0**

Week 4: Assignment 4 - Question 3: **75.0**

Week 5: Assignment 5 - Question 1: **100.0**

Week 5: Assignment 5 - Question 2: **100.0**

Week 5: Assignment 5 - Question 3: **100.0**

Week 6: Assignment 6 - Question 1: **100.0**

Week 6: Assignment 6 - Question 2: **100.0**

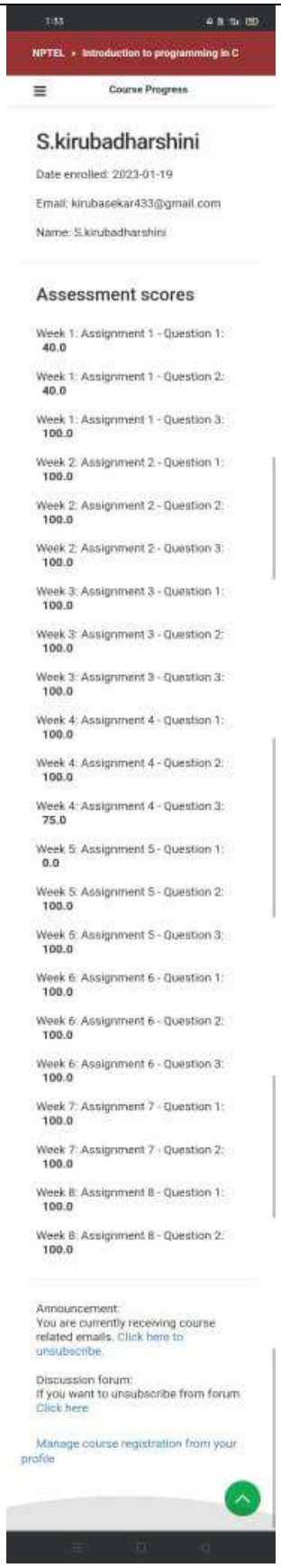
Week 6: Assignment 6 - Question 3: **100.0**

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **100.0**

Week 8: Assignment 8 - Question 1: **100.0**

Week 8: Assignment 8 - Question 2: **100.0**



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Course Progress

S.kirubadharshini

Date enrolled: 2023-01-19

Email: kirubasekar433@gmail.com

Name: S.kirubadharshini

Assessment scores

Week 1: Assignment 1 - Question 1: **40.0**

Week 1: Assignment 1 - Question 2: **40.0**

Week 1: Assignment 1 - Question 3: **100.0**

Week 2: Assignment 2 - Question 1: **100.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **100.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **100.0**

Week 4: Assignment 4 - Question 1: **100.0**

Week 4: Assignment 4 - Question 2: **100.0**

Week 4: Assignment 4 - Question 3: **75.0**

Week 5: Assignment 5 - Question 1: **0.0**

Week 5: Assignment 5 - Question 2: **100.0**

Week 5: Assignment 5 - Question 3: **100.0**

Week 6: Assignment 6 - Question 1: **100.0**

Week 6: Assignment 6 - Question 2: **100.0**

Week 6: Assignment 6 - Question 3: **100.0**

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **100.0**

Week 8: Assignment 8 - Question 1: **100.0**

Week 8: Assignment 8 - Question 2: **100.0**

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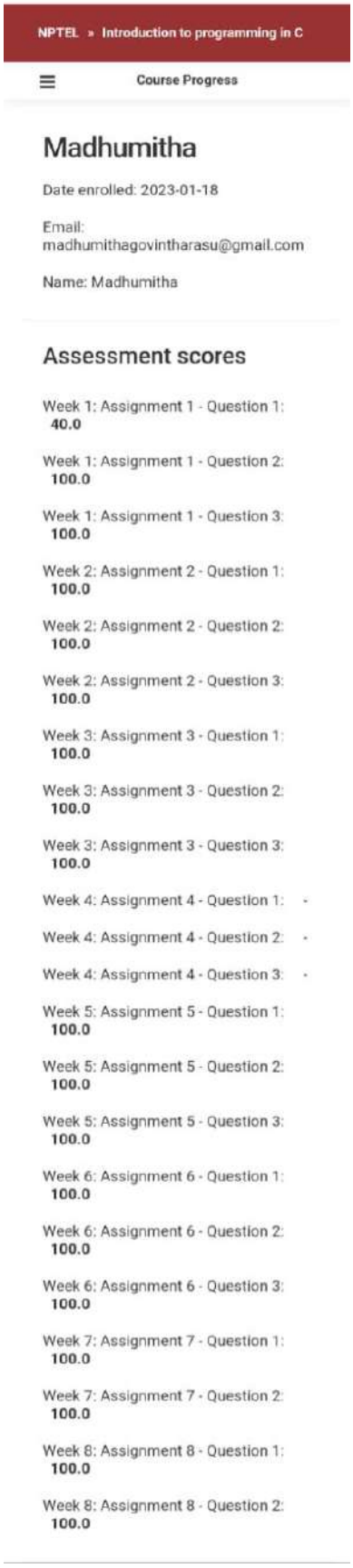

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Course Progress

Madhumitha

Date enrolled: 2023-01-18

Email: madhumithagovintharasu@gmail.com

Name: Madhumitha

Assessment scores

Week 1: Assignment 1 - Question 1: **40.0**

Week 1: Assignment 1 - Question 2: **100.0**

Week 1: Assignment 1 - Question 3: **100.0**

Week 2: Assignment 2 - Question 1: **100.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **100.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **100.0**

Week 4: Assignment 4 - Question 1: -

Week 4: Assignment 4 - Question 2: -

Week 4: Assignment 4 - Question 3: -

Week 5: Assignment 5 - Question 1: **100.0**

Week 5: Assignment 5 - Question 2: **100.0**

Week 5: Assignment 5 - Question 3: **100.0**

Week 6: Assignment 6 - Question 1: **100.0**

Week 6: Assignment 6 - Question 2: **100.0**

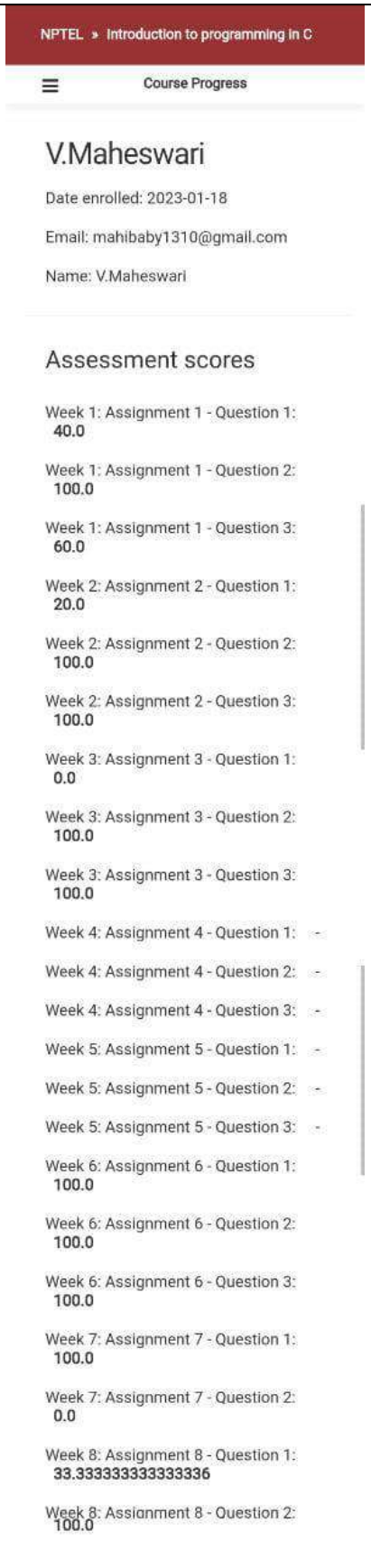
Week 6: Assignment 6 - Question 3: **100.0**

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **100.0**

Week 8: Assignment 8 - Question 1: **100.0**

Week 8: Assignment 8 - Question 2: **100.0**



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Course Progress

V.Maheswari

Date enrolled: 2023-01-18

Email: mahibaby1310@gmail.com

Name: V.Maheswari

Assessment scores

Week 1: Assignment 1 - Question 1: **40.0**

Week 1: Assignment 1 - Question 2: **100.0**

Week 1: Assignment 1 - Question 3: **60.0**

Week 2: Assignment 2 - Question 1: **20.0**

Week 2: Assignment 2 - Question 2: **100.0**

Week 2: Assignment 2 - Question 3: **100.0**

Week 3: Assignment 3 - Question 1: **0.0**

Week 3: Assignment 3 - Question 2: **100.0**

Week 3: Assignment 3 - Question 3: **100.0**

Week 4: Assignment 4 - Question 1: -

Week 4: Assignment 4 - Question 2: -

Week 4: Assignment 4 - Question 3: -

Week 5: Assignment 5 - Question 1: -

Week 5: Assignment 5 - Question 2: -

Week 5: Assignment 5 - Question 3: -

Week 6: Assignment 6 - Question 1: **100.0**

Week 6: Assignment 6 - Question 2: **100.0**

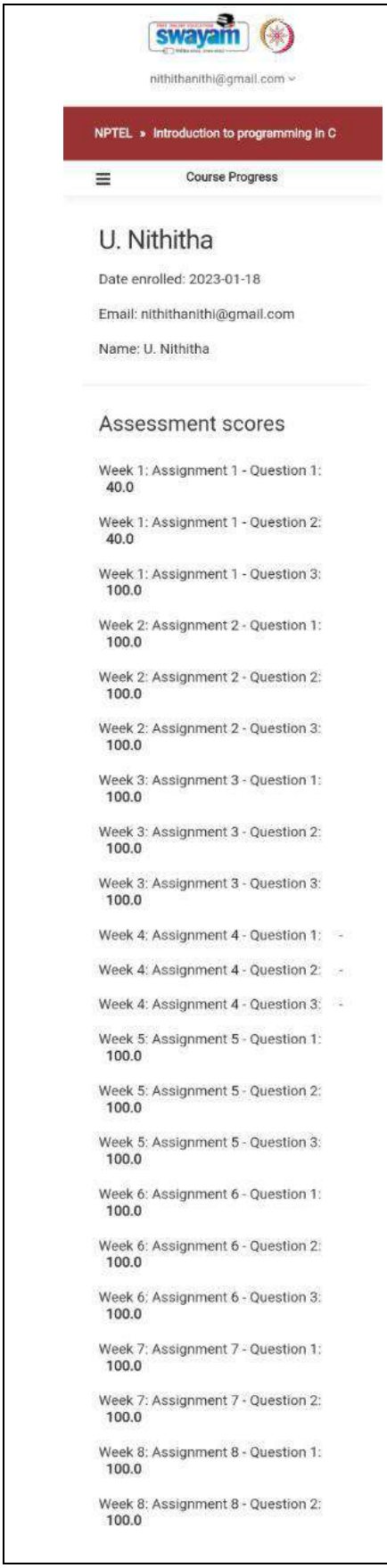
Week 6: Assignment 6 - Question 3: **100.0**

Week 7: Assignment 7 - Question 1: **100.0**

Week 7: Assignment 7 - Question 2: **0.0**

Week 8: Assignment 8 - Question 1: **33.333333333333336**

Week 8: Assignment 8 - Question 2: **100.0**



nithithanithi@gmail.com

NPTEL » Introduction to programming in C

Course Progress

U. Nithitha

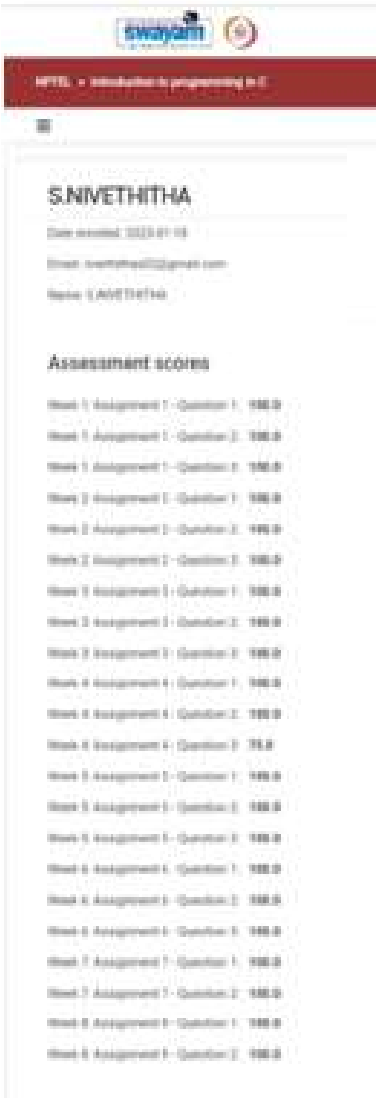
Date enrolled: 2023-01-18

Email: nithithanithi@gmail.com

Name: U. Nithitha

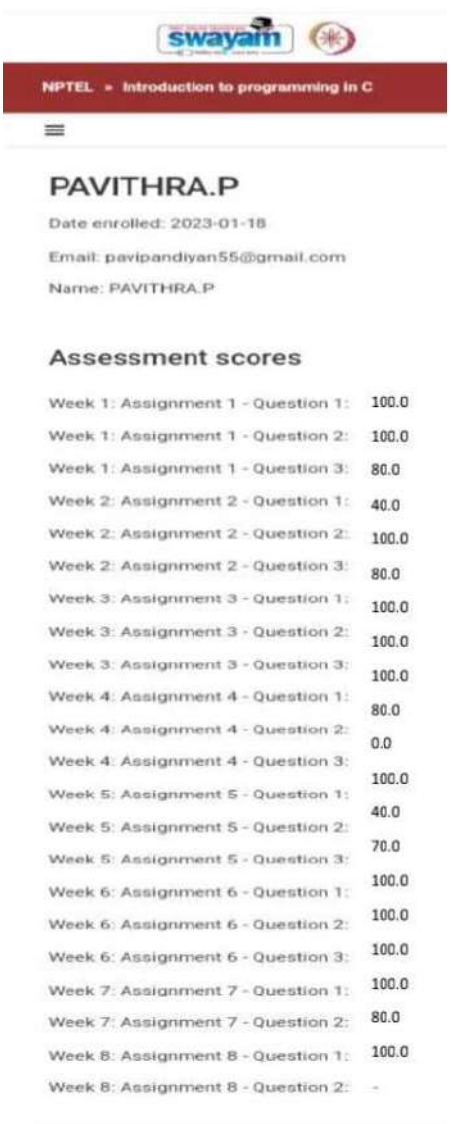
Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	40.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	-
Week 4: Assignment 4 - Question 3:	-
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



S.NIVETHITHA

Assessment scores



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PAVITHRA.P

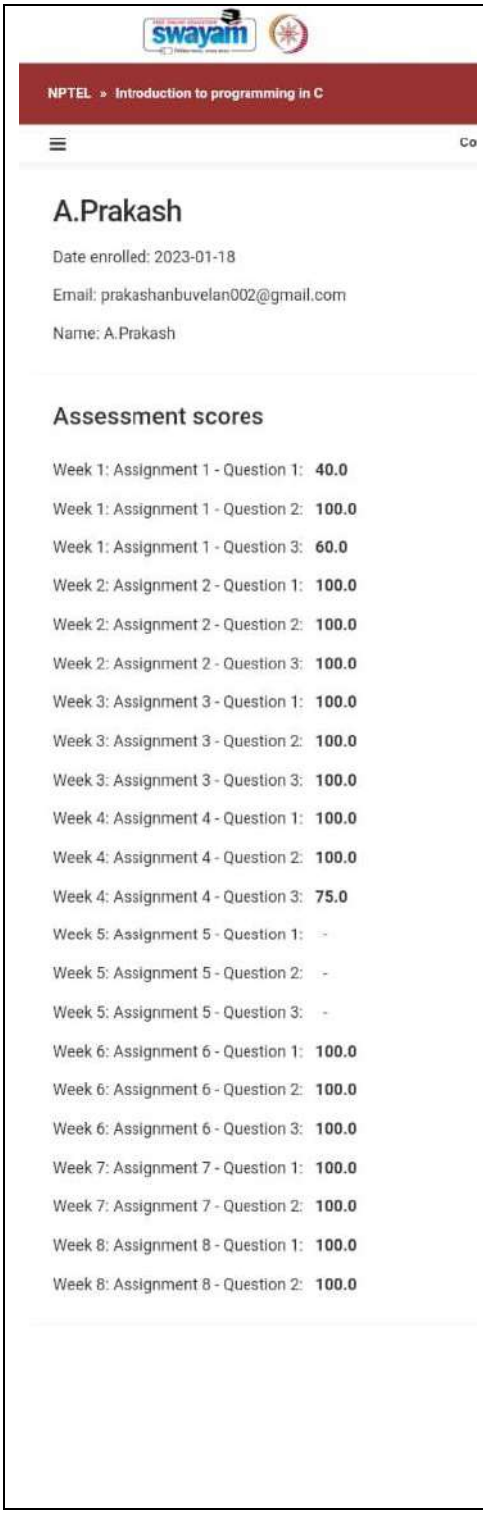
Date enrolled: 2023-01-18

Email: pavipandiyan55@gmail.com

Name: PAVITHRA.P

Assessment scores

Week 1: Assignment 1 - Question 1:	100.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	80.0
Week 2: Assignment 2 - Question 1:	40.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	80.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	80.0
Week 4: Assignment 4 - Question 2:	0.0
Week 4: Assignment 4 - Question 3:	100.0
Week 5: Assignment 5 - Question 1:	40.0
Week 5: Assignment 5 - Question 2:	70.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	80.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	-
Week 8: Assignment 8 - Question 2:	



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Co

A.Prakash

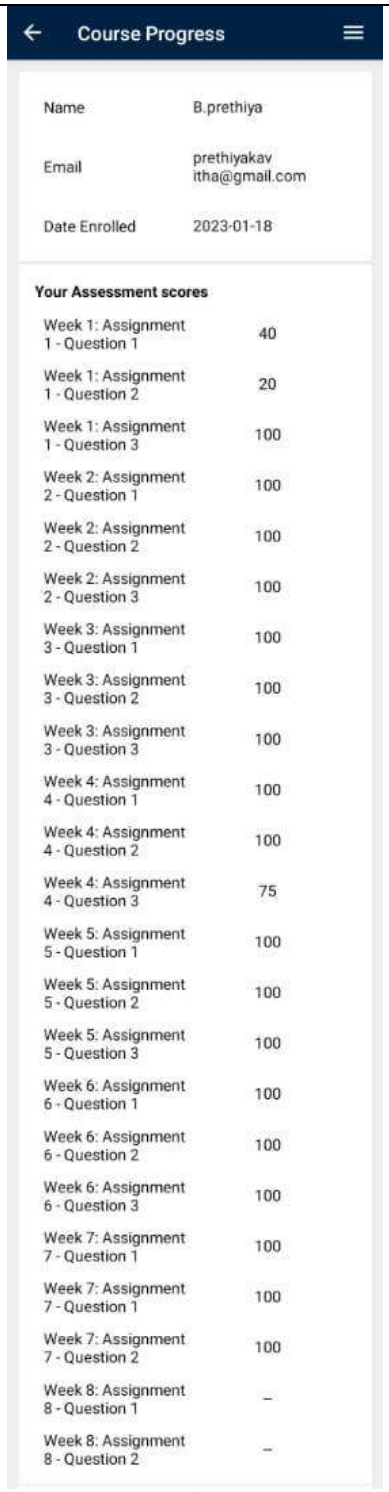
Date enrolled: 2023-01-18

Email: prakashanbuvelan002@gmail.com

Name: A.Prakash

Assessment scores

Week 1: Assignment 1 - Question 1:	**40.0**
Week 1: Assignment 1 - Question 2:	**100.0**
Week 1: Assignment 1 - Question 3:	**60.0**
Week 2: Assignment 2 - Question 1:	**100.0**
Week 2: Assignment 2 - Question 2:	**100.0**
Week 2: Assignment 2 - Question 3:	**100.0**
Week 3: Assignment 3 - Question 1:	**100.0**
Week 3: Assignment 3 - Question 2:	**100.0**
Week 3: Assignment 3 - Question 3:	**100.0**
Week 4: Assignment 4 - Question 1:	**100.0**
Week 4: Assignment 4 - Question 2:	**100.0**
Week 4: Assignment 4 - Question 3:	**75.0**
Week 5: Assignment 5 - Question 1:	-
Week 5: Assignment 5 - Question 2:	-
Week 5: Assignment 5 - Question 3:	-
Week 6: Assignment 6 - Question 1:	**100.0**
Week 6: Assignment 6 - Question 2:	**100.0**
Week 6: Assignment 6 - Question 3:	**100.0**
Week 7: Assignment 7 - Question 1:	**100.0**
Week 7: Assignment 7 - Question 2:	**100.0**
Week 8: Assignment 8 - Question 1:	**100.0**
Week 8: Assignment 8 - Question 2:	**100.0**

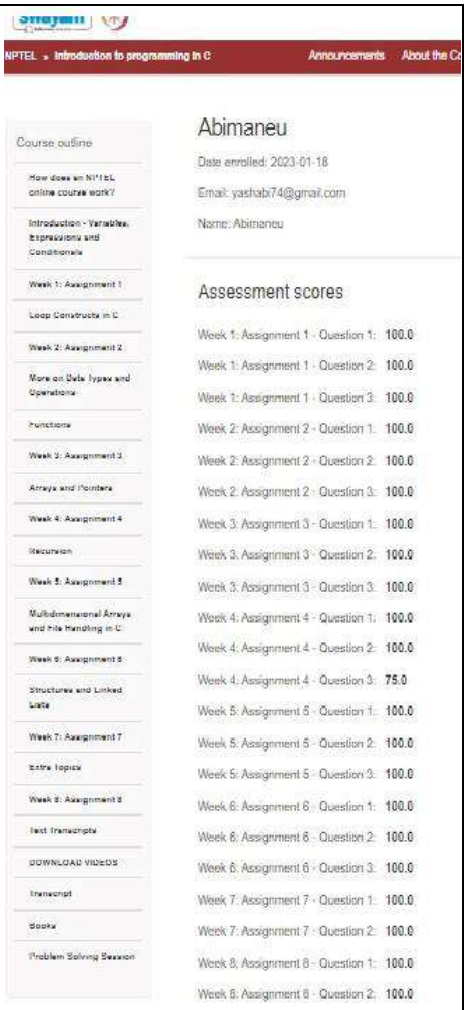


Course Progress

Name	B.prethiya
Email	prethiyakavitha@gmail.com
Date Enrolled	2023-01-18

Your Assessment scores

Week 1: Assignment 1 - Question 1	40
Week 1: Assignment 1 - Question 2	20
Week 1: Assignment 1 - Question 3	100
Week 2: Assignment 2 - Question 1	100
Week 2: Assignment 2 - Question 2	100
Week 2: Assignment 2 - Question 3	100
Week 3: Assignment 3 - Question 1	100
Week 3: Assignment 3 - Question 2	100
Week 3: Assignment 3 - Question 3	100
Week 4: Assignment 4 - Question 1	100
Week 4: Assignment 4 - Question 2	100
Week 4: Assignment 4 - Question 3	75
Week 5: Assignment 5 - Question 1	100
Week 5: Assignment 5 - Question 2	100
Week 5: Assignment 5 - Question 3	100
Week 6: Assignment 6 - Question 1	100
Week 6: Assignment 6 - Question 2	100
Week 6: Assignment 6 - Question 3	100
Week 7: Assignment 7 - Question 1	100
Week 7: Assignment 7 - Question 1	100
Week 7: Assignment 7 - Question 2	100
Week 8: Assignment 8 - Question 1	–
Week 8: Assignment 8 - Question 2	–



NPTEL » Introduction to programming in C

Announcements About the C

Course outline

- How does an NPTEL online course work?
- Introduction - Variables, Expressions and Conditionals
- Week 1: Assignment 1
- Loop Constructs in C
- Week 2: Assignment 2
- More on Data Types and Operations
- Functions
- Week 3: Assignment 3
- Arrays and Pointers
- Week 4: Assignment 4
- Recursion
- Week 5: Assignment 5
- Multidimensional Arrays and File Handling in C
- Week 6: Assignment 6
- Structures and Linked Lists
- Week 7: Assignment 7
- Extra Topics
- Week 8: Assignment 8
- Text transcripts
- DOWNLOAD VIDEOS
- Transcript
- Books
- Problem Solving Session

Abimaneu

Date enrolled: 2023-01-18

Email: yashabi74@gmail.com

Name: Abimaneu

Assessment scores

Week 1: Assignment 1 - Question 1:	**100.0**
Week 1: Assignment 1 - Question 2:	**100.0**
Week 1: Assignment 1 - Question 3:	**100.0**
Week 2: Assignment 2 - Question 1:	**100.0**
Week 2: Assignment 2 - Question 2:	**100.0**
Week 2: Assignment 2 - Question 3:	**100.0**
Week 3: Assignment 3 - Question 1:	**100.0**
Week 3: Assignment 3 - Question 2:	**100.0**
Week 3: Assignment 3 - Question 3:	**100.0**
Week 4: Assignment 4 - Question 1:	**100.0**
Week 4: Assignment 4 - Question 2:	**100.0**
Week 4: Assignment 4 - Question 3:	**75.0**
Week 5: Assignment 5 - Question 1:	**100.0**
Week 5: Assignment 5 - Question 2:	**100.0**
Week 5: Assignment 5 - Question 3:	**100.0**
Week 6: Assignment 6 - Question 1:	**100.0**
Week 6: Assignment 6 - Question 2:	**100.0**
Week 6: Assignment 6 - Question 3:	**100.0**
Week 7: Assignment 7 - Question 1:	**100.0**
Week 7: Assignment 7 - Question 2:	**100.0**
Week 8: Assignment 8 - Question 1:	**100.0**
Week 8: Assignment 8 - Question 2:	**100.0**

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K. Renuka.

Date enrolled: 2023-01-18

Email: renukaece275@gmail.com

Name: K. Renuka.

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0

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K.saraswathi

Date enrolled: 2023-01-18

Email: kdsaras005@gmail.com

Name: K.saraswathi

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0

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S. RAMANA BHARATHI

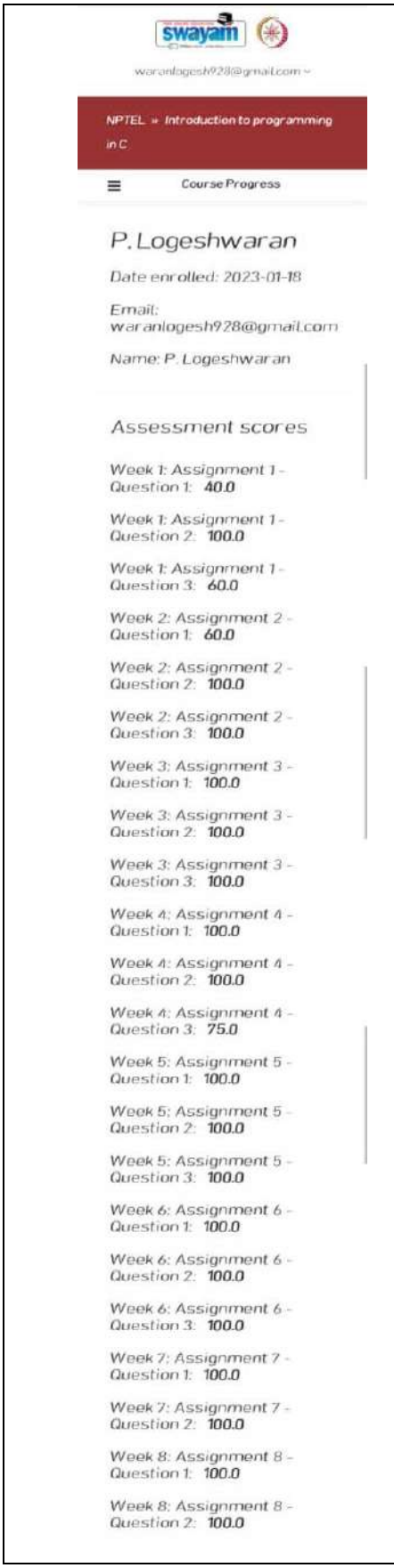
Date enrolled: 2023-04-18

Email: ramanabharathi5[illegible]@gmail.com

Name: S. RAMANA BHARATHI

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	80.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	-
Week 4: Assignment 4 - Question 3:	-
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



waranlogesh928@gmail.com

NPTEL » Introduction to programming in C

Course Progress

P. Logeshwaran

Date enrolled: 2023-01-18

Email: waranlogesh928@gmail.com

Name: P. Logeshwaran

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 100.0

Week 1: Assignment 1 - Question 3: 60.0

Week 2: Assignment 2 - Question 1: 60.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 100.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: 100.0

Week 6: Assignment 6 - Question 2: 100.0

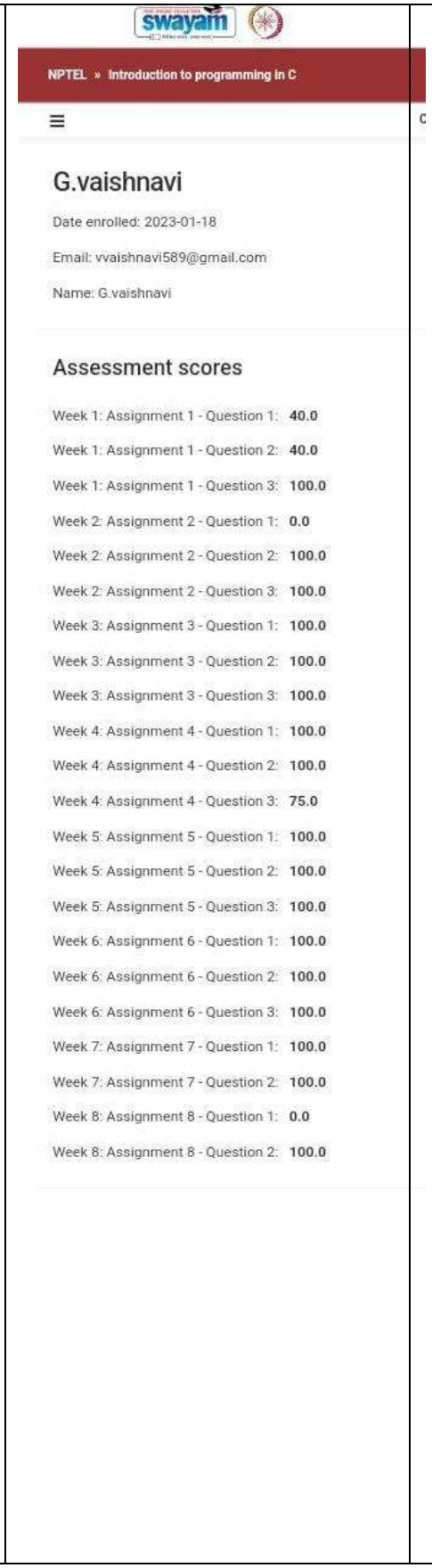
Week 6: Assignment 6 - Question 3: 100.0

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 100.0

Week 8: Assignment 8 - Question 1: 100.0

Week 8: Assignment 8 - Question 2: 100.0



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G.vaishnavi

Date enrolled: 2023-01-18

Email: vvaishnavi589@gmail.com

Name: G.vaishnavi

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 40.0

Week 1: Assignment 1 - Question 3: 100.0

Week 2: Assignment 2 - Question 1: 0.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 100.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: 100.0

Week 6: Assignment 6 - Question 2: 100.0

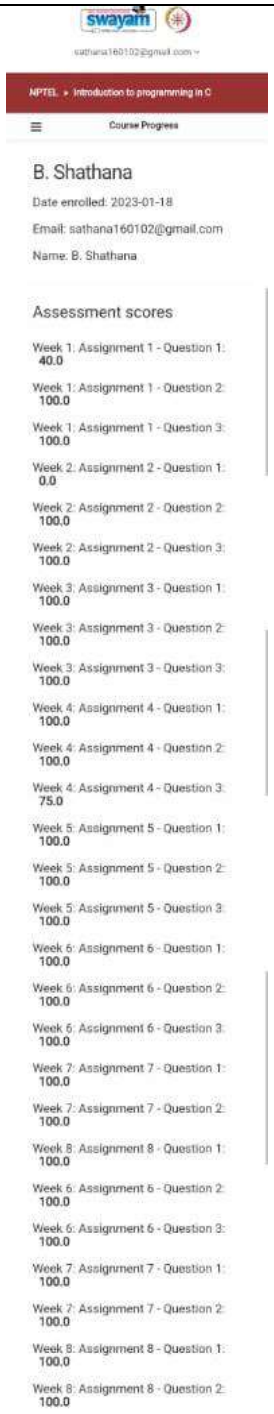
Week 6: Assignment 6 - Question 3: 100.0

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 100.0

Week 8: Assignment 8 - Question 1: 0.0

Week 8: Assignment 8 - Question 2: 100.0



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Course Progress

B. Shathana

Date enrolled: 2023-01-18

Email: sathana160102@gmail.com

Name: B. Shathana

Assessment scores

Week 1: Assignment 1 - Question 1: 40.0

Week 1: Assignment 1 - Question 2: 100.0

Week 1: Assignment 1 - Question 3: 100.0

Week 2: Assignment 2 - Question 1: 0.0

Week 2: Assignment 2 - Question 2: 100.0

Week 2: Assignment 2 - Question 3: 100.0

Week 3: Assignment 3 - Question 1: 100.0

Week 3: Assignment 3 - Question 2: 100.0

Week 3: Assignment 3 - Question 3: 100.0

Week 4: Assignment 4 - Question 1: 100.0

Week 4: Assignment 4 - Question 2: 100.0

Week 4: Assignment 4 - Question 3: 75.0

Week 5: Assignment 5 - Question 1: 100.0

Week 5: Assignment 5 - Question 2: 100.0

Week 5: Assignment 5 - Question 3: 100.0

Week 6: Assignment 6 - Question 1: 100.0

Week 6: Assignment 6 - Question 2: 100.0

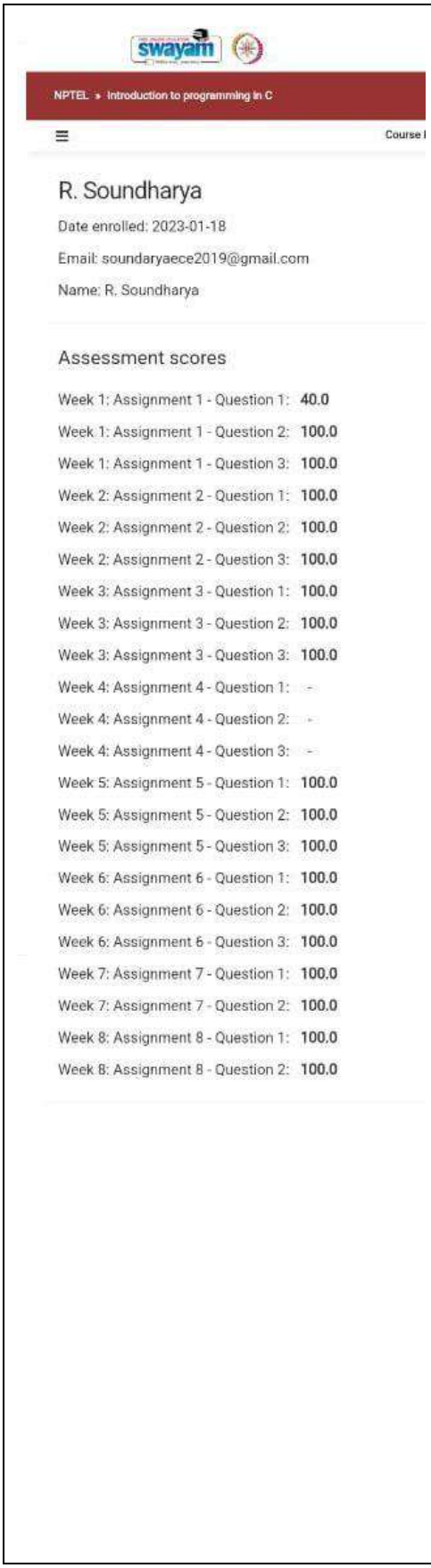
Week 6: Assignment 6 - Question 3: 100.0

Week 7: Assignment 7 - Question 1: 100.0

Week 7: Assignment 7 - Question 2: 100.0

Week 8: Assignment 8 - Question 1: 100.0

Week 8: Assignment 8 - Question 2: 100.0



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Course I

R. Soundharya

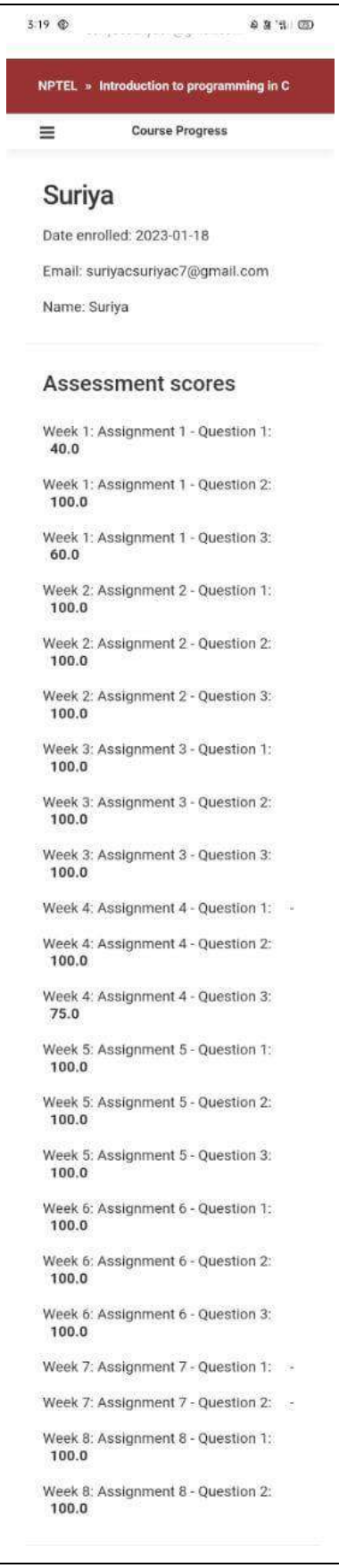
Date enrolled: 2023-01-18

Email: soundaryaece2019@gmail.com

Name: R. Soundharya

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	-
Week 4: Assignment 4 - Question 3:	-
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



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Course Progress

Suriya

Date enrolled: 2023-01-18

Email: suriyacsuriyac7@gmail.com

Name: Suriya

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	-
Week 7: Assignment 7 - Question 2:	-
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0

K.priyanka

Assessment scores

NPTEL » Introduction to programming in C

Course Pr

R.kabilan

Date enrolled: 2023-01-18

Email: kabilanking1017@gmail.com

Name: R.kabilan

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	0.0
Week 3: Assignment 3 - Question 2:	33.333333333333336
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	-
Week 5: Assignment 5 - Question 2:	-
Week 5: Assignment 5 - Question 3:	-
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	0.0
Week 7: Assignment 7 - Question 2:	0.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0

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Jayakumar.A

Date enrolled: 2023-01-18

Email: jerryjayakumar2000@gmail.com

Name: Jayakumar.A

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	-
Week 4: Assignment 4 - Question 3:	-
Week 5: Assignment 5 - Question 1:	-
Week 5: Assignment 5 - Question 2:	-
Week 5: Assignment 5 - Question 3:	-
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	-
Week 7: Assignment 7 - Question 2:	-
Week 8: Assignment 8 - Question 1:	-
Week 8: Assignment 8 - Question 2:	-

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G.Karikalan

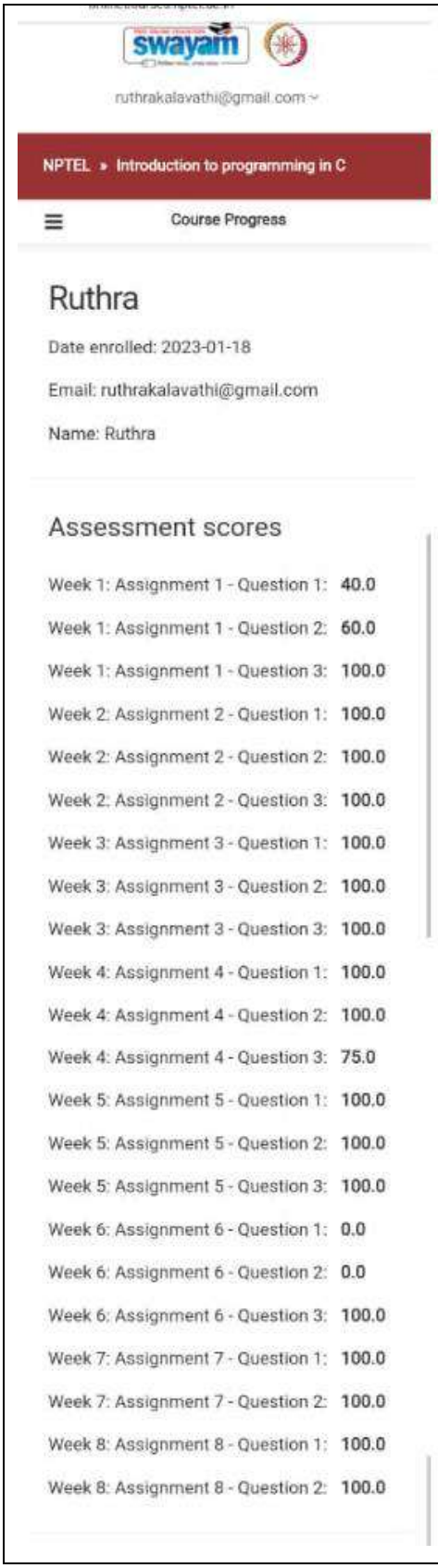
Date enrolled: 2023-01-18

Email: kkari6798@gmail.com

Name: G.Karikalan

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	-
Week 5: Assignment 5 - Question 2:	-
Week 5: Assignment 5 - Question 3:	-
Week 6: Assignment 6 - Question 1:	-
Week 6: Assignment 6 - Question 2:	-
Week 6: Assignment 6 - Question 3:	-
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	-
Week 8: Assignment 8 - Question 2:	-



ruthrakalavathi@gmail.com

NPTEL » Introduction to programming in C

Course Progress

Ruthra

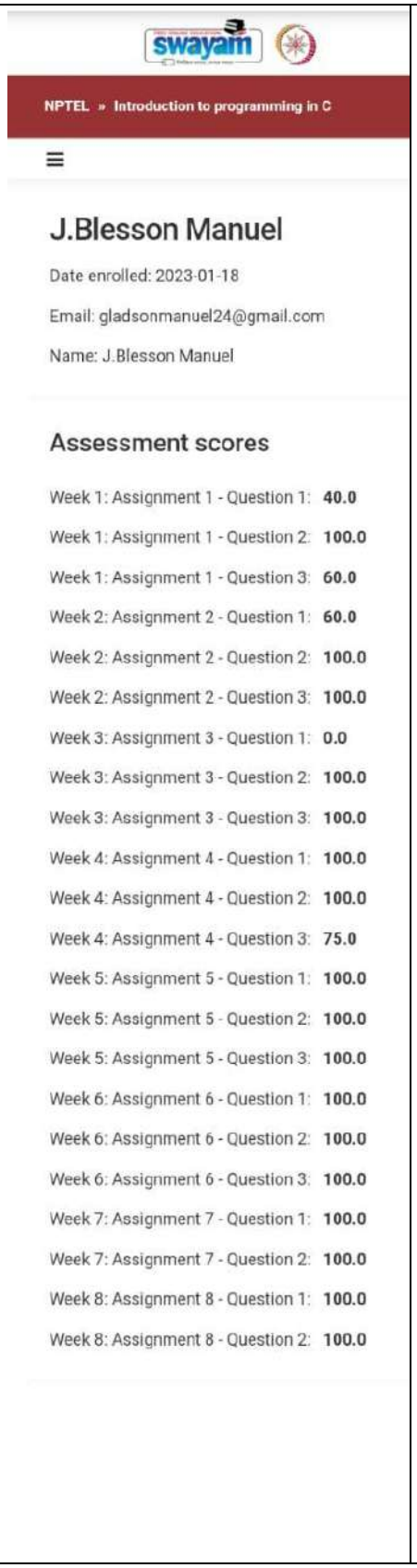
Date enrolled: 2023-01-18

Email: ruthrakalavathi@gmail.com

Name: Ruthra

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	60.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	0.0
Week 6: Assignment 6 - Question 2:	0.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



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J.Blesson Manuel

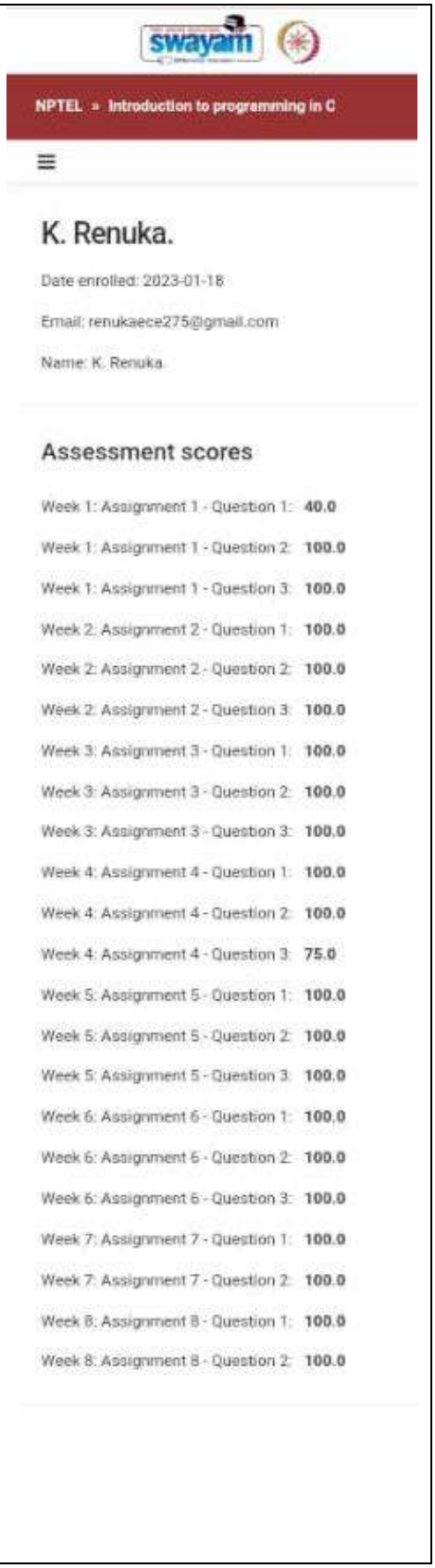
Date enrolled: 2023-01-18

Email: gladsonmanuel24@gmail.com

Name: J.Blesson Manuel

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	0.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



NPTEL » Introduction to programming in C

K. Renuka.

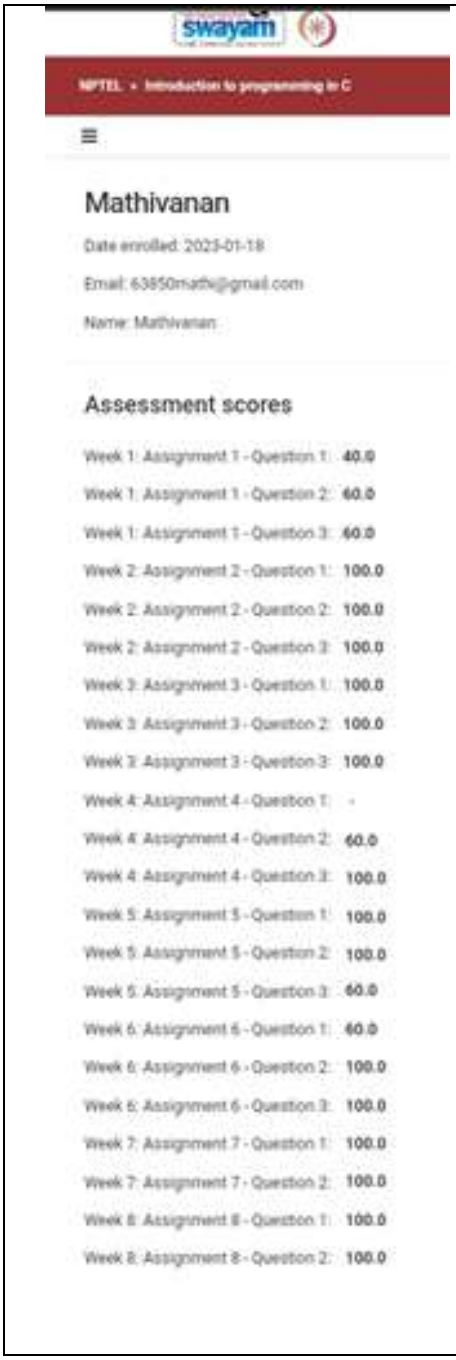
Date enrolled: 2023-01-18

Email: renukaece275@gmail.com

Name: K. Renuka

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	100.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



NPTEL » Introduction to programming in C

Mathivanan

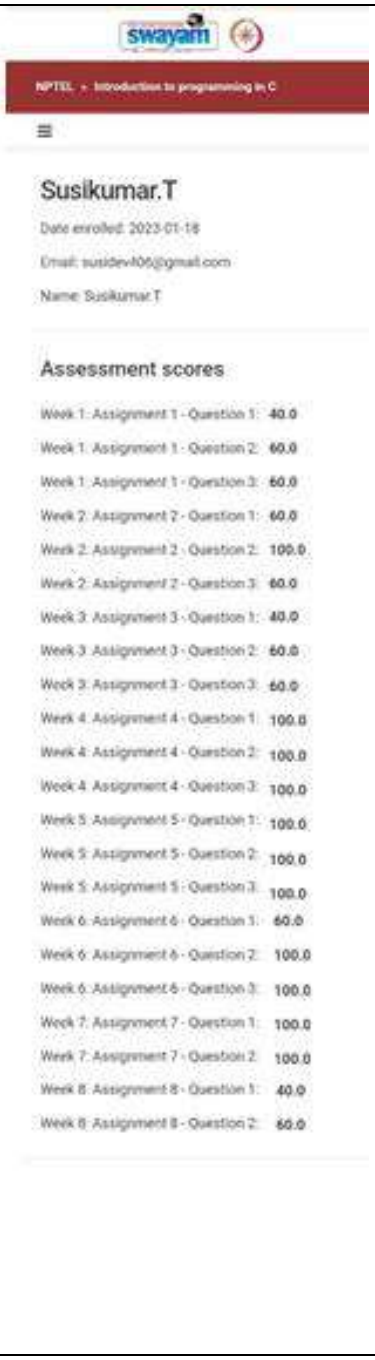
Date enrolled: 2023-01-18

Email: 63850mathi@gmail.com

Name: Mathivanan

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	60.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	-
Week 4: Assignment 4 - Question 2:	60.0
Week 4: Assignment 4 - Question 3:	100.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	60.0
Week 6: Assignment 6 - Question 1:	60.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0



NPTEL » Introduction to programming in C

Susikumar.T

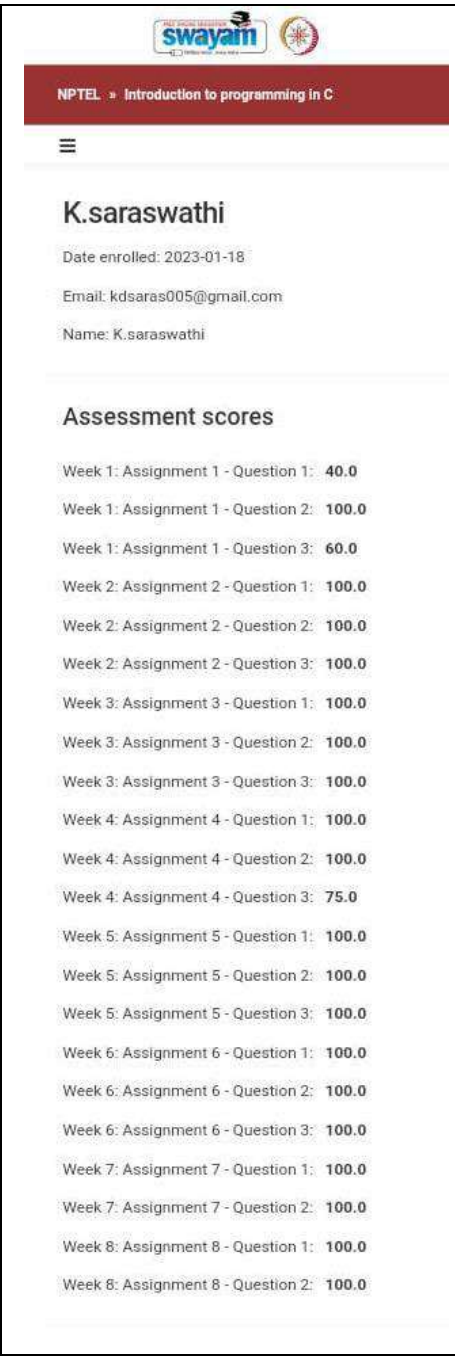
Date enrolled: 2023-01-18

Email: susidev406@gmail.com

Name: Susikumar.T

Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	60.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	60.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	60.0
Week 3: Assignment 3 - Question 1:	40.0
Week 3: Assignment 3 - Question 2:	60.0
Week 3: Assignment 3 - Question 3:	60.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	100.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	60.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	40.0
Week 8: Assignment 8 - Question 2:	60.0



NPTEL » Introduction to programming in C

K.saraswathi

Date enrolled: 2023-01-18

Email: kdsaras005@gmail.com

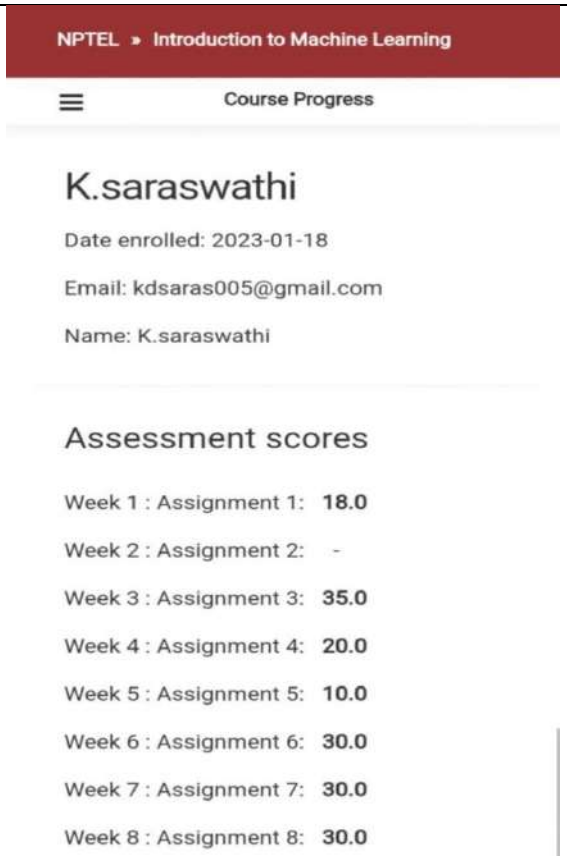
Name: K.saraswathi

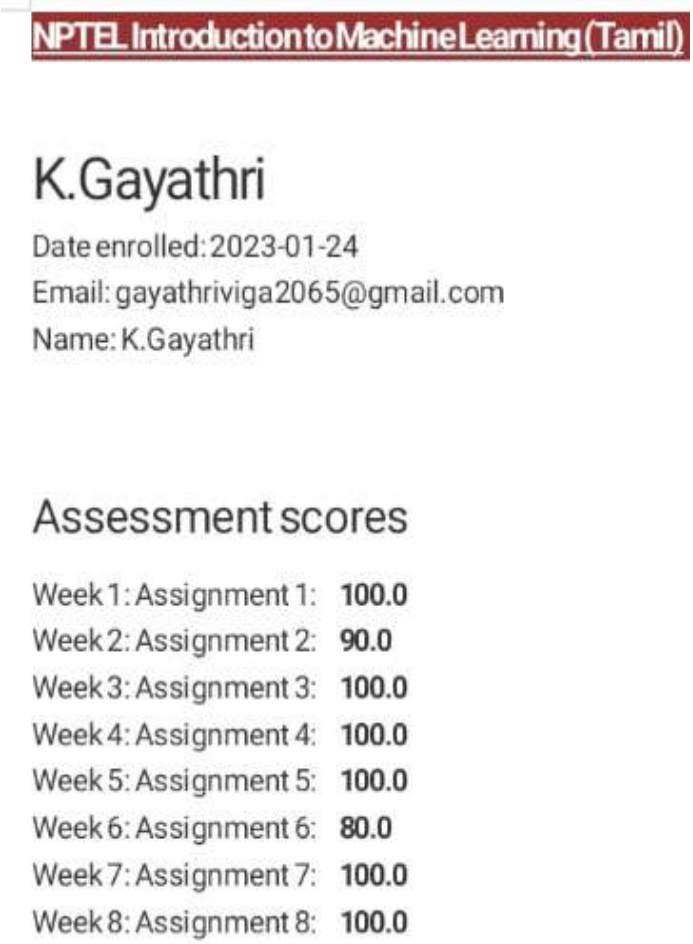
Assessment scores

Week 1: Assignment 1 - Question 1:	40.0
Week 1: Assignment 1 - Question 2:	100.0
Week 1: Assignment 1 - Question 3:	60.0
Week 2: Assignment 2 - Question 1:	100.0
Week 2: Assignment 2 - Question 2:	100.0
Week 2: Assignment 2 - Question 3:	100.0
Week 3: Assignment 3 - Question 1:	100.0
Week 3: Assignment 3 - Question 2:	100.0
Week 3: Assignment 3 - Question 3:	100.0
Week 4: Assignment 4 - Question 1:	100.0
Week 4: Assignment 4 - Question 2:	100.0
Week 4: Assignment 4 - Question 3:	75.0
Week 5: Assignment 5 - Question 1:	100.0
Week 5: Assignment 5 - Question 2:	100.0
Week 5: Assignment 5 - Question 3:	100.0
Week 6: Assignment 6 - Question 1:	100.0
Week 6: Assignment 6 - Question 2:	100.0
Week 6: Assignment 6 - Question 3:	100.0
Week 7: Assignment 7 - Question 1:	100.0
Week 7: Assignment 7 - Question 2:	100.0
Week 8: Assignment 8 - Question 1:	100.0
Week 8: Assignment 8 - Question 2:	100.0

****

COURSE PROGRESS FOR INTRODUCTION TO MACHINE LEARNING





NPTEL » Introduction to Machine Learning (Tamil)

R.Jothika

Date enrolled: 2023-01-18

Email: jothikar462002@gmail.com

Name: R.Jothika

Assessment scores

Week 1: Assignment 1:	63.0
Week 2: Assignment 2:	45.0
Week 3: Assignment 3:	45.0
Week 4: Assignment 4:	80.0
Week 5: Assignment 5:	90.0
Week 6: Assignment 6:	47.0
Week 7: Assignment 7:	60.0
Week 8: Assignment 8:	70.0

NPTEL » Introduction to Machine Learning (Tamil) Announcements

Course outline

- How does an NPTEL online course work?
- Week 0
- Week 1
- Week 2
- Week 3
- Week 4
- Week 5
- Week 6
- Week 7
- Week 8
- Download Videos
- Lecture Materials
- Live session
- Problem Solving Session

J.Blesson Manuel

Date enrolled: 2023-01-18

Email: gladsonmanuel24@gmail.com

Name: J.Blesson Manuel

Assessment scores

Week 1: Assignment 1:	-
Week 2: Assignment 2:	-
Week 3: Assignment 3:	45.0
Week 4: Assignment 4:	-
Week 5: Assignment 5:	33.0
Week 6: Assignment 6:	40.0
Week 7: Assignment 7:	60.0
Week 8: Assignment 8:	-

NPTEL » Analysis And Design Principles Of Microwave Antennas

Dharmadurai.A

Date enrolled: 2023-02-09

Email: azheganthamilan@gmail.com

Name: Dharmadurai.A

Assessment scores

Week 1 : Assignment 1:	40.0
Week 2 : Assignment 2:	33.0
Week 3 : Assignment 3:	38.0
Week 4 : Assignment 4:	40.0
Week 5 : Assignment 5:	30.0
Week 6 : Assignment 6:	20.0
Week 7 : Assignment 7:	10.0
Week 8 : Assignment 8:	20.0

NPTEL » Introduction to Machine Learning (Tamil)

SM.Swethaa

Date enrolled: 2023-01-18

Email: swethaa1492001@gmail.com

Name: SM.Swethaa

Assessment scores

Week 1: Assignment 1:	80.0
Week 2: Assignment 2:	30.0
Week 3: Assignment 3:	50.0
Week 4: Assignment 4:	80.0
Week 5: Assignment 5:	60.0
Week 6: Assignment 6:	30.0
Week 7: Assignment 7:	60.0
Week 8: Assignment 8:	30.0

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR

2022 – 2023

KINGS COLLEGE OF ENGINEERING
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Affiliated to Anna University, Chennai.
B++ NAAC

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON PROGRAMS/ CERTIFICATE COURSE DURING THE ACADEMIC YEAR

Academic Year 2022-23			
S. No.	**COURSE TITLE**	**NO. OF HOURS HANDLED**	**NO. OF STUDENTS ATTENDED**
	ODD SEMESTER		
1.	MHRD sponsored IIT Bombay certification course on Spoken Tutorial on Scilab – II YR	30 hours	31
2.	MHRD sponsored IIT Bombay certification course on LaTex – IV YR	30 hours	9
3.	MHRD sponsored IIT Bombay certification course on Inkscape – III YR	30 hours	41
4.	Gate/Competitive Exam – III YR	30 hours	41
5.	Swayam course on "Electronic Waste Management – Issues and Challenges" – II, III & IV YR	4 weeks	81
6.	Certification Course on "Simulation Tools for Electrical Engineering" – III YR	30 hours	41
	EVEN SEMESTER		
7.	MHRD sponsored IIT Bombay certification course on Spoken Tutorial on GIMP – IV YR	30 hours	9
8.	MHRD sponsored IIT Bombay certification course on Inkscape – II YR	30 hours	31
9.	MHRD sponsored IIT Bombay certification course on eSim – III YR	30 hours	41
10.	Certification Course on "Real-time Embedded System" – IV YR	30 hours	9
11.	Swayam course on "Recent Advances in Transmission Insulators" – II, III & IV YR	4 weeks	81
12.	Gate/Competitive Exam – III YR	30 hours	41

Total No. of Add-on courses organized : 12
No. of students attended : 456

26/5/23
FACULTY IN-CHARGE

26/5/23
HOD/EEE

26/5/2023
PRINCIPAL

Dr.A.ALBERT MARTIN RUBAN, ME., Ph.D.,
Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai-613303

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON PROGRAMS/ CERTIFICATE COURSE DURING THE ACADEMIC YEAR

ATTENDANCE SHEET

Academic Year 2022-23	
S. No.	**COURSE TITLE**
	ODD SEMESTER
1.	MHRD sponsored IIT Bombay certification course on Spoken Tutorial on Scilab – II YR
2.	MHRD sponsored IIT Bombay certification course on LaTex – IV YR
3.	MHRD sponsored IIT Bombay certification course on Inkscape – III YR
4.	Gate/Competitive Exam – III YR
5.	Swayam course on "Electronic Waste Management – Issues and Challenges" – II, III & IV YR
6.	Certification Course on "Simulation Tools for Electrical Engineering" – III YR
	EVEN SEMESTER
7.	MHRD sponsored IIT Bombay certification course on Spoken Tutorial on GIMP – IV YR
8.	MHRD sponsored IIT Bombay certification course on Inkscape – II YR
9.	MHRD sponsored IIT Bombay certification course on eSim – III YR
10.	Certification Course on "Real-time Embedded System" – IV YR
11.	Swayam course on "Recent Advances in Transmission Insulators" – II, III & IV YR
12.	Gate/Competitive Exam – III YR

26/5/23
FACULTY IN-CHARGE

26/5/23
HOD/EEE

26/5/2023
PRINCIPAL

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai-613303

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303

CERTIFICATE COURSE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

B.E – EEE (Reg. 2017) - With Effect from 10.8.2022 - Tentative Last working Day 19.11.22

Batch:2020 - 2024

Year: III **Semester: V** **Class Room : 133** **Strength:42** **Block: I**

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	EE8501	EE8591	BREAK	OAN551	EE8551	LUNCH BREAK	EE8552	CS8392	BREAK	T & P (SS)	LIB/ NET
TUE	EE8552	EE8551		EE8501	CS8392		EE8501	CS8392		HS8581	
WED	OAN551	EE8552		EE8591	EE8551		EE8501	EE8591		T & P (A)	VAC
THU	EE8551	CS8392		EE8591	OAN551		EE8511			EE8511	
FRI	CS8383			CS8383			OAN551	EE8552		EE8501	CS8392
SAT	NPTEL	GATE		EE8552	EE8591		VAC			CC	

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	TUTORIAL (T), ELECTIVE (E)					
EE8501	Power System Analysis	PC	3	Dr.R.Arulraj	EEE	05
EE8551	Microprocessor and microcontroller	PC	3	Dr.P.Narasimman	EEE	04
EE8552	Power Electronics	PC	3	Mr.R.Sundaramoorthi	EEE	05
EE8591	Digital Signal Processing	PC	4	Mrs.M.Muthulakshmi	ECE	05
CS8392	Object Oriented Programming	ES	3	Ms.S.AbikayilAarthi	CSE	05
OAN551	Sensors and Transducers	OE	3 (OE1)	Ms.C.Senthamilarasi	EEE	04
EE8511	Control & Instrumentation laboratory	PC	2	Mr.R.Sundaramoorthi	EEE	04
CS8383	OOPS laboratory	ES	2	Ms.S.AbikayilAarthi	CSE	04
HS8581	Professional Communication	EEC	2	Mr.J.Radhakrishnan	English	02

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Dr.R.Arulraj	R.Vijayaragavan P.Sneha	31 27
CLASS COMMITTEE CHAIR PERSON	Mr.J.Arokiaraj	

VALUE ADDITION INTIATIVES (VAI) - REGULAR HOURS					
CC	Certification Course on" Simulation Tools for Electrical Engineering"	VAI	Dr.R.Arulraj/Mrs.A.Prabha	EEE	02
GATE / CE	GATE / Competitive Exam	VAI	Dr.P.Narasimman	EEE	01
LIB/NET	Library / Internet	VAI	Dr.R.Arulraj	EEE	01
NPTEL	NPTEL Swayam Courses	VAI	Dr.R.Arulraj	EEE	01
T&P (A)	Training & Placement - Aptitude	VAI	Ms.P.Suganya	T&P	01
T&P(SS)	Training & Placement - Soft skill	VAI	Mr.B.Sureshbabu	T&P	01
VAC	Value Added Course on "MATLAB Application for Electrical Engineering"	VAI	Mr.J.Arokiaraj	EEE	03

23/8/22 — DEPT. TTC

23/8/22 — HOD

23/8/2022 — PRINCIPAL

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

Certification Course on "Simulation Tools for Electrical Engineering" - Report

The Department of Electrical and Electronics Engineering has organized a certification course on the topic "Simulation Tools for Electrical Engineering" on the following dates for third-year EEE students. The third-year EEE certificate course session dates are 01.08.2022, 02.08.2022, 03.08.2022, 04.08.2022, 05.08.2022, 06.08.2022, 17.09.2022 and 08.10.2022.

OBJECTIVES:

The main objective of this course is to help students:

- To know about the fundamentals of MATLAB tool.
- To provide an overview of elementary mathematics and graphics in MATLAB and solve Linear and Nonlinear Equations.
- To understand different branching statements and program design in MATLAB.
- To gain knowledge about MATLAB Simulink & solve Electrical engineering problems.

COURSE DETAILS:

The certification course on "Simulation Tools for Electrical Engineering" was allotted for III-year EEE Students, and a total of 30 hours was planned to conduct the entire course. This certification course provides a basic introduction to MATLAB programming and the Simulink model, and the applications of MATLAB in solving electrical engineering problems. MATLAB, an abbreviation of MATrix LABoratory, is a high-level technical computing environment suitable for solving scientific and engineering problems. The MATLAB family of programs includes the base program plus a variety of application-specific solutions called toolboxes. Toolboxes are comprehensive collections of MATLAB

functions that extend the MATLAB environment to solve particular class problems. The certification course contents are divided into five separate sections. Before the start of the course contents, a detailed explanation of various MATLAB windows was given to the students. In the first section, the students learned various concepts, such as an introduction to array programming, creating vectors and special matrices, different array functions, and solving linear equations using MATLAB. Also, exercises in matrices using MATLAB were given to the students in hands-on sessions.

The students learned how to perform elementary mathematics in MATLAB in the second section. In the second section, the students learned arithmetic operations, order of precedence, Trigonometry rounding functions, polynomials, complex numbers, exponents, logarithms, and Cartesian coordinate system conversion in MATLAB. At the end of the second section, exercises in elementary mathematics using MATLAB were given to the students through hands-on sessions. In the third section, various important concepts related to MATLAB graphics, such as 2D graph plotting, 2D bar graphs, pie charts, logarithmic plots, subplots, 3D graph plotting, editing in the plot window, and finally, animation in MATLAB were discussed. Also, exercises in graphics using MATLAB were given to the students in a separate hands-on session.

In the fourth section, the students learned important concepts and syntax related to MATLAB programming, such as creating M-Files, Input and Output Commands, fprintf function, built-in and basic user-defined functions, Logical Operators, branching statements, loops, and vectorization in MATLAB. At the end of the fourth section, exercises in MATLAB programming were given to the students through hands-on sessions. In the fifth section, a detailed introduction to MATLAB Simulink was given to the students. MATLAB Simulink software is used to simulate systems. It uses a GUI to interact with blocks that represent subsystems. The user can position the blocks, resize the blocks, label the blocks, specify block parameters, and interconnect blocks to form complete systems from which simulations can be run. The students learned how to develop half-wave controlled rectifiers, full-wave controlled rectifiers, Bridge controlled rectifiers, Buck regulators, and boost regulators models using MATLAB Simulink environment. The ability to design the different power electronics circuits through hands-on sessions helps the students better understand the operation of respective circuits. The students actively participated throughout the entire course sessions. They raised interesting questions, and

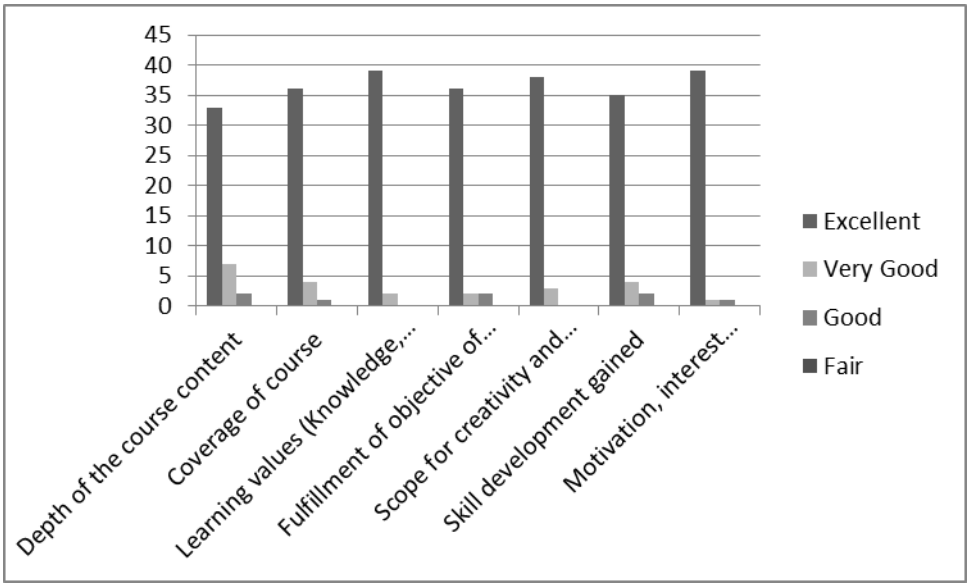
the faculty clarified their queries in the sessions. After completing the course contents, an assessment test was carried out to analyze the student performance, and certificates were awarded to the students who completed the course. Finally, the overall feedback of the students about the course was collected for future enhancements.

OUTCOME:

At the end of the course, the students should be able to,

- Understand the fundamentals of MATLAB tools.
- Program numerical differentiation and integration, solution of linear equations in MATLAB and solve electrical engineering problems.
- Analyze any given dataset with the help of MATLAB graphics.
- Implement loops, branching, control instruction, and functions in MATLAB programming environment.
- Simulate and solve electrical engineering problems using MATLAB Simulink models.

FEEDBACK ANALYSIS:



Snapshots from Certification Course

28/11/22

FACULTY INCHARGE

23/11/22

HOD/EEE

23/11/2022

PRINCIPAL

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KINGS COLLEGE OF ENGINEERING

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CERTIFICATE

This is to certify that

Akilan. D

of "**Kings College of Engineering**" has completed the certificate course on the title of "**Simulation tool for Electrical Engineering**" organized by Department of Electrical and Electronics Engineering, Kings college of Engineering, Punalkulam on 10.10.2022.

Dr. A. Albert Martin Ruban,
HOD / EEE

Dr. J. Arputha Vijaya Selvi,
Principal

E-certificate does not require signature

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KINGS

COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC

Approved by AICTE, New Delhi

Affiliated to Anna University, Chennai

CERTIFICATE

This is to certify that

Semili. K

of "**Kings College of Engineering**" has completed the certificate course on the title of "**Simulation tool for Electrical Engineering**" organized by Department of Electrical and Electronics Engineering, Kings college of Engineering, Punalkulam on 10.10.2022.

Dr. A. Albert Martin Ruban,
HOD / EEE

Dr. J. Arputha Vijaya Selvi,
Principal

E-certificate does not require signature

Format-QP06

KINGS COLLEGE OF ENGINEERING
Accredited by NAAC with 'B++' Grade
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TIME TABLE (February 2023 -May 2023, EVEN SEM)

B.E – EEE (Reg. 2017)-With Effect from 06.01.2023-Tentative Last Working Day12.05.2023

Batch: 2019-2023 **Strength: 09**

Year: IV **Semester: VIII** **Class Room: 134** **Block: I**

Session	1	2	10.45 am - 11.00 am	3	4		5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	EE8015	EE8018	BREAK	EE8015	EE8018	LUNCH BREAK	T&P(A)	EE8811	BREAK	EE8811	
TUE	EE8018	EE8015		EE8018	RWP		EE8811			EE8811	
WED	EE8015	EE8018		EE8015	EE8018		T&P(SS)	EE8811		EE8811	
THU	EE8018	EE8015		EE8018	EE8015		EE8811			S/Y	
FRI	EE8015	MCC		MCC	MCC		LIB/NET	SDC		SDC	
SAT	EE8811			EE8811			EE8811			EE8811	

SUB. CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT.	PERIODS/WEEK
	TUTORIAL (T), PROFESSIONAL ELECTIVE (PE) PROFESSIONAL ELECTIVE (PE)					
EE8015	Electric Energy Generation, Utilization and Conservation	PE	3(PE-V)	Dr.A.Albert Martin Ruban	EEE	8
EE8018	Microcontroller Based System Design	PE	3(PE-VI)	Mr.S.R.Karthikeyan	EEE	8
	PRACTICAL (P)					
EE8811	Project Work	EEC	10	Mr.S.R.Karthikeyan	EEE	17
	VALUE ADDED INITIATIVES (VAI)					
LIB/NET	Library/Internet		VAI	Mr.S.R.Karthikeyan Mr.J.Arokiaraj	EEE	1
NPTEL	NPTEL/SWAYAM		VAI	Mr.S.R.Karthikeyan	EEE	1
RWP	Report Writing Practice		VAI	Mr.S.R.Karthikeyan	EEE	3
SDC	Skill Development Course on "Real Time Embedded System"		VAI	Mr.S.R.Karthikeyan Mr.J.Arokiaraj	EEE	3
S/Y	Sports/Yoga(Odd week-sports-girls & yoga-boys)		VAI	Mr.S.R.Karthikeyan	EEE	2
T&P(A)	Training and Placement (Aptitude)		VAI	Ms.P.Suganya	T&P	1
T&P(SS)	Training and Placement (Soft Skills)		VAI	Mr.P.SureshBabu	T&P	1

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO.
Mr.S.R.Karthikeyan	M.E.Krishna	02
CLASS COMMITTEE CHAIR PERSON	Mrs.A.Prabha	

DEPT. TTC 3/2/23

HoD 6/2/23

PRINCIPAL 06/2/2023

KINGS COLLEGE OF ENGINEERING
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN SEMESTER)

Certificate course on "Real Time Embedded System" – Report

The Department of Electrical and Electronics Engineering has organized a certification course on the topic "Real Time Embedded System" on the following dates for third-year EEE students. The final-year EEE certificate course session dates are 10.02.2023, 17.02.2023, 24.02.2023, 03.03.2023, 10.03.2023, 17.03.2023, 24.03.2023, 31.03.2023, 07.04.2023 and 14.04.2023.

OBJECTIVES:

The main objective of this course is to help students:

1. Understand real-time system principles & RTOS.
2. Master embedded systems design & programming.
3. Learn practical applications & case studies.
4. Gain hands-on experience through projects.

COURSE DETAILS:

Real-time embedded systems are ubiquitous in modern technology, powering everything from medical devices to automotive systems. This course delves deep into the intricacies of designing, developing, and implementing such systems. Through a combination of theoretical discussions, practical labs, and hands-on projects, students will gain a comprehensive understanding of the unique challenges and opportunities presented by real-time embedded systems.

The course begins with an exploration of the fundamental principles underlying real-time computing, including timing constraints, task scheduling, and concurrency management. Students will learn how to design embedded systems that meet strict timing requirements while efficiently utilizing hardware resources.

A significant portion of the course is dedicated to mastering real-time operating systems (RTOS), which play a crucial role in managing tasks, interrupts, and resources in embedded environments. Through practical exercises, students will gain proficiency in configuring and utilizing RTOS to optimize system performance.

Additionally, the course covers advanced topics such as interrupt handling, device drivers, and low-level programming techniques tailored for real-time applications. Students will learn how to write efficient, deterministic code that responds predictably to external stimuli and meets stringent performance criteria.

Throughout the course, real-world case studies from diverse industries provide insights into the practical applications of real-time embedded systems. From automotive safety systems to industrial automation, students will examine how these technologies are deployed in various domains, gaining valuable insights into industry best practices and emerging trends.

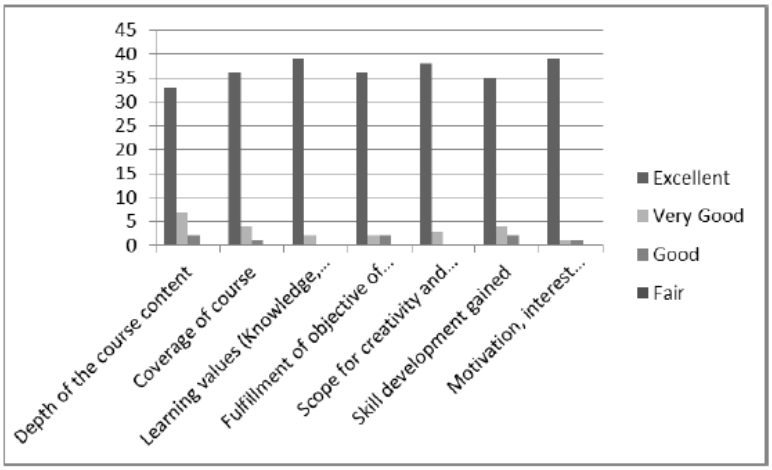
By the end of the course, students will not only possess a solid theoretical foundation in real-time embedded systems but also practical skills that are directly applicable to industry settings. Whether pursuing careers in embedded systems development, robotics, or IoT (Internet of Things), graduates of this course will be well-equipped to tackle the complex challenges of real-time computing in embedded environments.

COURSE OUTCOME:

Upon completion of the course, students should:

1) Possess a thorough understanding of real-time embedded systems principles, including RTOS, task scheduling, and hardware-software co-design.
2) Demonstrate proficiency in programming techniques for real-time applications and optimizing code for performance.
3) Be capable of designing, implementing, and testing real-time embedded systems to meet specific requirements and constraints.
4) Gain practical experience through hands-on projects and laboratory exercises, enhancing their readiness for careers in embedded systems development.

FEEDBACK ANALYSIS:



Snapshot from certificate course

26/5/23

Faculty In-charge

26/5/23

HOD / EEE

26/5/2023

PRINCIPAL

A NAAC Accredited Institution

KINGS

COLLEGE OF ENGINEERING

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Approved by AICTE, New Delhi

Affiliated to Anna University, Chennai

CERTIFICATE

This is to certify that

Bharanitharan. S

of "**Kings College of Engineering**" has completed the certificate course on the title of "**Real - time Embedded System**" organized by Department of Electrical and Electronics Engineering, Kings college of Engineering, Punalkulam on 15.05.2023.

Dr. A. Albert Martin Ruban,
HOD / EEE

Dr. J. Arputha Vijaya Selvi,
Principal

E-certificate does not require signature

A NAAC Accredited Institution

KINGS COLLEGE OF ENGINEERING

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Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

CERTIFICATE

This is to certify that

Ragul. V

of "**Kings College of Engineering**" has completed the certificate course on the title of "**Real - time Embedded System**" organized by Department of Electrical and Electronics Engineering, Kings college of Engineering, Punalkulam on 15.05.2023.

Dr. A. Albert Martin Ruban,
HOD / EEE

Dr. J. Arputha Vijaya Selvi,
Principal

E-certificate does not require signature

SWAYAM COURSE

KINGS COLLEGE OF ENGINEERING
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B++ NAAC

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

REPORT ON SWAYAM COURSE

Electrical Waste Management – Issues and Challenges

BENEFICIARIES: IV & III & II YEARS

COURSE OUTCOME

- To introduce students about the overview of the course.
- After successfully completing this short course, students will have an exposure pathway of pollutants emitted from recycling of E – waste.
- They will know about the E – waste management rules of India (2011 and 2016 rules).
- Students will gain knowledge about E-waste management through case studies and unique initiatives implemented globally.

YEAR/SEM: II/III **BATCH: 2021-25** **Class Strength: 31**

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821121105001	ABIBHARATHI A	Registered	Assignment Completed	Completed
2.	821121105002	AKASH P	Registered	Assignment Completed	Completed
3.	821121105003	ARAVINDHAN R	Registered	Assignment Completed	Completed
4.	821121105004	DHESINGH J	Registered	Assignment Completed	Completed
5.	821121105005	GAYATHRI K C	Registered	Assignment Completed	Completed
6.	821121105006	GOKUL M	Registered	Assignment Completed	Completed
7.	821121105007	GOPINATH S	Registered	Assignment Completed	Completed
8.	821121105008	HARISHMA R	Registered	Assignment Completed	Completed
9.	821121105009	JEGADEESAN R	Registered	Assignment Completed	Completed
10.	821121105010	KARTHIKEYAN S	Registered	Assignment Completed	Completed
11.	821121105011	MEENA P	Registered	Assignment Completed	Completed
12.	821121105012	MILTON INFANT RAJ P	Registered	Assignment Completed	Completed
13.	821121105013	PRAVEEN V C	Registered	Assignment Completed	Completed
14.	821121105014	RUTHRAN K	Registered	Assignment Completed	Completed
15.	821121105015	SARAVANAKUMAR M	Registered	Assignment Completed	Completed
16.	821121105016	SHANMUGAESWARAN S	Registered	Assignment Completed	Completed
17.	821121105017	SIVANANTHAM S	Registered	Assignment Completed	Completed

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Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai-613303

18.	821121105018	SIVANESAN C	Registered	Assignment Completed	Completed
19.	821121105019	SUJITHA S	Registered	Assignment Completed	Completed
20.	821121105020	SURIYA G	Registered	Assignment Completed	Completed
21.	821121105021	THAVATHEESH S	Registered	Assignment Completed	Completed
22.	821121105022	THUSARI S	Registered	Assignment Completed	Completed
23.	821121105023	VAISHNAVI V	Registered	Assignment Completed	Completed
24.	821121105024	VIDHYA M	Registered	Assignment Completed	Completed
25.	821121105025	VIJAY V	Registered	Assignment Completed	Completed
26.	821121105027	YOGESH C	Registered	Assignment Completed	Completed
27.	821121105028	YUVARAJ A	Registered	Assignment Completed	Completed
28.	821121105302	PANDIYARAJAN R	Registered	Assignment Completed	Completed
29.	821121105303	PARTHASARATHY B	Registered	Assignment Completed	Completed
30.	821121105305	UDHAYAM.S	Registered	Assignment Completed	Completed
31.	821121105306	VEERASELVAN. V	Registered	Assignment Completed	Completed

YEAR SEM: III/ V **BATCH: 2020-24** **Class Strength: 43**

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821120105001	ABINAYASREE J	Registered	Assignment Completed	Completed
2.	821120105002	ABISHEK S	Registered	Assignment Completed	Completed
3.	821120105003	AKASH M	Registered	Assignment Completed	Completed
4.	821120105004	AKILAN D	Registered	Assignment Completed	Completed
5.	821120105005	ARAVINDH A	Registered	Assignment Completed	Completed
6.	821120105006	DHANASREE R	Registered	Assignment Completed	Completed
7.	821120105007	ELANANGAI G	Registered	Assignment Completed	Completed
8.	821120105008	GUSHENRA PRASATH P	Registered	Assignment Completed	Completed
9.	821120105010	JENISH A	Registered	Assignment Completed	Completed
10.	821120105011	KANIMOZHI R	Registered	Assignment Completed	Completed
11.	821120105012	MANOJ M	Registered	Assignment Completed	Completed
12.	821120105013	MANOJ R	Registered	Assignment Completed	Completed
13.	821120105014	MUKESH K	Registered	Assignment Completed	Completed
14.	821120105015	MUKESH M	Registered	Assignment Completed	Completed

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Punalkulam
Pudukkottai-613303

15.	821120105016	MUKESH V	Registered	Assignment Completed	Completed
16.	821120105017	PRABATH C L	Registered	Assignment Completed	Completed
17.	821120105018	PRIYADHARSHINI P	Registered	Assignment Completed	Completed
18.	821120105019	PRIYADHARSHINI S	Registered	Assignment Completed	Completed
19.	821120105020	RADHAKRISHNAN R	Registered	Assignment Completed	Completed
20.	821120105021	RAMACHANDRAN P	Registered	Assignment Completed	Completed
21.	821120105022	ROHITH R	Registered	Assignment Completed	Completed
22.	821120105023	SALMAN HUSSAIN Z	Registered	Assignment Completed	Completed
23.	821120105024	SATHISH S	Registered	Assignment Completed	Completed
24.	821120105025	SEMILI K	Registered	Assignment Completed	Completed
25.	821120105026	SIVARANJANI D	Registered	Assignment Completed	Completed
26.	821120105027	SNEHA P	Registered	Assignment Completed	Completed
27.	821120105028	SOWMIYA K	Registered	Assignment Completed	Completed
28.	821120105029	SOWMIYA L	Registered	Assignment Completed	Completed
29.	821120105030	SUDHARSAN S	Registered	Assignment Completed	Completed
30.	821120105031	VIJAYARAGAVAN R	Registered	Assignment Completed	Completed
31.	821120105032	VIJI J	Registered	Assignment Completed	Completed
32.	821120105033	VIKASH M	Registered	Assignment Completed	Completed
33.	821120105035	VISALAN M	Registered	Assignment Completed	Completed
34.	821120105036	VISHWA D	Registered	Assignment Completed	Completed
35.	821120105037	YOGARAJ P	Registered	Assignment Completed	Completed
36.	821120105301	AJITHKUMAR R	Registered	Assignment Completed	Completed
37.	821120105302	KABILAN A	Registered	Assignment Completed	Completed
38.	821120105303	MANI BHARATHI S	Registered	Assignment Completed	Completed
39.	821120105304	PRAVEEN KUMAR C	Registered	Assignment Completed	Completed
40.	821120105306	SIVAMURUGAN.G	Registered	Assignment Completed	Completed
41.	821120105307	VELMURUGAN K	Registered	Assignment Completed	Completed

29/12/22

Dr. A. ALBERT MARTIN RUBAN ME, Ph.D.
Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai-613303

YEAR SEM: IV/VII BATCH: 2019-23 Class Strength: 9

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821119105001	BHARANITHARAN.S	Registered	Assignment Completed	Completed
2.	821119105002	KRISHNA M. E	Registered	Assignment Completed	Completed
3.	821119105003	PANDIDEVI.P	Registered	Assignment Completed	Completed
4.	821119105004	PURUSOTHAMAN.R	Registered	Assignment Completed	Completed
5.	821119105005	RAGUL.V	Registered	Assignment Completed	Completed
6.	821119105006	REGINA.R	Registered	Assignment Completed	Completed
7.	821119105008	YUGESHWARAN.B	Registered	Assignment Completed	Completed
8.	821119105301	SARATHKUMAR.A	Registered	Assignment Completed	Completed
9.	821119105501	VETRIVEL.K	Registered	Assignment Completed	Completed

29/12/22

HOD/EEE

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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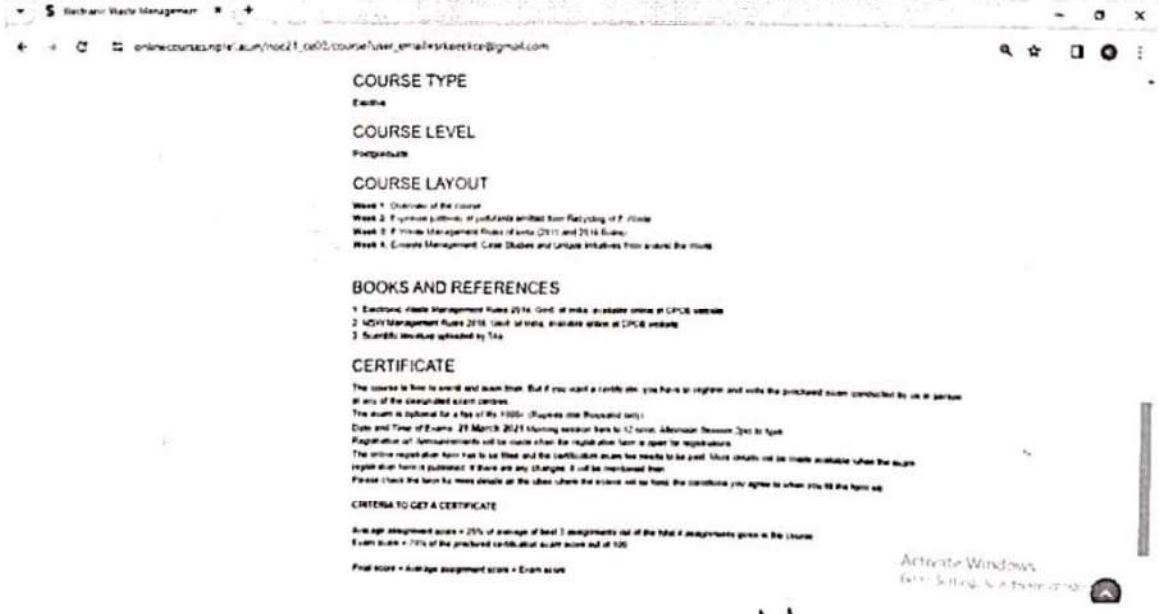
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SYLLABUS

Electrical Waste Management – Issues and Challenges



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Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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Prof. Brajesh Kumar Dubey

IIT Kharagpur

Professor Brajesh Kr. Dubey has his bachelors degree in Civil Engineering (Hons. from Indian Institute of Technology (IIT) Kharagpur, India and PhD in Environmental Engineering Sciences, University of Florida, Gainesville, Florida, USA. He is presently Associate Professor, Integrated Waste Management and Sustainable Engineering, in the Division of Environmental Engineering and Management at Indian Institute of Technology, IIT, Kharagpur, India. Dr. Dubey has more than 17 years of research, teaching, training and industrial outreach experience in the areas of Integrated Solid and Hazardous Waste Management, and Sustainable Engineering and Application of Life Cycle Assessment techniques. He also works in the area of Life Cycle Analysis and Sustainable Engineering. He has been teaching courses in the area of Solid Waste Management, Hazardous Waste Management, Life Cycle Analysis and Environmental Risk Assessment among other courses for nearly a decade. He has taught at several universities in USA, Canada, New Zealand, China and India. He has also conducted training programs in the broad area Waste Management areas including that for Electronics Waste. Dr. Dubey has authored/co- authored more than 200 publications in his area of expertise and have presented at several national and international conferences. He has worked as Waste Management Expert for UN agencies and World Bank.

Activate Windows
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29/12/22

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (ODD SEMESTER)

EVALUATION SHEET

Year/Sem: III/V **Batch: 2020-2024**

Name of the course: Swayam course on "Electronic Waste Management – Issues and Challenges"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821120105001	ABINAYASREE J	78	85	84	91
2.	821120105002	ABISHEK S	82	84	88	74
3.	821120105003	AKASH M	75	80	87	91
4.	821120105004	AKILAN D	84	95	91	90
5.	821120105005	ARAVINDH A	74	78	79	68
6.	821120105006	DHANASREE R	84	89	91	93
7.	821120105007	ELANANGAI G	88	89	82	81
8.	821120105008	GUSHENRA PRASATH P	78	88	94	90
9.	821120105010	JENISH A	78	85	79	80
10.	821120105011	KANIMOZHI R	91	100	90	93
11.	821120105012	MANOJ M	88	78	79	94
12.	821120105013	MANOJ R	90	91	78	79
13.	821120105014	MUKESH K	79	89	84	81
14.	821120105015	MUKESH M	90	91	78	78
15.	821120105016	MUKESH V	74	78	75	94
16.	821120105017	PRABATH C L	79	89	84	74
17.	821120105018	PRIYADHARSHINI P	85	84	87	81
18.	821120105019	PRIYADHARSHINI S	90	91	87	82
19.	821120105020	RADHAKRISHNAN R	78	75	79	84

20.	821120105021	RAMACHANDRAN P	78	74	79	82
21.	821120105022	ROHITH R	88	84	87	89
22.	821120105023	SALMAN HUSSAIN Z	89	91	92	94
23.	821120105024	SATHISH S	78	85	89	91
24.	821120105025	SEMILI K	84	85	87	82
25.	821120105026	SIVARANJANI D	91	90	84	79
26.	821120105027	SNEHA P	81	84	82	88
27.	821120105028	SOWMIYA K	83	85	84	89
28.	821120105029	SOWMIYA L	80	87	89	86
29.	821120105030	SUDHARSAN S	90	87	84	86
30.	821120105031	VIJAYARAGAVAN R	80	90	87	82
31.	821120105032	VIJI J	85	84	87	92
32.	821120105033	VIKASH M	84	87	82	86
33.	821120105035	VISALAN M	81	80	84	87
34.	821120105036	VISHWA D	80	82	84	84
35.	821120105037	YOGARAJ P	78	84	87	83
36.	821120105301	AJITHKUMAR R	81	82	84	89
37.	821120105302	KABILAN A	75	79	84	91
38.	821120105303	MANI BHARATHI S	81	84	88	90
39.	821120105304	PRAVEEN KUMAR C	88	79	85	87
40.	821120105306	SIVAMURUGAN.G	79	84	82	87
41.	821120105307	VELMURUGAN K	87	90	92	81

26/5/23

HOD/EEE

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (ODD SEMESTER)

EVALUATION SHEET

Year/Sem: IV/VII **Batch: 2019-2023**

Name of the course: Swayam course on "Electronic Waste Management – Issues and Challenges"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821119105001	BHARANITHARAN.S	85	90	84	87
2.	821119105002	KRISHNA M. E	100	33	90	93
3.	821119105003	PANDIDEVI.P	91	94	92	90
4.	821119105004	PURUSOTHAMAN.R	78	85	84	87
5.	821119105005	RAGUL.V	84	85	84	87
6.	821119105006	REGINA.R	90	68	67	55
7.	821119105008	YUGESHWARAN.B	90	84	87	76
8.	821119105301	SARATHKUMAR.A	78	85	82	84
9.	821119105501	VETRIVEL.K	81	86	84	82

26/12/2023

HOD/EEE

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (ODD SEMESTER)

EVALUATION SHEET

Year/Sem: II/III **Batch: 2021-2025**

Name of the course: Swayam course on "Electronic Waste Management – Issues and Challenges"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821121105001	ABIBHARATHI A	78	85	84	87
2.	821121105002	AKASH P	78	82	84	83
3.	821121105003	ARAVINDHAN R	87	75	79	84
4.	821121105004	DHESINGH J	75	79	82	84
5.	821121105005	GAYATHRI K C	80	85	86	89
6.	821121105006	GOKUL M	89	85	87	82
7.	821121105007	GOPINATH S	91	95	94	82
8.	821121105008	HARISHMA R	84	86	89	80
9.	821121105009	JEGADEESAN R	84	79	75	78
10.	821121105010	KARTHIKEYAN S	75	79	72	74
11.	821121105011	MEENA P	84	85	82	80
12.	821121105012	MILTON INFANT RAI P	91	93	90	82
13.	821121105013	PRAVEEN V C	78	72	71	76
14.	821121105014	RUTHRAN K	90	91	95	94
15.	821121105015	SARAVANAKUMAR M	85	89	82	84
16.	821121105016	SHANMUGAESWARAN S	82	84	90	94
17.	821121105017	SIVANANTHAM S	83	84	87	91
18.	821121105018	SIVANESAN C	82	84	89	93
19.	821121105019	SUJITHA S	82	84	82	86

20.	821121105020	SURIYA G	78	88	82	80
21.	821121105021	THAVATHEESH S	78	80	82	78
22.	821121105022	THUSARI S	85	87	85	83
23.	821121105023	VAISHNAVI V	90	90	78	84
24.	821121105024	VIDHYA M	78	78	80	91
25.	821121105025	VIJAY V	74	75	79	91
26.	821121105027	YOGESH C	88	84	80	86
27.	821121105028	YUVARAJ A	80	80	75	84
28.	821121105302	PANDIYARAJAN R	75	72	79	78
29.	821121105303	PARTHASARATHY B	82	81	79	80
30.	821121105304	PRAGADEESHWARAN S	87	87	80	80
31.	821121105305	UDHAYAM.S	78	89	81	81

26/5/23

HOD/EEE

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022 - 2023 (EVEN)

REPORT ON SWAYAM COURSE

Recent Advances in Transmission Insulators

BENEFICIARIES: IV & III & II YEARS

COURSE OUTCOME

- To introduce students about the introduction, important components of transmission system, insulation coordination, design and selection of insulators for transmission/distribution.
- After successfully completing this short course, students will have an exposure pathway of pollutants emitted from recycling of E - waste.
- They will know about the E - waste management rules of India (2011 and 2016 rules).
- Students will gain knowledge about E-waste management through case studies and unique initiatives implemented globally.

YEAR/SEM: II/III **BATCH: 2021-25** **Class Strength: 31**

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821121105001	ABIBHARATHI A	Registered	Assignment Completed	Completed
2.	821121105002	AKASH P	Registered	Assignment Completed	Completed
3.	821121105003	ARAVINDHAN R	Registered	Assignment Completed	Completed
4.	821121105004	DHESINGH J	Registered	Assignment Completed	Completed
5.	821121105005	GAYATHRI K C	Registered	Assignment Completed	Completed
6.	821121105006	GOKUL M	Registered	Assignment Completed	Completed
7.	821121105007	GOPINATH S	Registered	Assignment Completed	Completed
8.	821121105008	HARISHMA R	Registered	Assignment Completed	Completed
9.	821121105009	JEGADEESAN R	Registered	Assignment Completed	Completed
10.	821121105010	KARTHIKEYAN S	Registered	Assignment Completed	Completed
11.	821121105011	MEENA P	Registered	Assignment Completed	Completed
12.	821121105012	MILTON INFANT RAI P	Registered	Assignment Completed	Completed
13.	821121105013	PRAVEEN V C	Registered	Assignment Completed	Completed
14.	821121105014	RUTHRAN K	Registered	Assignment Completed	Completed
15.	821121105015	SARAVANAKUMAR M	Registered	Assignment Completed	Completed

26/5/23

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Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam

16.	821121105016	SHANMUGAESWARAN S	Registered	Assignment Completed	Completed
17.	821121105017	SIVANANTHAM S	Registered	Assignment Completed	Completed
18.	821121105018	SIVANESAN C	Registered	Assignment Completed	Completed
19.	821121105019	SUJITHA S	Registered	Assignment Completed	Completed
20.	821121105020	SURIYA G	Registered	Assignment Completed	Completed
21.	821121105021	THAVATHEESH S	Registered	Assignment Completed	Completed
22.	821121105022	THUSARI S	Registered	Assignment Completed	Completed
23.	821121105023	VAISHNAVI V	Registered	Assignment Completed	Completed
24.	821121105024	VIDHYA M	Registered	Assignment Completed	Completed
25.	821121105025	VIJAY V	Registered	Assignment Completed	Completed
26.	821121105027	YOGESH C	Registered	Assignment Completed	Completed
27.	821121105028	YUVARAJ A	Registered	Assignment Completed	Completed
28.	821121105302	PANDIYARAJAN R	Registered	Assignment Completed	Completed
29.	821121105303	PARTHASARATHY B	Registered	Assignment Completed	Completed
30.	821121105304	PRAGADEESHWARAN S	Registered	Assignment Completed	Completed
31.	821121105305	UDHAYAM.S	Registered	Assignment Completed	Completed

YEAR SEM: III/ V **BATCH: 2020-24** **Class Strength: 43**

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821120105001	ABINAYASREE J	Registered	Assignment Completed	Completed
2.	821120105002	ABISHEK S	Registered	Assignment Completed	Completed
3.	821120105003	AKASH M	Registered	Assignment Completed	Completed
4.	821120105004	AKILAN D	Registered	Assignment Completed	Completed
5.	821120105005	ARAVINDH A	Registered	Assignment Completed	Completed
6.	821120105006	DHANASREE R	Registered	Assignment Completed	Completed
7.	821120105007	ELANANGAI G	Registered	Assignment Completed	Completed
8.	821120105008	GUSHENRA PRASATH P	Registered	Assignment Completed	Completed
9.	821120105009	JANANI S	Registered	Assignment Completed	Completed
10.	821120105010	JENISH A	Registered	Assignment Completed	Completed
11.	821120105011	KANIMOZHI R	Registered	Assignment Completed	Completed
12.	821120105012	MANOJ M	Registered	Assignment Completed	Completed

Dr.A.ALBERT MARTIN RUBAN, M.E.,Ph.D.,
Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai-613303

13.	821120105013	MANOJ R	Registered	Assignment Completed	Completed
14.	821120105014	MUKESH K	Registered	Assignment Completed	Completed
15.	821120105015	MUKESH M	Registered	Assignment Completed	Completed
16.	821120105016	MUKESH V	Registered	Assignment Completed	Completed
17.	821120105017	PRABATH C L	Registered	Assignment Completed	Completed
18.	821120105018	PRIYADHARSHINI P	Registered	Assignment Completed	Completed
19.	821120105019	PRIYADHARSHINI S	Registered	Assignment Completed	Completed
20.	821120105020	RADHAKRISHNAN R	Registered	Assignment Completed	Completed
21.	821120105021	RAMACHANDRAN P	Registered	Assignment Completed	Completed
22.	821120105022	ROHITH R	Registered	Assignment Completed	Completed
23.	821120105023	SALMAN HUSSAIN Z	Registered	Assignment Completed	Completed
24.	821120105024	SATHISH S	Registered	Assignment Completed	Completed
25.	821120105025	SEMILI K	Registered	Assignment Completed	Completed
26.	821120105026	SIVARANJANI D	Registered	Assignment Completed	Completed
27.	821120105027	SNEHA P	Registered	Assignment Completed	Completed
28.	821120105028	SOWMIYA K	Registered	Assignment Completed	Completed
29.	821120105029	SOWMIYA L	Registered	Assignment Completed	Completed
30.	821120105030	SUDHARSAN S	Registered	Assignment Completed	Completed
31.	821120105031	VIJAYARAGAVAN R	Registered	Assignment Completed	Completed
32.	821120105032	VIJI J	Registered	Assignment Completed	Completed
33.	821120105033	VIKASH M	Registered	Assignment Completed	Completed
34.	821120105035	VISALAN M	Registered	Assignment Completed	Completed
35.	821120105036	VISHWA D	Registered	Assignment Completed	Completed
36.	821120105037	YOGARAJ P	Registered	Assignment Completed	Completed
37.	821120105301	AJITHKUMAR R	Registered	Assignment Completed	Completed
38.	821120105302	KABILAN A	Registered	Assignment Completed	Completed
39.	821120105303	MANI BHARATHI S	Registered	Assignment Completed	Completed
40.	821120105304	PRAVEEN KUMAR C	Registered	Assignment Completed	Completed
41.	821120105305	RAGHUL KRISHNAN	Registered	Assignment Completed	Completed
42.	821120105306	SIVAMURUGAN.G	Registered	Assignment Completed	Completed

26/5/23

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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Kings College of Engineering
Punalkulam

43.	821120105307	VELMURUGAN K	Registered	Assignment Completed	Completed

YEAR SEM: IV/VII **BATCH: 2019-23** **Class Strength: 9**

S. No.	Register No.	Student Name	Swayam Course	Status	Course Completed
1.	821119105001	BHARANITHARAN.S	Registered	Assignment Completed	Completed
2.	821119105002	KRISHNA M. E	Registered	Assignment Completed	Completed
3.	821119105003	PANDIDEVI.P	Registered	Assignment Completed	Completed
4.	821119105004	PURUSOTHAMAN.R	Registered	Assignment Completed	Completed
5.	821119105005	RAGUL.V	Registered	Assignment Completed	Completed
6.	821119105006	REGINA.R	Registered	Assignment Completed	Completed
7.	821119105008	YUGESHWARAN.B	Registered	Assignment Completed	Completed
8.	821119105301	SARATHKUMAR.A	Registered	Assignment Completed	Completed
9.	821119105501	VETRIVEL.K	Registered	Assignment Completed	Completed

26/5/23

HOD/EEE

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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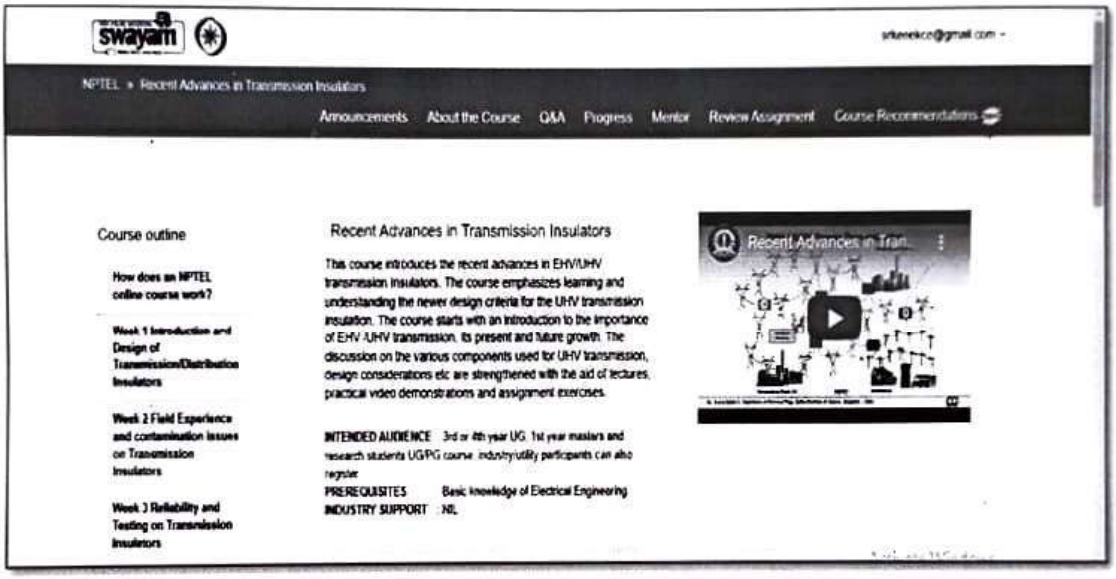
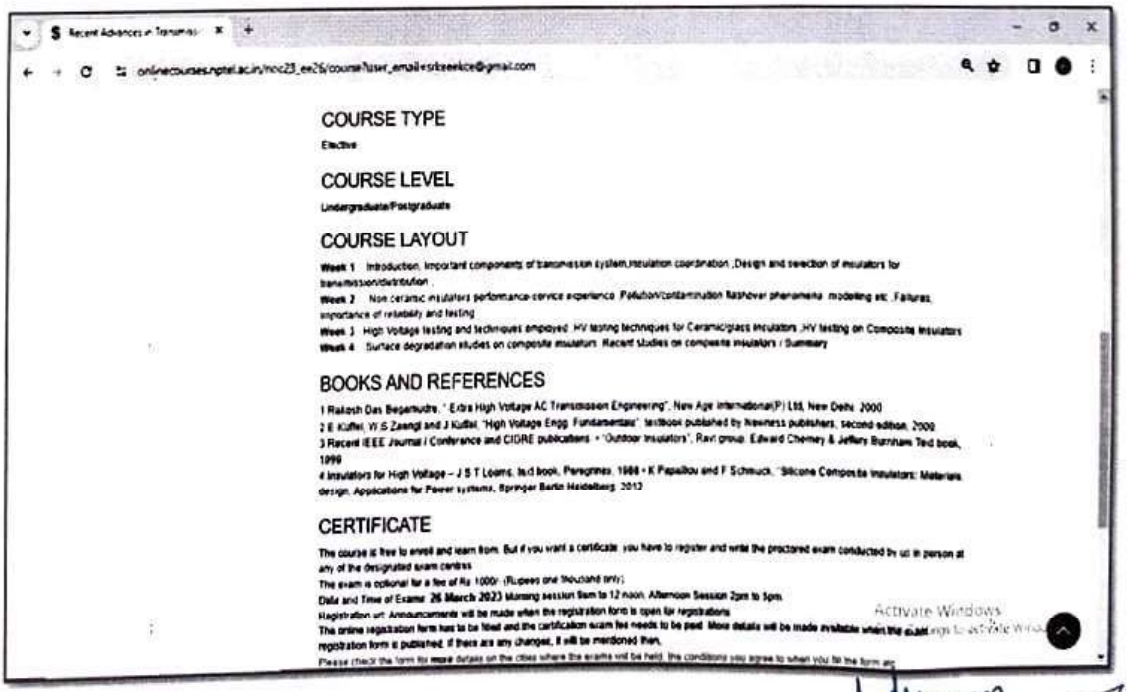
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SYLLABUS

Recent Advances in Transmission Insulators





26/5/23

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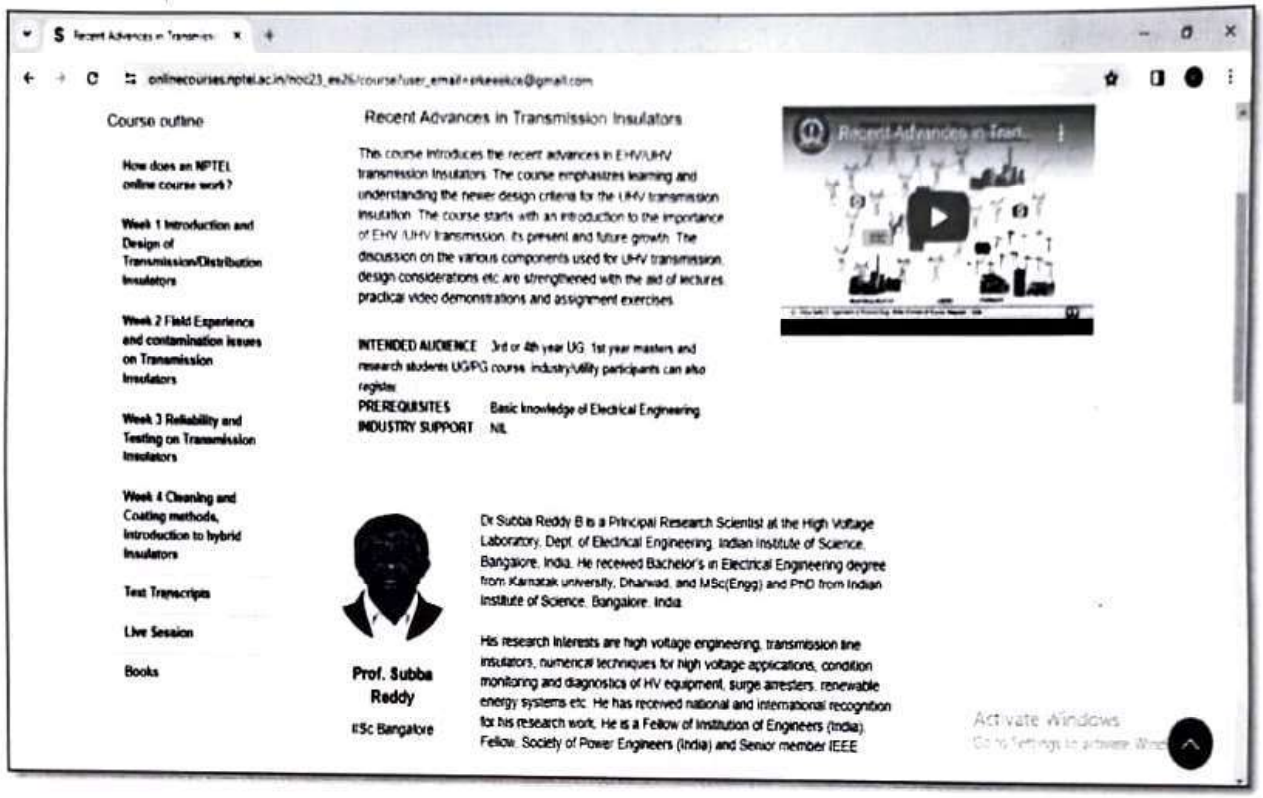

26/5/23
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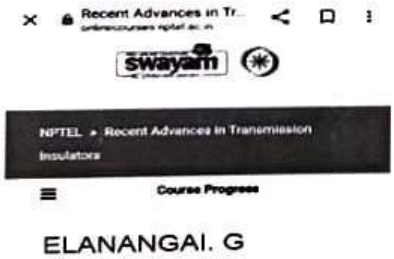
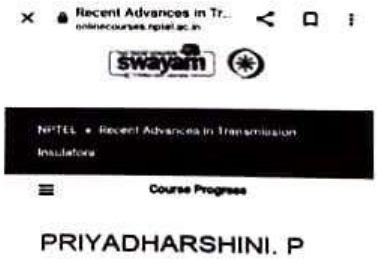
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022 – 2023 (EVEN)

ASSIGNMENT SAMPLES

Name of the Course: Recent Advances in Transmission Insulators





26/5/23

Dr.A.ALBERT MARTIN RUBAN ME., Ph.D.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN SEMESTER)

EVALUATION SHEET

Year/Sem: II/IV **Batch: 2021-2025**

Name of the course: Swayam course on "Recent Advances in Transmission Insulators"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821121105001	ABIBHARATHI A	80	80	74	75
2.	821121105002	AKASH P	78	78	71	70
3.	821121105003	ARAVINDHAN R	68	87	72	74
4.	821121105004	DHESINGH J	78	87	68	74
5.	821121105005	GAYATHRI K C	90	94	94	82
6.	821121105006	GOKUL M	78	75	84	90
7.	821121105007	GOPINATH S	93	94	87	88
8.	821121105008	HARISHMA R	90	90	87	81
9.	821121105009	JEGADEESAN R	78	84	87	80
10.	821121105010	KARTHIKEYAN S	78	89	82	87
11.	821121105011	MEENA P	82	84	87	80
12.	821121105012	MILTON INFANT RAI P	84	86	87	82
13.	821121105013	PRAVEEN V C	78	68	87	80
14.	821121105014	RUTHRAN K	81	87	80	94
15.	821121105015	SARAVANAKUMAR M	78	82	84	79
16.	821121105016	SHANMUGAESWARAN S	98	94	90	74
17.	821121105017	SIVANANTHAM S	78	83	84	87
18.	821121105018	SIVANESAN C	80	84	90	87
19.	821121105019	SUJITHA S	87	82	86	84
20.	821121105020	SURIYA G	74	71	76	80

26/5/23

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21.	821121105021	THAVATHEESH S	87	85	86	82
22.	821121105022	THUSARI S	87	82	84	80
23.	821121105023	VAISHNAVI V	78	72	71	84
24.	821121105024	VIDHYA M	78	84	82	80
25.	821121105025	VIJAY V	75	74	73	70
26.	821121105027	YOGESH C	71	70	69	57
27.	821121105028	YUVARAJ A	81	84	80	64
28.	821121105302	PANDIYARAJAN R	65	71	72	74
29.	821121105303	PARTHASARATHY B	68	74	72	79
30.	821121105305	UDHAYAM.S	75	84	72	65
31.	821121105306	VEERASELVAN. V	70	92	58	70

26/5/23

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN SEMESTER)

EVALUATION SHEET

Year/Sem: III/VI **Batch: 2020-2024**

Name of the course: Swayam course on "Recent Advances in Transmission Insulators"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821120105001	ABINAYASREE J	81	84	80	76
2.	821120105002	ABISHEK S	78	74	73	89
3.	821120105003	AKASH M	82	81	89	74
4.	821120105004	AKILAN D	78	78	86	81
5.	821120105005	ARAVINDH A	85	84	84	83
6.	821120105006	DHANASREE R	74	88	87	84
7.	821120105007	ELANANGAI G	100	82	73	59
8.	821120105008	GUSHENRA PRASATH P	81	82	89	84
9.	821120105010	JENISH A	67	81	82	81
10.	821120105011	KANIMOZHI R	72	83	80	82
11.	821120105012	MANOJ M	84	84	84	83
12.	821120105013	MANOJ R	71	87	83	80
13.	821120105014	MUKESH K	75	79	87	80
14.	821120105015	MUKESH M	79	71	81	78
15.	821120105016	MUKESH V	81	76	74	74
16.	821120105017	PRABATH C L	82	74	79	75
17.	821120105018	PRIYADHARSHINI P	93	85	100	72
18.	821120105019	PRIYADHARSHINI S	80	79	75	76
19.	821120105020	RADHAKRISHNAN R	70	78	87	71
20.	821120105021	RAMACHANDRAN P	76	72	75	72

26/5/23

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Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering
Punalkulam
Pudukkottai 613303

21.	821120105022	ROHITH R	85	75	74	75
22.	821120105023	SALMAN HUSSAIN Z	81	81	79	77
23.	821120105024	SATHISH S	80	82	76	88
24.	821120105025	SEMILI K	86	82	78	81
25.	821120105026	SIVARANJANI D	84	79	81	80
26.	821120105027	SNEHA P	88	91	84	85
27.	821120105028	SOWMIYA K	90	90	86	86
28.	821120105029	SOWMIYA L	91	76	85	89
29.	821120105030	SUDHARSAN S	90	84	80	90
30.	821120105031	VIJAYARAGAVAN R	78	87	79	64
31.	821120105032	VIJI J	75	72	90	78
32.	821120105033	VIKASH M	73	76	74	69
33.	821120105035	VISALAN M	79	79	75	78
34.	821120105036	VISHWA D	81	80	73	74
35.	821120105037	YOGARAJ P	84	81	76	75
36.	821120105301	AJITHKUMAR R	87	74	79	85
37.	821120105302	KABILAN A	64	70	78	81
38.	821120105303	MANI BHARATHI S	79	76	81	80
39.	821120105304	PRAVEEN KUMAR C	80	77	81	86
40.	821120105306	SIVAMURUGAN.G	82	74	80	82
41.	821120105307	VELMURUGAN K	85	87	68	90

26/5/23

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN SEMESTER)

EVALUATION SHEET

Year/Sem: IV/VIII **Batch: 2019-2023**

Name of the course: Swayam course on "Recent Advances in Transmission Insulators"

Roll No	Register No	Name of the Student	Assignment Score			
			1	2	3	4
1.	821119105001	BHARANITHARAN.S	78	84	85	80
2.	821119105002	KRISHNA M. E	90	72	78	50
3.	821119105003	PANDIDEVI.P	88	85	87	89
4.	821119105004	PURUSOTHAMAN.R	90	84	87	82
5.	821119105005	RAGUL.V	71	78	84	80
6.	821119105006	REGINA.R	90	91	87	82
7.	821119105008	YUGESHWARAN.B	78	78	79	80
8.	821119105301	SARATHKUMAR.A	84	83	87	80
9.	821119105501	VETRIVEL.K	68	79	80	81

26/5/23

Dr.A.ALBERT MARTIN RUBAN,ME.,Ph.D.,
Head of the Department
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Kings College of Engineering
Punalkulam
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DEPARTMENT OF MECHANICAL ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

ADD ON PROGRAMS / CERTIFICATION COURSE DURING THE YEAR

S.No	Name of the Program	Duration	Beneficiaries
	2022-23 (ODD SEM)		
1	Value Added Course on " Smart Materials and Structures"-III Year	30 Hours	78
2	Bridge Course on " Heat ventilation & Air Conditioning (HVAC)" – III Year	30 Hours	78
3	Bridge Course on " Advanced Engineering Materials and Its Applications" – II Year	30 Hours	49
4	Refresher Course on "CAD/CAM" – IV Year	30 Hours	45
5	MHRD Sponsored IIT Bombay Certification Course on "Scilab"-II Year	30 Hours	49
6	MHRD Sponsored IIT Bombay Certification Course on "Openfoam"-III year	30 Hours	78
7	MHRD Sponsored IIT Bombay Certification Course on "Latex"-IV Year	30 Hours	45

T. Purushothaman 29/12/22
HoD/MECH
H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

AFFILIATED INSTITUTIONS

FACULTY OF MECHANICAL ENGINEERING

LIST OF VALUE ADDED COURSES

SL. NO.	CODE ALLOTTED	TITLE	CREDITS
1.	MVA001	Small Unmanned Aerial Vehicle (sUAV) - Drone	2 credit
2.	MVA002	3D Printing	2 credit
3.	MVA003	Elements of Automation and Process Control	1 credit
4.	MVA004	Geometric Dimensioning and Tolerancing	2 credit
5.	MVA005	Smart Materials and Structures	2 credit
6.	MVA006	Green Energy Technologies and Management	2 credit
7.	MVA007	Automation Suite for Smart Systems	2 credit
8.	MVA008	Internet of Things Applications in Mechanical Engineering	1 credit
9.	MVA009	Surface Coating Technology	2 credit
10.	MVA010	Energy Resources and Management	2 0 0 2
11.	MVA011	Modeling for Design Engineers	2 0 0 2
12.	MVA012	Basic Concept of HVAC Designing and Drafting	2 0 0 2
13.	MVA013	Robotics Process Automation	2 0 0 2
14.	MVA014	Welding and Inspection Techniques	2 0 0 2
15.	MVA015	Modern Trends in Refrigeration and Air Conditioning	2 0 0 2
16.	MVA016	Finite Element Meshing Techniques	2 0 0 2
17.	MVA017	Nanoscience and Technology	2 0 0 2
18.	MVA018	Plant Design Management System	2 0 0 2
19.	MVA019	Technology for Energy Storage	2 0 0 2
20.	MVA020	Modeling Practice for Automotive Assemblies	2 0 0 2
21.	MVA021	Modeling and Machining Practice for CNC Machines	2 0 0 2

24/9/202

DIRECTOR (CAC)

23/9/202

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Dr. J. ArputhaVijayaSelvi, M.E., Ph.D.,
PRINCIPAL

Ref: KCE / PRI / VAC/320/22-23 21.07.2022

To
The Director,
Center for Academic Courses,
Anna University,
Chennai.

Respected Sir,

Sub: Requisition for approving the Value Added Course on **MVA005 SMART MATERIALS AND STRUCTURES** for the batch of 2020 – 2024 -reg

As per the AU Regulation 2017, the Mechanical department of our college has planned to conduct Value Added Course with 2 credits on the topic of **MVA005 SMART MATERIALS AND STRUCTURES** for the batch 2020 -2024 having the strength of 76 students. Herewith the syllabus is enclosed. We request you to kindly approve the course and its syllabus. With your consent, we will organize the course during the current academic session (2022 - 2023 Odd Semester).

Thanking You

21/7/2022

Yours faithfully,
PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303.

KINGS COLLEGE OF ENGINEERING
PUNALKULAM 613 303.

Encl:

i) Syllabus

Copy to
The Controller of Examinations, Anna University, Chennai – 600025

Off: 22357077 / 73
22357074
Fax / Dir : 22352272

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
CHENNAI – 600 025

Dr. S. HOSIMIN THILAGAR
DIRECTOR
Letter No.4422/AU/VA/CAC/2022

08.11.2022

296
14 NOV 2022
HOD/MECH.

To HOD/Mech.
S. Hosimin
14/11/2022

To
The Controller of Examinations
Anna University
Chennai - 25

Sir,

Sub : A.U. - CAC - Affiliated Institutions - Value Added Course - Reg.
Ref : 1. Letter No.KCE/PRL/VAC/320/22-23 dated:21.07.2022.
2. E-mail received on 03.11.2022.

******

With reference to the letter cited, the following Value Added Course offered by Kings College of Engineering, Pudukkottai District, Affiliated Institutions is allotted the course code as detailed below.

SL.No	Code Allotted	Title	Credit
1.	MVA005	Smart Materials and Structures	2

This is for your kind information and necessary action at your end.

Yours faithfully,

8/11/22
DIRECTOR I/c

Copy to:
1. The Chairperson, Faculty of Mechanical Engineering, A.U., Chennai -25.
2. The Principal, Kings College of Engineering, Punalkulam, Gandarvakottai Taluk, Pudukkottai District – 613 303.
3. The Stock File – CAC

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MVA 005 SMART MATERIALS AND STRUCTURES

YEAR/SEMESTER: III/V

PREPARED BY

D. Balaji / AP, Mech.

MVA 005	SMART MATERIALS AND STRUCTURES	L T P C
		2 0 1 2

UNIT I PROPERTIES OF MATERIALS & ER AND MR FLUIDS 15

Introduction - Piezoelectric Materials and properties - Actuation of structural componen Shape Memory Alloys, Electro rheological and magneto rheological fluids - Mechanisms Properties - Fiber Optics - Fibre characteristics - Fiber optic strain sensors, Introduction to FGM Structures - Processing & Characterization of FGM Materials sector and its planning in India.

UNIT II MEASURING TECHNIQUES & CONTROL OF STRUCTURES 8

Strain measuring techniques using electrical strain gauges - Types - Resistance - Capacitance - Inductance - Wheatstone bridges - Pressure transducers - Load cells — Temperatu Compensation - Strain Rosettes- Control modeling of structures - Control strategies and limitation Classification of control systems.

UNIT III APPLICATIONS 7

Application of shape memory - Concept of smart bridges - Application of ER fluids -Application of M dampers in different structures - Application of MR dampers in Mechanical Structures - Structur health monitoring - Application of optical fibers.

TOTAL: 30 PERIODS

SIGNATURE
OF STAFF INCHARGE

HOD/MECH

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CERT ISO 9001

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE PLAN

Sub. Code	: MVA 005	Branch / Year / Sem:	B.E. Mech /III/V
Sub. Name	: Smart Materials and Structures	Batch	: 2020-2024
Staff Name	: D. Balaji	Academic Year	: 2022-23 (ODD)

COURSE OBJECTIVE

- To describe the basic principles and mechanisms of smart materials and devices.
- To enhance the knowledge of physical principles underlying the behavior of smart materials.
- To understand the basic principles in smart sensors, actuators and transducer technology and mechanisms of measuring techniques with applications.

REFERENCE BOOKS

R1. Srinivasan, A.V. and Michael McFarland. D., "Smart Structures - Analysis and Design", Cambridge University Press, 2001.

R2. Brian Culshaw, "Smart Structures and Materials", Artech House, Boston, 1996.

WEB RESOURCES

W1. https://nptel.ac.in/courses/112104173 **(Topic No 02)**

W2. https://www.slideshare.net/deepika46/smart-materials-39205546 **(Topic No 05)**

W3.https://web.stanford.edu/group/mota/education/Physics%2087N%20Final%20Projects/Delta_SmartMaterials.ppt **(Topic No07)**

W4. https://www.digitalxplore.org/up_proc/pdf/319-15070244365-7.pdf **(Topic No 10)**

W5. https://www.researchgate.net/publication/Smart_materials_A_review **(Topic No 11)**

W6 https://web.stanford.edu/Physics%20Projects/Delta_SmartMaterials.ppt **(Topic No 14)**

W7 https://www.oldburywells.com/media/22295/l4-smart-materials.pptx **(Topic No 17)**

W8 https://www.academia.edu/35728667/SMART_CONSTRUCTION_MATERIALS **(Topic No 19)**

W9 https://iopscience.iop.org/article/10.1088/1757-899X/958/1/012006/pdf **(Topic No 21)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I PROPERTIES OF MATERIALS & ER AND MR FLUIDS						(15)
1	Introduction	R2	9-14	BB	1	1
2	Piezoelectric Materials	R2,W1	17-22	BB	1	2
3	Piezoelectric Properties	R1,	23-24	BB	1	3
4	Actuation of structural components	R1	91-110	BB	1	4
5	Shape Memory Alloys	R1, W2	113-116	BB	2	6
6	Electro rheological fluids	R1	117-122	BB	1	7
7	Magneto rheological fluids	R2,W3	155-160	BB	1	8
8	Mechanisms and Properties	R1	152-153	BB	1	9
9	Fiber Optics and characteristics	R2	156-157	BB	2	11
10	Fiber optic strain sensors	R1,W4	157-166	BB	1	12
11	Introduction to FGM Structures	R1,W5	197-204	BB	1	13
12	Processing and Characterization of FGM Materials	R2	208-210	BB	2	15
LEARNING OUTCOME At the end of unit, students should be able to • Classify various smart materials and devices. • Understand the concept of smart materials. • Formulate analytical approach on vibration absorbers.						
UNIT II MEASURING TECHNIQUES & CONTROL OF STRUCTURES						(8)
13	Strain measuring techniques using electrical strain gauges	R1	221-223	BB	1	16
14	Types - Resistance-Capacitance -Inductance, Wheatstone bridges	R1, W6	206-230	BB,PPT	2	18
15	Pressure transducers - Load cells	R1	270-274	BB	1	19
16	Temperature,Compensation - Strain Rosettes	R1	232-244	BB	2	21
17	Control modeling of structures - Control strategies	R1, W7	277-292	BB	1	22
18	Classification of control systems	R1	293-302	BB PPT	1	23

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the smart structures
- Understand the concept of measuring techniques.
- Understands the structure of smart materials.

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	UNIT III APPLICATIONS					(7)
19	Application of shape memory	R1, W8	117-122	BB PPT	2	25
20	Concept of smart bridges	R1	117-118	BB	1	26
21	Application of ER fluids and MR dampers	R1,W9	204-205	BB	2	28
22	Structural health monitoring	R1	216-220	BB	1	29
23	Application of optical fibers	R1	260-270	BB	1	30

LEARNING OUTCOME

At the end of unit, students should be able to

- Knowledge about application of smart materials.
- Knowledge about smart fluids.
- Knowledge about application of optical fiber.

COURSE OUTCOME

At the end of the course, the students will be able to

1. Classify various smart materials and devices.
2. Formulate analytical approach on vibration absorbers.
3. Demonstrate strain measurement using smart materials.
4. Develop control strategies for smart structures, dampers for health monitoring of structures.

CONTENT BEYOND THE SYLLABUS

1. Magnetic Ferro fluid.
2. Hydraulic energy

INTERNAL ASSESSMENT DETAILS

TEST NO.	I	II
Topic Nos.	1-12	13-23
Date		

25/8/22

Prepared by
D.Balaji

29/8/2022.

Approved by
PRINCIPAL

29/8

Verified By
HOD/Mechanical

Verified 29/8/22

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE (AUG 2022 – NOV 2022, ODD SEM)

B.E – MECH (R2017)

Batch:2020-2024 | Year: III-A | Semester: V | Class Room :209 | Strength:38 | Block: II

Session	1	2	10.45am - 11.00am	3	4	12.30pm - 01.10pm	5	6	2.40 pm – 2.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55 pm - 02.40 pm		2.50 pm - 3.35 pm	03.35 pm - 04.20pm
MON	ME8512 ME8511		BREAK	ME8512 (B1) ME8511 (B2)		LUNCH BREAK	ME8593	ME8501	BREAK	ME8594	OAT552
TUE	ME8501	ME8593		OAT552	ME8595		ME8513 ME8511			ME8513 (B2) ME8511 (B1)	
WED	ME8595	ME8594		ME8593	T&P (SS)		ME8512 ME8513			ME8512 (B2) ME8513 (B1)	
THU	ME8594	ME8595		OAT552	ME8594		T&P (A)	LIB/NET		ME8593	OAT552
FRI	ME8501	OAT552		ME8595	ME8593		ME8501	ME8501		ME8595	ME8594
SAT	GATE	GATE		VAC	VAC		ME8594	VAC		VAC	SWAYAM

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), ELECTIVE (E)						
ME8595	Thermal Engineering II	PC	3	Mr. V. Aravind	MECH	5
ME8593	Design of Machine Elements	PC	3	Mr. M. Sakthivel	MECH	5
ME8501	Metrology & Measurements	PC	3	Mr.S.Sabanayagam	MECH	5
ME8594	Dynamics of Machines	PC	4	Mr. M. Vivekananthan	MECH	6
OAT552	Internal Combustion Engines	OE	3	Mr. S. Balaganesh	MECH	5
PRACTICAL (P)						
ME8511	Kinematics & Dynamics Laboratory	PC	2	Mr. M. Sakthivel	MECH	4
ME8512	Thermal Engineering Laboratory	PC	2	Mr. V. Aravind	MECH	4
ME8513	Metrology and Measurements Laboratory	PC	2	Mr. S. Balaganesh	MECH	4
COMPETENCY DEVELOPMENT CLASSES (CDC)						
GATE	GATE Coaching	VAI		Mr. R. Rajadurai	MECH	2
LIB/NET	Library/Internet	VAI		Mr. S. Sabanayagam	MECH	1
NPTEL	SWAYAM/NPTEL	VAI		Mr. S. Sabanayagam	MECH	1
T&P(A)	Training and Placement (Aptitude)	VAI		Dr.B.Baran Kumar	T&P	1
T&P (SS)	Training and Placement (Soft Skill)	VAI		Dr.K Sudhakar	T&P	1
VAC	Value Added Course on "Smart Materials and Structures"	VAI		Mr. S. Sabanayagam	MECH	4

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr. S. Sabanayagam	V. Durairaj	11
CLASS COMMITTEE CHAIR PERSON	Mr. D. Balaji	

DEPT TTC | HOD/MECH | PRINCIPAL

Format:QP06

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE (AUG 2022- DEC 2022, ODD SEM)

B.E – MECH (R2017) - With Effect from 10.08.22 Tentative Last working day 19.11.22

Batch:2020-2024 Year: III-B Semester: V Class Room :208 Strength:38 Block: II

Session	1	2	10.45am - 11.00am	3	4	12.30pm - 01.10pm	5	6	2.40 pm - 2.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55 pm - 02.40 pm		2.50 pm - 3.35 pm	03.35 pm - 04.20pm
MON	ME8595	ME8594	BREAK	ME8593	OAT552	LUNCH BREAK	ME8512 ME8511		BREAK	ME8512 (B1) ME8511 (B2)	
TUE	ME8594	ME8501		ME8595	T&P (SS)		ME8593	OAT552		ME8595	ME8501
WED	ME8501	ME8593		ME8594	ME8595		OAT552	ME8593		ME8501	OAT552
THU	ME8595	ME8594		ME8501	ME8593		ME8512 ME8513			ME8512 (B2) ME8513 (B1)	
FRI	ME8513 ME8511			ME8513 (B2) ME8511 (B1)			T&P (A)	LIB/NET		ME8594	OAT552
SAT	GATE	GATE		VAC	VAC		VAC	ME8594		VAC	SWAYAM

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), ELECTIVE (E)						
ME8595	Thermal Engineering II	PC	3	Mr. H. Agilan	MECH	5
ME8593	Design of Machine Elements	PC	3	Mr. S. Nelson Raja	MECH	5
ME8501	Metrology & Measurements	PC	3	Mr. D. Balaji	MECH	5
ME8594	Dynamics of Machines	PC	4	Mr. S. Desikan	MECH	6
OAT552	Internal Combustion Engines	OE	3	Dr. PP. Shantharaman	MECH	5
PRACTICAL (P)						
ME8511	Kinematics & Dynamics Laboratory	PC	2	Mr. D. Balaji	MECH	4
ME8512	Thermal Engineering Laboratory	PC	2	Mr.R.Rajadurai	MECH	4
ME8513	Metrology and Measurements Laboratory	PC	2	Mr. M. Vivekananthan	MECH	4
COMPETENCY DEVELOPMENT CLASSES (CDC)						
GATE	GATE Coaching	VAI		Mr. M. Melwin J Sridhar	MECH	2
LIB/NET	Library/Internet	VAI		Mr. H. Agilan	MECH	1
NPTEL	SWAYAM/NPTEL	VAI		Mr. H. Agilan	MECH	1
T&P(A)	Training and Placement(Aptitude)	VAI		Ms.P.Suganya	T&P	1
T&P(SS)	Training and Placement (Soft Skill)	VAI		Mr.R.Suresh Babu	T&P	1
VAC	Value Added Course on "Smart Materials and Structures"	VAI		Mr. H. Agilan	MECH	4

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr. H. Agilan	S.Balaji	28
CLASS COMMITTEE CHAIR PERSON	Mr. V. Aravind	

DEPT TTC

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST I - VALUE ADDED COURSE

Class : III A Sec
Date : 24.09.2022
Course : MVA005 - SMART MATERIALS AND STRUCTURES

S. No	Reg. No	Name of the Student	Marks (100)
1	821120114001	Aadhikarunesan M	87
2	821120114003	Akash M	89
3	821120114004	Anbarasan V	88
4	821120114005	Arun E	85
5	821120114006	Arunkumar M	83
6	821120114007	Arunkumar P	82
7	821120114008	Arunkumar S	92
8	821120114009	Backiyaraj S	80
9	821120114010	Bharani S	86
10	821120114012	Dhivakar K	87
11	821120114013	Durairaj V	85
12	821120114014	Eraniyan K	84
13	821120114015	Gnanasekaran S	91
14	821120114016	Hariharan K	84
15	821120114017	Hari prasath R	94
16	821120114018	Hemanathan E	83
17	821120114020	Jayasriram V	87
18	821120114021	Jayasurya K	87
19	821120114022	Jaysrirajan A	83
20	821120114023	Jegan K	83
21	821120114025	Keerthivasan K	81
22	821120114026	Lalithkumar E	81
23	821120114027	Manibharathi V	83
24	821120114029	Manojkumar R	81
25	821120114315	Madheshwaran K	89
226	821120114316	Madhu mithiran S	81
27	821120114317	Mahendran M	83
28	821120114318	Prakash K	81
29	821120114319	Praveenkumar R	92
30	821120114320	Rakesh A	89
31	821120114321	Ramprasad K	85
32	821120114322	Sakthi ganesh G S	86
33	821120114323	Sanjay N	87
34	821120114324	Santhosh R	89
35	821120114325	Santhosh kumar P	83
36	821120114326	Sathishkumar V	85
37	821120114327	Subakaran K	83
38	821120114328	Suryabala N	85
39	821120114702	Sakthivel B	90

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DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST I - VALUE ADDED COURSE

Class : III B Sec

Date : 24.09.2022

Course : MVA005 - SMART MATERIALS AND STRUCTURES

S. No	Reg. No	Name of the Student	Marks (100)
1	821120114030	Maran R	90
2	821120114031	Misfar M	92
3	821120114032	Mohamed Arsath A	90
4	821120114033	Mohamed Rilwan H	88
5	821120114034	Praveenkumar M	86
6	821120114035	Pravin M	84
7	821120114036	Rajesh N	95
8	821120114037	Ramprasath R	83
9	821120114038	Sakthivel E	88
10	821120114039	Samikkannan M	90
11	821120114040	Santhosh R	88
12	821120114041	Santhoshkumar C	86
13	821120114042	Saravanan A	94
14	821120114043	Selvamani K	87
15	821120114044	Shanmugabharathi S	96
16	821120114045	Srikumar S	86
17	821120114046	Subash P	90
18	821120114047	Sulthan abdul kadher R	90
19	821120114048	Thangapandiyan S	85
20	821120114049	Vasanth M	86
21	821120114050	Veeramageswaran R	84
22	821120114051	Vikram S	84
23	821120114052	Vimalraj P	85
24	821120114053	Vivek A	84
25	821120114054	Vivek K	92
26	821120114301	Abinesh V	84
27	821120114302	Abishkar SV	85
28	821120114304	Aravinthakumar T	84
29	821120114305	Balaji S	95
30	821120114306	Harish ragavendra M	92
31	821120114307	Jahanraj J	87
32	821120114308	Kabil V	89
33	821120114309	Kabilan G	90
34	821120114310	Kabilan M	92
35	821120114311	Keerthivasan R	85
36	821120114312	Kishorekumar R	88
37	821120114313	Kishore kumar V	86
38	821120114314	Lenin kumar S	88
39	821120114701	Devaprasanth N	96

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COURSE INCHARGE

T. Pinkamy

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DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST II - VALUE ADDED COURSE

Class : III B Sec
Date : 29.10.2022
Course : MVA005 - SMART MATERIALS AND STRUCTURES

S. No	Reg. No	Name of the Student	Marks (100)
1	821120114030	Maran R	92
2	821120114031	Misfar M	94
3	821120114032	Mohamed Arsath A	93
4	821120114033	Mohamed Rilwan H	90
5	821120114034	Praveenkumar M	87
6	821120114035	Pravin M	86
7	821120114036	Rajesh N	96
8	821120114037	Ramprasath R	85
9	821120114038	Sakthivel E	91
10	821120114039	Samikkannan M	92
11	821120114040	Santhosh R	90
12	821120114041	Santhoshkumar C	87
13	821120114042	Saravanan A	96
14	821120114043	Selvamani K	89
15	821120114044	Shanmugabharathi S	97
16	821120114045	Srikumar S	88
17	821120114046	Subash P	92
18	821120114047	Sulthan abdul kadher R	91
19	821120114048	Thangapandiyan S	87
20	821120114049	Vasanth M	88
21	821120114050	Veeramageswaran R	87
22	821120114051	Vikram S	86
23	821120114052	Vimalraj P	87
24	821120114053	Vivek A	87
25	821120114054	Vivek K	94
26	821120114301	Abinesh V	86
27	821120114302	Abishkar SV	88
28	821120114304	Aravinthakumar T	86
29	821120114305	Balaji S	97
30	821120114306	Harish ragavendra M	95
31	821120114307	Jahanraj J	89
32	821120114308	Kabil V	91
33	821120114309	Kabilan G	91
34	821120114310	Kabilan M	94
35	821120114311	Keerthivasan R	87
36	821120114312	Kishorekumar R	91
37	821120114313	Kishore kumar V	88
38	821120114314	Lenin kumar S	90
39	821120114701	Devaprasanth N	97

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DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST II - VALUE ADDED COURSE

Class : III A

Date : 29.10.2022

Course : MVA005 - SMART MATERIALS AND STRUCTURES

S. No	Reg. No	Name of the Student	Marks (100)
1	821120114001	Aadhikarunesan M	90
2	821120114003	Akash M	92
3	821120114004	Anbarasan V	91
4	821120114005	Arun E	88
5	821120114006	Arunkumar M	85
6	821120114007	Arunkumar P	84
7	821120114008	Arunkumar S	94
8	821120114009	Backiyaraj S	83
9	821120114010	Bharani S	89
10	821120114012	Dhivakar K	90
11	821120114013	Durairaj V	88
12	821120114014	Eraniyan K	85
13	821120114015	Gnanasekaran S	94
14	821120114016	Hariharan K	87
15	821120114017	Hari prasath R	95
16	821120114018	Hemanathan E	86
17	821120114020	Jayasriram V	90
18	821120114021	Jayasurya K	89
19	821120114022	Jaysrirajan A	85
20	821120114023	Jegan K	86
21	821120114025	Keerthivasan K	85
22	821120114026	Lalithkumar E	84
23	821120114027	Manibharathi V	85
24	821120114029	Manojkumar R	85
25	821120114315	Madheshwaran K	92
26	821120114316	Madhu mithiran S	84
27	821120114317	Mahendran M	86
28	821120114318	Prakash K	84
29	821120114319	Praveenkumar R	95
30	821120114320	Rakesh A	93
31	821120114321	Ramprasad K	87
32	821120114322	Sakthi ganesh G S	89
33	821120114323	Sanjay N	89
34	821120114324	Santhosh R	92
35	821120114325	Santhosh kumar P	85
36	821120114326	Sathishkumar V	89
37	821120114327	Subakaran K	86
38	821120114328	Suryabala N	88
39	821120114702	Sakthivel B	95

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 / ODD SEMESTER

VALUE ADDED COURSE REPORT

As per Anna university curriculum, a value addition initiative course on "smart materials and structures" has been conducted for third year students on Saturdays, which enhanced the students' knowledge about different normal and abnormal behavior of certain materials (smart materials) and their engineering applications. Two assessments have been conducted for evaluation of the course. For all passed students, the E- certificate has been issued through the mail.

COURSE DETAILS

Course code & Name: MVA005 – Smart Materials and Structures

Year / Semester: III / V A & B section

Course duration: 27.08.2022 to 22.10.2022 (30 Periods)

No of students enrolled: 78

No of students completed the course: 78

Course Instructor: Mr. S. Sabanayagam (A-sec)

Mr. H. Agilan (B-sec)

Course Incharge: Mr. D. Balaji

Course Credit Points: 2

COURSE OBJECTIVES

- To describe the basic principles and mechanisms of smart materials and devices.
- To enhance the knowledge of the physical principles underlying the behavior of smart materials.
- To understand the basic principles in smart sensors, actuators and transducer technology and mechanisms of measuring techniques with applications.

COURSE OUTCOMES:

Upon the completion of this course the students will be able to

1. Classify various smart materials and devices.

2. Formulate an analytical approach on vibration absorbers.

3. Demonstrate strain measurement using smart materials.

4. Develop control strategies for smart structures, dampers for health monitoring of structures.

COURSE SCREENSHOTS

Mr. S. Sabanayagam and Mr. H. Agilan handled the sessions of "Smart materials and structures" in different days

FEEDBACK

Feedback has been collected from the students at the end of sessions

FEEDBACK	Excellent	Very Good	Good	Fair	Satisfactory
Course content	42	25	11	-	-
Skill development	45	28	5	-	-
Motivation	44	29	5	-	-
Regularity & punctuality	42	32	4	-	-
Coverage of syllabus	47	31	0	-	-
Interaction	48	27	3	-	-
Individual attention	49	25	4	-	-
Outcome	45	28	5	-	-

SAMPLE CERTIFICATES

KINGS

[E - CERTIFICATE]

This is to certified that

Mr. Ramprasab R

has successfully completed the Value Added Course (2 Credits) MVA005 – Smart Materials and Structures required course of study approved by the Anna University for the fifth semester on Third year Mechanical Engineering.

KINGS

[E - CERTIFICATE]

This is to certified that

Mr. Akash M

has successfully completed the Value Added Course (2 Credits) MVA005 – Smart Materials and Structures required course of study approved by the Anna University for the fifth semester on Third year Mechanical Engineering.

Staff Incharge
Mr. D.Balaji

HOD/Mech 21/11/22
Dr.T.Pushparaj

22/11/2022
Principal
Dr.J.Arputha Vijaya Selvi

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ISO 9001

Department of Mechanical Engineering

Academic year 2022-23 ODD /Batch:2020-24

BRIDGE COURSE SYLLABUS

HEATING VENTILATION AND AIR CONDITIONING

Course Objectives:

- The course aims to emphasize the importance of heating and ventilation systems.
- This program includes heating, ventilation and air conditioning.
- Graduates will possess the skills necessary to obtain an entry-level HVAC Technicianposition.
- GraduateswillhaveanunderstandingofsafeHVACpracticesandhowimportantthey are in the HVAC environment.
- Graduates will understand the importance of professional behavior and life-long learning, and will meet the challenges of continued technological growth within the field.

UNIT I INTRODUCTION TO HVAC

Fundamentals-Modes of Heat Transfer-Sensible Heat and Latent Heat-Basic Components of Air-Conditioning and Refrigeration machines-Basic Refrigeration SystemorVaporCompressionCycle-Pressure–EnthalpyChart-Function&TypesofCompressor-

UNIT II CLASSIFICATION OF AIR-CONDITIONING SYSTEM

Window A/C-Working of Window A/C with Line Diagrams-Split A/C-Types - Working of Split A/C with Line Diagrams-Ductable Split A/C- Working of Ductable Split A/C with Line Diagrams-Variable Refrigerant Volume (VRV)/ Variable Refrigerant Flow (VRF)-Ductable Package A/C-Working of Ductable Package A/C with Line Diagrams

UNIT III STUDY OF PSYCHROMETRIC CHARTS

Dry Bulb Temperature-Wet Bulb Temperature-Dew Point Temperature-Relative Humidity-Humidity Ratio-Processes, Heating, Cooling, Cooling and Dehumidification, Heating and Humidification

UNIT IV LOADCALCULATION

Survey of Building-Cooling Load Steps-FindingTemperature difference(ΔT)- Wall, Glass, Roof, partition-Finding 'U' Factor-Wall, Glass, Roof, Partition-Finding Ventilation.

UNIT V STATIC PRESSURE CAL

Selection Of Motor HP-Selection Fan/Blower RPM-Hydronic System-Classificationofwaterpiping-Pipesizingforchillwatersystem-Fittingsusedinthehvac Piping System-Valves Used In The HVAC Piping System-Function Of Valves-Openings .

REFERENCES:

1. HVAC Fundamentals Volume-I / James E. Brumbou / Audel / 4Edition
2. Fundamentals of HVAC Systems / Robert Mcdowall / Academic Press /2007
3. Home Heating & Air Conditioning systems / James Kittle /MGH
4. HVAC Fundamentals / Samuel C. Sugarman / Fairmont Press /2005.

Course Outcomes:

- Students will assist in the installations of Heating, Air Conditioning and Refrigerationequipment.
- Perform preventive maintenance on heating and air conditioning systems.
- Students will identify site hazards.
- The student shall understand the principles and working HVAC systems.
- To be able to study and analyze psychometric chart in refrigeration systems. Developproblem solving skills through the application of thermodynamics.

Course in charge

HoD/Mechanical

H.O.D

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

ACTION PLAN FOR BRIDGE COURSE

Name of the Course : BRIDGE COURSE
Batch : 2020-2024
Year / Semester : III / V
Staff In charge : Mr. V.Aravind&Mr.S.Balaganesh

S.No	Topics	Hours Planned	Cumulative Hours
1	Introduction to Syllabus, Subjects and Question Pattern.	1	1
2	Fundamentals-Modes of Heat Transfer-Sensible Questions, Discussion	2	3
3	Components of Air-Conditioning and Refrigeration Questions, Discussion.	2	5
4	Window A/C-Working of Window A/C with Line Diagrams ,Questions, Discussion	2	7
5	-Variable Refrigerant Volume (VRV)/ Variable Refrigerant Flow (VRF) Questions, Discussion	2	9
6	Ductable Package A/C-Working of Ductable Package A/C with Line Diagrams Questions, Discussion	2	11
7	Dry Bulb Temperature Questions, Discussion	1	12
8	Dehumidification, Heating and Humidification Questions, Discussion	2	14
9	Mock Test-I	3	17
10	Wall, Glass, Roof, partition Questions, Discussion	1	18
11	Engineering Metallurgy Questions, Discussion	1	19
12	Finding 'U' Factor-Wall Questions, Discussion	2	21

S.No	Topics	Hours Planned	Cumulative Hours
13	Piping System-Valves Questions, Discussion	1	22
14	Selection Of Motor HP-Selection Questions, Discussion	2	24
15	Revision	2	26
16	Mock Test-II	3	29
17	Feedback	1	30

Staff In-Charge

HoD/MECH

H.O.D
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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022 – 2023 ODD SEMESTER

BRIDGE COURSE ON "HVAC SYSTEMS"

The Department of Mechanical Engineering conducted the bridge course on Heating Ventilation and Air Conditioning (HVAC) system for III Year students on 01.08.2022. (2020 -2024 Batch)

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the students knowledge, Basic HVAC systems taken as bridge course for the Third year students.

COURSE MAPPING

In regulation 2017 syllabus, Design of machine elements and Thermal Engineering-II subject and Thermal Engineering-II lab are found in 3rd year(fifth semester). Thermal Engineering-II lab deals with basics of heat flow concepts which will be implemented in HVAC systems. To understand the working environment of HVAC systems should be known to the students. Thus the "Basic HVAC systems" was taken as bridge course for III year students.

SESSION DETAILS

Mr.V.Aravind, AP/Mech and Mr.S.Balaganesh, AP/Mech , handled the session for III year students. Mr.V.Aravind discussed about the HVAC systems& Design details for Air Handling Unit(AHU) &Fan Coil Unit(FCU). He described the process of installing an HVAC systems.

Mr.S.Balaganesh AP/Mech explained the functions of Air Handling Unit (AHU)& Fan Coil Unit(FCU). He demonstrated the usage of Air Handling Unit(AHU)& Fan Coil Unit(FCU) and the output was shown to students also explained the difference between commercial Air Conditioning system and Industrial Air Conditioning system. Nearly 65 students attended the session, intracted to the staff and clarify their doubts.

OUTCOME OF THE EVENT

At the end of session, the students would be able to,

- Understand the functions of AHU system
- understand the functions of FCU systems
- understand the concepts of HVAC

Mr.V.Aravind AP/Mech explained the HVAC systems and design details for AHU& FCU units

Mr.S.Balaganesh AP/Mech explained the functions of AHU& FCU units

Hands on Session: Students executed the commands and doubts were clarified.

Bridge Course Coordinator
(Mr.V.Aravind AP/MECH)

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

2023-24 Odd Semester

III Mechanical / Bridge Course - Syllabus

Course Name: Advanced Engineering materials and its applications

COURSE OBJECTIVES:

1 To learn the Properties of engineering materials and criteria for selection of materials for engineering applications.
2 To learn the Mechanism of crystallization.
3 To illustrate the different types of fracture and their uses in engineering field.
4 To learn the Effects of Structure on Mechanical Properties. Systems, phases and phase rule
5 To learn the different reactions like eutectic, eutectoid, peritectic and peritectoid reactions.

Unit I Introduction to Material Science and Metallurgy 6

Basics of Engineering Materials, their Classifications and Application, Basics of Advance Engineering Materials, Engineering requirements of materials, Properties of engineering materials, Criteria for selection of materials for engineering Applications.

Unit II Crystal Geometry and Crystal Imperfection 6

Unit Cell, Crystal structure, Bravise lattice, atomic packing, coordination number, crystal structures of metallic elements, crystal directions and planes, Miller indices, Polymorphism or Allotropy. Crystal structure and correlated properties. diffusion processes; Crystallization.

Unit III Metallic Materials 6

Types, properties and applications, Structure of Metals, Fracture, Macro-examination, Spark Test, Sculptures Print, Macro-etching, Microscopic examinations, Magnetic Testing, Chemical analysis of steel and iron for Carbon, Sulphur & Phosphorous.

Unit IV Solidification and Theory of Alloys 6

Solidification of metals and an alloy, Nucleation and Growth during freezing of pure metal and alloy ingot/a casting Resultant macrostructures; Effects of Structure on Mechanical Properties. Systems, phases and phase rule, structural constituents, Gibb's free energy for thermodynamic stability of phases, Gibb's phase rule.

Unit V Phase and Phase equilibrium 6

Unary and Binary equilibrium phase diagrams, Different reactions like eutectic, eutectoid, peritectic and peritectoid; Non-equilibrium cooling.

Total periods : 30 Periods

Course Coordinator

HOD/Mech

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DEPARTMENT OF MECHANICAL ENGINEERING

2023-24 Odd Semester

Name of the Course : Advanced Engineering materials and its applications
Batch : 2021-2025
Year/Sem : III/V
Duration : 30 Hours
Staff Incharge : Dr.R.Shankar

Plan of Action

S. No	Topics	Hours Planned	Cumulative Hours
1	Basics of Engineering Materials, their Classifications and Application	1	1
2	Basics of Advance Engineering Materials, Engineering requirements of materials	2	3
3	Properties of engineering materials, Criteria for selection of materials for engineering Applications	2	5
4	Unit Cell, Crystal structure, Bravise lattice, atomic packing, coordination number, crystal structures of metallic elements	1	6
5	rystal directions and planes, Miller indices, Polymorphism or Allotropy	2	8
6	Crystal structure and correlated properties. diffusion processes; Crystallization	1	9
7	**Mock Test-1**	2	11
8	Types, properties and applications, Structure of Metals, Fracture, Macro-examination,	1	12
9	Spark Test, Sculptures Print, Macro-etching, Microscopic examinations, Magnetic Testing	1	13
10	Chemical analysis of steel and iron for Carbon, Sulphur & Phosphorous	1	14
11	Solidification of metals and an alloy, Nucleation and Growth during freezing of pure metal and alloy ingot/a casting Resultant macrostructures;	2	16
12	Effects of Structure on Mechanical Properties. Systems, phases and phase rule, structural constituents	2	18
13	Gibb's free energy for thermodynamic stability of phases, Gibb's phase rule.	2	20
14	Unary and Binary equilibrium phase diagrams,	2	22
15	Different reactions like eutectic, eutectoid,	2	24
16	Peritectic and peritectoid; Non-equilibrium cooling	2	26
17	**MockTest-II**	2	28
18	Revision and feedback	2	30

Course Coordinator

HOD/Mech

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-2023 (ODD SEMESTER)

VALUE ADDITION INITIATIVE PLAN

BATCH: 2021-2025 | Year: II | Semester: III | Class Room : 207 | STRENGTH: 41 | Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	02.40 pm - 02.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	BC	BC	BREAK	NPTEL	EM	LUNCH BREAK	ETD	FMM	BREAK	BC	
TUE	EMM	ETD		EM	NPTEL		MT	ETD		BC	BC
WED	EM	FMM		EMM	MT		Counseling			BC	BC
THU	Orientation			BC	BC		FMM	EMM		BC	BC
FRI	CAD Lab			BC			ETD	BC		BC	
SAT	FMM	BC		CAD Lab			EM	MT		BC	

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
TUTORIAL (T), ELECTIVE (E)						
XXXX	Engineering Mechanics	ESC	3	Mr. M. Vivekananthan	MECH	4
XXXX	Engineering Thermodynamics	PCC	3	Mr. R. Rajadurai	MECH	4
XXXX	Fluid Mechanics and Machinery	ESC	3	Mr. M. Melwin J Sridhar	MECH	4
XXXX	Engineering Materials and Metallurgy	PCC	3	Mr. R. Shankar	MECH	3
XXXX	Manufacturing Technology	PCC	3	Mr. S. Nelson Raja	MECH	3
VALUE ADDITION INTIATIVES (VAI)						
Bridge Course	Bridge Course on " Advanced Engineering Materials and its application "	VAI		Mr.R.Shankar Mr. M. Melwin J Sridhar Mr. S. Nelson Raja Mr. R. Rajadurai	MECH	20
Counseling	Counseling-Dept. Level	VAI		Mr.S.Desikan	MECH	2
NPTEL	SWAYAM/ NPTEL	VAI		Mr.R.Shankar	MECH	2
Orientation	Orientation Program	VAI		Dr.T.Pushparaj	MECH	2
CAD	CAD Lab	VAI		Mr.R.Shankar	MECH	4

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr. Mr.R.Shankar	M.Akash	02

DEPT. TIC

HOD 10/8/23

PRINCIPAL 10/8/2023

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022 – 23 (ODD SEMESTER)

BRIDGE COURSE REPORT

Year / Sem : II-MECH / 03

Course Name : Advanced Engineering Materials and its Applications

Venue : 207 (MECH ICT Class Room)

Objective of the Bridge Course:

- The main objective of this course is to brush up the fundamental knowledge of the students and prepare them for year engineering courses.
- Interactive and active learning by doing have been weaved into the bridge course.

Methodology:

- Action plan of the bridge course is prepared well in advance by the senior faculty and get it approved by Head of the Department.
- Power point presentation, chalk and talk methods have been adopted for the bridge course.
- Hands on training and interactive sessions are conducted for laboratory sessions.

Session Details:

Dr. T. Pushparaj, HOD, Department of Mechanical Engineering delivered the welcome address for the "Bridge Course on Advanced Engineering Materials and its Applications" for both second students. He highlighted the importance of mechanical knowledge; outcome based education and shared his experience with the students.

Mr. R. Shankar, Assistant Professor / Mr. M. Melwin Jagadeesh Sridhar, Assistant Professor, Department of Mechanical Engineering enlightened second year students about to "Properties and types of Advanced Engineering Materials".

Mr. S. Nelson Raja, Assistant Professor / Mr. R. Rajadurai, Assistant Professor Department of Mechanical Engineering handled an activity based session for second year students on "Industrial Processes and Applications of Advanced Engineering Materials".

Photo Gallery of Bridge Course

Outcome of the Bridge Course:

- It is evident that most of the students who attended the bridge course classes have gained the knowledge and skills of basic concepts of advanced engineering materials and their industrial applications.

Coordinators **HOD/Mech** **Principal**

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **Refresher Course on CAD/CAM** on this academic year 2022-2023, interested students are requested to enroll their name to Mr.S.Desikan AP/MECH on or before **30.07.2022**.

20.07.22

Coordinators

(Mr.S.Desikan AP/MECH)

T. Panneer 20/7/22

HOD/MECH

DEPARTMENT OF MECHANICAL ENGINEERING

Refrsher Course : CAD/CAM

SYLLABUS

OBJECTIVES

- Use computer graphics in design.
- Identify proper modeling techniques for geometric modeling.
- Develop expertise in computer-aided manufacturing
- Illustrate basic concepts of control systems
- Write the appropriate code for performing particular tasks in a CNC.
- Solve real life engineering problems using FEA.

Topic No	Topic	No. of Hours Required	Cumulative No. of periods
1.	Introduction to CAD/CAM/CIM	1	1
2.	Product Cycle	1	2
3.	CAD Hardware	1	3
4.	DDA Line Algorithm Structure	1	4
5.	Bresenham Line Algorithm	1	5
6.	Circle Algorithm	1	6
7.	2-D Transformation	1	7
8.	2-D Viewing	1	8
9.	2-D Clipping	1	9
10.	Cubic spines Bezier curves	1	10
11.	B- spines	1	11
12.	Animation	1	12
13.	Color models	1	13
14.	Monitor Control	1	14
15.	Solid Models	1	15
16.	Elements of CNC	1	16

17.	Program Introduction	1	17
18.	Interpolation Program	1	18
19.	Incremental System	1	19
20.	Absolute System	1	20
21.	CNC – Hardware Basics	1	21
22.	G-Codes	1	22
23.	Canned Cycles	1	23
24.	Do-Loop Program	1	24
25.	APT Programming	1	25
26.	Conveyors	1	26
27.	AVGs	1	27
28.	FMS	1	28
29.	Group Technology	1	29
30.	FEA Basics	1	30

SD / 27.07.22
STAFF INCHARGE

T. Parthasarathy 29/7/22
HOD/MECH

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KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE (AUG 2022 – DEC 2022, ODD SEM)

B.E –MECH (R2017) - With Effect from 10.08.22 Tentative Last working day 19.11.22

Batch:2019-2023 Year: IV Semester: VII Class Room :206 Strength:46 Block: II

Session	1	2	10.45am - 11.00am	3	4	12.30pm - 01.10pm	5	6	2.40pm - 02.50pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55pm - 02.40pm		02.50pm - 03.35pm	03.35pm - 04.20pm
MON	OIE751	ME8712	BREAK	ME8792	ME8097	LUNCH BREAK	ME8791	OIE751	BREAK	ME8793	T&P (SS)
TUE	ME8791	ME8793		ME8792	LIB/NET		ME8711 ME8781			ME8711 (B1) ME8781 (B2)	
WED	ME8793	ME8792		OIE751	ME8791		ME8711 ME8781			ME8711 (B2) ME8781 (B1)	
THU	ME8073	ME8097		ME8073	T&P (A)		ME8792	ME8793		ME8791	ME8097
FRI	ME8792	ME8073		ME8793	OIE751		ME8791	ME8097		OIE751	ME8073
SAT	ME8712	ME8073		ME8097	SWAYAM		RC	RC		PROJ	PROJ

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	TUTORIAL (T), ELECTIVE (E)					
ME8792	Power Plant Engineering	PC	3	Dr. T. Pushparaj	MECH	5
ME8793	Process Planning and Cost Estimation	PC	3	Mr. N. Magesh	MECH	5
ME8791	Mechatronics	PC	3	Mr. V. Aravind	MECH	5
OIE751	Robotics	OE	3	Mr. S. Balaganesh	MECH	5
ME8073	Unconventional Machining Processes	PE	3 (E2)	Mr. M. Sakthivel	MECH	5
ME8097	Non Destructive Testing and Evaluation	PE	3 (E3)	Mr. D. Balaji	MECH	5
	PRACTICAL (P)					
ME8711	Simulation & Analysis Laboratory	PC	2	Mr.S.Desikan	MECH	4
ME8781	Mechatronics Laboratory	PC	2	Mr.R.Shankar	MECH	4
ME8712	Technical Seminar	EEC	1	Mr. S. Nelson Raja	MECH	2
	COMPETENCY DEVELOPMENT CLASSES (CDC)					
LIB/NET	Library/Internet		VAI	Mr. N. Magesh	MECH	1
PROJ	Project work		VAI	Mr. N. Magesh	MECH	2
RC	Refresher Course on CAD/CAM		VAI	Mr.R.Rajadurai	MECH	2
SWAYAM	SWAYAM/NPTEL		VAI	Mr. N. Magesh	MECH	1
T&P (A)	Training and Placement (Aptitude)		VAI	Dr.B.Baran Kumar	T&P	1
T&P (SS)	Training and Placement (Soft Skills)		VAI	Dr.K.Sudhakar	T&P	1

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.N.Magesh	R.Veeramani	13
CLASS COMMITTEE CHAIR PERSON	Mr. S. Balaganesh	

DEPT. TTC

HOD 8/8/22

PRINCIPAL 08/8/2022

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST II - REFRESHER COURSE

Class : IV - Mechanical
Date : 29.10.2022
Course : CAD/CAM

S. No	Reg. No	Name of the Student	Marks (100)
1	821119114001	AAKASH J	89
2	821119114002	AATHI BUBESH A	97
3	821119114004	ARAVINDAN B	88
4	821119114005	BALAGANAPATHY S	92
5	821119114006	BALAVIGNESH D	91
6	821119114007	BARATHBABU A	89
7	821119114008	BHARATHICHOZHAN S	97
8	821119114009	DEEPANRAJ S	88
9	821119114010	DINESH A	92
10	821119114011	GOPI G	89
11	821119114012	GUNAL P	97
12	821119114013	HARIHARAN D	88
13	821119114014	HARIHARAN M (11.07.2002)	92
14	821119114015	HARIHARAN M (22.07.2002)	91
15	821119114016	HARIHARAN M (27.07.2002)	91
16	821119114017	HARISH GOWTHAM M	92
17	821119114018	IYAPPAN A	90
18	821119114019	KALAIMUHILARASAN S	87
19	821119114020	KAVIARASAN R	96
20	821119114021	KISHORE R	89
21	821119114022	MULLAIVENDHAN G	92
22	821119114023	MUTHUKUMAR K	90
23	821119114024	NARENDRAN R	87
24	821119114026	NITHISH A	89
25	821119114027	PRADEEPRAJAN S	97
26	821119114028	PRAVEENKUMAR S	88
27	821119114029	PRIYADHARSAN L	92
28	821119114030	PURUSHOTHAMAN S	91
29	821119114031	PURUSOTHAMAN G	87
30	821119114032	RAJASEKARAN T K	88
31	821119114033	ROOBAN K	87
32	821119114034	SATHIYARAJ S	86
33	821119114035	SATHIYASEELAN B	97
34	821119114036	SIVABALAN A	89
35	821119114037	SYEDU USMANALI M	97
36	821119114038	VEERAGURU M	88
37	821119114039	VEERAMANI K	92
38	821119114040	VEERAMANI R	91
39	821119114041	VENKATESH S	87
40	821119114042	VIGNESHWARAN M	88
41	821119114301	ABINESH P	87
42	821119114302	POOVARASAN A	86
43	821119114303	SIVASUBRAMANIYAM S	97
44	821119114501	ARAVINDHAN G	87
45	821119114502	KARTHICK (07.06.2000) M	86
46	821119114901	ASHOKKUMAR K R	97

30.10.22
COURSE INCHARGE

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DEPARTMENT OF MECHANICAL ENGINEERING
CONTINUOUS ASSESSMENT TEST I - REFRESHER COURSE

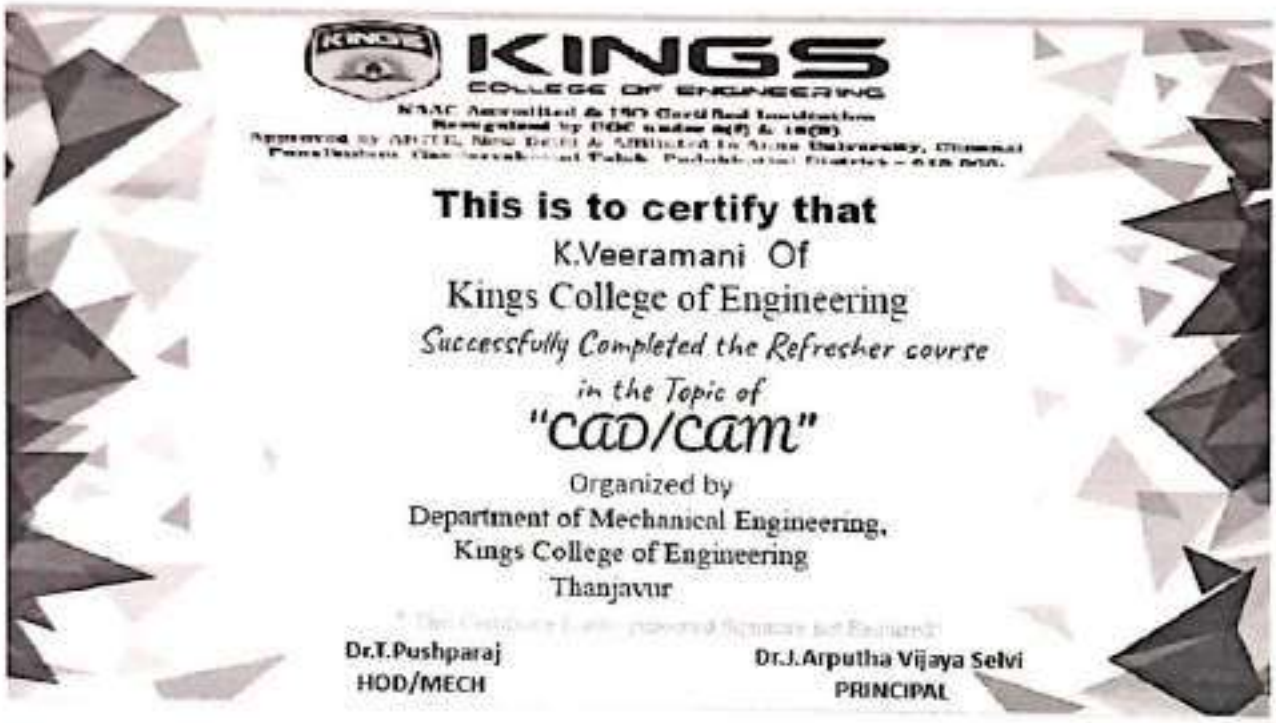
Class : IV - Mechanical
Date : 24.09.2022
Course : CAD/CAM

S. No	Reg. No	Name of the Student	Marks (100)
1	821119114001	AAKASH J	91
2	821119114002	AATHI BUBESH A	92
3	821119114004	ARAVINDAN B	90
4	821119114005	BALAGANAPATHY S	87
5	821119114006	BALAVIGNESH D	96
6	821119114007	BARATHBABU A	89
7	821119114008	BHARATHICHOZHAN S	97
8	821119114009	DEEPANRAJ S	88
9	821119114010	DINESH A	92
10	821119114011	GOPI G	91
11	821119114012	GUNAL P	92
12	821119114013	HARIHARAN D	90
13	821119114014	HARIHARAN M (11.07.2002)	87
14	821119114015	HARIHARAN M (22.07.2002)	96
15	821119114016	HARIHARAN M (27.07.2002)	89
16	821119114017	HARISH GOWTHAM M	97
17	821119114018	IYAPPAN A	88
18	821119114019	KALAIMUHILARASAN S	92
19	821119114020	KAVIARASAN R	91
20	821119114021	KISHORE R	91
21	821119114022	MULLAIVENDHAN G	92
22	821119114023	MUTHUKUMAR K	90
23	821119114024	NARENDRAN R	87
24	821119114026	NITHISH A	96
25	821119114027	PRADEEPRAJAN S	89
26	821119114028	PRAVEENKUMAR S	97
27	821119114029	PRIYADHARSAN L	88
28	821119114030	PURUSHOTHAMAN S	92
29	821119114031	PURUSOTHAMAN G	91
30	821119114032	RAJASEKARAN T K	87
31	821119114033	ROOBAN K	88
32	821119114034	SATHIYARAJ S	91
33	821119114035	SATHIYASEELAN B	92
34	821119114036	SIVABALAN A	90
35	821119114037	SYEDU USMANALI M	87
36	821119114038	VEERAGURU M	96
37	821119114039	VEERAMANI K	89
38	821119114040	VEERAMANI R	97
39	821119114041	VENKATESH S	88
40	821119114042	VIGNESHWARAN M	92
41	821119114301	ABINESH P	91
42	821119114302	POOVARASAN A	87
43	821119114303	SIVASUBRAMANIYAM S	88
44	821119114501	ARAVINDHAN G	87
45	821119114502	KARTHICK (07.06.2000) M	86
46	821119114901	ASHOKKUMAR K R	97

26.09.22
COURSE INCHARGE

HOD
30/9/22

Sample Certificates



KINGS
COLLEGE OF ENGINEERING

This is to certify that

K.Veeramani Of

Kings College of Engineering

Successfully Completed the Refresher course

in the Topic of

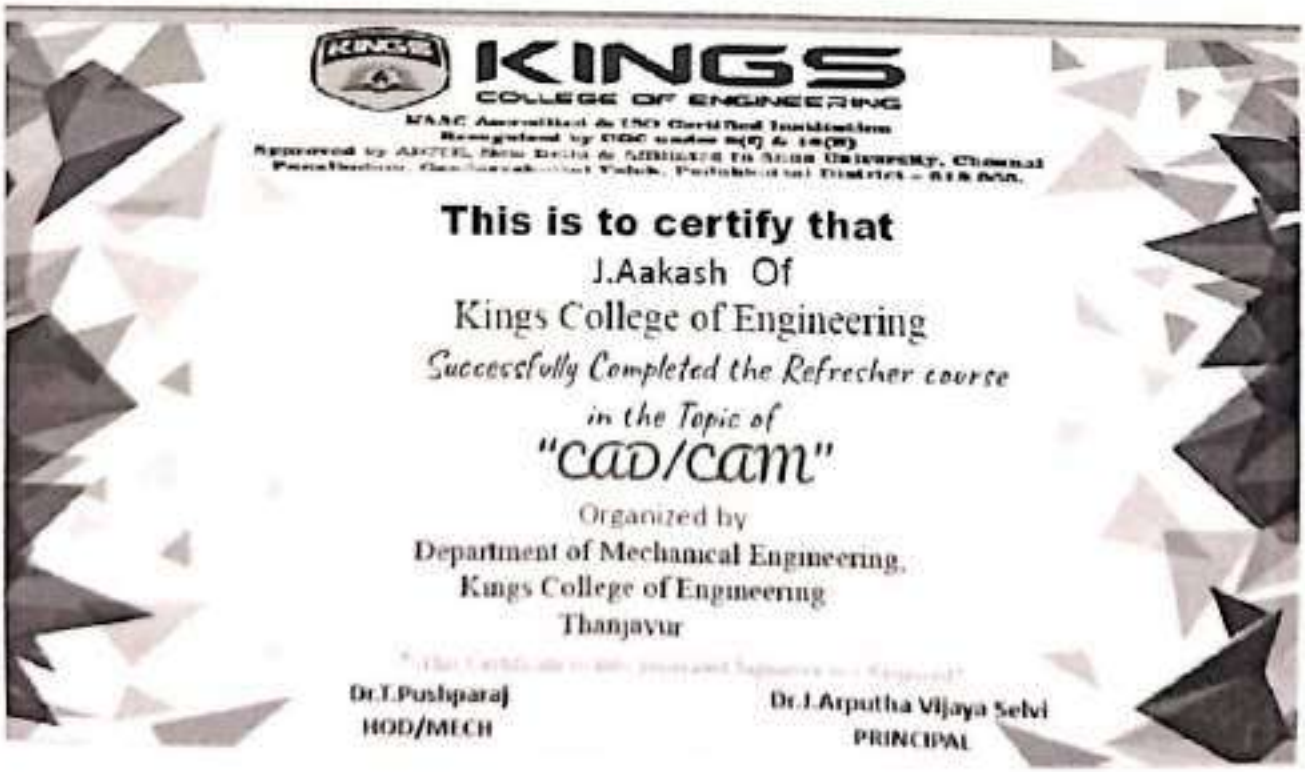
"CAD/CAM"

Organized by

Department of Mechanical Engineering,
Kings College of Engineering
Thanjavur

Dr.T.Pushparaj
HOD/MECH

Dr.J.Arputha Vijaya Selvi
PRINCIPAL



KINGS
COLLEGE OF ENGINEERING

This is to certify that

J.Aakash Of

Kings College of Engineering

Successfully Completed the Refresher course

in the Topic of

"CAD/CAM"

Organized by

Department of Mechanical Engineering,
Kings College of Engineering
Thanjavur

Dr.T.Pushparaj
HOD/MECH

Dr.J.Arputha Vijaya Selvi
PRINCIPAL

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Affiliated to Anna University, Chennai

CERT ISO 9001

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 / ODD SEMESTER

REFRESHER COURSE REPORT

As per Anna university curriculum, a refresher course initiative-course on"CAD/CAM"has been conducted for Final year students on Saturdays which enhanced the students' knowledge about different drafting method and analysis technique used in design and fabrication as well as planning strategies. Two assessments have been conducted for evaluation of the course. For all passed students, the E- certificate has been issued through the mail.

COURSE DETAILS

Course code &Name: CAD/CAM

Year / Semester: IV Year/Mechanical

Course duration: 01.08.2022 to 27.10.2022 (30 Periods)

No of students enrolled: 46

No of students completed the course: 46

Course Instructor: Mr.S.Nelsonraja & Mr.R.Rajadurai

Course Incharge: Mr. S.Desikan

COURSE OBJECTIVES

- Use computer graphics in design.
- Identify proper modeling techniques for geometric modeling.
- Develop expertise in computer-aided manufacturing
- Illustrate basic concepts of control systems
- Write the appropriate code for performing particular tasks in a CNC.
- Solve real life engineering problems using FEA.

COURSE OUTCOMES:

Upon the completion of this course the students will be able to

1. Explain the concepts and underlying theory of modeling and the usage of models in different engineering applications

2. Create accurate and precise geometry of complex engineering systems and use the geometric models in different engineering applications

3. Use and assess commercial CAD/CAM tools efficiently, effectively and intelligently in advanced engineering applications

COURSE SCREENSHOTS

FEEDBACK

Feedback has been collected from the students at the end of sessions

FEEDBACK	Excellent	Very Good	Good	Fair	Satisfactory
Course content	38	02	06	-	-
Skill development	40	03	02	-	-
Motivation	39	04	02	-	-
Regularity & punctuality	43	01	02	-	-
Coverage of syllabus	44	01	01	-	-
Interaction	43	02	01	-	-
Individual attention	37	06	03	-	-
Outcome	45	01	00	-	-

SAMPLE CERTIFICATES

1. SD
2. P

Staff Incharge
Mr. S.Desikan
Mr.R.Rajadurai

T. Pushparaj

HOD/Mech
Dr.T.Pushparaj

J. Arputhi 30/11/2022

Principal
Dr.J.Arputha Vijaya Selvi

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Department of Mechanical Engineering

Academic year 2022-23 (ODD)

Spoken Tutorial Schedule

Spoken Tutorials on various Open Source Software is organized at our campus since 2011 in Association with IIT, Bombay and Ministry of HRD sponsored initiative. Series of workshop scheduled for this semester for all branches. Students clearing Online Test will be receiving certificates from IIT, Bombay.

Schedule	Tutorial Title	Branch & Year
19.11.2022	Scilab	II-Mech
15.11.2022	Openfoam	III-Mech
17.11.2022	Latex	IV-Mech

Note : Students should bring their ear phones to utilize the session in effective manner.

Venue : CAD Laboratory

14/11/22

Dept IQAC Member

HoD/Mech

H O.D

DEPARTMENT OF MECHANICAL ENGINEERING

KINGS COLLEGE OF ENGINEERING

PUNALKULAM

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Department of Mechanical Engineering

Academic year 2022-23 (ODD)

Spoken Tutorial report

Class : II MECH
Tutorial Title : SCI LAB
Date : 19.11.2022
Venue : CAD Laboratory

Students from II year Mechanical Engineering of strength 49 has attended Scilab organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objective of the Program:

- The objective of the program was to popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.

Session Photos

Outcome of the Program:

- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive also.

Dept IQAC member

HoD/Mech

30/11/2022

Principal

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Department of Mechanical Engineering

Academic year 2022-23 (ODD)

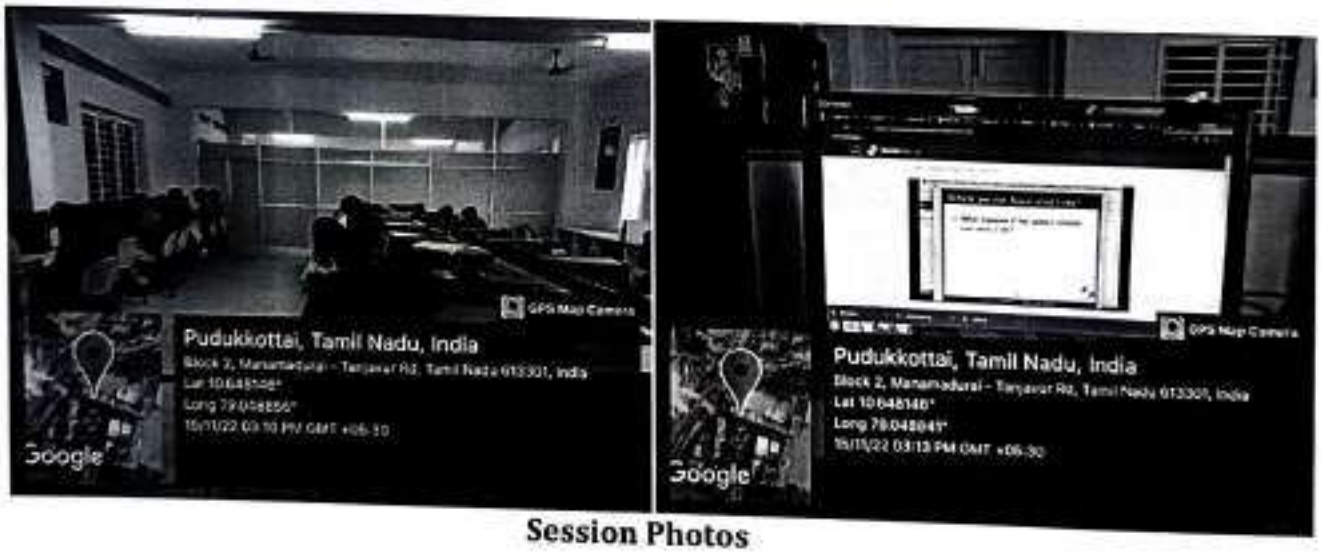
Spoken Tutorial report

Class : III MECH (A&B)
Tutorial Title : OPEN FOAM
Date : 15.11.2022
Venue : CAD Laboratory

Students from III year Mechanical Engineering of strength 78 has attended Open FOAM organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objective of the Program:

- The objective of the program was to popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.



Session Photos

Outcome of the Program:

- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive also.

29/11/22
Dept IQAC member

HoD/Mech

30/11/2022
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Department of Mechanical Engineering

Academic year 2022-23 (ODD)

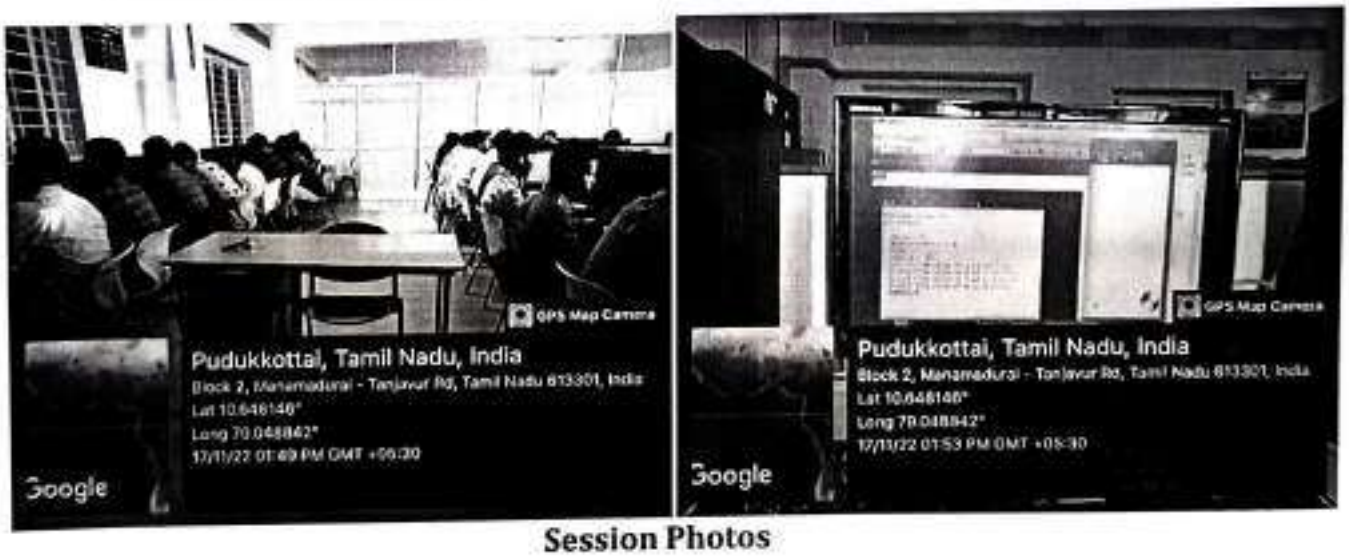
Spoken Tutorial report

Class : IV MECH
Tutorial Title : LATEX
Date : 17.11.2022
Venue : CAD Laboratory

Students from IV year Mechanical Engineering of strength 45 has attended LaTex organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objective of the Program:

- The objective of the program was to popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.



Session Photos

Outcome of the Program:

- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive also.

Dept IQAC member **HoD/Mech** **Principal** 20/11/2022

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN)

ADD ON PROGRAMS / CERTIFICATION COURSE DURING THE YEAR

S.No	Name of the Program	Duration	Beneficiaries
	2022-23 (EVEN SEM)		
1	Certification Course on "Additive Manufacturing" - Year	30 Hours	49
2	Certification Course on "Industrial Safety" – III Year	30 Hours	78
3	Certification Course on "Quality Assurance and Quality Control (QAQC)" - IV Year	30 Hours	45
4	MHRD Sponsored IIT Bombay Certification Course on "GIMP"-II Year	30 Hours	49
5	MHRD Sponsored IIT Bombay Certification Course on "Blender"-III year	30 Hours	78
6	MHRD Sponsored IIT Bombay Certification Course on "Blender"-IV Year	30 Hours	45

T. [signature] 26/5/23

HoD/MECH

H.O.D
DEPARTMENT OF MECHANICAL ENGINGEERING
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Department of Mechanical Engineering

Academic year 2022-23 (Even Semester)

Circular

03.02.2023

Value addition initiative course (Additive Manufacturing) for **second year** fourth semester for the academic year 2022-23 (Even semester), will be started from **07.02.2023 to 09.05.2023** in the respective classroom. All the students should attend the classes regularly without fail.

3/2/23
Course Incharge

4/2/23
HOD

ADDITIVE MANUFACTURING

UNIT I INTRODUCTION TO ADDITIVE MANUFACTURING (AM) 6

Introduction to reverse engineering Traditional manufacturing, Computer aided design (CAD) and manufacturing (CAM) and AM Different AM processes and relevant process physics AM process chain Application level: Direct processes – Rapid Prototyping, Rapid Tooling, Rapid Manufacturing; Indirect Processes - Indirect Prototyping, Indirect Tooling, Indirect Manufacturing

UNIT II MATERIALS SCIENCE FOR ADDITIVE MANUFACTURING 6

Discussion on different materials, Use of multiple materials, multifunctional and graded materials in AM Role of solidification rate Evolution of non-equilibrium structure Structure property relationship Grain structure and microstructure

UNIT III ADDITIVE MANUFACTURING TECHNOLOGIES 6

Powder-based AM processes involving sintering and melting (selective laser sintering, shaping, electron beam melting, involvement). Printing processes (droplet based 3D Solid-based AM processes - extrusion based fused deposition modeling object Stereolithography Micro- and nano-additive

UNIT IV MATHEMATICAL MODELS FOR ADDITIVE MANUFACTURING 6

Transport phenomena models temperature, fluid flow and composition, buoyancy driven tension driven free surface flow pool) Case studies: Numerical Modeling of AM process, Powder bed melting based process, Droplet based printing process Residual stress, part fabrication time, cost, optimal orientation and optimal Defect in AM and role of transport Simulations.

UNIT V PROCESS SELECTION PLANNING CONTROL FOR AM 6

Process Selection of AM technologies using decision Additive manufacturing process plan strategies and post processing. Monitoring and control of defects, transformation.

Total Period: 30 hours

6/2/23

COURSE INCHARGE

6/2/23

HOD

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DEPARTMENT OF MECHANICAL ENGINEERING
Academic year 2022-23 (Even Semester)
II Year - IV Semester/Batch 2021-2025

VALUE ADDITION INITIATIVE COURSE / REPORT

12.05.2023

Value addition initiative course has been conducted for **second year** students for the academic year 2022-23, scheduled from **07.02.2023 to 09.05.2023** in the respective classroom. This course is offered to enhance students' knowledge in residual stresses and their effects during additive manufacturing. Two assessment tests have been conducted for evaluation of the course and a certificate has been issued to all students attended.

COURSE DETAILS :

Course Name	: Additive Manufacturing
Year/Sem	: II / IV
Duration	: 30 hours (1 hour / week – Tuesday 6th hour)
No. of students enrolled	: 49
No. of students completed the course	: 49
Course Incharge	: Dr. R. Shankar / AP-Mechanical

COURSE OUTCOMES :

Upon the completion of this course, the students will be able to:

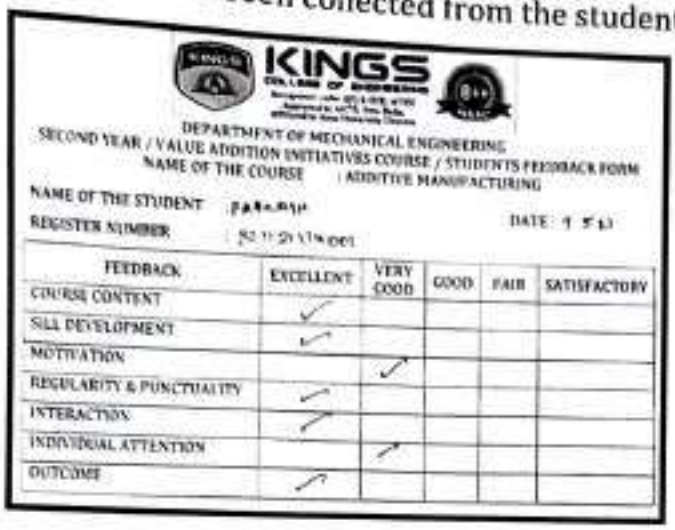
- Describe additive manufacturing and explain its advantages and disadvantages
- Explain the processes used in additive manufacturing for a range of materials and applications
- Understand the role of additive manufacturing in the design process and the implications for design
- Describe the effects of surface finish and microstructural properties on behaviour for components produced using additive manufacturing
- Display an awareness of residual stresses that may occur during additive manufacturing and their effects.

SAMPLE SCREENSHOTS OF VALUE ADDITION INITIATIVE COURSE:

Course Incharge Dr. R.Shankar, AP/Mechanical, handling the session of "Additive Manufacturing" on the allotted hours

STUDENTS FEEDBACK DETAILS:

Feedback has been collected from the students at the end of the session,



KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR / VALUE ADDITION INITIATIVES COURSE / STUDENTS FEEDBACK FORM

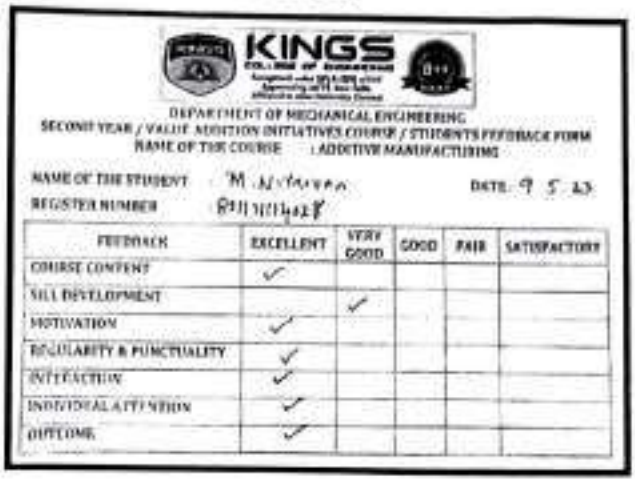
NAME OF THE COURSE : ADDITIVE MANUFACTURING

NAME OF THE STUDENT : [illegible]

REGISTER NUMBER : [illegible]

DATE : 9.5.23

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓				
SILL DEVELOPMENT	✓				
MOTIVATION		✓			
REGULARITY & PUNCTUALITY	✓				
INTERACTION	✓				
INDIVIDUAL ATTENTION		✓			
OUTCOME	✓				



KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR / VALUE ADDITION INITIATIVES COURSE / STUDENTS FEEDBACK FORM

NAME OF THE COURSE : ADDITIVE MANUFACTURING

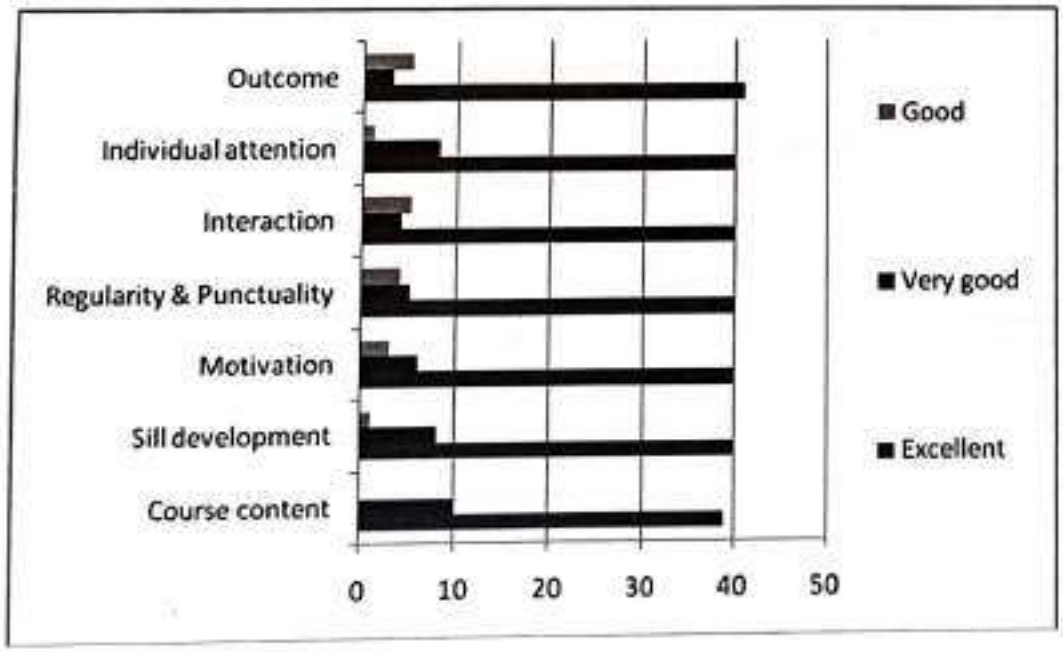
NAME OF THE STUDENT : [illegible]

REGISTER NUMBER : [illegible]

DATE : 9.5.23

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓				
SILL DEVELOPMENT		✓			
MOTIVATION	✓				
REGULARITY & PUNCTUALITY	✓				
INTERACTION	✓				
INDIVIDUAL ATTENTION	✓				
OUTCOME	✓				

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
Course content	39	10	0	--	--
Sill development	40	8	1	--	--
Motivation	40	6	3	--	--
Regularity & Punctuality	40	5	4	--	--
Interaction	40	4	5	--	--
Individual attention	40	8	1	--	--
Outcome	41	3	5	--	--



SAMPLE CERTIFCATES :

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS CERTIFY THAT

Dhinakaran P

SECOND YEAR, DEPARTMENT OF MECHANICAL ENGINEERING, KINGS COLLEGE OF ENGINEERING, HAS SUCCESSFULLY COMPLETED THE VALUE ADDITION INITIATIVE COURSE TITLED "ADDITIVE MANUFACTURING" IN THE ACADEMIC YEAR 2022-23 EVEN SEMESTER.

COURSE INCHARGE

HOD

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS CERTIFY THAT

Ponnarasan S

SECOND YEAR, DEPARTMENT OF MECHANICAL ENGINEERING, KINGS COLLEGE OF ENGINEERING, HAS SUCCESSFULLY COMPLETED THE VALUE ADDITION INITIATIVE COURSE TITLED "ADDITIVE MANUFACTURING" IN THE ACADEMIC YEAR 2022-23 EVEN SEMESTER.

COURSE INCHARGE

HOD

12/5/23
Course Incharge

T. Ponnarasan
HOD 12/5/23

12/5/2023
Principal

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Department of Mechanical Engineering

Academic year 2022-23 (Even Semester)

Circular

12.02.2023

Certification course on (Industrial Safety) for **Third year** sixth semester for the academic year 2022-23 (Even semester), will be started from **21.02.2023 to 23.02.2023** in the respective classroom. All the students should attend the classes regularly without fail.

Course Incharge

HOD

H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

INDUSTRIAL SAFETY

OBJECTIVE :

The purpose of this course is to teach student the concept of Industrial Safety & provide useful practical knowledge for workplace safety which helps identification, evaluation, and control of all the hazards and potential hazards to prevent or mitigate harm or damage to people, property, or the environment.

UNIT I FACTORIES ACT 10

Statutory authorities – inspecting staff, health, safety, provisions relating to hazardous processes, welfare, working hours, employment of young person's – special provisions – penalties and procedures-Tamilnadu Factories Rules 1950 under Safety and health chapters of Factories Act 1948. Forms, Registers and notices – Tamilnadu Safety Officer Rules 2005- with updated Amendments.

UNIT II ELECTRICAL HAZARDS 12

Primary and secondary hazards-shocks, burns, scalds, falls-human safety in the use of electricity. Energy leakage-clearances and insulation-classes of insulation-voltage classifications-excess energy current surges-Safety in handling of war equipments-over current and short circuit current-heating effects of current-electromagnetic forces-corona effect-static electricity –definition, sources, hazardous conditions, control, electrical causes of fire and explosion-ionization, spark and arc ignition energy-national electrical safety code ANSI.

UNIT III HAZARDOUS ZONES 8

Classification of hazardous zones-intrinsically safe and explosion proof electrical apparatus-increase safe equipment-their selection for different zones-temperature classification-grouping of gases-use of barriers and isolators-equipment certifying agencies.

TOTAL PERIODS: 30

STAFF IN-CHARGE

HOD/MECH

Format-QP060.

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DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE

B.E – MECH III YEAR 'INDUSTRIAL SAFETY' CERTIFICATION COURSE

Batch:2020-2024 Semester: VI Class Room :209 Strength:78
Year: III Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	2.40 pm - 2.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55 pm - 02.40 pm		2.50 pm - 3.35 pm	03.35 pm - 04.20pm
MON											
TUE											
WED											
THU											
FRI										CC	CC
SAT											

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/ WEEK
-	INDUSTRIAL SAFETY	-	-	Mr. D.Balaji	MECH	2

STAFF INCHARGE

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic year 2022-23 (Even Semester)

III Year - VI Semester/Batch 2021-2025

VAI Course / Continuous Assessment Test – I / Mark Statement

Name of the course: Industrial Safety

Date : 26.04.23

R.no	Register Number	Name	Marks out of 100
1	821120114001	AADHIKARUNESAN M	72
2	821120114003	AKASH M	75
3	821120114004	ANBARASAN V	80
4	821120114005	ARUN E	82
5	821120114006	ARUNKUMAR M	72
6	821120114007	ARUNKUMAR P	70
7	821120114008	ARUNKUMAR S	74
8	821120114009	BACKIYARAJ S	75
9	821120114010	BHARANI S	76
10	821120114012	DHIVAKAR K	80
11	821120114013	DURAIRAJ V	82
12	821120114014	ERANIYAN K	85
13	821120114015	GNANASEKARAN S	90
14	821120114016	HARIHARAN K	91
15	821120114017	HARI PRASATH R	82
16	821120114018	HEMANATHAN E	80
17	821120114020	JAYASRIRAM V	78
18	821120114021	JAYASURYA K	75
19	821120114022	JAYSRIRAJAN A	85
20	821120114023	JEGAN K	80
21	821120114025	KEERTHIVASAN K	84
22	821120114026	LALITHKUMAR E	83
23	821120114027	MANIBHARATHI V	72
24	821120114029	MANOJKUMAR R	70
25	821120114315	MADHESHWARAN K	75

26	821120114316	MADHU MITHIRAN S	70
27	821120114317	MAHENDRAN M	70
28	821120114318	PRAKASH K	70
29	821120114319	PRAVEENKUMAR R	72
30	821120114320	RAKESH A	75
31	821120114321	RAMPRASAD K	78
32	821120114322	SAKTHI GANESH G S	79
33	821120114323	SANJAY N	85
34	821120114324	SANTHOSH R	84
35	821120114325	SANTHOSH KUMAR P	83
36	821120114326	SATHISHKUMAR V	80
37	821120114327	SUBAKARAN K	88
38	821120114328	SURYABALA N	88
39	821120114702	SAKTHIVEL B	81
40	821120114030	MARAN R	78
41	821120114031	MISFAR M	79
42	821120114032	MOHAMED ARSATH A	80
43	821120114033	MOHAMED RILWAN H	82
44	821120114034	PRAVEENKUMAR M	84
45	821120114035	PRAVIN M	81
46	821120114036	RAJESH N	78
47	821120114037	RAMPRASATH R	70
48	821120114038	SAKTHIVEL E	72
49	821120114039	SAMIKKANNAN M	75
50	821120114040	SANTHOSH R	74
51	821120114041	SANTHOSHKUMAR C	74
52	821120114042	SARAVANAN A	84
53	821120114043	SELVAMANI K	84
54	821120114044	SHANMUGABHARATHI S	80
55	821120114045	SRIKUMAR S	70
56	821120114046	SUBASH P	72
57	821120114047	SULTHAN ABDUL KADHER R	70
58	821120114048	THANGAPANDIYAN S	74
59	821120114049	VASANTH M	75
60	821120114050	VEERAMAGESWARAN R	80

61	821120114051	VIKRAM S	85
62	821120114052	VIMALRAJ P	84
63	821120114053	VIVEK A	80
64	821120114054	VIVEK K	80
65	821120114301	ABINESH V	78
66	821120114302	ABISHKAR SV	77
67	821120114304	ARAVINTHAKUMAR T	78
68	821120114305	BALAJI S	75
69	821120114306	HARISH RAGAVENDRA M	80
70	821120114307	JAHANRAJ J	85
71	821120114308	KABIL V	84
72	821120114309	KABILAN G	82
73	821120114310	KABILAN M	81
74	821120114311	KEERTHIVASAN R	77
75	821120114312	KISHOREKUMAR R	78
76	821120114313	KISHORE KUMAR V	75
77	821120114314	LENIN KUMAR S	80
78	821120114701	DEVAPRASANTH. N	90

Course Incharge

H.O.D

DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PINALKULAM

KINGS COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic year 2022-23 (Even Semester)

III Year - VI Semester/Batch 2021-2025

VAI Course / Continuous Assessment Test – II / Mark Statement

Name of the course: Industrial Safety

Date : 08.03.23

R.no	Register Number	Name	Marks out of 100
1	821120114001	AADHIKARUNESAN M	72
2	821120114003	AKASH M	74
3	821120114004	ANBARASAN V	74
4	821120114005	ARUN E	76
5	821120114006	ARUNKUMAR M	72
6	821120114007	ARUNKUMAR P	74
7	821120114008	ARUNKUMAR S	75
8	821120114009	BACKIYARAJ S	75
9	821120114010	BHARANI S	72
10	821120114012	DHIVAKAR K	70
11	821120114013	DURAIRAJ V	70
12	821120114014	ERANIYAN K	70
13	821120114015	GNANASEKARAN S	72
14	821120114016	HARIHARAN K	71
15	821120114017	HARI PRASATH R	73
16	821120114018	HEMANATHAN E	73
17	821120114020	JAYASRIRAM V	75
18	821120114021	JAYASURYA K	74
19	821120114022	JAYSRIRAJAN A	70
20	821120114023	JEGAN K	71
21	821120114025	KEERTHIVASAN K	73
22	821120114026	LALITHKUMAR E	73
23	821120114027	MANIBHARATHI V	70
24	821120114029	MANOJKUMAR R	74
25	821120114315	MADHESHWARAN K	72

26	821120114316	MADHU MITHIRAN S	75
27	821120114317	MAHENDRAN M	76
28	821120114318	PRAKASH K	74
29	821120114319	PRAVEENKUMAR R	77
30	821120114320	RAKESH A	74
31	821120114321	RAMPRASAD K	73
32	821120114322	SAKTHI GANESH G S	73
33	821120114323	SANJAY N	72
34	821120114324	SANTHOSH R	72
35	821120114325	SANTHOSH KUMAR P	71
36	821120114326	SATHISHKUMAR V	71
37	821120114327	SUBAKARAN K	70
38	821120114328	SURYABALA N	70
39	821120114702	SAKTHIVEL B	70
40	821120114030	MARAN R	74
41	821120114031	MISFAR M	74
42	821120114032	MOHAMED ARSATH A	73
43	821120114033	MOHAMED RILWAN H	72
44	821120114034	PRAVEENKUMAR M	73
45	821120114035	PRAVIN M	72
46	821120114036	RAJESH N	72
47	821120114037	RAMPRASATH R	70
48	821120114038	SAKTHIVEL E	71
49	821120114039	SAMIKKANNAN M	75
50	821120114040	SANTHOSH R	80
51	821120114041	SANTHOSHKUMAR C	81
52	821120114042	SARAVANAN A	72
53	821120114043	SELVAMANI K	74
54	821120114044	SHANMUGABHARATHI S	75
55	821120114045	SRIKUMAR S	78
56	821120114046	SUBASH P	79
57	821120114047	SULTHAN ABDUL KADHER R	80
58	821120114048	THANGAPANDIYAN S	81
59	821120114049	VASANTH M	79
60	821120114050	VEERAMAGESWARAN R	78

61	821120114051	VIKRAM S	78
62	821120114052	VIMALRAJ P	79
63	821120114053	VIVEK A	80
64	821120114054	VIVEK K	80
65	821120114301	ABINESH V	81
66	821120114302	ABISHKAR SV	82
67	821120114304	ARAVINTHAKUMAR T	72
68	821120114305	BALAJI S	74
69	821120114306	HARISH RAGAVENDRA M	74
70	821120114307	JAHANRAJ J	73
71	821120114308	KABIL V	70
72	821120114309	KABILAN G	71
73	821120114310	KABILAN M	72
74	821120114311	KEERTHIVASAN R	73
75	821120114312	KISHOREKUMAR R	74
76	821120114313	KISHORE KUMAR V	75
77	821120114314	LENIN KUMAR S	74
78	821120114701	DEVAPRASANTH. N	80

Course Incharge

T. Pandiyan
H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

KINGS

COLLEGE OF ENGINEERING

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Recognized Under 2(F) & 12(B) Of UGC
Punalkulam, Gandarvakottai (Tk), Pudukottai-613303

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is certify that Mr.P.DHINAKARAN of III YEAR/ MECHANICAL ENGINEERING department has actively participated in the CERTIFICATION COURSE on "INDUSTRIAL SAFETY" Department of Mechanical Engineering, Kings College of Engineering, Pudukkottai on academic year 2022-23 (Even semester)

Mr.D. Balaji, AP	Dr.T.Pushparaj	Dr.J.Arputha Vijaya Selvi
Coordinator	HoD/Mech	Principal

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Punalkulam, Gandarvakottai (Tk), Pudukottai-613303

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is certify that Mr. SARAVANAN of III YEAR/ MECHANICAL ENGINEERING department has actively participated in the CERTIFICATION COURSE on "INDUSTRIAL SAFETY" Department of Mechanical Engineering, Kings College of Engineering, Pudukkottai on academic year 2022-23 (Even semester).

T.Pushparaj	Dr.J.Arputha Vijaya Selvi	Mr.D. Balaji, AP	Dr
HoD/Mech	Principal	Coordinator	

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DEPARTMENT OF MECHANICAL ENGINEERING
Academic year 2022-23 (Even Semester)
III Year - VI Semester/Batch 2021-2025

VALUE ADDITION INITIATIVE COURSE / REPORT

24.02.2023

Value addition initiative course has been conducted for **Third year** students for the academic year 2022-23, scheduled from **21.02.2023 to 23.02.2023** in the respective classroom. The objective of this is to enhance student's knowledge in safety in industrial environment. Two assessment tests have been conducted for evaluation of the course and certificates were issued to all students attended.

COURSE DETAILS :

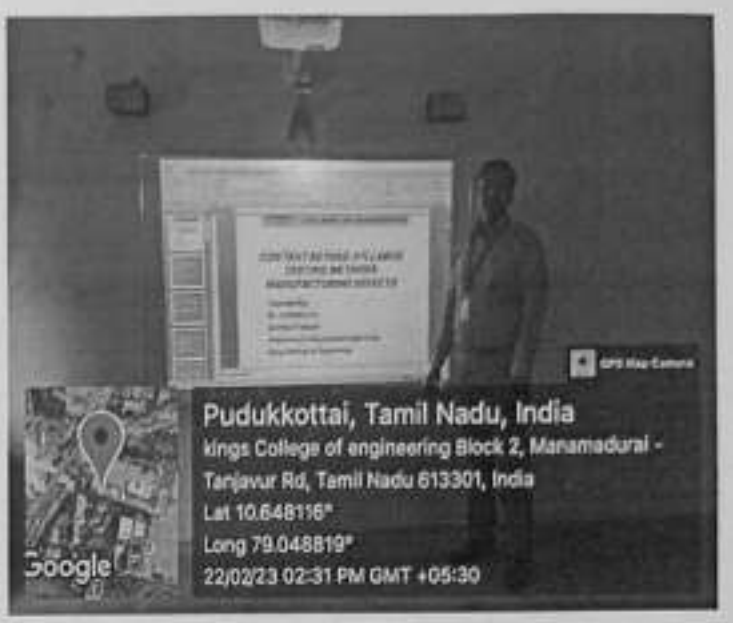
Course Name	: Industrial Safety
Year/Sem	: III / VI
Duration	: 30 hours
No. of students enrolled	: 78
No. of students completed the course	: 78
Course Incharge	: D. Balaji / AP-Mechanical

COURSE OUTCOMES :

Upon the completion of this course, the students will be able to:

- To identify the problems impeding safety in industries.
- To identify types and causes of accidents, and designing aids for safe in working environment
- To understand the hazards during construction of power plant, road works and high rise buildings.
- To understand the safety procedure for working at heights during construction.

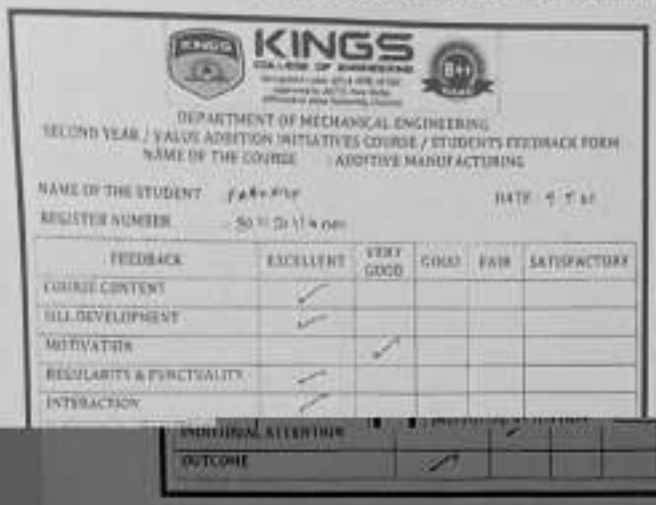
SAMPLE SCREENSHOTS OF VALUE ADDITION INITIATIVE COURSE:



Course Incharge D.Balaji handling the session of "Industrial Safety" on the allotted hours

STUDENTS FEEDBACK DETAILS:

Feedback has been collected from the students at the end of the session.



KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR / VALUE ADDITION INITIATIVES COURSE / STUDENTS FEEDBACK FORM

NAME OF THE COURSE : ADDITIVE MANUFACTURING

NAME OF THE STUDENT : [illegible] DATE : 9.5.23

REGISTER NUMBER : [illegible]

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓				
SILL DEVELOPMENT	✓				
MOTIVATION		✓			
REGULARITY & PUNCTUALITY	✓				
INTERACTION	✓				
INDIVIDUAL ATTENTION		✓			
OUTCOME	✓				

KINGS COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR / VALUE ADDITION INITIATIVES COURSE / STUDENTS FEEDBACK FORM

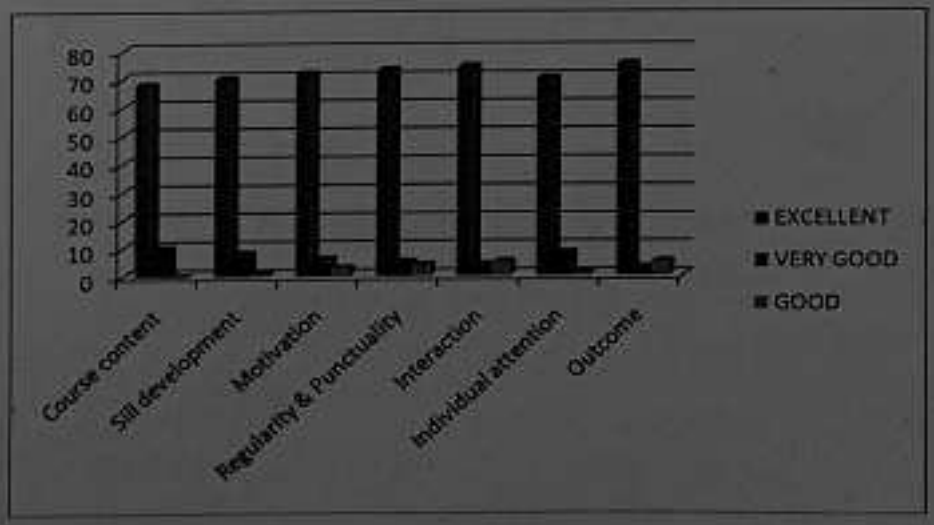
NAME OF THE COURSE : ADDITIVE MANUFACTURING

NAME OF THE STUDENT : M. [illegible] DATE : 9.5.23

REGISTER NUMBER : [illegible]

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓				
SILL DEVELOPMENT		✓			
MOTIVATION	✓				
REGULARITY & PUNCTUALITY	✓				
INTERACTION	✓				
INDIVIDUAL ATTENTION		✓			
OUTCOME		✓			

FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTO
Course content	68	10	0	--	--
Sill development	70	8	1	--	--
Motivation	72	6	3	--	--
Regularity & Punctuality	73	5	4	--	--
Interaction	74	4	5	--	--
Individual attention	70	8	1	--	--
Outcome	75	3	5,	--	--



SAMPLE CERTIFCATES :

KINGS
COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS CERTIFY THAT

ARUN E

SECOND YEAR, DEPARTMENT OF MECHANICAL ENGINEERING, KINGS COLLEGE OF ENGINEERING, HAS SUCCESSFULLY COMPLETED THE VALUE ADDITION INITIATIVE COURSE TITLED " *INDUSTRIAL SAFETY* " IN THE ACADEMIC YEAR 2022-23 EVEN SEMESTER.

COURSE INCHARGE HOD

KINGS
COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS CERTIFY THAT

PRAVIN M

SECOND YEAR, DEPARTMENT OF MECHANICAL ENGINEERING, KINGS COLLEGE OF ENGINEERING, HAS SUCCESSFULLY COMPLETED THE VALUE ADDITION INITIATIVE COURSE TITLED " *INDUSTRIAL SAFETY* " IN THE ACADEMIC YEAR 2022-23 EVEN SEMESTER.

COURSE INCHARGE HOD

Course Incharge

HOD 13/6/23

H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

Principal 12/6/23

KINGS COLLEGE OF ENGINEERING

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Affiliated to Anna University, Chennai

Department of Mechanical Engineering

Academic year 2022-23 (Even Semester)

Circular

03.02.2023

Certification course on Quality Control and Quality Assurance for **Final year** Eight semester for the academic year 2022-23 (Even semester), will be started from **07.02.2023 to 09.05.2023** in the respective classroom. All the students should attend the classes regularly without fail.

Course Incharge

HOD

H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN)

ACTION PLAN FOR Quality Control And Quality Assurance

Name of the Course : Quality Control And Quality Assurance
Batch : 2020-2024
Year / Semester : III / VI
Staff In charge : Mr. V.Aravind.

S.No	Topics	Hours Planned	Cumulative Hours
1	Introduction To Syllabus, Subjects And Question Pattern.	1	1
2	Quality Value And Engineering . Quality Systems Quality Engineering In Product Design.	2	3
3	Production Process System Design ,Parameter Design,Tolerance Design.	2	5
4	Quality Costs , Quality Improvement.	2	7
5	Loss Function, Tolerance Design	2	9
6	N Type, L Type, S Type.	2	11
7	Determination Of Tolerance For These Types. Online Quality Control.	1	12
8	Variable Characteristics Attribute Characteristics.	2	14
9	Parameter Design.	3	17
10	Complex Systemreliability.	1	18
11	Reliability Of Series, Parallel, Standby Systems,	1	19
12	Reliability Prediction And System Effectiveness.	2	21

S.No	Topics	Hours Planned	Cumulative Hours
13	Maintainability Availability.	1	22
14	Replacement Of Items, Maintenance Costing And Budgeting.	2	24
15	Revision	2	26
16	Test	3	29
17	Feedback	1	30

Staff In-Charge

HoD/MECH

H.O.D

DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic year 2022-23 (Even Semester)

IV Year - VIII Semester/Batch 2019-2023

CERTIFICATION COURSE / REPORT

Certification course has been conducted for **Final year** students for the academic year 2022-23, scheduled from **07.02.2023 to 09.05.2023** in the respective classroom. This course is offered to enhance students' knowledge of Quality Control and Quality Assurance. Two assessment tests have been conducted for evaluation of the course and certificates were issued to all attended students.

COURSE DETAILS :

Course Name	: Quality Control and Quality Assurance
year/Sem	: IV / VIII
Duration	: 30 hours (1 hour / week – Tuesday 6th hour)
No. of students enrolled	: 45
No. of students completed the course	: 45
Course Incharge	: V.ARAVIND / AP-Mechanical

COURSE OBJECTIVES:

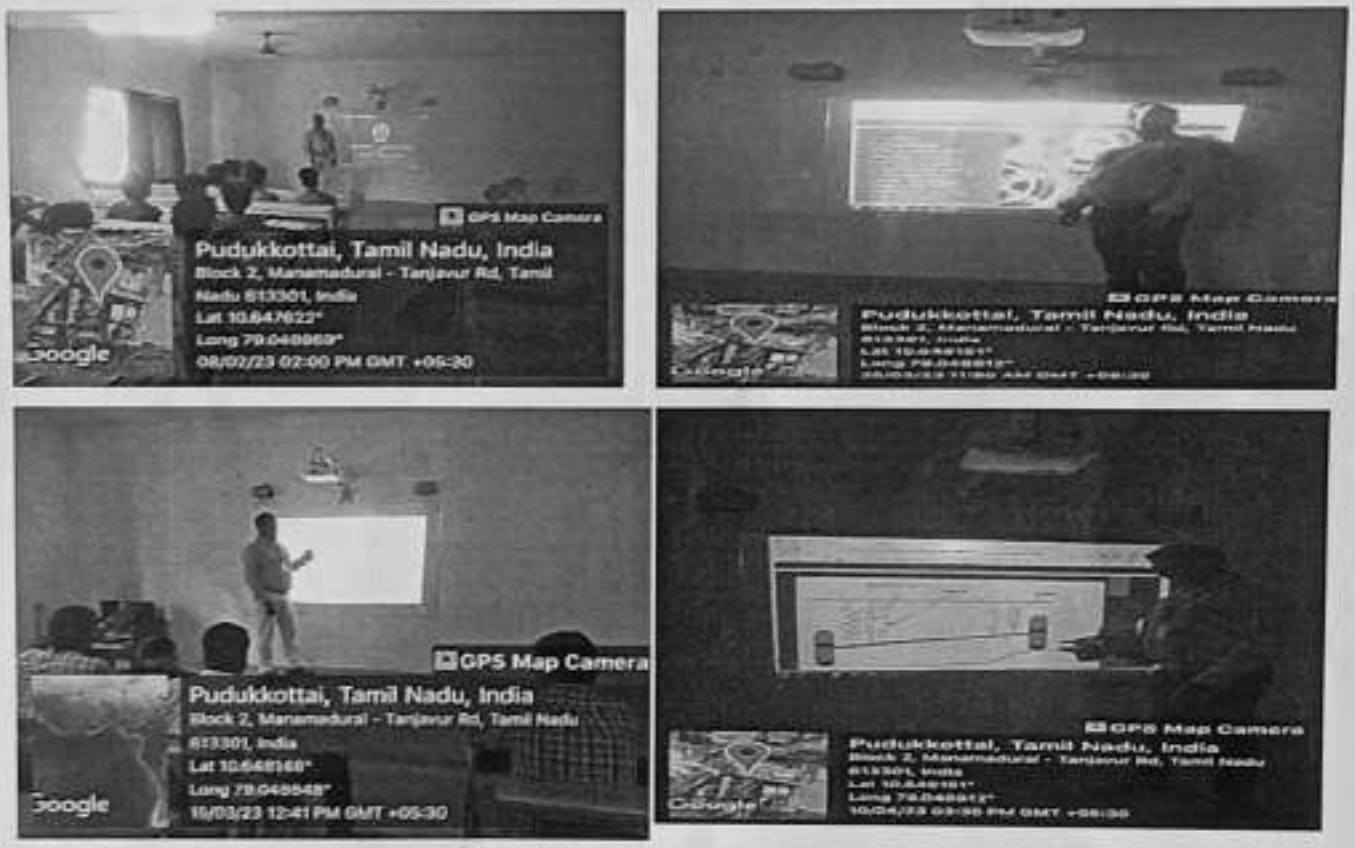
- To evaluate the methods and processes of production and suggest further improvements in their functioning.
- To study and determine the extent of quality deviation in a product during the manufacturing process.
- To undertake such steps which are helpful in achieving the desired quality of the product.
- To understand the role of quality and basic standards.

COURSE OUTCOMES :

On successful completion of this course, the students will be able to:

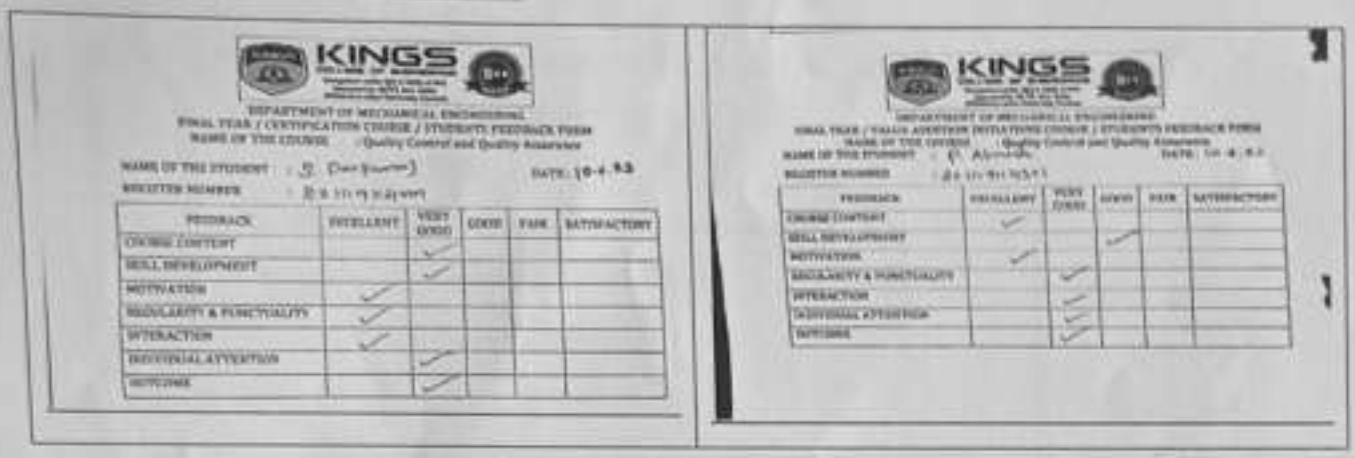
- Understand the role of Quality Control and Quality Assurance in the design process and the implications for design
- Get the knowledge about basic standards & procedure followed in quality aspect can be clearly understand.
- do the routine quality check of intended consumer goods by following standards.

SAMPLE SCREENSHOTS OF CERTIFICATION COURSE :

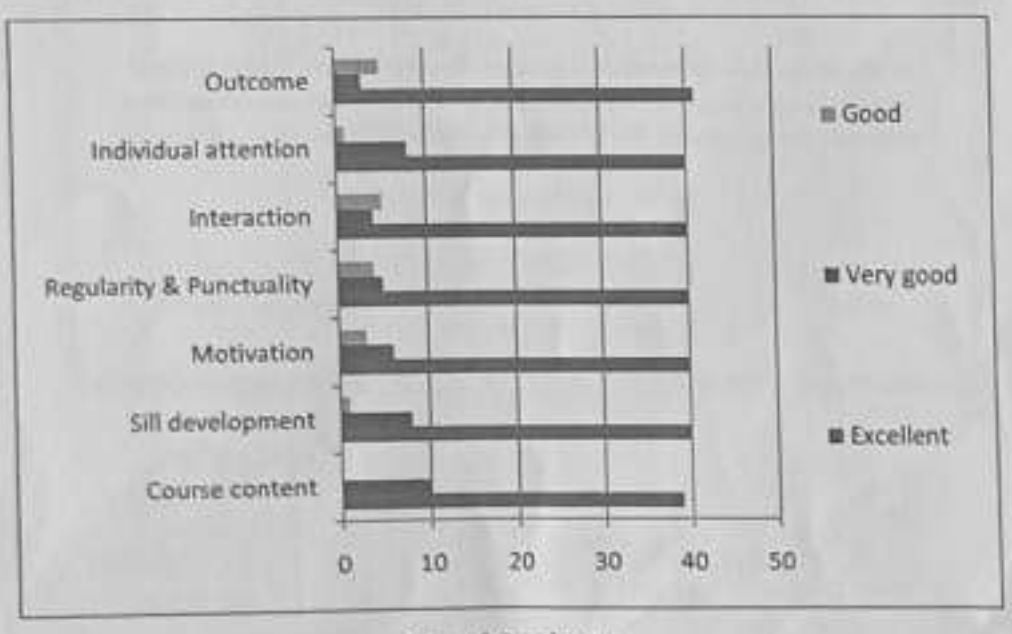


Course Incharge V.Aravind handling the session of "Quality Control and Quality Assurance." on the allotted hour

STUDENTS FEEDBACK DETAILS:



FEEDBACK	EXCELLENT	VERY GOOD	GOOD	FAIR	SATISFACTORY
Course content	39	06	0	--	--
Sill development	40	5	0	--	--
Motivation	40	3	2	--	--
Regularity & Punctuality	40	2	3	--	--
Interaction	40	2	3	--	--
Individual attention	40	5	0	--	--
Outcome	41	2	2	--	--



SAMPLE CERTIFICATES :

KINGS

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is certify that

Gunal P

Second year, Department of Mechanical Engineering, Kings College of Engineering, has successfully completed the certification course course titled "Quality control and quality assurance" in the academic year 2022-23 even semester.

Course Incharge

HOD

KINGS

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is certify that

Ashok Kumar K. R.

Second year, Department of Mechanical Engineering, Kings College of Engineering, has successfully completed the certification course course titled "Quality control and quality assurance" in the academic year 2022-23 even semester.

Course Incharge

HOD

Course Incharge

HOD

5/6/23

5/6/2023

Principal

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (ODD)

Date: 06.02.2023

CIRCULAR

This is to inform, that our department is going to conduct **Gate Coaching** and **Competitive Exam Coaching** on this even semester 2022-2023, interested students are requested to enroll their name to respective course in charges on or before **11.02.2023**.

Gate	-	Mr.V.Aravind
Competitive Exam	-	Mr.M.Vivekananthan

Course Incharge

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE PLAN

Sub. Name	:Gate exams coaching	**Branch/Year/Sem**	:B.EMech/IV/VI
Staff Name	:Mr.V.Aravind	**Batch**	:2020-2024

Objectives:

- To provide the guidance in various examinations such as GATE, Civil service, Engineering services, etc.
- To make students competent to attend Gate exams.
- To help learners make appropriate and realistic career choices and career direction.
- To provide academic facilities to the students aspiring for Central & state service examinations such as GATE, Engineering services, and etc.
- The purpose of the Competitive exams coaching is to test students' knowledge in subjects like Engineering and Science.

S.No	Topics	Hours Planned	Cumulative Hours
1	Introduction to Syllabus, Subjects and Question Pattern.	1	1
2	Engineering Thermodynamics Questions, Discussion	2	3
3	Design of Machine Elements Questions, Discussion	2	5
4	Heat and Mass Transfer Questions, Discussion	2	7
5	Thermal Engineering Questions, Discussion	2	9
6	Gas Dynamics Questions, Discussion	2	11
7	Manufacturing Questions, Discussion	1	12
8	Fluid Mechanics Questions, Discussion	2	14
9	Mock Test-I	3	17
10	Metrology and Measurements Questions, Discussion	1	18
11	Engineering Metallurgy Questions, Discussion	1	19

12	Dynamics of Machines Questions, Discussion	2	21
13	Mechanics of Metal Cutting Questions, Discussion	1	22
14	Strength of Materials Questions, Discussion	2	24
15	Revision	2	26
16	Mock Test-II	3	29
17	Feedback	1	30

Staff In-Charge

HOD/MECH

GATE Syllabus for Mechanical Engineering 2024

Engineering Mathematics:

- **Linear Algebra:** Matrix algebra, systems of linear equations, eigenvalues and eigenvectors.
- **Calculus:** Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple integrals; partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.
- **Differential equations:** In this section of GATE Mechanical Syllabus, we will learn First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.
- **Complex variables:** Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem
- and integral formula; Taylor and Laurent series.
- **Probability and Statistics:** Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.
- **Numerical Methods:** In this section of GATE Mechanical Syllabus, we will learn Numerical solutions of linear and non-linear algebraic equations; integration by trapezoidal and Simpson's rules; single and multi-step methods for differential equations

Applied Mechanics and Design:

- **Engineering Mechanics:** Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.
- **Mechanics of Materials:** In this section of GATE Mechanical Syllabus, we will learn about Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.
- **Theory of Machines:** Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.
- **Vibrations:** Free and forced vibration of single degree of freedom systems, the effect of damping; vibration isolation; resonance; critical speeds of shafts.

powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

- **Machining and Machine Tool Operations:** In this section of GATE Syllabus for Mechanical Engineering, we will learn Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming.
- **Metrology and Inspection:** Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM).
- **Computer Integrated Manufacturing:** In this section of GATE Syllabus for Mechanical Engineering, we will learn Basic concepts of CAD/CAM and their integration tools; additive manufacturing.
- **Production Planning and Control:** Forecasting models, aggregate production planning, scheduling, materials requirement planning; lean manufacturing.
- **Inventory Control:** Deterministic models; safety stock inventory control systems.
- **Operations Research:** Linear programming, simplex method, transportation, assignment,network flow models, simple queuing models, PERT and CPM.

GATE ME Exam Pattern 2024 (Expected)

Know the GATE Exam Pattern for Mechanical Engineering in detail below:

Particulars	Details
Total no. of questions	10 (GA) + 55 (subject) = 65 Questions
Question Type	1. Multiple Choice Questions (MCQ) 2. Numerical Answer Type (NAT) Questions
Maximum Marks	100
Duration of Exam	3 hours
Sections	General Aptitude (GA) + Candidate's Selected Subject
Weightage	General Aptitude: 15 Marks + Engineering Mathematics: 13 Marks + Subject Questions: 72 Marks = Total: 100 Marks
Marking Scheme	○ There will be a Negative Marking of 1/3 rd for 1 mark questions. ○ There will be a negative marking of 2/3rd for 2 mark questions. ○ There is no negative marking for a wrong answer in NAT questions.

Format-QP06

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DEPARTMENT OF MECHANICAL ENGINEERING

TIME TABLE (JANUARY 2023 – MAY 2023, EVEN SEM)

B.E – MECH (Reg. 2017) - With Effect from 31.01.2023-Tentative Last Working Day 12.05.23

Batch:2020-2024 Strength:39

Year: III SEC: A Semester: VI Class Room :209 Block: II

Session	1	2	10.45 am - 11.00 am	3	4	12.30 pm - 01.10 pm	5	6	2.40 pm - 2.50 pm	7	8
Day	09.15am - 10.00am	10.00am - 10.45am		11.00am - 11.45am	11.45am - 12.30pm		01.10pm - 01.55pm	01.55 pm - 02.40 pm		2.50 pm - 3.35 pm	03.35 pm - 04.20pm
MON	ME8692	ME8692	BREAK	LIB/NET	T&P (A)	LUNCH BREAK	ME8091	ME8691	BREAK	ME8694	ME8691
TUE	ME8693	ME8693		ME8651	ME8651		ME8681(B1) ME8682 (B2)			ME8681(B1) ME8682(B2)	
WED	ME8693	ME8694		ME8693	ME8091		HS8581			ME8693	ME8691
THU	ME8091	ME8091		ME8694	ME8693		ME8681(B2) ME8682 (B1)			ME8681(B2) ME8682(B1)	
FRI	ME8694	ME8692		ME8692	T&P (SS)		ME8651	ME8651		S (B1)/ Y (B2)	S (B2)/ Y (B1)
SAT	ME8651	ME8691		ME8651	ME8693		ME8692	Seminar		GATE	NPTEL

SUB CODE	NAME OF THE SUBJECT	CATEGORY	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/ WEEK
TUTORIAL (T), ELECTIVE (E)						
ME8651	Design of Transmission Systems	PC	3	Mr.M.Sakthivel	MECH	6
ME8691	Computer Aided Design and Manufacturing	PC	3	Mr. S.Sabanayagam	MECH	4
ME8693	Heat and Mass Transfer	PC	4(T)	Mr.R.Rajadurai	MECH	7
ME8692	Finite Element Analysis	PC	3	Dr.PP.Shantharaman	MECH	5
ME8694	Hydraulics and Pneumatics	PC	3	Mr. M.Vivekanandhan	MECH	4
ME8091	Automobile Engineering	PE	3(E1)	Dr.T.Pushparaj	MECH	4
PRACTICAL (P)						
ME8681	CAD / CAM Laboratory	PC	2	Mr. S.Desikan	MECH	4
ME8682	Design and Fabrication Project	EEC	2	Mr. S.Sabanayagam	MECH	4
HS8581	Professional Communication	EEC	1	Mr.G.Dinesh	ENG	2
VALUE ADDITIONINITIATIVES (VAI)						
GATE	GATE/Competitive exam coaching	VAI		Mr. V.Aravind	MECH	1
LIB/NET	Library/Internet hour	VAI		Mr. S.Sabanayagam Mr.M.Sakthivel Mr.R.Rajadurai	MECH	1
NPTEL	NPTEL/ SWAYAM/ Educational Training Programme	VAI		Mr. S.Sabanayagam	MECH	1
T&P (A)	Training & Placement (Aptitude)	VAI		Dr.B.Barankumar	T&P	1
T&P (SS)	Training & Placement (Soft skills)	VAI		Dr.K.Sudhakar	T&P	1
Seminar	Seminar	VAI		Mr. S.Sabanayagam	MECH	1
S/Y	Sports / Yoga	VAI		Mr. S.Balaganesh Mr. D.Balaji	MECH	2

CLASS CO-ORDINATOR	NAME OF THE REPRESENTATIVES	ROLL NO
Mr. S.Sabanayagam	D. Durairaj	11
CLASS COMMITTEE CHAIR PERSON	Mr. V.Aravind	

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN)

GATE COACHING

Students Name List

S.NO	ROLL NO	REG NO	NAME OF THE STUDENT	MARKS
1	2	821120114003	Akash M	80
2	4	821120114005	Arun E	79
3	9	821120114010	Bharani S	85
4	11	821120114013	Durairaj V	84
5	12	821120114014	Eraniyan K	86
6	15	821120114018	Hemanathan E	81
7	27	821120114318	Prakash K	90
8	30	821120114321	Ramprasad K	92
9	35	821120114326	Sathishkumar V	88
10	4	821120114033	Mohamed Rilwan H	85
11	8	821120114037	Ramprasath R	86
12	10	821120114039	Samikkannan M	89
13	17	821120114046	Subash P	92
14	18	821120114047	Sulthanabdulkadher R	95
15	22	821120114051	Vikram S	96
16	23	821120114052	Vimalraj P	94
17	24	821120114053	Vivek A	95
18	29	821120114305	Balaji S	95
19	30	821120114306	Harish ragavendra M	79
20	31	821120114307	Jahanraj J	80
21	32	821120114308	Kabil V	85
22	33	821120114309	Kabilan G	84
23	34	821120114310	Kabilan M	89

Staff In-Charge

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 (EVEN)

GATE COACHING

Students Name List

S.NO	ROLL NO	REG NO	NAME OF THE STUDENT	MARKS
1	2	821120114003	Akash M	85
2	4	821120114005	Arun E	86
3	9	821120114010	Bharani S	81
4	11	821120114013	Durairaj V	85
5	12	821120114014	Eraniyan K	87
6	15	821120114018	Hemanathan E	82
7	27	821120114318	Prakash K	83
8	30	821120114321	Ramprasad K	85
9	35	821120114326	Sathishkumar V	84
10	4	821120114033	Mohamed Rilwan H	85
11	8	821120114037	Ramprasath R	90
12	10	821120114039	Samikkannan M	92
13	17	821120114046	Subash P	90
14	18	821120114047	Sulthanabdulkadher R	88
15	22	821120114051	Vikram S	85
16	23	821120114052	Vimalraj P	87
17	24	821120114053	Vivek A	84
18	29	821120114305	Balaji S	83
19	30	821120114306	Harish ragavendra M	85
20	31	821120114307	Jahanraj J	90
21	32	821120114308	Kabil V	85
22	33	821120114309	Kabilan G	84
23	34	821120114310	Kabilan M	95

Staff In-Charge

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Department of Mechanical Engineering

Academic year 2022-23 (EVEN)

Spoken Tutorial Schedule

Spoken Tutorials on various Open Source Software is organized at our campus since 2011 in Association with IIT, Bombay and Ministry of HRD sponsored initiative. Series of workshop scheduled for this semester for all branches. Students clearing Online Test will be receiving certificates from IIT, Bombay.

Schedule	Tutorial Title	Branch & Year
24.05.2023	GIMP	II-Mech
23.05.2023	Blender	III-Mech
22.05.2023	Blender	IV-Mech

Note : Students should bring their ear phones to utilize the session in effective manner.

Venue : CAD Laboratory

19/5/23
Dept IQAC Member

HoD/MECH 19/5/23

H O.D
DEPARTMENT OF MECHANICAL ENGINEERING
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Department of Mechanical Engineering

Academic year 2022-23 (EVEN)

Spoken Tutorial report

Class : II MECH
Tutorial Title : GIMP
Date : 24.05.2023
Venue : CAD Laboratory

Students from II year Mechanical Engineering of strength 49 has attended GIMP organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objectives of the Program:

- To popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.
- To create knowledge on photo retouching, image composition and image authoring.

Session Photos

Outcomes of the Program:

- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive.

Dept IQAC member

HoD/Mech 29/5/23

H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

Principal 27/5/2023

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Department of Mechanical Engineering

Academic year 2022-23 (EVEN)

Spoken Tutorial report

Class	: III MECH (A&B)
Tutorial Title	: Blender
Date	: 23.05.2023
Venue	: CAD Laboratory

Students from III year Mechanical Engineering of strength 78 has attended Blender organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objectives of the Program:

- To create objects and characters for games, animations, and 3D printing.
- The objective of the program was to popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.

Session Photos

Outcomes of the Program:

- Understand the concepts of 3D modeling, fluid dynamics, rigging, naturalistic rendering, key-framed animation and video editing.
- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive.

Dept IQAC member

HoD/Mech 29/5/23

H.O.D

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KINGS COLLEGE OF ENGINEERING
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Department of Mechanical Engineering

Academic year 2022-23 (EVEN)

Spoken Tutorial report

Class : IV MECH
Tutorial Title : Blender
Date : 22.05.2023
Venue : CAD Laboratory

Students from IV year Mechanical Engineering of strength 45 has attended Blender organized by IIT, Bombay. The programme had incorporated more ideas among the students and the feedback found to be good.

Objectives of the Program:

- To create objects and characters for games, animations, and 3D printing.
- The objective of the program was to popularize the use of free and open source software and generate awareness of avoiding piracy of commercial software packages by adopting FOSS tools.

Session Photos

Outcomes of the Program:

- Understand the concepts of 3D modeling, fluid dynamics, rigging, naturalistic rendering, key-framed animation and video editing.
- Understand the use of Free and Open Source Software, which are user-friendly also.
- Generate awareness of avoiding pirated commercial software packages.
- Self-learn through distant education which is highly conducive.

26/5/23
Dept IQAC member

T. Purushyamy
HoD/Mech 27/5/23
H.O.D
DEPARTMENT OF MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM

J. [illegible] 27/5/2023
Principal

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1.2.2 - Universal Human Values Cell

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Department of Science and Humanities
Universal Human Values

Content

S.No	Particulars
1	UHV Module –I 2022-2023

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UNIVERSAL HUMAN VALUES

Students would get an initial exposure to human values through Universal Human Values – I.

OBJECTIVE:

The objective of the course is four fold:

1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
3. Strengthening of self-reflection.
4. Development of commitment and courage to act.

Course Duration: 30 Hours during academic Year

Expert Lecture Session scheduled

UHV Coordinator

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COURSE TOPICS:

The course has 30 hrs lectures in one module:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
2. Self-Exploration–what is it? - Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfillment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

7. Understanding the needs of Self ('I') and 'Body' - happiness and physical facility
8. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
9. Understanding the characteristics and activities of 'I' and harmony in 'I'
10. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
11. Programs to ensure Sanyam and Health.
12. Understanding the meaning of Trust; Difference between intention and competence
13. Understanding the harmony in the society (society being an extension of family)
14. Holistic perception of harmony at all levels of existence.
15. Natural acceptance of human values

This course is to be taught by faculty members from every department.

UHV Coordinator

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OUTCOME OF THE COURSE

By the end of the course, students are expected to become more aware of themselves, and their surroundings (family, society, nature); they would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.

They would have better critical ability, also become sensitive to their commitment towards what they have understood (human values, human relationship and human society). It is hoped that they would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

UHV Coordinator

08.11.2022

KCE

From

Dr.V.Sureshkumar

HoD / S&H

Kings College of Engineering

Punalkulam

To

The Principal

Kings College of Engineering

Punalkulam

Respected Madam,

Sub: Requesting to organize Students induction programme and UHV programme – reg:

As per Anna University guidelines we planned to organize Students induction programme and UHV programme for the first year students of academic year 2022-2023 from 14.11.2022 to 25.11.2022. Kindly give permission for the same.

Thanking you

Yours sincerely

8/11/22

(Dr.V.Sureshkumar)

08/11/2022

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON PROGRAMS / CERTIFICATE COURSE DURING THE ACADEMIC YEAR

Academic Year 2022-23

Syllabus, Course Plan, Time table, Evaluation, Certificate, Outcome

S.No	COURSE TITLE
1.	Universal Human Values (UHV) Module - I

8/11/22
Faculty In-Charge

8/11/22
HOD/S&H

08/11/2022
PRINCIPAL

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON PROGRAMS / CERTIFICATE COURSE DURING THE ACADEMIC YEAR

Academic Year 2022-23			
S.No	COURSE TITLE	NO. HOURS HANDLED	NO. OF STUDENTS ATTENDED
1.	Universal Human Values (UHV) Module - I	30	235

Total No. of Add-On courses organized : 1

No. of Students Attended :235

8/11/22
Faculty In-Charge

8/11/22
HOD/S&H

08/11/2022
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DEPARTMENT OF SCIENCE AND HUMANITIES

Student Induction Programme Schedule (R- 2021)

(14.11.2022 to 25.11.2022)

Batch:2022-2026

Year: I **Semester: I** **SECTION: CSE** **Class Room : 404**

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	2.50 pm - 3.00 pm	7	8
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.10pm	02.10pm - 02.50pm		03.00pm - 03.40pm	03.40pm - 04.20pm
14.11.22	Induction day		BREAK	Inaugural		LUNCH BREAK	HoD Interaction		BREAK	CC Interaction	
15.11.22	YOGA			YOGA			UHV			Lecture by Eminent People	
16.11.22	Alumni interaction			UHV			DF			DF	
17.11.22	NCC			UHV			Entry Level Analysis			Physical Activity	
18.11.22	Local Area			Visit			GSC Programme			Physical Activity	
21.11.22	UHV			Women Cell programme			CCC programme			Library	
22.11.22	UHV			NSS			Lecture by Eminent People			UHV	
23.11.22	Literary Activities			Literary Activities			DSA			DSA	
24.11.22	Local Area			Visit			YRC, RRC & CC/ CCC			UHV	
25.11.22	Creative Arts			Creative Arts			Alumni interaction			Valedictory	

NAME OF THE ACTIVITY	HOUR	NAME OF THE STAFF	DEPT
Induction day	4	Mrs.T.Gnanajeya	I year coordinator
HoD Interaction	2	Dr.V.Sureshkumar	HoD S&H
CC Interaction	2	Dr.G.Jeykrishnan	Mathematics
Literary Activities	4	Dr.M.Yasotha, Mr.G.Dhinesh & Mrs. C. Annice Vency	English
YOGA	4	Mr.V.Mannan Uma Shankar	Yoga instructor
Lecture by Eminent People	4	Dr. N.Mahesan & Prof. K.Saravanan Motivational Speakers	-
Department Familiarization (DF)	4	HoD / Senior Staff members	CSE
Department Specific Activities(DSA)	4	Staff Members	CSE
Universal Human Values (UHV)	14	UHV Mentors	S&H
Entry Level Analysis	2	Mrs.K.Abhirami	IQAC
Physical Activity	4	Mr.V.Rajendran	PED
Creative Arts	4	Mr.R.Sathyaraj	FAA
GSC Programme	2	Dr.V.Sivakumar, AP, Serfoji Govt. Arts College. TNJ	GSC
Local Area Visit	8	Dr.S.Udayakumar & Mrs.T.Gnanajeya	S&H
NSS, NCC, YRC,CC &CCC	6	Programme Officer / Coordinators	Extension activities
Women Cell & CCC	4	Dr.P.J.Jeyalakshmi, Vice Principal, Sri Meenakshi Vidiyal Arts & Science College, Trichy Mrs. D.Latha Uthaman, President, District Consumer Association, Pudukkottai.	Extension activities
Alumni Interaction	4	Mr.P.Rajapriyan	Alumni cell
Library	2	Mr.V.Srinivasan	Library
Valedictory	2	Dr.V.Sureshkumar & Mrs.T.Gnanajeya	S&H

9/11/22
SIP Coordinator

I Year Coordinator
9/11/22

9/11/22
HoD S& H

10/11/2022
Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Student Induction Programme Schedule (R- 2021)

(14.11.2022 to 25.11.2022)

Batch:2022-2026

Year: I **Semester: I** **SECTION: ECE A** **Class Room : 405**

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	2.50 pm - 3.00 pm	7	8
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.10pm	02.10pm - 02.50pm		03.00pm - 03.40pm	03.40pm - 04.20pm
14.11.22	Induction day		BREAK	Inaugural		LUNCH BREAK	HoD Interaction		BREAK	CC Interaction	
15.11.22	YOGA			YOGA			UHV			Lecture by Eminent People	
16.11.22	Alumni interaction			UHV			DF			DF	
17.11.22	NCC			UHV			Physical Activity			Entry Level Analysis	
18.11.22	Local Area			Visit			GSC Programme			Library	
21.11.22	UHV			Women Cell programme			CCC programme			Physical Activity	
22.11.22	UHV			NSS			Lecture by Eminent People			UHV	
23.11.22	Literary Activities			Literary Activities			DSA			DSA	
24.11.22	Local Area			Visit			YRC, RRC & CC/ CCC			UHV	
25.11.22	Creative Arts			Creative Arts			Alumni interaction			Valedictory	

NAME OF THE ACTIVITY	HOUR	NAME OF THE STAFF	DEPT
Induction day	4	Mrs.T.Gnanajeya	I year coordinator
HoD Interaction	2	Dr.V.Sureshkumar	HoD S&H
CC Interaction	2	Dr.S.Udayakumar	Chemistry
Literary Activities	4	Dr.M.Yasotha, Mr.G.Dhinesh & Mrs. C. Annice Vency	English
YOGA	4	Mr.V.Mannan Uma Shankar	Yoga instructor
Lecture by Eminent People	4	Dr. N.Mahesan & Prof. K.Saravanan Motivational Speakers	-
Department Familiarization (DF)	4	HoD / Senior Staff members	ECE
Department Specific Activities(DSA)	4	Staff Members	ECE
Universal Human Values (UHV)	14	UHV Mentors	S&H
Entry Level Analysis	2	Mrs.K.Abhirami	IQAC
Physical Activity	4	Mr.V.Rajendran	PED
Creative Arts	4	Mr.R.Sathyaraj	FAA
GSC Programme	2	Dr.V.Sivakumar, AP, Serfoji Govt. Arts College. TNJ	GSC
Local Area Visit	8	Dr.S.Udayakumar & Mrs.T.Gnanajeya	S&H
NSS, NCC, YRC,CC &CCC	6	Programme Officer / Coordinators	Extension activities
Women Cell & CCC	4	Dr.P.J.Jeyalakshmi, Vice Principal, Sri Meenakshi Vidiyal Arts & Science College, Trichy Mrs. D.Latha Uthaman, President, District Consumer Association, Pudukkottai.	Extension activities
Alumni Interaction	4	Mr.P.Rajapriyan	Alumni cell
Library	2	Mr.V.Srinivasan	Library
Valedictory	2	Dr.V.Sureshkumar & Mrs.T.Gnanajeya	S&H

9/11/22
SIP Coordinator

I Year Coordinator
9/11/22

9/11/22
HoD S& H

10/11/2022
Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Student Induction Programme Schedule (R- 2021)

(14.11.2022 to 25.11.2022)

Batch:2022-2026

Year: I **Semester: I** **SECTION: ECE B/ CIVIL** **Class Room : 406**

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	2.50 pm - 3.00 pm	7	8
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.10pm	02.10pm - 02.50pm		03.00pm - 03.40pm	03.40pm - 04.20pm
14.11.22	Induction day		BREAK	Inaugural		LUNCH BREAK	HoD Interaction		BREAK	CC Interaction	
15.11.22	YOGA			YOGA			UHV			Lecture by Eminent People	
16.11.22	Alumni interaction			UHV			DF			DF	
17.11.22	NCC			UHV			Physical Activity			Entry Level Analysis	
18.11.22	Local Area			Visit			GSC Programme			Library	
21.11.22	UHV			Women Cell programme			CCC programme			Physical Activity	
22.11.22	UHV			NSS			Lecture by Eminent People			UHV	
23.11.22	Literary Activities			Literary Activities			DSA			DSA	
24.11.22	Local Area			Visit			YRC, RRC & CC/ CCC			UHV	
25.11.22	Creative Arts			Creative Arts			Alumni interaction			Valedictory	

NAME OF THE ACTIVITY	HOUR	NAME OF THE STAFF	DEPT
Induction day	4	Mrs.T.Gnanajeya	I year coordinator
HoD Interaction	2	Dr.V.Sureshkumar	HoD S&H
CC Interaction	2	Dr.V.Vijayalakshmi	Mathematics
Literary Activities	4	Dr.M.Yasotha, Mr.G.Dhinesh & Mrs. C. Annice Vency	English
YOGA	4	Mr.V.Mannan Uma Shankar	Yoga instructor
Lecture by Eminent People	4	Dr. N.Mahesan & Prof. K.Saravanan Motivational Speakers	-
Department Familiarization (DF)	4	HoD / Senior Staff members	ECE/ Civil
Department Specific Activities(DSA)	4	Staff Members	ECE/ Civil
Universal Human Values (UHV)	14	UHV Mentors	S&H
Entry Level Analysis	2	Mrs.K.Abhirami	IQAC
Physical Activity	4	Mr.V.Rajendran	PED
Creative Arts	4	Mr.R.Sathyaraj	FAA
GSC Programme	2	Dr.V.Sivakumar, AP, Serfoji Govt. Arts College, TNJ	GSC
Local Area Visit	8	Dr.S.Udayakumar & Mrs.T.Gnanajeya	S&H
NSS, NCC, YRC,CC &CCC	6	Programme Officer / Coordinators	Extension activities
Women Cell & CCC	4	Dr.P.J.Jeyalakshmi, Vice Principal, Sri Meenakshi Vidiyal Arts & Science College, Trichy Mrs. D.Latha Uthaman, President, District Consumer Association, Pudukkottai.	Extension activities
Alumni Interaction	4	Mr.P.Rajapriyan	Alumni cell
Library	2	Mr.V.Srinivasan	Library
Valedictory	2	Dr.V.Sureshkumar & Mrs.T.Gnanajeya	S&H

9/11/22
SIP Coordinator

I Year Coordinator
9/11/22

9/11/22
HoD S& H

10/11/2022
Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Student Induction Programme Schedule (R- 2021)

(14.11.2022 to 25.11.2022)

Batch:2022-2026
Year: I Semester: I SECTION: EEE Class Room : 408

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	2.50 pm - 3.00 pm	7	8
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.10pm	02.10pm - 02.50pm		03.00pm - 03.40pm	03.40pm - 04.20pm
14.11.22	Induction day		BREAK	Inaugural		LUNCH BREAK	HoD Interaction		BREAK	CC interaction	
15.11.22	YOGA			YOGA			UHV			Lecture by Eminent People	
16.11.22	Alumni interaction			UHV			DF			DF	
17.11.22	NCC			UHV			Entry Level Analysis			Physical Activity	
18.11.22	Local Area			Visit			GSC Programme			Physical Activity	
21.11.22	UHV			Women Cell programme			CCC programme			Library	
22.11.22	UHV			NSS			Lecture by Eminent People			UHV	
23.11.22	Literary Activities			Literary Activities			DSA			DSA	
24.11.22	Local Area			Visit			YRC, RRC & CC/ CCC			UHV	
25.11.22	Creative Arts			Creative Arts			Alumni interaction			Valedictory	

NAME OF THE ACTIVITY	HOUR	NAME OF THE STAFF	DEPT
Induction day	4	Mrs.T.Gnanajeya	I year coordinator
HoD Interaction	2	Dr.V.Sureshkumar	HoD S&H
CC Interaction	2	Mrs.S.Anuradha	Physics
Literary Activities	4	Dr.M.Yasotha, Mr.G.Dhinesh & Mrs. C. Annice Vency	English
YOGA	4	Mr.V.Mannan Uma Shankar	Yoga instructor
Lecture by Eminent People	4	Dr. N.Mahesan & Prof. K.Saravanan Motivational Speakers	-
Department Familiarization (DF)	4	HoD / Senior Staff members	EEE
Department Specific Activities(DSA)	4	Staff Members	EEE
Universal Human Values (UHV)	14	UHV Mentors	S&H
Entry Level Analysis	2	Mrs.K.Abhirami	IQAC
Physical Activity	4	Mr.V.Rajendran	PED
Creative Arts	4	Mr.R.Sathyaraj	FAA
GSC Programme	2	Dr.V.Sivakumar, AP, Serfoji Govt. Arts College. TNJ	GSC
Local Area Visit	8	Dr.S.Udayakumar & Mrs.T.Gnanajeya	S&H
NSS, NCC, YRC,CC &CCC	6	Programme Officer / Coordinators	Extension activities
Women Cell & CCC	4	Dr.P.J.Jeyalakshmi, Vice Principal, Sri Meenakshi Vidiyal Arts & Science College, Trichy Mrs. D.Latha Uthaman, President, District Consumer Association, Pudukkottai.	Extension activities
Alumni Interaction	4	Mr.P.Rajapriyan	Alumni cell
Library	2	Mr.V.Srinivasan	Library
Valedictory	2	Dr.V.Sureshkumar & Mrs.T.Gnanajeya	S&H

9/11/22
SIP Coordinator

I Year Coordinator 9/11/22

9/11/22
HoD S&H

10/11/2022
Principal

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DEPARTMENT OF SCIENCE AND HUMANITIES

Student Induction Programme Schedule (R- 2021)

(14.11.2022 to 25.11.2022)

Batch:2022-2026

Year: I **Semester: I** **SECTION: MECH** **Class Room : 407**

Session	1	2	10.55 am - 11.10 am	3	4	12.50 pm - 01.30 pm	5	6	2.50 pm - 3.00 pm	7	8
Day	09.15am - 10.05am	10.05am - 10.55am		11.10am - 12.00pm	12.00pm - 12.50pm		01.30pm - 02.10pm	02.10pm - 02.50pm		03.00pm - 03.40pm	03.40pm - 04.20pm
14.11.22	Induction day		BREAK	Inaugural		LUNCH BREAK	HoD Interaction		BREAK	CC interaction	
15.11.22	YOGA			YOGA			UHV			Lecture by Eminent People	
16.11.22	Alumni interaction			UHV			DF			DF	
17.11.22	NCC			UHV			Physical Activity			Entry Level Analysis	
18.11.22	Local Area			Visit			GSC Programme			Library	
21.11.22	UHV			Women Cell programme			CCC programme			Physical Activity	
22.11.22	UHV			NSS			Lecture by Eminent People			UHV	
23.11.22	Literary Activities			Literary Activities			DSA			DSA	
24.11.22	Local Area			Visit			YRC, RRC & CC/ CCC			UHV	
25.11.22	Creative Arts			Creative Arts			Alumni interaction			Valedictory	

NAME OF THE ACTIVITY	HOUR	NAME OF THE STAFF	DEPT
Induction day	4	Mrs.T.Gnanajeya	I year coordinator
HoD Interaction	2	Dr.V.Sureshkumar	HoD S&H
CC Interaction	2	Dr.P.Saravanan	Chemistry
Literary Activities	4	Dr.M.Yasotha, Mr.G.Dhinesh & Mrs. C. Annice Vency	English
YOGA	4	Mr.V.Mannan Uma Shankar	Yoga instructor
Lecture by Eminent People	4	Dr. N.Mahesan & Prof. K.Saravanan Motivational Speakers	-
Department Familiarization (DF)	4	HoD / Senior Staff members	MECH
Department Specific Activities(DSA)	4	Staff Members	MECH
Universal Human Values (UHV)	14	UHV Mentors	S&H
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Physical Activity	4	Mr.V.Rajendran	PED
Creative Arts	4	Mr.R.Sathyaraj	FAA
GSC Programme	2	Dr.V.Sivakumar, AP, Serfoji Govt. Arts College. TNJ	GSC
Local Area Visit	8	Dr.S.Udayakumar & Mrs.T.Gnanajeya	S&H
NSS, NCC, YRC,CC &CCC	6	Programme Officer / Coordinators	Extension activities
Women Cell & CCC	4	Dr.P.J.Jeyalakshmi, Vice Principal, Sri Meenakshi Vidiyal Arts & Science College, Trichy Mrs. D.Latha Uthaman, President, District Consumer Association, Pudukkottai.	Extension activities
Alumni Interaction	4	Mr.P.Rajapriyan	Alumni cell
Library	2	Mr.V.Srinivasan	Library
Valedictory	2	Dr.V.Sureshkumar & Mrs.T.Gnanajeya	S&H

9/11/22
SIP Coordinator

I Year Coordinator 9/11/22

9/11/22
HoD S& H

10/11/2022
Principal

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Department of Science and Humanities

Academic Year 2022-2023

Universal Human Values

Resource Person Details

S.No	Name of the resource Person	Designation & Affiliation
1	Dr.V.Sureshkumar	HoD, S&H, Kings College of Engineering
2	Dr. S. Udayakumar	AP, S&H, Kings College of Engineering
3	Dr. P.Saravanan	AP, S&H, Kings College of Engineering

8/11/2022
UHV Coordinator

08/11/2022
PRINCIPAL

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Punalkulam, Gandarvakottai (tk), Near Thanjavur, Pudukkottai - 613303

CERTIFICATE

This is to certify that **Ms. D. Kiruthika** of **I year Electronics and Communication Engineering** has actively participated in the Programme on **Universal Human Values** between 15.11.2022 to 07.08.2023, organized by UHV Cell, Kings College of Engineering, Punalkulam.

Dr. S. Udayakumar
UHV Coordinator

Dr. V. Sureshkumar
HOD/S&H

Dr. J. Arputha Vijaya Selvi
Principal

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Punalkulam, Gandarvakottai (tk), Near Thanjavur, Pudukkottai - 613303

CERTIFICATE

This is to certify that **Mr. S. Vijay** of **I year Civil Engineering** has actively participated in the Programme on **Universal Human Values** between 15.11.2022 to 07.08.2023, organized by UHV Cell, Kings College of Engineering, Punalkulam.

Dr. S. Udayakumar
UHV Coordinator

Dr. V. Sureshkumar
HOD/S&H

Dr. J. Arputha Vijaya Selvi
Principal

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DEPARTMENT OF TRAINING AND PLACEMENT

ACADEMIC YEAR 2022-2023

ADD-ON COURSE

KINGS COLLEGE OF ENGINEERING
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DEPARTMENT OF TRAINING AND PLACEMENT

ACADEMIC YEAR 2022-2023

ADD- ON COURSE

SYLLABUS & COURSE PLAN

CONTENT

S .NO	PARTICULAR	REMARKS
1.	SYLLABUS & COURSE PLAN (SOFT SKILLS (SK) & APTITUDE(AP) (SK03&04,AP03&04,SK05&06,AP05&06,SK07&08 and AP07&08)	II, III & IV YEAR

DEPARTMENT OF TRAINING AND PLACEMENT

Ref: ADD ON PROGRAM/01/22-23 **CIRCULAR** **08.08.2022**

We are planning to conduct an ADD- ON PROGRAM on soft skills and Aptitude for IV, III, and II year students during in the academic year 22-23 in order to train and develop them to fit the threshold of the existing job market. In this regard, we ask all of the aforementioned students to register their name and branch with their respective ADD ON PROGRAM Coordinator on or before 10th August, 2022 to participate in the programme.

Note: HoDs and Placement coordinators are requested to take a necessary step.

VP/HEAD- T&P

08/8/2022

PRINCIPAL

Cc:
Secretary, CEO
All HoDs (circulate to the placement coordinators and relevant classes)

ADD ON PROGRAM REPORT
ACADEMIC YEAR 2022-2023

NAME OF THE PROGRAM: ADD ON PROGRAM

NAME OF THE COURSE: SOFT SKILLS / APTITUDE

YEAR/SEM: ALL IV/III/II /ODD/ EVEN (CIVIL, CSE, ECE, EEE & MECH)

DURATION: 30 HOURS

NUMBER OF STUDENTS BENEFITED: IV YR- 165, III YR – 240 & II YR – 221.

NAME OF THE RESOURCE PERSON: SOFT SKILLS – Dr.K.SUDHAKAR & Dr.B.SURESH BABU

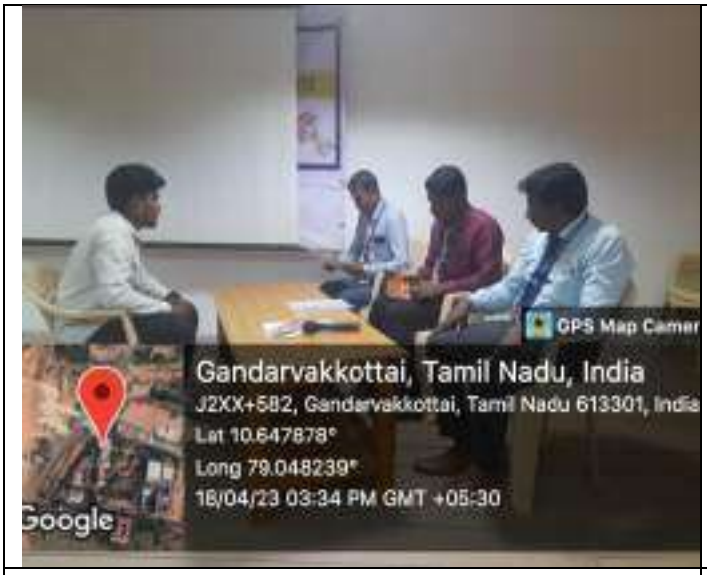
APTITUDE - Dr.B.BARANKUMAR & Ms.P.SUGANYA

The Department of Training and Placement clearly understands the needs of today's job market requirements and strives hard to provide an add-on training program on soft skills and quantitative aptitude with a well structured syllabus for the II, III, and IV year students, which helps them enhance their employability skills.

Recognizing this need, a regular soft skills and quantitative aptitude training program was conducted during the academic year 22–23 ODD and EVEN semesters for the benefit of IV, III, and II year students, with the sole objective of bridging the gap between academic learning and industry requirements.

Program Structure: The training program was designed into modules covering various topics of soft skills and quantitative aptitude:

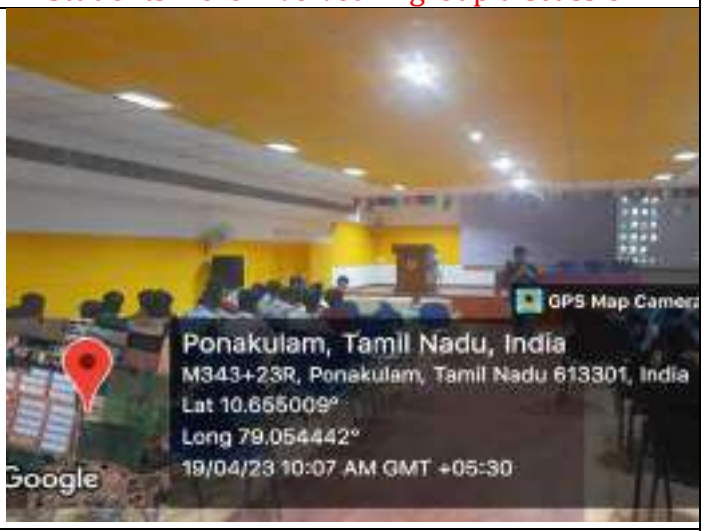
1. **Communication Skills:** Effective communication is vital in working environments. Students acquired training in verbal and written communication, active listening, and presenting skills.
2. **Teamwork and Collaboration:** In today's corporate sector, it expects the team work concept in their business environment and prefer the students who can work well in teams. Hence, students were given training in the concept through interactive activities and group discussions.
3. **Body Language:** Body language is referred as a very significant non verbal communication. In this part, students were taught about negative and positive body languages, which needs to be cared in the work place as well as during recruitment events.
4. **Problem-Solving Skills:** Students were exposed to real-world problems and taught systematic problem-solving techniques.
5. **Time Management:** Effective time management is indispensable for efficiency and success. Students were trained on prioritization of task, goal setting, and task organization to optimize their time management skills.
6. **Quantitative Aptitude:** Ability in mathematics and numerical analysis is essential for many technical roles. Students received rigorous training in mathematical concepts, data interpretation, and quantitative reasoning.



View of a Mock interview session

Students were involved in group discussion

Students during the lecture of soft skills training



A Student deliver a speech on the stage

Students enjoying the session with games

Mrs. P. Suganya, AP/Aptitude trainer, is handling aptitude training for the students.

Training Methodology: The training program engaged a variety of methodologies to ensure effective learning:

1. **Lectures:** Expert trainers delivered lectures on key concepts to reinforce learning.
2. **Role-Playing Training:** Students participated in role-playing activities and games on team building, time management, and leadership skills to simulate real-world scenarios and practice interpersonal skills. Mock interviews and mock GDs were conducted for the final-year students to familiarize them with attending group discussions and interviews confidently in the real situation.
3. **ICT Learning Resources:** Ancillary ICT resources and tools are provided to facilitate self-determined learning and continuous improvement.
4. **Quantitative aptitude Training on Company based questions:** To develop the quantitative aptitude ability, students were given practice on company-specific aptitude questions and discussed during the regular training sessions. Also, MCQs were given to the students for class activities on various models of quantitative aptitude.

Outcomes: The training program offered significant positive outcomes:

1. **Improved Employability Skills:** Students who had a well-rounded skill set were prepared for better career opportunities and job interviews.
2. **Enhanced Soft Skills:** Participants exposed growth in their capacity for problem-solving, teamwork, interpersonal relationship and communication.
3. **Better Confidence Building:** The training instilled self-confidence and enabled students to approach interviews in group discussions with affirmation.
4. **Improved Quantitative Aptitude:** Students exhibit increased proficiency in mathematical concepts and quantitative reasoning.

Conclusion: The Soft Skills and Quantitative Aptitude Training Programme for the students of IV, III and II year proved to be instrumental in enhancing their employability skills. By focusing on both soft skills and quantitative aptitude, the program efficiently encouraged the holistic needs of students, equipping them with the skills required to succeed in today's competitive job market.

As the program continues to evolve and expand, it is expected to make a significant contribution to the employability and career readiness of our students from their second year onwards, thereby nurturing their professional development and success in society.

VP/HEAD-T&P **PRINCIPAL**

DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT NAME & CODE: Soft Skills & SK03

YEAR : II

SEMESTER : III

PREPARED BY

Mr. B. Suresh Babu, AP

Dr. K. Sudhakar, AP

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DEPARTMENT OF TRAINING AND PLACEMENT
SYLLABUS
SOFT SKILLS – II YEAR - SK03

Unit I Introduction to soft skills & hard skills 2

Need for Soft Skills – Employability Skills – Need for Observation – Positive Attitude-

Unit II Break the ice berg – FEAR

Overcoming Fear 5 Life changing keys to overcome FEAR – Anglophobias.

Unit III Self-Development 2

Introduction – Importance of knowing yourself and process SWOT Analysis and Benefits of SWOT Analysis

Unit IV Communication Skills 2

Introduction – Importance of communication, Effective communication for Engineers – ways to develop communication

Unit V Forming Values 2

Introduction-a core of values-values relating to education-values relating to self and others – values relating to civic responsibilities - formation of values and types of values.

Total Periods: 10

BOOK FOR REFERENCE:

Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin- Quarto Library

STAFF INCHARGE **VP/HEAD T & P**

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DEPARTMENT OF TRAINING & PLACEMENT
COURSE PLAN

Sub. Name/Code: Soft Skills/SK03 **Branch/Year/Sem** : B.E (All Branch/II/III)
Batch : 2021-2025
Staff Name : Mr. B. SureshBabu & Dr. K. Sudhakar **Academic Year** : 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of soft skills to compete in the recruitment process.
2. To accomplish the knowledge on the employability skills.
3. To build skills to face challenges in job market.
4. To expose the talents during employment.
5. To enhance the soft skills to meet challenges in employment.

BOOKS FOR REFERENCE:

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.
T2. I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin- Quarto Library

WEB RESOURCES

W1. https:// www.wsd3.org/.../filedownload.ashx?...Employability%20Skills.ppt
W2. https://bemycareercoach.com/soft-skills/list-soft-skills.html
W3: https://www.sciencemag.org/careers/2016/02/how-fear-can-limit-your-career-potential
W4: https://ndl.iitkgp.ac.in

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name/Code: Soft Skills/SK03 **Branch/Year/Sem** : B.E (All Branch/II/III)
Batch : 2021-2025
Staff Name : Mr. B. SureshBabu & Dr. K. Sudhakar **Academic Year** : 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of soft skills to compete in the recruitment process.
2. To accomplish the knowledge on the employability skills.
3. To build skills to face challenges in job market.
4. To expose the talents during employment.
5. To enhance the soft skills to meet challenges in employment.

BOOKS FOR REFERENCE:

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.
T2. I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin- Quarto Library

WEB RESOURCES

W1. https:// www.wsd3.org/.../filedownload.ashx?...Employability%20Skills.ppt
W2. https://bemycareercoach.com/soft-skills/list-soft-skills.html
W3: https://www.sciencemag.org/careers/2016/02/how-fear-can-limit-your-career-potential
W4: https://ndl.iitkgp.ac.in

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	INTRODUCTION TO SOFT SKILLS & HARD SKILLS					**(2)**
1.	Need for Soft Skills, Employability Skills	T1 W1,	1-12	PPT, BB & intensive class room exercise	1	1
2.	Need for Observation Positive Attitude	W2 T1	--- 19-31	BB & intensive class room exercise	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the need for soft skills. • Understand the importance of positive attitude.						
	BREAK THE ICE BERG – FEAR					**(2)**
3.	Overcoming Fear 5 Life changing keys to overcome FEAR	T1 W3	100-102	PPT, BB & intensive class room exercise/ Mgmt games	1	3
4.	Anglophobias	W3	---	BB& intensive class room exercise	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand various concepts of phobias. • Identify the keys to overcome fear.						
	SELF DEVELOPMENT					**(2)**
5.	Introduction – Importance of knowing yourself and process	T1, T2 T1	164-165 33,179-185 164-168	PPT, BB & intensive class room exercise	1	5
6.	SWOT Analysis and Benefits of SWOT Analysis	T1	169-179	BB & intensive class room exercise	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Learn about themselves • Analyze and know their strengths and weaknesses						
	RESUME BUILDING					**(2)**
7.	Difference between Bio – data, CV, Resume	T1	185-186	BB & intensive class room exercise	1	7
8.	CV writing tips – Dos & Don'ts in CV writing, Designs of CV – Content, Sequence, Electronic CV tips – Cover letter – CV samples.	T1	187-189 189-192	PPT & intensive class room exercise	1	8

LEARNING OUTCOME At the end of unit, students should be able to • Analyze Differences between Bio – data, CV, Resume • Know and analyze content and sequences of CV						
Forming Values						
9.	Introduction-a core of values-values relating to education - values relating to self and others	T1	32-35	BB & intensive class room exercise	1	9
10.	values relating to civic responsibilities-formation of values and types of values	T1	36-46	BB & intensive class room exercise	1	10

COURSE OUTCOME

At the end of the course, the students will be able to

- Develop positive attitude
- Attend interviews without fear.
- Enough confidence and knowledge on facing challenges
- Write a appropriate CV for a job
- Know and forming the values needed in their career

CONTENT BEYOND THE SYLLABUS

Prepare a SWOT analysis chart to know your soft skills potential.

Prepared by
MR. B.SURESHBABU
Dr. K. SUDHAKAR

Verified by
VP/HEAD T & P

Approved by
PRINCIPAL

DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE –AP03

YEAR : II YEAR

SEMESTER : III

PREPARED BY,

Ms. P.SUGANYA / AP

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TRAINING MODULES

AP03-QUANTITATIVE APTITUDE – II YEAR (Third Semester)

Problems on Numbers – Definition – Types of numbers – Test of divisibility – Place and Face value problems 2

Simplification –BODMAS rule – Modular of a real number – Virnaculum 2

Permutation & Combination– Definition, Factorial notation and examples , Difference between Permutation and Combination – Number of combinations and its types of problems 2

Probability– Definitions and conditions of coins, dice, and cards, Sample space and Probability formulas – Problems of coins, dice, cards examples 2

Odd man out series – Concepts and conditions of odd man out series –types of odd man out series, number and alphabetical series 2

Total Periods: 10

P. Srv
STAFF INCHARGE

VP/HEAD T & P

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DEPARTMENT OF TRAINING & PLACEMENT

Sub. Name	**: Quantitative Aptitude**	**Branch / Year / Sem**	: B.E (All Branch/II/III)
Staff Name	**: Ms P.Suganya**	**Batch**	: 2021-2025
	Dr. B. Barankumar	**Academic Year**	: 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOK:

T1. Quantitative Aptitude - R.S. Aggarwal – S. Chand Publications

WEB RESOURCES

W1. www.indiabix.com – Problems on Numbers
W2. www.indeed.com - Simplification, Permutation & Combination
W3. www.freshersworld.com - Probability
W4. www.testpot.com – Odd man out series
W5. www.math4.com

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	Problems on numbers					(2)
1.	Definition & Types of numbers	T1	1-2	BB/PPT	1	1
2.	Test of Divisibility	T1,W1	3-15	BB/PPT	1	2

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the concept of numbers and test of divisibility
- Describe the conditions and its problems

	Simplification					(2)
3.	BODMAS rule and problems solved	T1,W2	67-74	BB/PPT	1	3
4.	Modular of a real number	T1,W2	75-94	BB/PPT	1	4

LEARNING OUTCOME

At the end of unit, students should be able to

- Understand the concept of BODMAS rule
- Describe Modular of a real number

	Permutation and Combination					(2)
5.	Definition, Factorial notation and examples , Difference between Permutation and Combination	T1,W2	613 -615	BB/PPT	1	5
6.	Number of combinations and its types of problems	T1,W2	616 -620	BB/PPT	1	6

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the concept of Permutation and combination
- Identify the difference between permutation and combination

	Probability					(2)
7.	Definitions and conditions of coins, dice, and cards, Sample space and probability formulas	T1,W3	621 -623	BB/PPT	1	7
8.	Problems of coins, dice, cards examples	T1	624 -626	BB/PPT	1	8

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline knowledge on Probability
- Explain the difference between Sample space, event ,probability

Odd man out series						**(2)**
9.	Concepts and conditions of odd man out series	T1	649 -653	BB/PPT	1	9
10.	types of odd man out series, number and alphabetical series	T1,W4	654 - 657	BB/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Describe number series
- Identify alphabetical series

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE MODULES

1. Solving various Company Question papers.

Prepared by
Ms. P. SUGANYA

Verified By
VP/HEAD T & P

5/8/2022

Approved by
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DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT NAME & CODE: Soft Skills & SK05

YEAR : III

SEMESTER : V

PREPARED BY

Mr. B. Suresh Babu, AP

Dr. K. Sudhakar, AP

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SYLLABUS
SOFT SKILLS /SK05

Unit I
Know Thyself/ Understanding Self
Introduction to Soft skills-Self discovery-Developing positive attitude-Improving perceptions-Forming values

Unit II
Interpersonal Skills/ Understanding Others
Developing interpersonal relationship-Team building-group dynamics-Net working-Improved work relationship

Unit III
Communication Skills / Communication with others
Art of listening-Art of reading-Art of speaking-Art of writing-Art of writing e-mails-e mail etiquette

Unit IV
Corporate Skills / Working with Others
Developing body language-Practicing etiquette and mannerism-Time management-Stress management

Unit V
Selling Self / Job Hunting
Writing resume/cv-interview skills-Group discussion- Mock interview-Mock GD – Goal setting - Career planning

Book for Reference:

Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin- Quarto Library

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VP/HEAD T&P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name/Code: Soft Skills/SK05 **Branch/Year/Sem** : B.E (All Branch/III/V)
Batch : 2020-2024
Staff Name : Mr. B. Suresh Babu & Dr. K. Sudhakar **Academic Year** : 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of Career Planning.
2. To accomplish the knowledge on the communication skills.
3. To build skills to face challenges in the competitive world
4. To expose the right etiquette and manners in the society
5. To enhance the time management skills to meet challenges in employment.

BOOKS FOR REFERENCE:

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.
T2. I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin- Quarto Library

WEB RESOURCES

W1. https://positivepsychology.com/positive-mindset/
W2. https://www.youtube.com/watch?v=6y65U3v2b9c
W3. https://www.youtube.com/embed/vLNcPw_frN4om
W4. https:// https://www.youtube.com/watch?v=jxt0-sYYLBs /

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Unit I - Know Thyself/ Understanding Self						**(2)**
1.	Introduction to Soft skills Self discovery-Developing positive attitude	T1 W1	01-12 13-18 19-31	BB & intensive class room exercise/PPT	1	1
2.	Improving perceptions-Forming values	W2 T1	47-56 32-46	BB & intensive class room exercise/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the need for soft skills. • Understand the importance of positive attitude.						
Unit – II Interpersonal Skills/ Understanding Others						**(2)**
3.	Developing interpersonal relationship-Team building-group dynamics	T1 W3	134-146 ---	PPT,BB & intensive class room exercise/PPT	1	3
4.	Net working-Improved work relationship	W4	--	BB & intensive class room exercise/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand various concepts of phobias. • Identify the keys to overcome fear.						
Unit – III Communication Skills						**(2)**
5.	Art of listening-Art of reading-Art of speaking	T1	67-102	PPT, BB& intensive class room exercise/PPT	1	5
6.	Art of writing-Art of writing e-mails-etiquette	T1	103-116	BB& intensive class room exercise/PPT	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Learn about the importance of communication in corporate life • Strengthen their communication skills in reading, speaking and writing						
Unit - IV Corporate Skills / Working with Others						**(2)**
7.	Developing body language-Practicing etiquette and mannerism	T1	117-133 162-182	BB & intensive class room exercise/PPT	1	7

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
8.	Time management-Stress management	T1	220-234 235-250	PPT & intensive class room exercise/PPT	1	8

LEARNING OUTCOME

At the end of unit, students should be able to

- Understand the concept of body language and improving it
- Know significance of time management and stress management to overcome obstacles in their corporate life.

Unit – V Selling Self / Job Hunting (2)

9.	Writing Resume/CV, interview skills-Group discussion	T1	183-202	BB & intensive class room exercise/PPT	1	9
10.	Mock interview-Mock GD Goal setting - Career planning	T1	203-219 57-66	BB & intensive class room exercise/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze Differences between Bio – data, CV, Resume
- Prepare the Resume or CV on their own
- Know and analyze content and sequences of CV

COURSE OUTCOME

At the end of the course, the students will be able to

- Attend interviews without fear.
- Participate in GD and public debates
- Enough confidence and knowledge on facing challenges.
- Write a appropriate CV for a job

CONTENT BEYOND THE SYLLABUS

Application of soft skills in real life

Prepared by
MR. B.SURESHBABU
Dr. K. SUDHAKAR

Verified by
VP/HEAD T & P

Approved by
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DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE –AP05

YEAR : III YEAR

SEMESTER : V

PREPARED BY,

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TRAINING MODULES

AP05 - QUANTITATIVE APTITUDE - III YEAR (Fifth Semester)

Problems on Trains - Introduction, important condition and types of train problems - same direction, opposite direction - concepts and formulas for slower train, faster train. 2

Odd man out series -Concepts and conditions of odd man out series -types -alphabetical series 2

Time and Work - introduction - condition - formula and problems 2

H.C.F & L.C.M of Numbers - Definition - Conditions of H.C.F & L.C.M - Factorize and Division method 2

Profit and Loss - Concepts - formulas - types and problems 2

Total Periods : 10

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DEPARTMENT OF TRAINING & PLACEMENT

Sub. Name	**: Quantitative Aptitude**	**Branch / Year / Sem**	: B.E (All Branch/III/V)
Staff Name	**: Ms P.Suganya &**	**Batch**	: 2020-2024
	Dr. B.Barankumar	**Academic Year**	: 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOKS

T1. Quantitative Aptitude - R. S. Aggarwal – S. Chand Publications

WEB RESOURCES

W1. www.indiabix.com – Problems on Trains
W2. www.indeed.com – Odd man out series
W3. www.freshersworld.com – Time and Work
W4. www.testpot.com – HCF and LCM of numbers
W5. www.math4.com – Profit and Loss

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
PROBLEMS ON TRAINS						(2)
1.	Introduction, important condition and types of train problems – same direction, opposite direction	T1,W1	405-407	BB/PPT	1	1
2.	Concepts and formulas for slower train, faster train. Sample problems	T1	408-424	BB	1	2
LEARNING OUTCOME At the end of unit, students should be able to • To analysis the concept of problems on trains • Describe the conditions and its directions						
ODD MAN OUT SERIES						(2)
3.	Concepts and conditions of odd man out series	T1, W2	649 -653	BB/PPT	1	3
4.	Laws of Indices - laws of Surds. Sample problems	T1	654 - 657	BB	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Describe number series • Identify the alphabetical series						
TIME AND WORK						(2)
5.	Introduction – condition – formula	T1,W3	341-344	BB/PPT	1	5
6.	Sample Problems	T1	345-350	BB	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of Time and Work • Describe the conditions and its problems						
H.C.F & L.C.M OF NUMBERS						(2)
7.	Definition – Conditions of H.C.F & L.C.M – Factorize	T1	294-296	BB/PPT	1	7
8.	Division method	T1, W4	297 -301	BB	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Describe and Compare HCF and LCM of numbers • Analyze and solve the problems on HCF and LCM of numbers						
PROFIT AND LOSS						(2)
9.	Concepts – formulas – types	T1, W5	251 -256	BB/PPT	1	9
10.	Sample problems	T1	257 -269	BB	1	10
LEARNING OUTCOME At the end of unit, students should be able to • Analyze & Compare Profit and Loss • Solve the problems on various types.						

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE SYLLABUS

1. Solving various Company Question papers.

Prepared by
Ms. P. SUGANYA
Dr. B. BARANKUMAR

Verified By
VP/HEAD T & P

Approved by
PRINCIPAL

DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT NAME & CODE: Soft Skills & SK07

YEAR : IV

SEMESTER : VII

PREPARED BY

Mr. B. Suresh Babu, AP

Dr. K. Sudhakar, AP

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DEPARTMENT OF TRAINING & PLACEMENT
SYLLABUS
SOFT SKILLS (SK07) – IV YEAR (Seventh Semester)

1. Soft Skills for professionals 2

Creativity-Innovation-collaboration in the work place - Time Management- Stress Management.

2. Communication Skills 2

Effective communication for the work place – ways to develop communication - Role of Body Language during interview.

Activity –Testing the Communication skills of the students by providing various activities.

3. Interview Skills 2

A to Z of interview – Types of interview– Questions Asked – Reason for rejecting the candidate, on the day of interview – Dos and Don'ts in interview.

Activity: Mock interview

4. Group Discussion 2

Need and Scope – Characters Tested in a GD – Behavior in GD – Essential Elements

Activity: List of recent topics discussed

5. Mock GDs & Interviews 2

Total Periods: 10

STAFF INCHARGE

VP/HEAD T&P

DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name/Code: Soft Skills / SK07	**Branch / Year / Sem** : B.E (All Branches/IV/VII)
Staff Name: Mr. B. Suresh Babu &	**Batch** : 2019-2023
Dr. K. Sudhakar	**Academic Year** : 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of interview skills to compete in the recruitment process.
2. To accomplish the knowledge on the basics of stress management.
3. To build skills to participate in group discussions.
4. To impart and enhance the skills required for work culture to stick on for corporate life.
5. To build a better career opportunity path.

TEXT BOOKS

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

WEB RESOURCES

W1:https://study.com/academy/course/soft-skills-for-engineers.html
W2. http://study.com/academy/lesson/cultural-diversity-in-the-workplace-definition-trends-examples.html
W3. https://www.interviewbest.com/member/presentation
W4. http://www.gcflearnfree.org/interviewingskills/
W5: http://placement.freshersworld.com/basic-skills-required-for-gd/33121993

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Soft Skills for professionals						2
1.	Creativity-Innovation-collaboration in the work	W1 T1	42-44	PPT BB, Class Room Exercise	1	1
2.	Time Management- Stress Management.	W1 T1	50-52 53-54	BB, Class Room Exercise	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Understand the importance of creativity and innovation in professional field. • Analyze the role of time management for professional jobs • Identify the ways to handle the stress in professional life						
Communication Skills						2
3.	Effective communication for the work place, ways to developcommunication	T1	38-39	PPT	1	3
4.	Role of Body Language during interview.	T1	40-41	PPT, Video, BB Class Room Exercise	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Awareness about the need for the communication skills for effective job performance • Analyze the various ways to develop communication skills • Understand the role of body language during the interview process						
Interview Skills						2
5.	A to Z of interview – Types of interview, Questions Asked	T1, W3	25-27 28-29	PPT BB, Class Room Exercise	1	5
6.	Reason for rejecting the candidate – on the day of interview, Dos and Don'ts in interview	T1	78-79 80-82	PPT, Video, BB, Class Room Exercise	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of interview. • Analyze about skills related to attend interviews. • Awareness about the reasons for rejection of candidature						
Group Discussion						2
7.	Need and Scope – Characters Tested in a GD	T1	71-72	PPT, Video	1	7
8.	Behavior in GD – Essential Elements	W5	73-74	PPT, Video, Class Room Exercise	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of group discussion • Identify the skills and behaviors required to attend a group discussion • Ascertain dos and don'ts in group discussions						

Mock GDs and Interviews			2
9.	Mock GD	Classroom Activity	9
10.	Mock Interview	Classroom Activity	10

COURSE OUTCOME

At the end of the course, the students will be able to,

- Choose a best career for better future.
- Understand and apply the interview skills.
- Identify and apply skills required to get through in group discussions.
- Awareness about the role of stress for the self-development.
- Enough confidence and knowledge on approaching work culture.

EVALUATION TEST: Mock interviews and Group Discussions

Prepared by
Mr. B. SURESHBABU
Dr. K.SUDHAKAR

Verified By
VP/HEAD T&P

Approved by
PRINCIPAL

DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE –AP07

YEAR : IV YEAR

SEMESTER : VII

PREPARED BY,

Ms. P.SUGANYA / AP

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TRAINING MODULES

AP07 - QUANTITATIVE APTITUDE – IV YEAR (Seventh Semester)

Coding and Decoding - Introduction, important condition and types of number coding and alphabets coding – Analogy. 2

Reasoning – Odd man out series, Logical word sequence, mathematical orders 2

Time, Speed and Distance –Introduction and Concepts and difference between Time, Speed and Distance 2

H.C.F & L.C.M of Numbers – Definition – Conditions of H.C.F & L.C.M – Factorize and Division method 2

Blood Relations – Based on dialogue and conversation Puzzles 2

Total Periods: 10

P. Lm

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DEPARTMENT OF TRAINING & PLACEMENT

Sub. Name	**: Quantitative Aptitude**	**Branch / Year / Sem**	: B.E (All Branch/IV/VII)
Staff Name	**: Ms P.Suganya**	**Batch**	: 2019-2023
	Dr. B. Barankumar	**Academic Year**	: 2022-23(ODD)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOKS

T1. Quantitative Aptitude - R. S. Aggarwal – S. Chand Publications
T2. A Modern Approach to the verbal & Non – verbal reasoning – R.S. Aggarwal

WEB RESOURCES

W1. www.indiabix.com – Coding and Decoding, Reasoning, Blood Relations
W2. www.indeed.com – Reasoning
W3. www.freshersworld.com – Time, Speed and Distance
W4. www.testpot.com – HCF and LCM of numbers
W5. www.math4.com – Blood Relations

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	Coding and Decoding					**(2)**
1.	Introduction, important condition and types of number coding and	T1,W1	213 – 219	BB/PPT	1	1
2.	Alphabets coding – Analogy.	T1	194 -200	BB/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of coding and decoding concepts • Solve the problems on coding, alphabets coding and analogy.						
	Reasoning					**(2)**
3.	Definition – Reasoning and types of reasoning	T1,W2	649 – 657	BB/PPT	1	3
4.	Discussion of Company Question Paper	T1	658 – 665	BB/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of Reasoning and its types. • Identify the alphabetical and numerical types of problems						
(2)	**Time, Speed and Distance**					
5.	Introduction and Concepts	T1,W3	384 - 386	BB/PPT	1	5
6.	Difference between Time, Speed and Distance	T1,	387 -393	BB/PPT	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of Time, Speed and Distance • Describe the conditions and its problems						
(2)	**H.C.F & L.C.M of Numbers**					
7.	Definition – Conditions of H.C.F & L.C.M	T1,W4	30 - 34	BB/PPT	1	7
8.	Factorize and Division method	T1,	35 - 39	BB/PPT	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Describe and comparison of Highest Common Factor and Least Common Multiplier. • Analyze and solve the problems on percentage increase and decrease						
(2)	**Blood Relations**					
9.	Relations - Based on dialogue	T1, W5	466-470	BB/PPT	1	9
10.	Conversation method	T1	470-473	BB/PPT	1	10

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE SYLLABUS

1. Solving various Company Question papers.

Prepared by
Ms. P. SUGANYA

Verified By
VP/HEAD T & P

Approved by
PRINCIPAL

DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT	**: Soft Skills – SK04**
YEAR	**: II**
SEMESTER	**: IV**

PREPARED BY

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Dr. K. Sudhakar, AP

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DEPARTMENT OF TRAINING & PLACEMENT

SYLLABUS

SOFT SKILLS – II YEAR (Fourth Semester)

1. **Communication Skills Verbal - Oral Communication & Written Communication** 3
   Listening, Reading, Speaking, Writing, Letter Writing, Resume' Building, Tips on improved Written Communication
   Work up Exercise – Speak Out five lines about the person who inspired you, Test your hand writing

2. **Body Language** 2
   Body talk – Forms of body language- Parts of Body Language – Types of Body language – Improving your body Language – Gestures and Body movement
   Work up Exercise – Interpreting Body Language

3. **Priority Management & Time Management** 2
   Prioritization – levels – Stone, Pebbles, and Sand Experiment
   Class Participation – List your priorities in life
   Time Management - Availability of time – "Time" Resource -Become a Time Manager – resolve conflict between Urgent tasks & important tasks.
   Work Up Exercise – Calculation of your one day routine- How you spend & How to spend

4. **Group Discussions** 3
   Need & Scope- Characters tested in a GD- Tips on GD – Types of GD – Skills required in a GD- Behavior in GD- Essential elements – GD Etiquette – Non verbal communication in a GD
   Work up Exercise – Group Discussion

Total Periods: 10

STAFF INCHARGE

VP/HEAD T & P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name: Soft Skills	**Branch / Year / Sem** : B.E (All Branches/II/IV)
Staff Name: Mr. B. Suresh Babu	**Batch** : 2021 – 2025
Mr. K. Sudhakar	**Academic Year** : 2022 – 23(EVEN)

COURSE OBJECTIVE:

- To learn the importance of communication skills.
- To accomplish the knowledge on the basics of time and priority management.
- To impart knowledge about body language and its importance in corporate world.
- To train about group discussion and techniques to meet the corporate expectations.

TEXT BOOK:

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

WEB RESOURCES

W1. http://www.skillsyouneed.com/general/communication-skills.html **(Topic. No: 1)**
W2. http://www.positivityblog.com/index.php/2006/10/27/18-ways-to-improve-your-body-language/ **(Topic. No: 5)**
W3. https://www.mindtools.com/pages/main/newMN_HTE.htm **(Topic. No: 7)**
W4. https://www.tcyonline.com/tests/gd-group-discussion **(Topic. No: 8)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	COMMUNICATION SKILLS VERBAL - ORAL COMMUNICATION & WRITTEN COMMUNICATION					3
1.	Listening, Reading Speaking, Writing	T1,W1	67-87 88-108	BB	1	1
2.	Letter Writing, Resume' Building	T1	109-116 183-202	BB	1	2
3.	Tips on improved Written Communication	T1,W1	106	BB	1	3
	LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of communication skills • Understand and Improve listening, reading, writing and speaking skills.					
	BODY LANGUAGE					2
4.	Body talk – Forms of body language, Parts of Body Language	T1	119-120 120-121	BB	1	4
5.	Types of Body language Improving your body Language, Gestures and Body movement	T1, W2	122-125 125-127	PPT	1	5
	LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of body language. • Application of body language in real life situation.					
	PRIORITY MANAGEMENT & TIME MANAGEMENT					2
6.	Class Participation – List your priorities in life	T1	225-226	BB	1	6
7.	Availability of time – "Time" Resource -Become a Time Manager resolve conflict between Urgent tasks & important tasks	T1, W3	229-233	BB	1	7
	LEARNING OUTCOME At the end of unit, students should be able to • Describe and Compare priorities to execute in proper way. • Analyze and solve the problems raised due to lack of time management.					
	GROUP DISCUSSIONS					3
8.	Need & Scope Characters tested in a GD- Tips on GD	T1, W4	149-150 149-151	BB BB	1	8
9.	Types of GD Skills required in a GD	T1	151-152 152-154	BB PPT	1	9
10.	GD Etiquette – Non verbal communication in a GD	T1	154-156	BB	1	10
	LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of GD. • Aware and confident enough to attend Group Discussion without fear.					

COURSE OUTCOME

At the end of the course, the students will be able to

- Enhancement of communication skills such as listening, reading, writing, speaking skills.
- Identify and apply the body language in suitable situation.
- Enough confidence and knowledge in appearing Group Discussion.

CONTENT BEYOND THE SYLLABUS

Video presentation related to Communication Skills, Body Language and Group Discussion.

Prepared by
Mr. B. SURESHBABU/AP
Dr. K. SUDHAKAR/AP

11/2/23
Verified by
VP/HEAD - T & P

05/2/2023
Approved by
PRINCIPAL

Verified
1/2/23

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DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE – APO4

YEAR/ SEMESTER: II /IV

PREPARED BY

Ms. P.SUGANYA/AP

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TRAINING MODULES

AP04 - QUANTITATIVE APTITUDE – II YEAR (Fourth Semester)

Problems on Ages – Introduction – Conditions of ago, before and after, hence -Problems 2

Allegation or Mixture – Definition –mean price- rule of allegation or mixture –sample problems 2

Ratio and Proportion – Definition – important condition – formulae –difference between ratio and proportion 2

Partnership –Definition –ratio of division of gains –working and sleeping partners 2

Time and work –Introduction – Condition – formulae- sample problems 2

Total Periods : 10

P. Sm.
STAFF INCHARGE

VP/HEAD T&P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name: Quantitative Aptitude	**Branch / Year / Sem** : B.E (All Branch/II/IV)
Name : Ms P.Suganya	**Batch** : 2021-2025
	Academic Year : 2022-23(Even)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOK

T1. Quantitative Aptitude - R. S. Aggarwal – S. Chand Publications

WEB RESOURCES

W1. www.indiabix.com **(Topic No: 01, 02, 03, 04, 05)**
W2. www.sawaal.com **(Topic No: 02)**
W3. www.freshersworld.com **(Topic No: 03)**
W4. www.testpot.com **(Topic No: 04)**
W5. www.math4.com **(Topic No: 05)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Problems on Ages						(2)
1.	Introduction – conditions of ago, before	T1,W1	182 -183	BB/PPT	1	1
2.	After, hence -Problems	T1, W1	184 -192	BB/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of problems on age • Realize the difference between before and hence problems						
Allegation or Mixture						(2)
3.	Definition –mean price-rule of allegation or mixture	T1,W1,W2	435 -437	BB/PPT	1	3
4.	Sample problems	T1,W1,W2	438 -444	BB/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Outline knowledge Allegation or Mixture • Explain the Allegation or Mixture						
Ratio and Proportion						(2)
5.	Definition – important condition – formulae	T1,W1,W3	139 -141	BB/PPT	1	5
6.	Difference between ratio and proportion	T1W1,W3	142 -160	BB/PPT	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Describe Ratio and Proportion • Analyze and solve the problems on Ratio and Proportion						
Partnership						(2)
7.	Definition –ratio of division of gains	T1,W1,W4	311-313	BB/PPT	1	7
8.	Working and sleeping partners	T1,W1,W4	314-317	BB/PPT	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Describe working and sleeping partner • Analyze and solve the problems						
Time and Work						(2)
9.	Introduction – Condition – formulae and Problems	T1,W1,W5	341 -344	BB/PPT	1	9
10.	Sample problems	T1, W1,W5	345 -350	BB/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the concept of Time and Work
- Realize Time and Work

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE SYLLABUS

1. Solving various Company Question papers.

Prepared by
Ms. P. SUGANYA

Verified by
VP/HEAD T&P

Approved by
PRINCIPAL

Verified

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DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT : Soft Skills – SK06

YEAR : III

SEMESTER : VI

PREPARED BY

Mr. B. Suresh Babu, AP

Dr. K. Sudhakar, AP

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SYLLABUS
SOFT SKILLS – III YEAR (Sixth Semester)

1. Career Planning 2

Introduction – Developing career goals – Benefits of career planning – Guidelines for choosing a career – Tips for successful career planning

Exercise – Prepare yourself a better career planning

2. Communication Skills

Art of Listening – Art of Reading – Art of Speaking – Art of Writing - Art of writing e-mail 2

Exercise – Test your communication skills

3. Etiquette and Manners

Etiquette introduction – Modern Etiquette – Benefits of Etiquette – Introduction to Manners - Poor Manners noticed in youth – Why should you practice good manners?

Exercise – Test your Etiquette and Manners through online mode. 3

4. Resume Building

Difference between Bio – data, CV, Resume, CV writing tips – Dos & Don'ts in CV writing. Designs of CV – Content, Sequence Electronic CV tips – Cover letter – CV samples. 3

Book for Reference:

Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin - Quarto Library

Total Periods: 10

31/1/23
STAFF INCHARGE

31/1/23
VP/HEAD T & P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name	: **Soft Skills**	**Branch/Year/Sem**	: B.E (All Branches/III/VI)
		Batch	: 2020 – 2024
Staff Name	: Mr. B. Suresh Babu & Dr. K. Sudhakar	**Academic Year**	: 2022 – 23(EVEN)

COURSE OBJECTIVE:

1. To learn the importance of Career Planning.
2. To accomplish the knowledge on the communication skills.
3. To build skills to face challenges in the competitive world
4. To expose the right etiquette and manners in the society
5. To enhance the time management skills to meet challenges in employment.

BOOKS FOR REFERENCE:

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.
T2. I Just Love my Job – Roy Calvert, Brain Durkin Eugenio Grandi, Kevin - Quarto Library

WEB RESOURCES

W1. https://www.admitkard.com/blog-editor/career-planning/ **(Topic. No: 1, 2)**
W2. https://www.fluentin3months.com/reading-writing-speaking-and-listening/ **(Topic. No: 3, 4)**
W3. https://www.youtube.com/watch?v=54x4b32_L7U **(Topic. No: 5)**
W4: https://www.youtube.com/watch?v=bzA84_uNWIw **(Topic. No: 9)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Career Planning						2
1.	Introduction – Developing career goals – Benefits of career planning	T1 W1	57-66	BB & intensive class room exercise/PPT	1	1
2.	Guidelines for choosing a career – Tips for successful career planning Exercise – Prepare yourself a better career planning.	W1 T1	--- 57-66	BB & intensive class room exercise/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the need for soft skills. • Understand the importance of positive attitude.						
Communication Skills						2
3.	Art of Listening – Art of Reading – Art of Speaking – Art of Writing	T1 W2	88-108 ---	BB, PPT, Class room Exercise/PPT	1	3
4.	Art of writing e-mail Exercise – Test your communication skills.	W2 T1	-- 103-116	BB, PPT, Class room Exercise/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand various concepts of phobias. • Identify the keys to overcome fear.						
Etiquette and Manners						3
5.	Etiquette introduction – Modern Etiquette – Benefits of Etiquette.	W3 T1	162-182	BB, PPT, Class room Exercise/PPT	1	5
6.	Introduction to Manners, Poor Manners noticed in youth – Why should you practice good manners? Exercise – Test your	T1	162-182	BB, PPT, Class room Exercise/PPT	1	6

	etiquette and Manners through online mode.					
7.	**Manners** –Exercise good manners, manners at wheel, in flight, professional manners & Social Manners.	T1	169-179	BB, PPT, Class room Exercise/PPT	1	7

LEARNING OUTCOME

At the end of unit, students should be able to

- Learn various etiquette
- Analyze the types of interviews

Resume Building 3

8.	Difference between Bio – data, CV, Resume	T1	185-186	BB, PPT, Class room Exercise/PPT	1	8
9.	CV writing tips – Dos & Don'ts in CV writing Designs of CV – Content, Sequence	T1	187-189 189-192	BB, PPT, Class room Exercise/PPT	1	9
10.	Electronic CV tips – Cover letter – CV samples.	T1	193-195	BB, PPT, Class room Exercise/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze Differences between Bio – data, CV, Resume
- Know and analyze content and sequences of CV

COURSE OUTCOME

At the end of the course, the students will be able to

- Attend interviews without fear.
- Participate in GD and public debates
- Enough confidence and knowledge on facing challenges.
- Write a appropriate CV for a job
- Know about manners & Etiquette

CONTENT BEYOND THE SYLLABUS

Application of soft skills in real life

3/1/23

Prepared by

MR. B.SURESHBABU
DR. K. SUDHAKAR

1/2/23

Verified by

VP/HEAD – T & P

03/2/2023

Approved by

PRINCIPAL

Verified 1/2/23

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DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE – APO6

YEAR/ SEMESTER: III /VI

PREPARED BY

Ms. P.SUGANYA/AP

Dr. B.BARANKUMAR/AP

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TRAINING MODULE

AP06 - QUANTITATIVE APTITUDE – III YEAR (Sixth Semester)

Permutation and Combination –Definition – Factorial notation and examples, Difference between Permutation and Combination –Number of Combinations 2

Probability – Definition – conditions of coins, dice, cards and sample space and probability formulae – Problems 2

Average – Definition – formulae –average speed and sample problems 2

Time and Distance -Introduction-conditions–formulae and problems 2

Problems on Ages -Introduction – Conditions of ago, before and after, hence -Problems 2

Total Periods : 10

P. Sm.
STAFF INCHARGE

1/2/23
VP/HEAD T&P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name: Quantitative Aptitude
Name : Ms P.Suganya

Branch / Year / Sem : B.E (All Branch/III/VI)
Batch : 2020-2024
Academic Year : 2022-23(Even)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOK

T1. Quantitative Aptitude - R. S. Aggarwal – S. Chand Publications

WEB RESOURCES

W1. www.indiabix.com **(Topic No: 01,02,03,04,05)**
W2. www.sawaal.com **(Topic No:02)**
W3. www.freshersworld.com **(Topic No:03)**
W4. www.testpot.com **(Topic No:04)**
W5. www.math4.com **(Topic No:05)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Permutation and Combination						(2)
1.	Definition – Factorial notation and examples,	T1,W1	613-615	BB/PPT	1	1
2.	Difference between Permutation and Combination –Number of Combinations	T1,W1	616-620	BB/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to Analyze the concept of Permutation and Combination • Identify the difference between Permutation and Combination						
Probability						(2)
3.	Definition – conditions of coins, dice, cards and sample space	T1,W1,W2	621-623	BB/PPT	1	3
4.	Probability formulae – Problems	T1,W1,W2	624-631	BB/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Outline knowledge on Probability • Explain the difference between sample space, event and probability						
Average						(2)
5.	Definition – formulae – average speed	T1,W1,W3	139 -141	BB/PPT	1	5
6.	Sample problems	T1,W1,W3	142 -160	BB/PPT	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Describe average • Analyze and solve the problems on average						
Time and Distance						(2)
7.	Introduction-conditions–formulae	T1,W1,W4	384 -386	BB/PPT	1	7
8.	Sample Problems	T1W1,W4	387 -393	BB/PPT	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Describe Time and Distance • Analyze and solve the problems						
Problems on Ages						(2)
9.	Introduction – Conditions of ago, before	T1,W1,W5	182 -183	BB/PPT	1	9
10.	After, hence -Problems	T1,W1, W5	184 -192	BB/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the concept of problems on age
- Realize the difference between before and hence problems

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE SYLLABUS

1. Solving various Company Question papers.

P. Sn.

Prepared by
Ms. P. SUGANYA

1/2/23

Verified by
VP/HEAD T&P

J. Nanthini 03/2/2023

Approved by
PRINCIPAL

Verified
1/2/23

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DEPARTMENT OF TRAINING AND PLACEMENT

SUBJECT	**: Soft Skills – SK08**
YEAR	**: IV**
SEMESTER	**: VIII**

PREPARED BY

Mr. B. Suresh Babu, AP

Dr. K. Sudhakar, AP

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DEPARTMENT OF TRAINING & PLACEMENT

SYLLABUS

SOFTSKILLS – IV YEAR (Eight Semester)

1. Interview Skills 2

A to Z of interview – Types of interview – Phone interview – Questions Asked – Reason for rejecting the candidate – on the day of interview.

2. Group Discussion 2

Need and Scope – Characters Tested in a GD – Tips on GD – Types of GD – Skills Required in a GD – Behaviour in GD – Essential Elements – GD Etiquette – Non Verbal Communication in a GD.

3. Career Planning 2

Introduction – Guidelines for choosing a career plan – Tips for successful career planning – Exercise – Test your career interest.

4. Leadership Qualities & Work Culture: 2

Introduction – types of leadership – Leaders are born or made – common skills required for a successful leader – communication skills, public speaking skills, attitude, perseverance, empathy & etc, Work Culture: Introduction to Values – A model of team building – role team members.

5. Stress Management 2

Introduction – Kinds of stress - Sources of stress – Effects of stress – Spotting stress in you – Exercise – Test your level of stress.

Total Periods: 10

STAFF INCHARGE

VP/HEAD T & P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name: Soft Skills		Branch / Year / Sem	: B.E (All Branch/IV/VII)
Staff Name: Mr. B. Suresh Babu & Dr. K. Sudhakar		Batch	: 2019-2023
		Academic Year	: 2022-23(EVEN)

COURSE OBJECTIVE:

1. To learn the importance of interview skills to compete in the recruitment process.
2. To accomplish the knowledge on the basics of stress management.
3. To build skills to participate in group discussions.
4. To impart and enhance the skills required for work culture to stick on for corporate life.
5. To build a better career opportunity path.

TEXT BOOKS

T1. Soft Skills – Know yourself and the world - Dr. K. Alex– S. Chand & Co Ltd.

WEB RESOURCES

W1. https://en.wikipedia.org/wiki/Job_interview#Types **(Topic. No: 1)**
W2. https://www.mindtools.com/pages/article/newLDR_41.htm **(Topic. No: 7)**
W3. https://www.mindtools.com/ayjltrz/understanding-workplace-values **(Topic. No: 8)**
W4. https://www.rajras.in/stress-nature-types-sources-symptoms-effects/ **(Topic. No: 9)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
Interview Skills						2
1.	A to Z of interview - Types of interview - Phone interview	T1, W1	164-168	PPT	1	1
2.	Questions Asked - Reason for rejecting the candidate - on the day of interview.	T1	169-177	BB, Class Room Exercise	1	2
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of interview. • Analyze about skills related to attend interviews. • Awareness about the reasons for rejection of candidature						
Group Discussion						2
3.	Need and Scope - Tips on GD - Types of GD- Skills Required in a GD - Behavior in GD	T1	147 - 150	PPT	1	3
4.	Essential Elements - GD Etiquette - Non Verbal Communication in a GD - Characters Tested in a GD.	T1	150 - 151	PPT, Video, BB Class Room Exercise	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Understand the concept of group discussion • Identify the skills and behaviors required to attend a group discussion • Ascertain dos and don'ts in group discussions						
Career Planning						2
5.	Introduction - Guidelines for choosing a career plan, Tips for successful careerplanning	T1	59 - 62	PPT	1	5
6.	Exercise - Test yourcareer interest. CaseStudy - **Thyrocare's Velumani**	T1	62 - 63	PPT, BB, Class Room Exercise	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Awareness about the career planning • Analyze the various career opportunity available in general • Understand the skills required for choosing proper career for future						

Leadership Qualities & Work Culture						2
7.	Introduction - types of leadership - Leaders are born or made - common skills required for a successful leader communication skills, public speaking skills	W2	-	PPT, Video	1	7
8.	Attitude, perseverance, empathy & etc Work Culture - Introduction to Values - Individual behavior in work place- team building	T1,W3	100 34 - 40 137 - 145	PPT, Video, BB, Class Room Exercise	1	8

LEARNING OUTCOME

At the end of unit, students should be able to

- Understand the concept of leadership concept and styles.
- Analyze about the various skills needed to become a good leader.
- Understand the recent trends in work culture.
- Analyze the inner qualities needed to cope up with work culture efficiently.

Stress Management						2
9.	Introduction - Kinds of stress - Sources of stress	T1, W4	237,239-240	PPT	1	9
10.	Effects of stress - Spotting stress in you - Exercise - Test your level of stress.	T1	238,244-247	PPT, BB, Class Room Exercise	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Understand the concept of stress.
- Analyze about the reasons for causing of stress.
- Awareness about the measures taken to overcome stress.

COURSE OUTCOME

At the end of the course, the students will be able to

- Choose a best career for better future
- Understand and apply the interview skills.
- Identify and apply skills required to get through in group discussions
- Awareness about the role of stress for the self development
- Enough confidence and knowledge on approaching work culture

CONTENT BEYOND THE SYLLABUS

Mock interviews and Group Discussions.

Prepared by
Mr. B. SURESHBABU/AP
Dr. K. SUDHAKAR/AP

14/2/23
VP/HEAD - T & P

03/2/2023
Approved by
PRINCIPAL

Verified

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DEPARTMENT OF TRAINING & PLACEMENT

SUBJECT : QUANTITATIVE APTITUDE – AP08

YEAR/ SEMESTER: IV /VIII

PREPARED BY

Ms. P.SUGANYA/AP

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TRAINING MODULE

AP08 - QUANTITATIVE APTITUDE – IV YEAR (Eight Semester)

Seating Arrangements–Definition, condition, Linear arrangements and Circular arrangements	2
Syllogism–Introduction, concepts, tips, types and sample problems	2
Directions Sense Test – Introduction – Directions –Problems solving techniques	2
Mathematical Operations–Introduction, operators and artificial symbols and problems	2
Data Interpretation–Introduction, Bar charts, Pie charts and Table charts	2

Total Periods : 10

P. Sm.
STAFF INCHARGE

11/2/20
VP/HEAD T&P

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DEPARTMENT OF TRAINING & PLACEMENT

COURSE PLAN

Sub. Name: Quantitative Aptitude	**Branch / Year / Sem** : B.E (All Branch/IV/VIII)
Name : Ms P.Suganya	**Batch** : 2019-2023
	Academic Year : 2022-23(Even)

COURSE OBJECTIVE:

1. To learn the importance of quantitative aptitude to compete in the recruitment process.
2. To accomplish the knowledge on the basics of aptitude and solving methods.
3. To build skills to solve various problems using shortcut methods.
4. To expose the enabling methodologies in solving the aptitude.

TEXT BOOKS

T1. A Modern Approach to the verbal & Non – verbal reasoning – R.S. Aggarwal

WEB RESOURCES

W1. www.indiabix.com	**(Topic No: 01,02,03,04,05)**
W2. www.sawaal.com	**(Topic No:02)**
W3. www.freshersworld.com	**(Topic No:03)**
W4. www.testpot.com	**(Topic No:04)**
W5. www.math4.com	**(Topic No:05)**

Topic No	Topic	Books for Reference	Page No.	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
	Seating Arrangements					(2)
1.	Definition, condition, Linear arrangements	T1,W1	255 -258	BB/PPT	1	1
2.	Circular arrangements	T1,W1	259-265	BB/PPT	1	2
LEARNING OUTCOME At the end of unit, students should be able to Analyze the concept of Seating Arrangements • Describe the conditions and its problems						
	Syllogism					(2)
3.	Introduction, concepts, tips, types(Logical)	T1,W1,W2	1 -4	BB/PPT	1	3
4.	Sample problems	T1,W1,W2	5 -29	BB/PPT	1	4
LEARNING OUTCOME At the end of unit, students should be able to • Analyze the concept of Syllogism • Describe the conditions and its problems						
	Directions Sense Test					(2)
5.	Introduction – Directions –Problems solving techniques	T1,W1,W3	416 -418	BB/PPT	1	5
6.	Sample problems	T1,W1,W3	419-440	BB/PPT	1	6
LEARNING OUTCOME At the end of unit, students should be able to • Describe Directions Sense Test • Analyze and solve the problems on Directions Sense Test						
	Mathematical Operations					(2)
7.	Introduction, operators and artificial symbols	T1,W1,W4	569 -570	BB/PPT	1	7
8.	Sample problems	T1,W1,W4	571 -573	BB/PPT	1	8
LEARNING OUTCOME At the end of unit, students should be able to • Describe Mathematical Operations • Analyze and solve the problems						
	Data Interpretation					(2)
9.	Introduction, Bar charts,	T1,W1,W5	659 -694	BB/PPT	1	9
10.	Pie charts and Table charts	T1,W1, W5	695-699	BB/PPT	1	10

LEARNING OUTCOME

At the end of unit, students should be able to

- Analyze the concept of Data Interpretation
- Realize the Pie charts and Table charts

COURSE OUTCOME

At the end of the course, the students will be able to

- Analyze the concepts and formulae for various quantitative aptitude methods.
- Identify and apply the various shortcut methods to solve the problems in aptitude.
- Enough confidence and knowledge on approaching aptitude.

CONTENT BEYOND THE SYLLABUS

1. Solving various Company Question papers.

Prepared by
Ms. P. SUGANYA

Verified by
VP/HEAD T&P

03/2/2023

Approved by
PRINCIPAL

A NAAC Accredited Institution
KINGS
COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

FREE OPEN SOURCE SOFTWARE (FOSS)

TRAINING COURSES

IN ASSOCIATION WITH IITB

SPOKEN TUTORIAL

ORGANIZED DURING THE YEAR 2022-23

A NAAC Accredited Institution

KINGS COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai

CERT ISO 9001

INTERNAL QUALITY ASSURANCE CELL
SPOKEN TUTORIAL WORKSHOP ON FOSS
IN ASSOCIATION WITH IITB-EXECUTION STATUS

2022-23 (ODD)

S.No	Software Course	Department	Participant count
1	Latex	Civil	18
2	Inkscape	Civil	24
3	Drupal	CSE	48
4	Java	CSE	66
5	Arduino	ECE	35
6	Inkscape	ECE	44
7	Python	EEE	46
8	Latex	Mech	40
9	Fluid Mechanics	Mech	64
10	Python	Civil	24
11	Linux	CSE	64
12	Scilab	EEE	29
13	Scilab	ECE	65
14	Scilab	Mech	45

Total number of Titles **14**
Total number of Students participated **612**

2022-23 (EVEN)

S.No	Software Course	Department	Participant count
1	Blender	Civil	24
2	Latex	CSE	49
3	Blender	CSE	67
4	PHP and MySQL	CSE	64
5	eSim	ECE	35
6	Latex	ECE	44
7	GIMP	ECE	65
8	GIMP	EEE	8
9	Blender	EEE	29
10	Fluid Mechanics	Mech	40
11	C and CPP	Mech	64
12	QCAD	Mech	45

Total number of Titles **12**
Total number of Students participated **534**

29/5/23

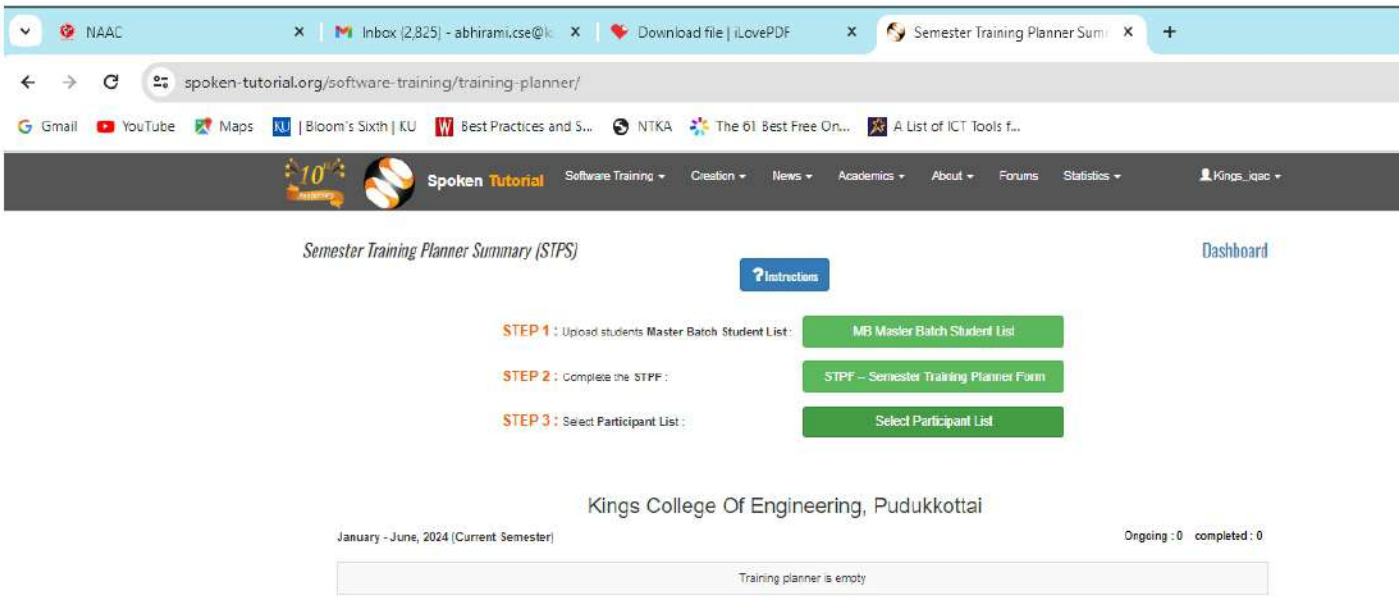
IQAC Coordinator

29/5/2023

Principal

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

IITB – STTP DASHBOARD



July - December, 2022 — Total : 15

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	Aug. 10, 2022	LaTeX	Civil Engineering	18	| Participant List | Participation certificates available |
2	Aug. 10, 2022	Inkscape	Civil Engineering	24	| Participant List | Participation certificates available |
3	Aug. 10, 2022	Drupal	Computer Science and Engineering	48	| Participant List | Participation certificates available |
4	Aug. 10, 2022	Java	Computer Science and Engineering	66	| Participant List | Participation certificates available |
5	Sept. 10, 2022	Arduino	Electronics and Communication Engineering	35	| Participant List | Participation certificates available |
6	Aug. 10, 2022	Inkscape	Electronics and Communication Engineering	44	| Participant List | Participation certificates available |
7	Aug. 10, 2022	Python - Python 3.4.3	Electrical and Electronics Engineering (EEE)	8	| Participant List | Participation certificates available |
8	Aug. 10, 2022	Python - Python 3.4.3	Electrical and Electronics Engineering (EEE)	38	| Participant List | Participation certificates available |
9	Aug. 10, 2022	LaTeX	Mechanical Engineering	40	| Participant List | Participation certificates available |
10	Aug. 10, 2022	Fluid Mechanics - OpenFOAM version 7	Mechanical Engineering	64	| Participant List | Participation certificates available |
11	Aug. 22, 2022	Python - Python 3.4.3	Civil Engineering	24	| Participant List | Participation certificates available |
12	Aug. 22, 2022	Linux	Computer Science and Engineering	64	| Participant List | Participation certificates available |
13	Aug. 22, 2022	Scilab	Electrical and Electronics Engineering (EEE)	29	| Participant List | Participation certificates available |
14	Aug. 22, 2022	Scilab	Electronics and Communication Engineering	65	| Participant List | Participation certificates available |
15	Aug. 22, 2022	Scilab	Mechanical Engineering	45	| Participant List | Participation certificates available |

January - June, 2023 Total : 13

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	Feb. 2, 2023	GIMP	Civil Engineering	(0 / 19)	
2	Feb. 2, 2023	LaTeX	Civil Engineering	(0 / 19)	
3	Feb. 2, 2023	Blender	Civil Engineering	(0 / 19)	
4	Feb. 2, 2023	Blender	Civil Engineering	24	| Participant List | Generate Participation Certificate |
5	Feb. 2, 2023	LaTeX	Computer Science and Engineering	49	| Participant List | Participation certificates available |
6	Feb. 2, 2023	Blender	Computer Science and Engineering	67	| Participant List | Participation certificates available |
7	Feb. 2, 2023	PHP and MySQL	Computer Science and Engineering	64	| Participant List | Participation certificates available |
8	Feb. 2, 2023	eSim	Electronics and Communication Engineering	35	| Participant List | Generate Participation Certificate |
9	Feb. 2, 2023	LaTeX	Electronics and Communication Engineering	44	| Participant List | Generate Participation Certificate |
10	Feb. 2, 2023	GIMP	Electronics and Communication Engineering	65	| Participant List | Generate Participation Certificate |
11	Feb. 2, 2023	GIMP	Electrical and Electronics Engineering (EEE)	8	| Participant List | Generate Participation Certificate |
12	Feb. 2, 2023	eSim	Electrical and Electronics Engineering	(0 / 42)	
14	Feb. 2, 2023	Blender	Electrical and Electronics Engineering (EEE)	29	| Participant List | Generate Participation Certificate |
15	Feb. 2, 2023	Blender	Mechanical Engineering	(0 / 43)	
16	Feb. 2, 2023	Fluid Mechanics - OpenFOAM version 7	Mechanical Engineering	40	| Participant List | Generate Participation Certificate |
17	Feb. 2, 2023	GIMP	Mechanical Engineering	(0 / 74)	
18	Feb. 2, 2023	C and Cpp	Mechanical Engineering	64	| Participant List | Generate Participation Certificate |
19	Feb. 2, 2023	QCad	Mechanical Engineering	45	| Participant List | Generate Participation Certificate |

29/5/23

IQAC Coordinator

29/5/2023

Principal

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303

भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India
दूरभाष/Phone : (+91-22) 2572 2545
फैक्स/Fax : (+91-22) 2572 3480
वेबसाईट/Website : www.iitb.ac.in
IIT Bombay

CERTIFICATE OF SPOKEN TUTORIAL (ST) TRAINING

Ref.No. STIITB/2024/3266 Date: 13/03/2024

To
The Principal,
Kings College of Engineering,
Punalkulam, Gandarvakottai Taluk, Pudukottai District, Tamil Nadu - 613303

Subject - 2022-2023 Status of Training done in collaboration with IIT Bombay – ST (Spoken Tutorial)

As per agreement between **Kings College of Engineering**, and Spoken Tutorial IT/Software Training Program by IIT Bombay initiated by National Mission on Education through ICT, Ministry of Education, Govt. of India to promote IT literacy through Open Source Software.

The students of **Kings College of Engineering** have enrolled in various FOSS (Free and Open Source Software) developed and certified by IIT-Bombay during academic session 2022-2023.

Details of students enrolled in various FOSS under Spoken Tutorial IT/Software Training Program during academic session 2022-2023.

S. No	Department	FOSS	Participants
1	Electrical and Electronics Engineering (EEE)	LaTeX	38
2	Civil Engineering	LaTeX	24
3	Electronics and Communication Engineering	LaTeX	65
4	Computer Science and Engineering	LaTeX	67
5	Mechanical Engineering	LaTeX	45
6	Computer Science and Engineering	Blender	2
7	Computer Science and Engineering	Blender	64
8	Mechanical Engineering	QCad	45
9	Computer Science and Engineering	PHP and MySQL	64
10	Electrical and Electronics Engineering (EEE)	Blender	38
11	Electronics and Communication Engineering	eSim	35
12	Electrical and Electronics Engineering (EEE)	Blender	29

13	Civil Engineering	Blender	24
14	Electronics and Communication Engineering	LaTeX	44
15	Mechanical Engineering	OpenFOAM version 7	40
16	Computer Science and Engineering	LaTeX	49
17	Electronics and Communication Engineering	GIMP	65
18	Mechanical Engineering	C and Cpp	64
19	Computer Science and Engineering	Blender	67
20	Electrical and Electronics Engineering (EEE)	GIMP	8
21	Electronics and Communication Engineering	Arduino	35
22	Mechanical Engineering	Scilab	45
23	Civil Engineering	Python 3.4.3	24
24	Computer Science and Engineering	Linux	64
25	Electrical and Electronics Engineering (EEE)	Scilab	29
26	Electronics and Communication Engineering	Scilab	65
27	Mechanical Engineering	OpenFOAM version 7	64
28	Civil Engineering	LaTeX	18
29	Electronics and Communication Engineering	Inkscape	44
30	Civil Engineering	Inkscape	24
31	Electrical and Electronics Engineering (EEE)	Python 3.4.3	8
32	Computer Science and Engineering	Drupal	48
33	Electrical and Electronics Engineering (EEE)	Python 3.4.3	38
34	Computer Science and Engineering	Java	66
35	Mechanical Engineering	LaTeX	40
36	Electrical and Electronics Engineering (EEE)	Inkscape	38
37	Mechanical Engineering	Scilab	40
38	Civil Engineering	QCad	24
39	Computer Science and Engineering	Linux	62
40	Electronics and Communication Engineering	Scilab	44
41	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	17
42	Electronics and Communication Engineering	GIMP	44
43	Computer Science and Engineering	PHP and MySQL	63
44	Electrical and Electronics Engineering (EEE)	eSim	38

45	Civil Engineering	GIMP	24
46	Mechanical Engineering	Python 3.4.3	60
47	Civil Engineering	Blender	18
48	Electronics and Communication Engineering	eSim	33
49	Mechanical Engineering	Blender	40
50	Computer Science Engineering (CSE)	LaTeX	45
51	Electronics and Communication Engineering	LaTeX	35
52	Mechanical Engineering	GIMP	64
53	Computer Science and Engineering	Blender	48
54	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	9
55	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	20
56	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	13
57	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	8
58	Faculty Development Programs (FDPs)(PMMMNMTT)	Moodle Learning Management System	10

For and On behalf of
Spoken Tutorials,
Indian Institute of Technology, Bombay

Mrs. Akanksha Saini
National Coordinator
Spoken Tutorial Project, IIT Bombay

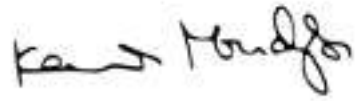
Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **AAKASH P** participated in the **Scilab** training organized at **Kings College Of Engineering** in **July 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay.

October 21st 2022



Prof. Kannan M Moudgalya
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **AARTHI R** participated in the **LaTeX** training organized at **Kings College Of Engineering** in **January 2023** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **LaTeX** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay.

April 3rd 2023

Prof. Kannan M Moudgalya
IIT Bombay

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Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **ARAVIND S** participated in the **PHP and MySQL** training organized at **Kings College Of Engineering** in **January 2023** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **PHP and MySQL** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay.

April 3rd 2023

Prof. Kannan M Moudgalya
IIT Bombay

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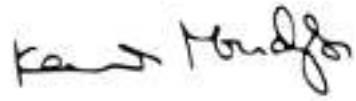
Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **BHARANITHARAN SENTHILKUMAR** participated in the **Python 3.4.3** training organized at **Kings College Of Engineering** in **July 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Python 3.4.3** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay.

October 9th 2022



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IIT Bombay

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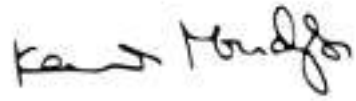
Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **BHARATH GOVINDARAJU** participated in the **Inkscape** training organized at **Kings College Of Engineering** in **July 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Inkscape** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay.

October 9th 2022



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