

**3.2.2 - Number of workshops/seminars conducted on
Research Methodology, Intellectual Property Rights (IPR)
and entrepreneurship during the year 2021-22**

Sl. No.	Department	No. of events conducted	Page No.
1	Civil Engineering	13	2
2	Computer Science & Engineering	16	53
3	Electronics & Communication Engineering	10	88
4	Electrical & Electronics Engineering	29	154
5	Mechanical Engineering	12	252
6	Science & Humanities	09	306
7	Research & Development Section	04	348
8	Institution's Innovation Cell	13	367
9	IEEE	55	389
10	Entrepreneurship Development Cell	09	424
Total number of events conducted		170	

P. P. S. S. S.

S. Ramakrishna
PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.



**3.2.2 - Number of workshops/seminars conducted on Research
Methodology, Intellectual Property Rights (IPR) and
entrepreneurship during the year**

Sl.No.	Date	Details	Beneficiaries	Page.No
CIVIL				
1	18.08.2021	Orientation Programme for II Yr, III Yr & IV Yr Civil Students	61 Students	02
2	18.08.2021 & 19.08.2021	Bridge Course for II Yr, III Yr & IV Yr Civil Students	61 Students	08
3	15.09.2021	"Engineer's Day events-2021" by B.E Club	41 Students	11
4	29.09.2021	Webinar on "Application of Rubberized concrete in Construction industry"	83 (Students & Staff)	15
5	29.10.2021	National level technical e-Symposium "TECTA-2K21"	60 (External)	19
6	11.10.2021	Online Webinar on "Structural Health Monitoring during Construction" by Er.S.Vaithyanathan, Proprietor, SURYA BUILDERS, Thanjavur ISTE – Student Chapter	45 Students	28
7	16.03.2022	Orientation Programme for II Yr, III Yr & IV Yr Civil Students	45 Students	29
8	22.03.2022	Seminar on " The Future of Water in our Planet" by B.E Club for World water day	61 Students	31
9	26.03.2022	Bridge Course for II Yr, III Yr & IV Yr Civil Students	40 Students	34
10	01.06.2022	Guest lecture on "Soil Mechanics"	20 Students	36
11	09.06.2022	National Conference on "Recent trends and Innovations in Civil Engineering (NC-RTICE'22)"	52 External Participants	38
12	13.06.2022	Department Project Expo'22	27 Students	46
13	07.04.2022	Webinar on "Application of recycled concrete aggregate in Construction" by Ms.D.Shrividhya, AP/CIVIL	110 views	48

DEPTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-22 (ODD SEM)

"ORIENTATION PROGRAMME"

18.08.2021



REPORT

ORGANIZED BY
DEPARTMENT OF CIVIL ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613303
PUDUKKOTTAI DT

DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (ODD SEMESTER)
ORIENTATION PROGRAMME - REPORT

The Department of Civil Engineering organized an orientation program for II Year (Batch: 2020 -2024), III Year (Batch: 2019 -2023) and IV Year (2018-2022) students on 18.08.2021.

Background & Objective:

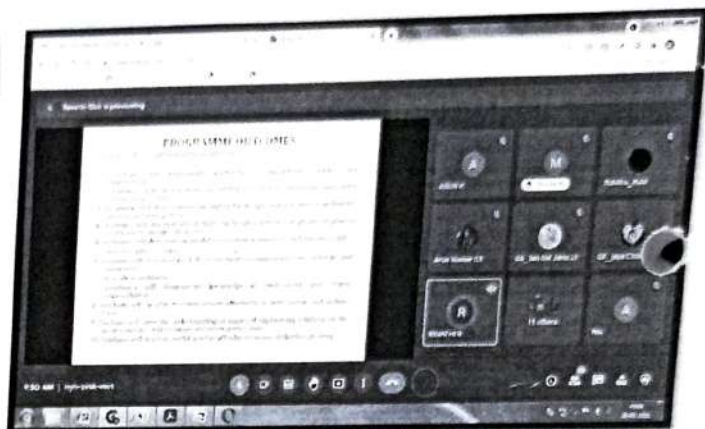
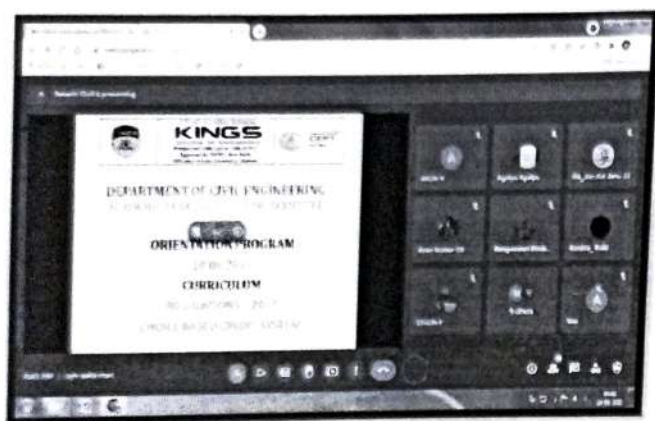
The objective of the orientation program is to create awareness about CO (Course outcome), PO (Programme outcome), Programme Specific Objectives (PSO), Programme Educational Objectives (PEO) of Civil department. Also the mapping between CO to PO and the significance of Outcome based Education (OBE) was detailed. The usage of Bloom's taxonomy in question paper setting and question bank preparation was clarified to the students.

Schedule:

TIME	II YEAR	III YEAR	IV YEAR
09:30 AM – 10:30 AM	Orientation Session by T&P Dept. (Dr.K.Sudhakar, AP/T&P & Ms.T.Suganya, AP/T&P)	Curriculum & Dept. Practices (Ms.R.Revathi, HoD/Civil & Mr.K.Arun, AP/Civil)	GATE Preparation & Higher studies Initiatives (Ms.V.Ishwarya AP/Civil & Ms.D.Shrividhya AP/Civil)
10:45 AM – 11:45 AM	Curriculum & Dept. Practices (Ms.R.Revathi, HoD/Civil & Mr.R.Sundharam, AP/Civil)	Orientation Session by T&P Dept. (Dr.K.Sudhakar, AP/T&P & Ms.T.Suganya, AP/T&P)	Student Publications & Certifications (Ms.T.Bhuvaneswari, AP/Civil & Mr.K.Arun, AP/Civil)
12:00 PM – 01:00 PM	Scope for Civil Engineers (Dr.R.Saravanan, Prof/Civil & Mr.R.Ramchandrar, AP/Civil)	Student Publications & Certifications (Mr.R.Sundharam, AP/Civil & Mr.M.Balaji, AP/Civil)	Career Opportunities in CIVIL ENGINEERING (Er.Vaidhyanathan, CEAT)

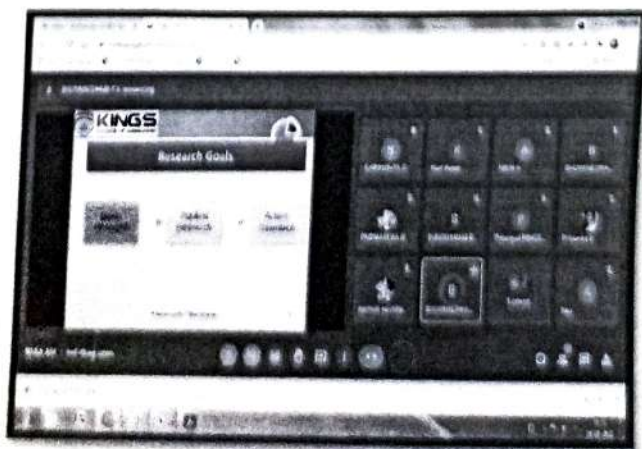
Session Deatils:

Ms.R.Revathi, HoD/Civil, handled the session for II yr and III yr students. She narrated the Vision & Mission of department of Civil Engineering. She described about the purpose of Vision & Mission and how it can be achieved through OBE. CO, PO, PSO and PEO were also explained. In addition she also detailed about the IHT & VAC process as per 2017 regulations.

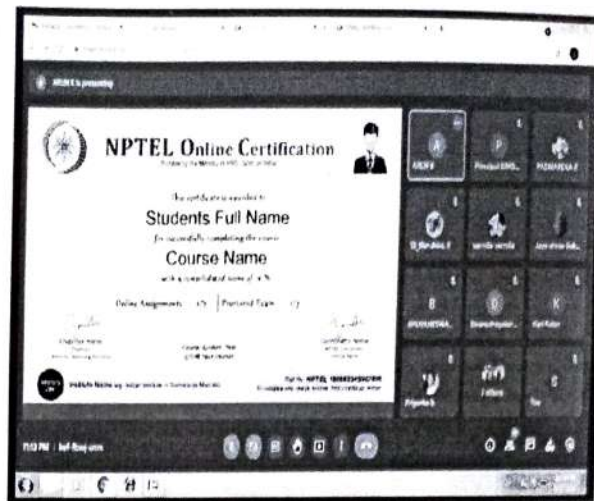
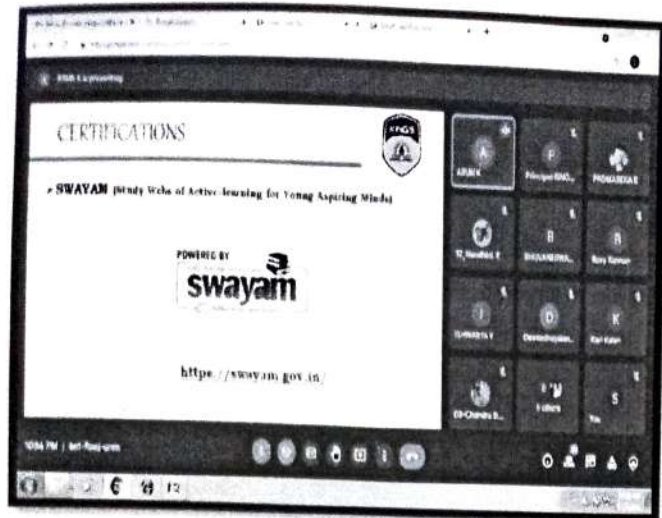


Session on CO,PO,PEO & PSO by Ms.R.Revathi, HoD/Civil

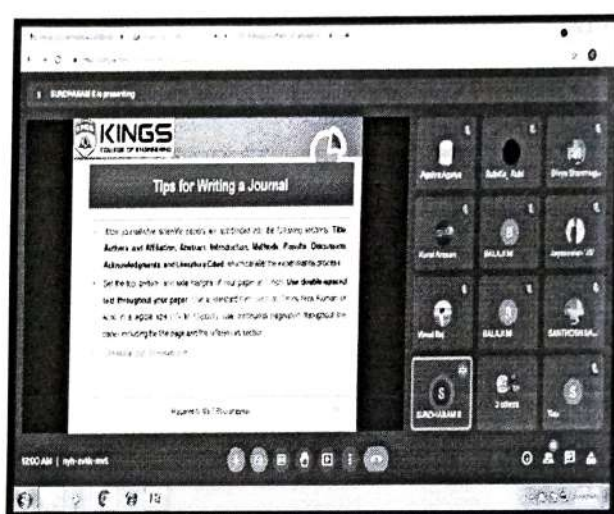
The session was continued by **Ms.T.Bhuvaneswari, AP/Civil & Mr.K.Arun, AP/Civil**. This session focussed on student publications and certifications for IV yr students. Ms.T.Bhuvaneswari, AP/Civil highlighted the importance of research & journal publications. She detailed the importance of project proposal submission for final year students. Mr.K.Arun, AP/Civil guided the students for SWAYAM/NPTEL course certifications. He highlighted the importance of certifications to the students. **Mr.R.Sundharam, AP/Civil & Mr.M.Balaji, AP/Civil** handled the session on student publications and certifications for III yr students.



Session on Research publications by Ms.T Bhuvaneswari, AP/Civil.



Session on Certifications by Mr.K.Arun, AP/Civil.

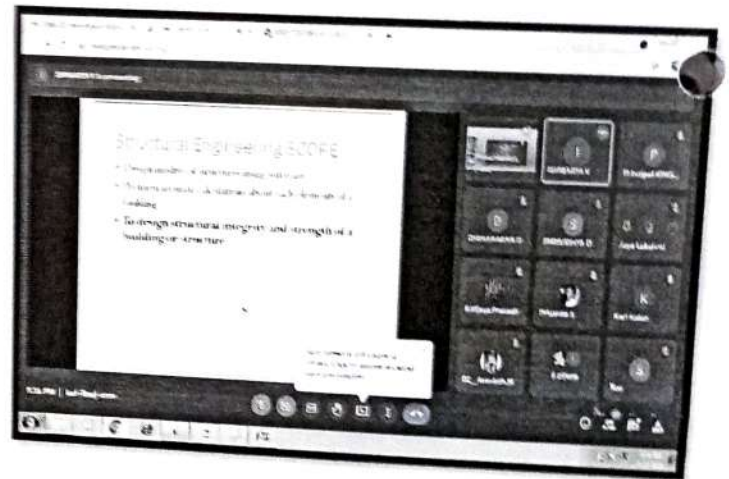
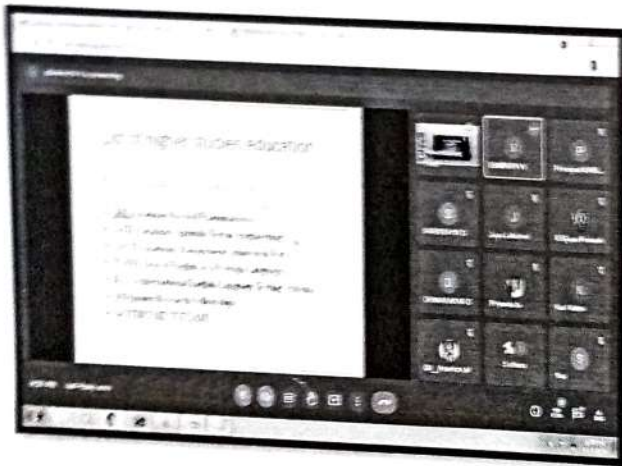


Session by Mr.R.Sundharam, AP/Civil & Mr.M.Balaji, AP/Civil

Session on GATE Preparation and higher studies initiatives was handled by **Ms.V.Ishwarya, AP/Civil & Ms.D.Shrividhya, AP/Civil**. This session focussed on student higher studies initiatives and preparation for competitive exams. **Ms.D.Shrividhya, AP/Civil** highlighted the importance of GATE exam. She detailed the steps to be followed for successfully clearing the GATE exam. **Ms.V.Ishwarya, AP/Civil** guided the students for higher studies initiatives. She highlighted the various higher studies opportunities in Civil Engineering. This session was followed by Scope for Civil Engineers which was handled by **Dr.R.Saravanan, Prof/Civil & Mr.R.Ramchandrar, AP/Civil**. This session highlighted the scope for the Budding Engineers as was very much useful for the II yr students.



Session on GATE Preparation by Ms.D.Shrividhya, AP/Civil.



Session on Higher Studies Initiatives by Ms.V.Ishwarya, AP/Civil.

Industrial person Interaction:

A separate session was arranged for the IV yr students in "CAREER OPPORTUNITIES IN CIVIL ENGINEERING" which was handled by Er.Vaidhyanathan, Former president/CEAT & Proprietor of Surya Builders.



Er.Vaidhyanathan is an eminent person from construction industry, who is very much appropriate for the topic. He handled the session with very much enthusiasm and interacted with the students. During his speech he highlighted the career opportunities in Civil Engineering and also made clear that, how the students should equip themselves for their successful career in this competitive world. He also answered the questions raised by the students and encouraged them for practical learning in addition to their curriculum. He also promised to sign MOU with the institution for betterment of the students learning activities.

Outcome of the Programme:

At the end of the orientation session, the students were able to;

- Know about CO,PO,PSO and PEO of Civil department
- Realize the significance of Certifications
- Understand the concepts of Publications
- Prepare themselves for competitive examinations
- Familiarise the Scope of Civil Engineering


09/09/21
PREPARED BY


04/09/21
HOD-CIVIL

Good.


04/09/2021.

PRINCIPAL



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021 – 2022 ODD SEMESTER
BRIDGE COURSE REPORT

The Department of Civil Engineering organized a bridge course for II Year students on 19.08.2021, III Year students on 19.08.2021 and IV Year students on 18.08.2021.

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the student's knowledge, Strength of Materials was taken as bridge course for II year students, Structural Analysis for the III year students and Estimation, Costing and Valuation Engineering for the final year students.

COURSE MAPPING

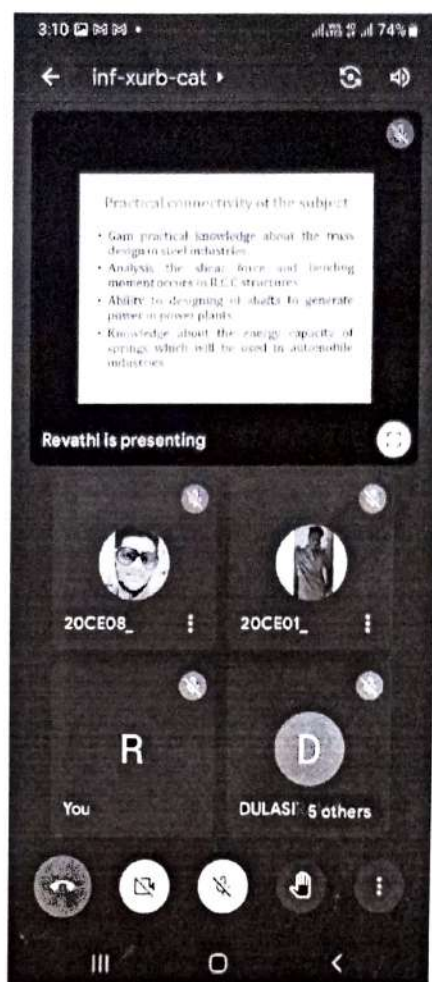
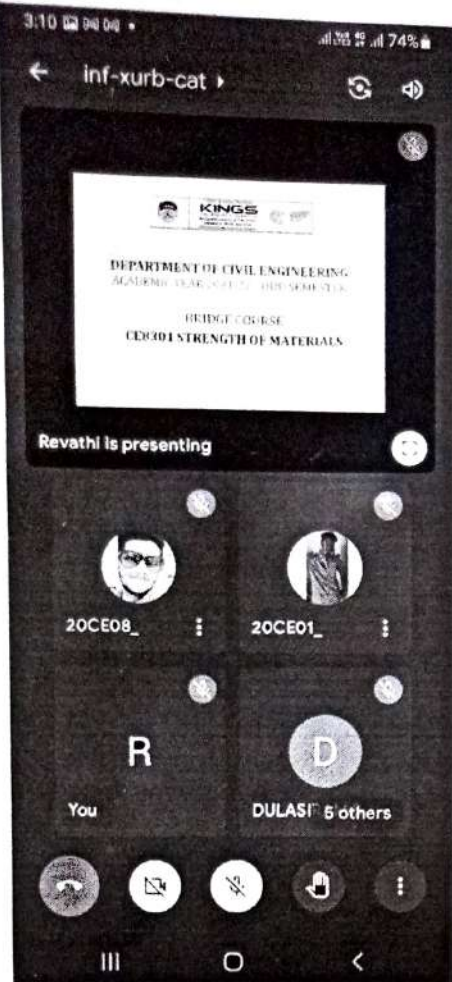
Strength of Materials was taken as bridge course to map Engineering Mechanics to know the basics of Mechanics. Structural analysis was taken as a bridge course to map Mechanics of Solids with Structural Analysis I. The course addresses decision analysis for structural engineering Systems based on Statistics and Reliability Modeling. Students learnt the structural engineering systems by characterizing and quantifying the uncertainties associated with the material properties and external forces, and propagating them through the relevant prediction equations. Estimation was taken as a bridge course to map the construction techniques and practices.

SESSION DETAILS

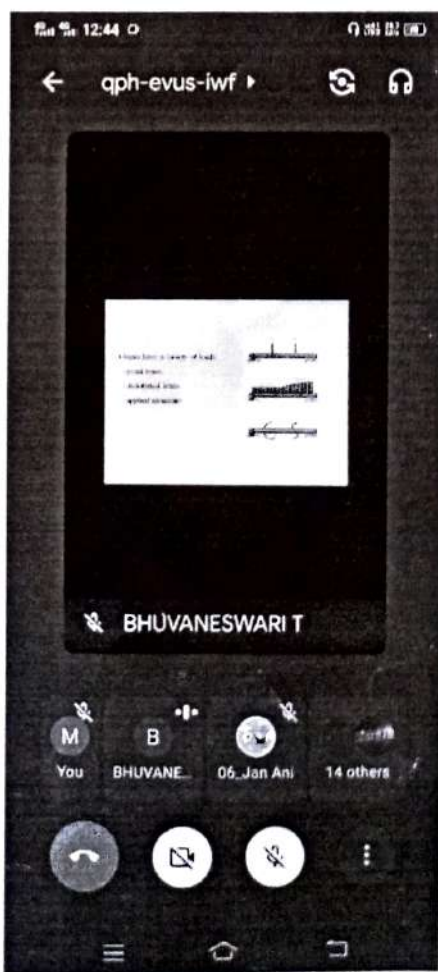
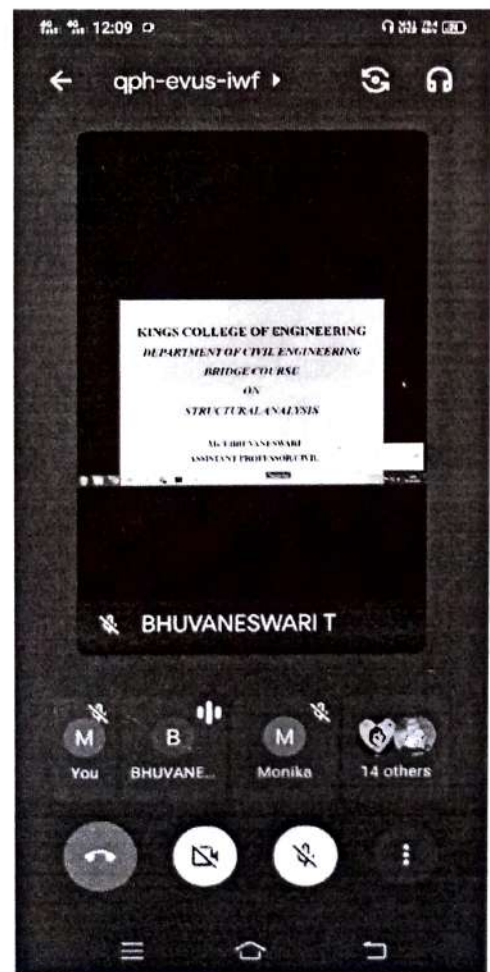
Ms.R.Revathi, AP/CIVIL, handled the session for II year students. She described about Basic of Mechanics and also different types of load and types of supports. She elaborated about the determinate and indeterminate structures.

Ms.T.Bhuvaneswari, AP/CIVIL, handled the session for III year students. She elaborated about the determinate and indeterminate structures. She described the various structural forms and important structural properties.

Ms.V.Ishwarya, AP/CIVIL, handled the session for IV year students. She explained about the importance estimation of various civil building structures, schedule of rates, costing, valuation of buildings and land. She illustrated about the report preparation, tender, contracts.



II YEAR



III YEAR 9



IV YEAR

OUTCOME OF THE EVENT

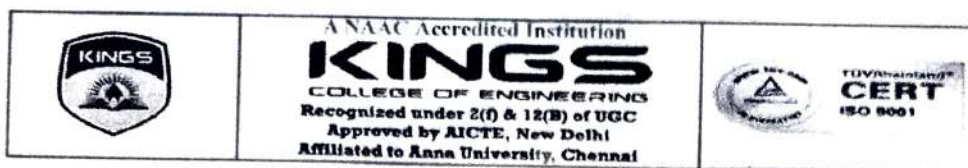
At the end of session, the students would be able to,

- Identify the mechanisms on different types of load and supports.
- Identify whether the structure is determinate or indeterminate.
- Understand the various structural properties.
- Understand the basics of estimations of buildings, scheduling, report writing, contracts, and tenders.

M. Biji
Bridge Course Coordinator

B. S. S. S.
06/09/21
HOD/CIVIL

J. S. S. S.
06/09/21
PRINCIPAL



DEPARTMENT OF CIVIL ENGINEERING
REPORT - ENGINEER'S DAY EVENTS-2021

16.09.2021

BACKGROUND & OBJECTIVE:

BUDDING ENGINEER'S CLUB (BE CLUB), Department of Civil Engineering, Kings College of Engineering organized the "**ENGINEER'S DAY EVENTS-2021**" for II year & IV year Civil Students on 15.09.2021. The main objective of this event is to provide a platform the students to show their talents and skills. Ms.V.Ishwarya, AP/Civil Coordinator of BE club, organized the event. Ms.R.Revathi, HoD/Civil delivered the welcome address and given details about the events.

EVENT DETAILS:

S No	EVENT NAME	ORGANIZED BY
1	Paper presentation	Ms.V.Ishwarya, AP/Civil & Mr.R.Ramchandrar, AP/Civil
2	Technical Quiz	Ms.T.Bhuvaneshwari, AP/Civil
3	Mono Acting	Ms.D.Shrividhya, AP/Civil
4	Technical connexion	Mr.K.Arun, AP/Civil & Mr.R.Sundharam, AP/Civil

PRIZE WINNERS LIST:

1. PAPER PRESENTATION

S No	WINNERS	YEAR
1	PADMA REKA R	IV YEAR
2	JAYALAKSHMI S	
3	JAYASHREE S	
4	NIKESHA J	II YEAR
5	JENOVA JASMINE N	

2. TECHNICAL QUIZ

S No	WINNERS	YEAR
1	PATRICKANTONY SAMY A	IV YEAR
2	MOHAMED FAISAL B	II YEAR
3	BHARATH G	II YEAR

3. MONO ACTING

S No	WINNERS	YEAR
1	PADMA REKA R	IV YEAR
2	NANDHINI R	
3	BHARATH G	II YEAR
4	SRIRAM M C	

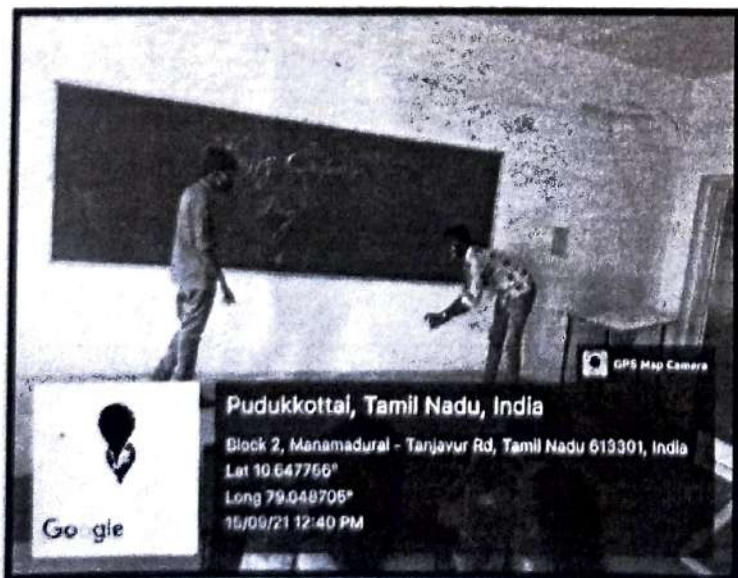
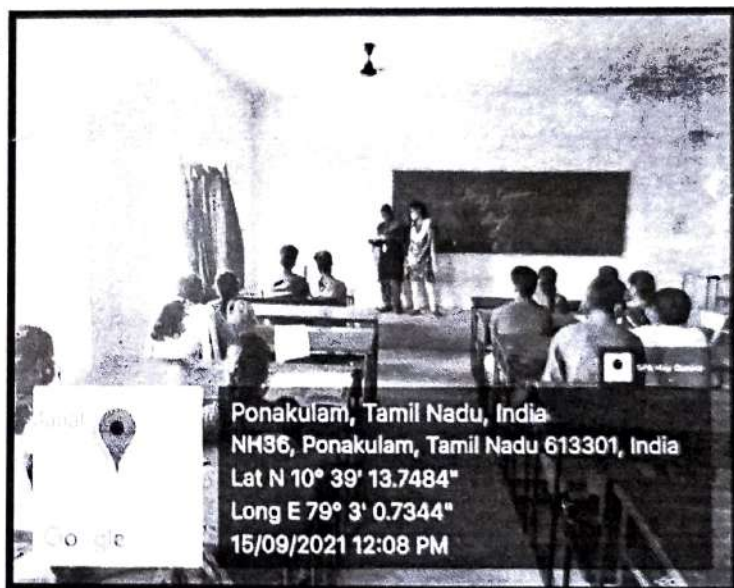
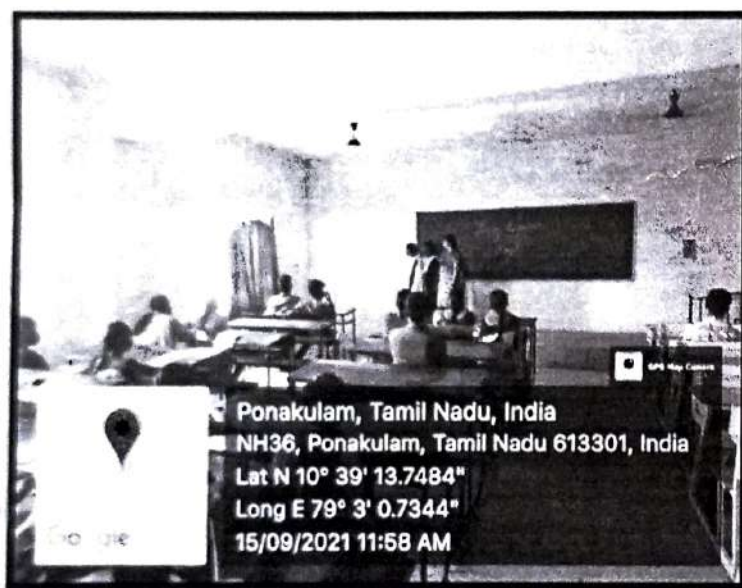
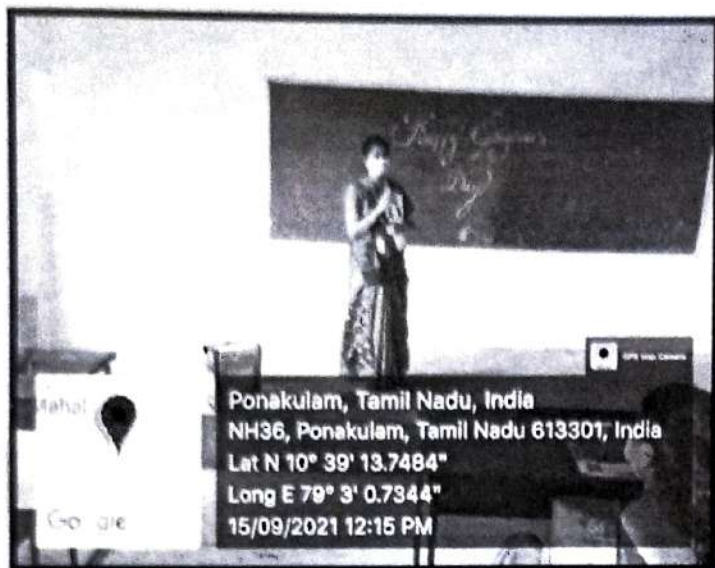
4. TECHNICAL CONNEXION

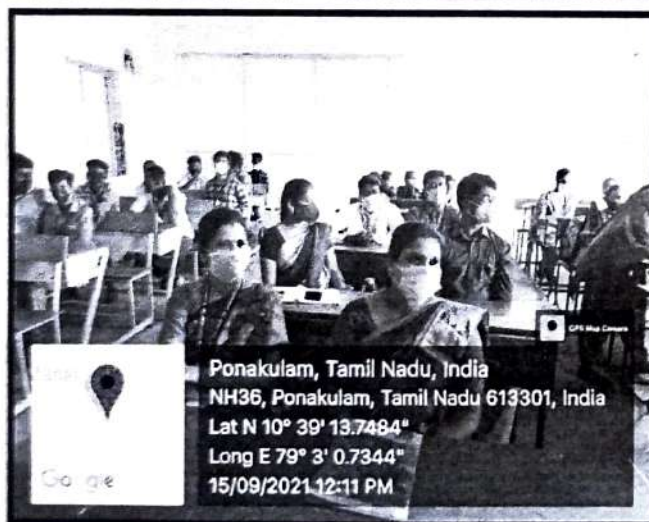
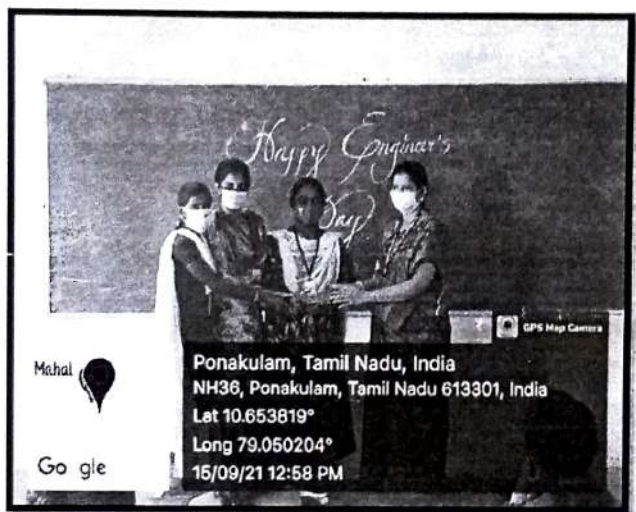
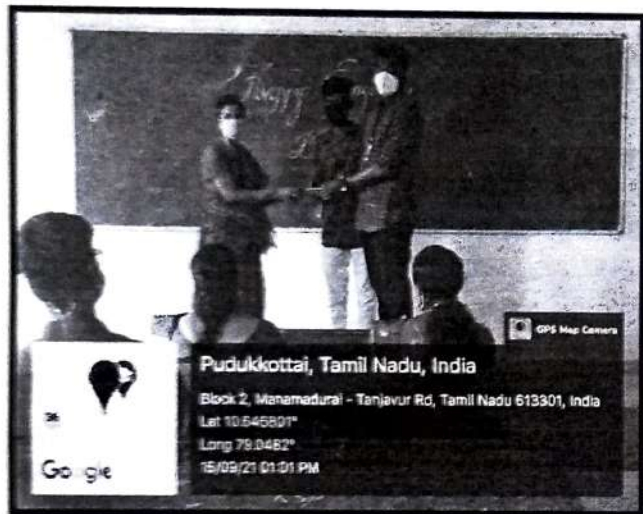
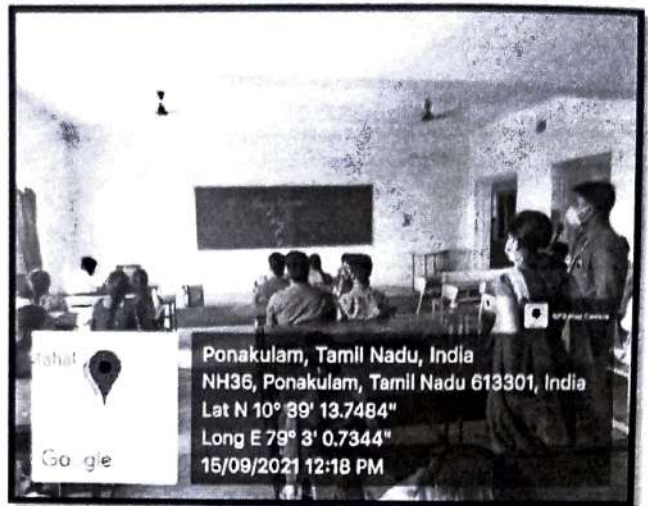
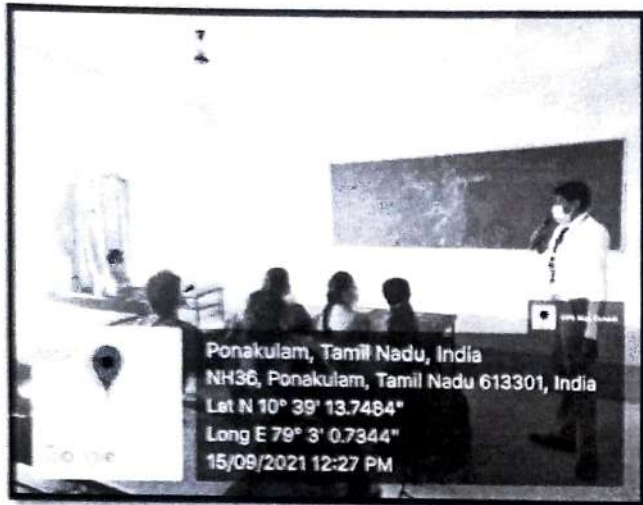
S No	WINNERS	YEAR/SEM
1	PATRICKANTONY SAMY A	IV YEAR
2	ARAVINTH M	IV YEAR
3	VISHNU R	II YEAR
4	BHARATH G	II YEAR
5	MOHAMED FAISAL B	II YEAR

OUTCOME:

II year & IV year Civil Students eagerly participated in the technical events and exposed their talents. Winners were appreciated with small prizes as an encouragement. Ms.V.Ishwarya, AP/Civil concluded the event with vote of thanks.

SOME GLIMPSES OF THE EVENT

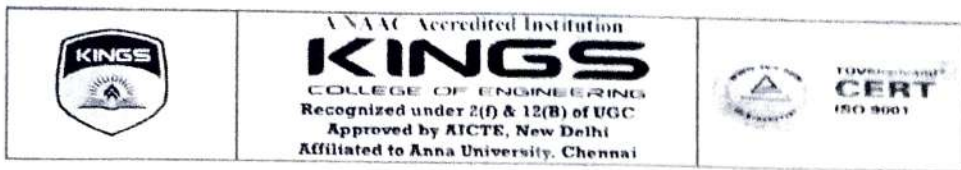




V. Ishwarya
ORGANIZED BY
 (V. ISHWARYA)

16/9/21
HOD/CIVIL

J. Mani
17/9/2021
PRINCIPAL



DEPARTMENT OF CIVIL ENGINEERING

WEBINAR ON

"APPLICATION OF RUBBERIZED CONCRETE IN CONSTRUCTION INDUSTRY"

29.09.2021

BACKGROUND & OBJECTIVE

Department of Civil Engineering, Kings College of Engineering organized a Webinar on **"APPLICATION OF RUBBERIZED CONCRETE IN CONSTRUCTION INDUSTRY"** on 29.09.2021 for the UG/PG students, Faculty members and Industrialists to enhance their knowledge. Mr.R.Sundharam, AP/Civil and Ms.V.Ishwarya, AP/Civil were the organizers of the webinar.

REGISTRATION

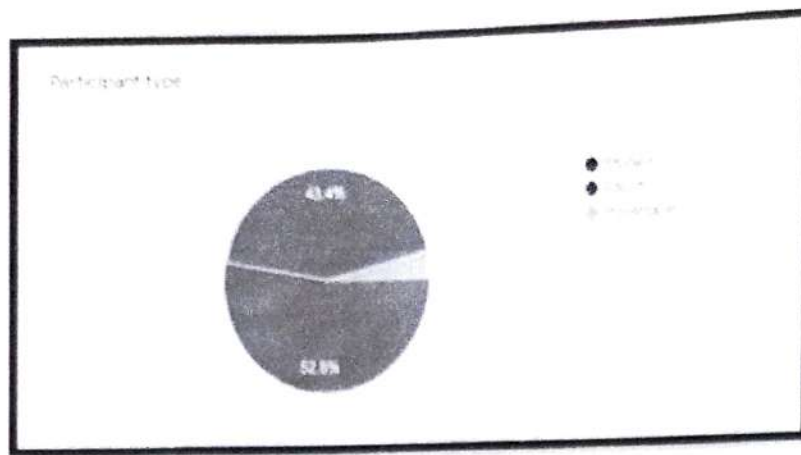
An overwhelming response was received from the participants. Around 95 participants registered for the webinar, which increased our responsibilities to meet the expectations of the participants. Due to the pandemic situation, the webinar was conducted through Google meet platform (<https://meet.google.com/nwh-xujv-bps>).

INAUGURAL SESSION

The webinar session was streamed in Kings College of Engineering- YouTube channel, at 10:00 AM. Ms.V.Ishwarya, AP/civil, hosted the webinar. Ms.R.Revathi, Head/Department of Civil Engineering, Kings College of Engineering, delivered the welcome address. Mr.R.Sundharam, AP/Civil, briefed about the chief guest, Dr.G.Venkatesan Asst. Professor (Sr.Gr), Department of Civil Engineering, UCE Trichirapalli, BIT campus, Anna University, Trichy. He elaborated the qualification and work experience of the resource person. He also detailed about the conference, journal publications and memberships held by the resource person.

PARTICIPANT DETAILS

Around 83 participants from Educational institutions and Industries from various places all over the country, eagerly participated in the online webinar.



WEBINAR SESSION

The webinar was handled by **Dr.G.Venkatesan Asst. Professor (Sr.Gr), Department of Civil Engineering, UCE Tiruchirappalli**. He briefed about the world consumption of natural rubber, dumping rubber waste, recycling of rubber waste, application rubber waste, advantage and disadvantage of rubberized materials, research study on rubber application in concrete, strength aspects and comparison with conventional concrete etc.



Application of Rubberized Concrete in Construction Industry



Organized by Dept. of Civil Engineering

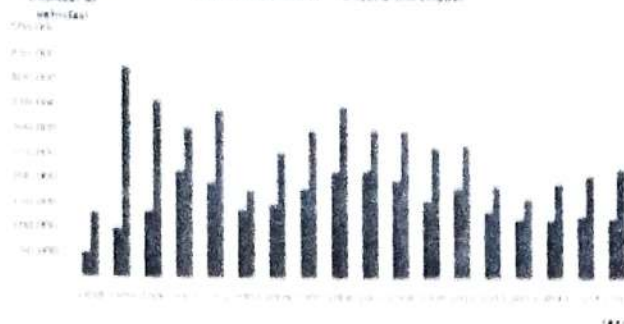
Kings College of Engineering

Application of Rubberized Concrete in Construction Industry



Bar Chart of the Number of Inspected and Certified Waste Motor Vehicles Recycled over the past 18 Years

Resolving Volume
Number of
vehicles



Organized by Dept. of Civil Engineering

Kings College of Engineering

Application of Rubberized Concrete in Construction Industry



Workability as per IS 456-2000

Sl. No.	Grade	Workability	IS 456-2000
1	M20	High	50-100
2	M25	Medium	50-100
3	M30	Medium	50-100
4	M35	Medium	50-100
5	M40	Medium	50-100
6	M45	Medium	50-100
7	M50	Medium	50-100
8	M55	Medium	50-100
9	M60	Medium	50-100
10	M65	Medium	50-100
11	M70	Medium	50-100
12	M75	Medium	50-100
13	M80	Medium	50-100
14	M85	Medium	50-100
15	M90	Medium	50-100
16	M95	Medium	50-100
17	M100	Medium	50-100
18	M105	Medium	50-100
19	M110	Medium	50-100
20	M115	Medium	50-100
21	M120	Medium	50-100
22	M125	Medium	50-100
23	M130	Medium	50-100
24	M135	Medium	50-100
25	M140	Medium	50-100
26	M145	Medium	50-100
27	M150	Medium	50-100
28	M155	Medium	50-100
29	M160	Medium	50-100
30	M165	Medium	50-100
31	M170	Medium	50-100
32	M175	Medium	50-100
33	M180	Medium	50-100
34	M185	Medium	50-100
35	M190	Medium	50-100
36	M195	Medium	50-100
37	M200	Medium	50-100
38	M205	Medium	50-100
39	M210	Medium	50-100
40	M215	Medium	50-100
41	M220	Medium	50-100
42	M225	Medium	50-100
43	M230	Medium	50-100
44	M235	Medium	50-100
45	M240	Medium	50-100
46	M245	Medium	50-100
47	M250	Medium	50-100
48	M255	Medium	50-100
49	M260	Medium	50-100
50	M265	Medium	50-100
51	M270	Medium	50-100
52	M275	Medium	50-100
53	M280	Medium	50-100
54	M285	Medium	50-100
55	M290	Medium	50-100
56	M295	Medium	50-100
57	M300	Medium	50-100
58	M305	Medium	50-100
59	M310	Medium	50-100
60	M315	Medium	50-100
61	M320	Medium	50-100
62	M325	Medium	50-100
63	M330	Medium	50-100
64	M335	Medium	50-100
65	M340	Medium	50-100
66	M345	Medium	50-100
67	M350	Medium	50-100
68	M355	Medium	50-100
69	M360	Medium	50-100
70	M365	Medium	50-100
71	M370	Medium	50-100
72	M375	Medium	50-100
73	M380	Medium	50-100
74	M385	Medium	50-100
75	M390	Medium	50-100
76	M395	Medium	50-100
77	M400	Medium	50-100
78	M405	Medium	50-100
79	M410	Medium	50-100
80	M415	Medium	50-100
81	M420	Medium	50-100
82	M425	Medium	50-100
83	M430	Medium	50-100
84	M435	Medium	50-100
85	M440	Medium	50-100
86	M445	Medium	50-100
87	M450	Medium	50-100
88	M455	Medium	50-100
89	M460	Medium	50-100
90	M465	Medium	50-100
91	M470	Medium	50-100
92	M475	Medium	50-100
93	M480	Medium	50-100
94	M485	Medium	50-100
95	M490	Medium	50-100
96	M495	Medium	50-100
97	M500	Medium	50-100
98	M505	Medium	50-100
99	M510	Medium	50-100
100	M515	Medium	50-100

Organized by Dept. of Civil Engineering

Kings College of Engineering

WEBINAR SESSION

VALEDICTORY SESSION

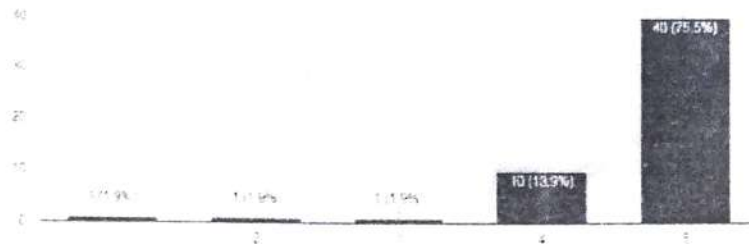
At the end of the webinar, the session was concluded with vote of thanks. Ms.V.Ishwarya, AP/Civil, delivered the vote of thanks. She expressed her sincere thanks to the participants for their interest and active participation. She heartily expressed her sincere gratitude to the Management, Principal, Staff members and the students for their extended support. Finally she concluded by appreciating the organizers for their passionate efforts with which they carried out the difficult task of making the webinar a grand success.

FEEDBACK FROM THE PARTICIPANTS:

FEEDBACK FOR WEBINAR ON APPLICATION OF RUBBERIZED CONCRETE IN CONSTRUCTION INDUSTRY - 29.09.2021

How satisfied were you with the webinar?

10 responses



OUTCOME:

Participants gained knowledge about application of rubberized concrete in construction industry and also gave very good feedback at the end of the webinar. All the participants showed interest to attend our future webinar too. The recorded version of the webinar was streamed in our college YouTube channel, as per the request of the participants to share the contents (<https://www.youtube.com/watch?v=-kj1DhF9Tm4>).

[Signature]
21/10/21
COORDINATOR

[Signature]
21/10/21
HOD/CIVIL

[Signature]
21/10/2021
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



TUV Rheinland
CERT
ISO 9001

NATIONAL LEVEL TECHNICAL e-SYMPOSIUM

TECTA - 2K21

SYMPOSIUM REPORT

Organized by
DEPARTMENT OF CIVIL ENGINEERING

Punalkulam, Gandarvakkottai taluk
Pudukkottai district-613303

www.kingsengg.edu.in

DEPARTMENT OF CIVIL ENGINEERING

National Level Technical e-symposium **TECTA-2k21**

REPORT

THROUGH : Google meet (meet.google.com/qdz-qggx-dfu)

Date: 2.11.2021

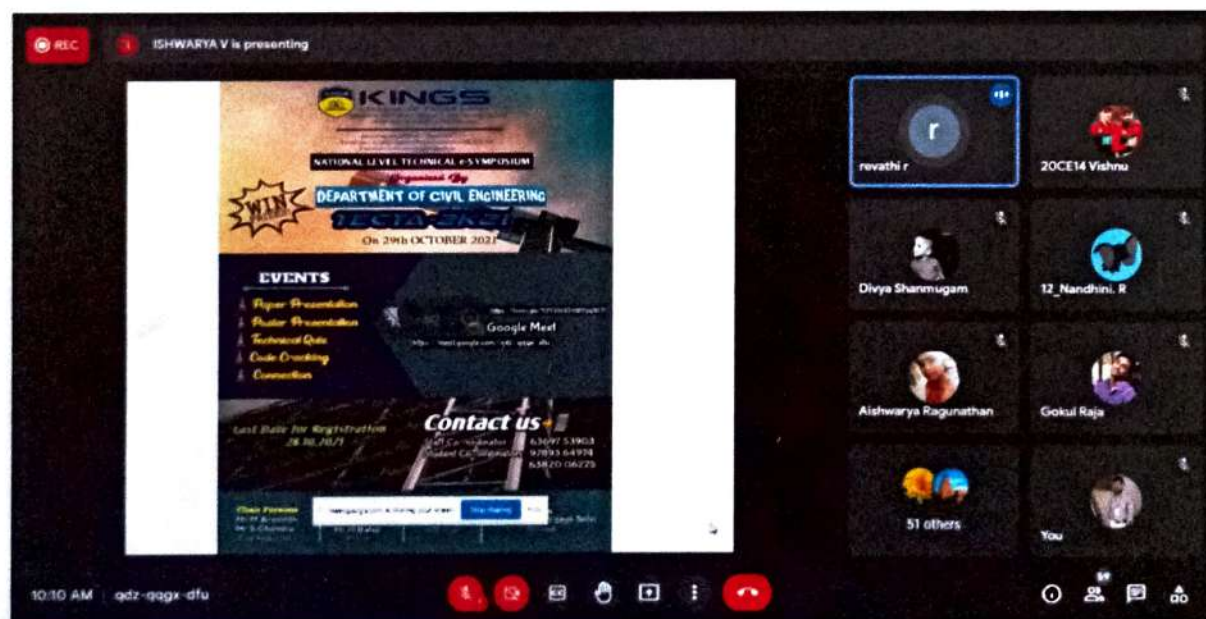
BACKGROUND & OBJECTIVE

Department of Civil Engineering, Kings College of Engineering organised a One day National level Technical Symposium titled "**TECTA 2k21**" on 29th Oct 2021.

It aims to provide a platform for the students across our country to express their ideas and technical skills in Civil Engineering. The symposium was well attended by students from reputed educational institutions. The symposium focuses to articulate new ideas in distinguished civil field and to result with sharing knowledge among the participants.

INAUGURAL SESSION

The Symposium was inaugurated by the Chief Guest at inaugural function, Er.A.S.Arivazhagan, President of Civil Engineers and Architect Association-Thanjavur(CEAAT). As every function starts in a auspicious way, the symposium was inaugurated with the prayer song. As many as 60 participants from various Engineering Colleges participated in the symposium.



WELCOME SESSION

The welcome address was given by Mr.M.Balaji/AP Civil, Symposium co-ordinator TECTA-2k21 . He welcomed the Chief Guest, Principal, Vice Principal, HoD, faculty members and the students from various colleges. He also added that he is very much delighted to see more external participants from various reputed colleges.

SYMPOSIUM THEME

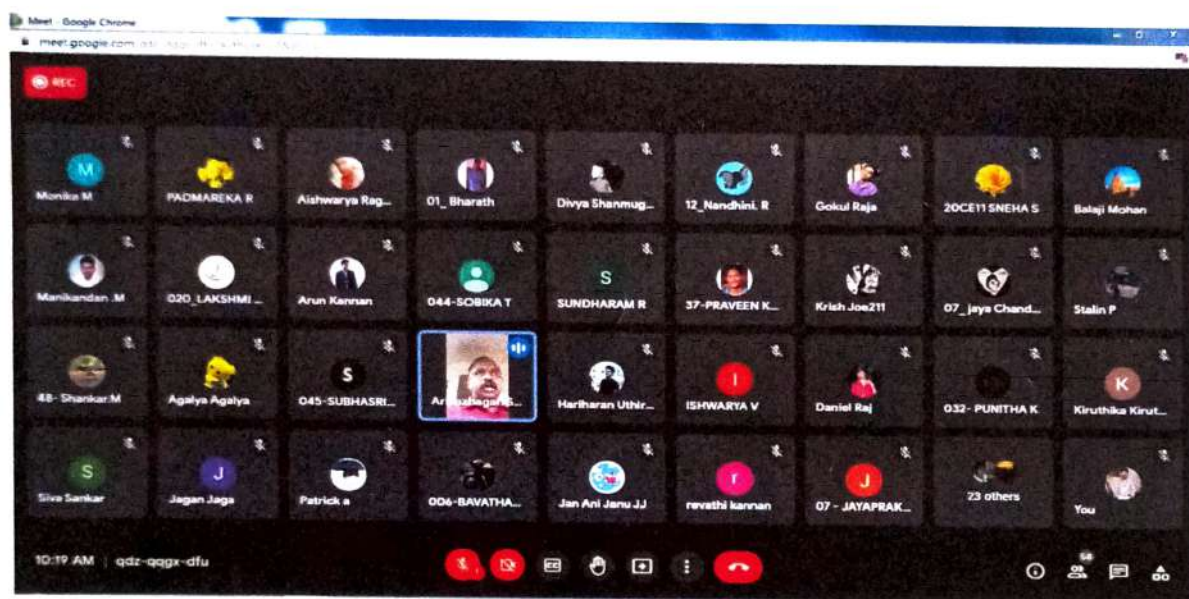
The symposium theme was detailed by Ms. R. Revathi, Head of the Department, Kings College of Engineering .She thanked the management and academic administration for permitting to conduct the symposium. She pointed out the importance of organizing such symposiums where focus is on the achievements of budding engineers and thanked all the participants for the enthusiasm.

INTRODUCING THE CHIEF GUEST

The Chief Guest was introduced by Ms.V.Ishwarya, Symposium co-ordinator, TECTA 2k21. She elaborated the qualification and work experience of the chief guest. She also detailed about his project works and various responsibilities held by the chief guest.

KEY NOTE ADDRESS

The chief guest Er.A.S.Arivazhagan, President of Civil Engineers and Architect Association-Thanjavur (CEAAT) has delivered the key note Address. He motivated students about the Civil Engineering scopes and higher studies. It was educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.



Chief Guest delivering key note address

DEPARTMENT PROMO

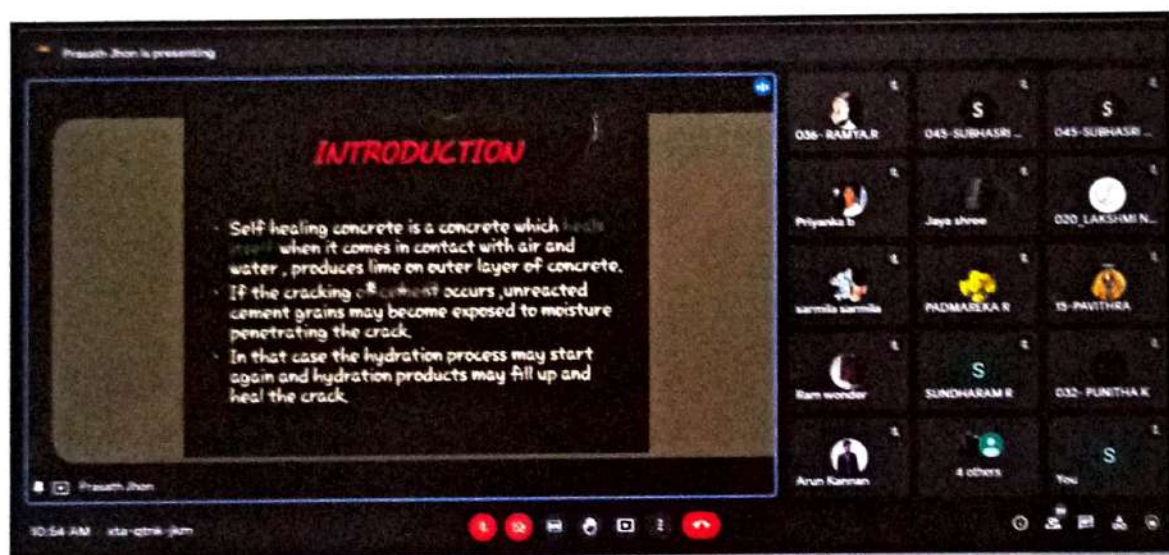
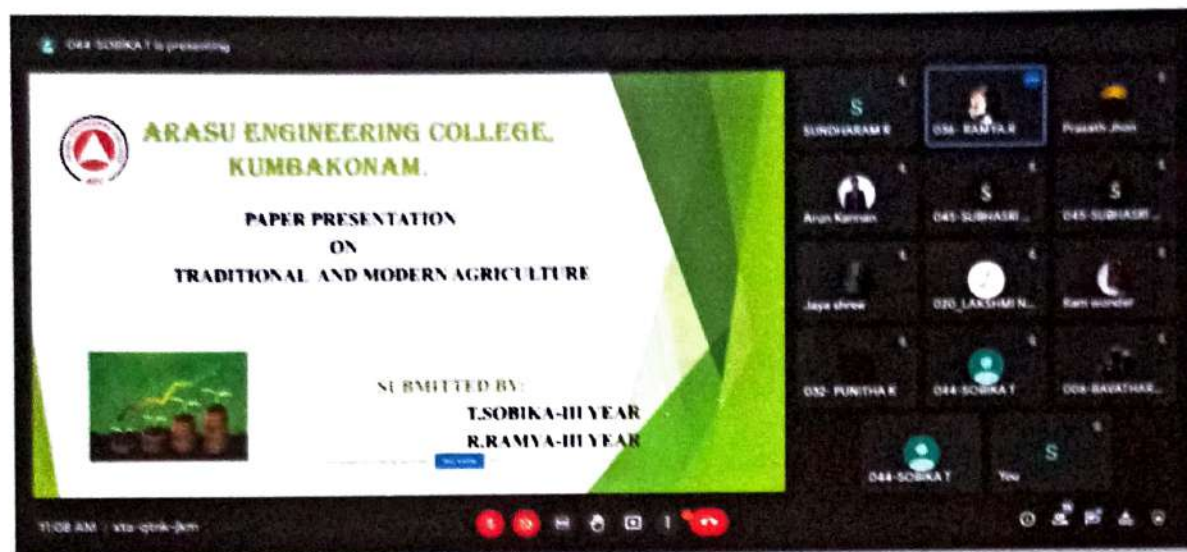
Students from final years have made and released the department promo about our department highlights.

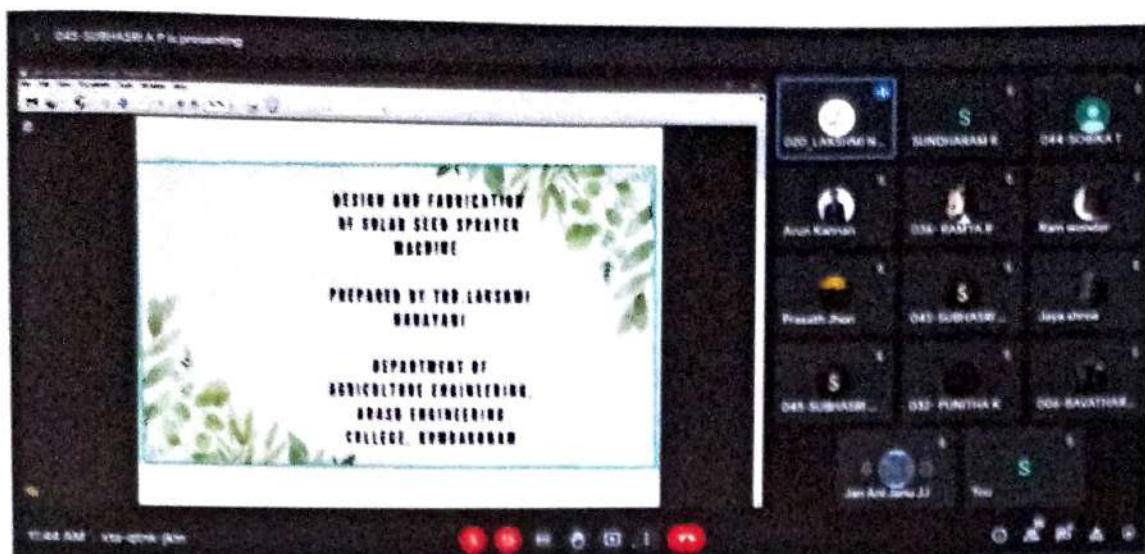
EVENTS

Then the Events sessions were started. Symposium events like Paper Presentation, Poster presentation, Technical Quiz, code cracking, Connection were conducted. Students eagerly

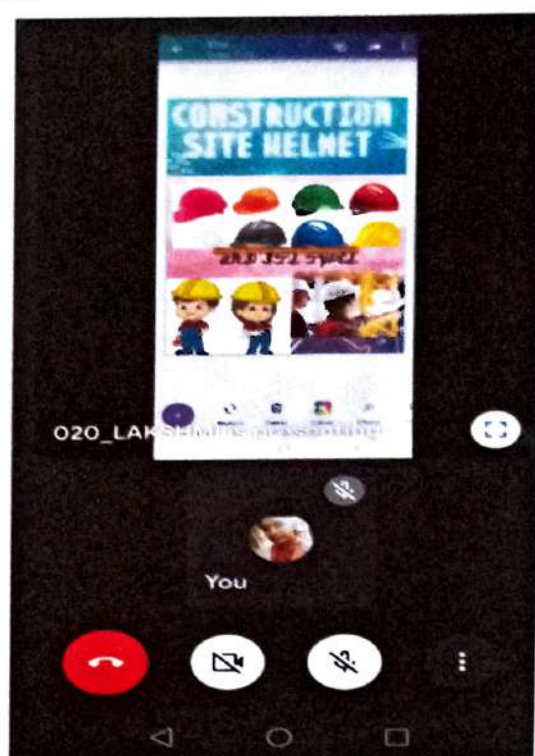
participated in all the events and competed for the best performances. All events were successfully completed within the stipulated time schedule.

There were total 18 paper presentations covering research areas in the field of Civil Engineering. Paper presentation, poster present through Google meet link (<https://meet.google.com/xta-qtnk-jkm>) & two rounds were conducted for technical quiz, code cracking through Google meet link and then the shortlisted students were announced as winners.

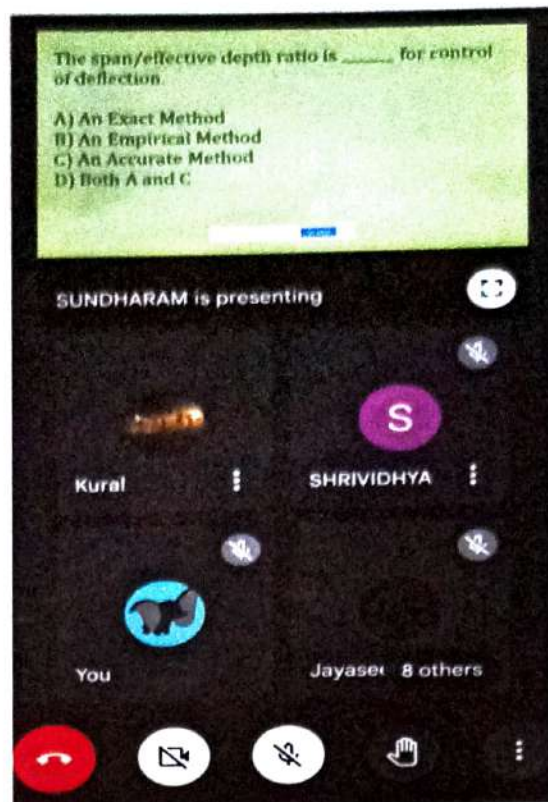




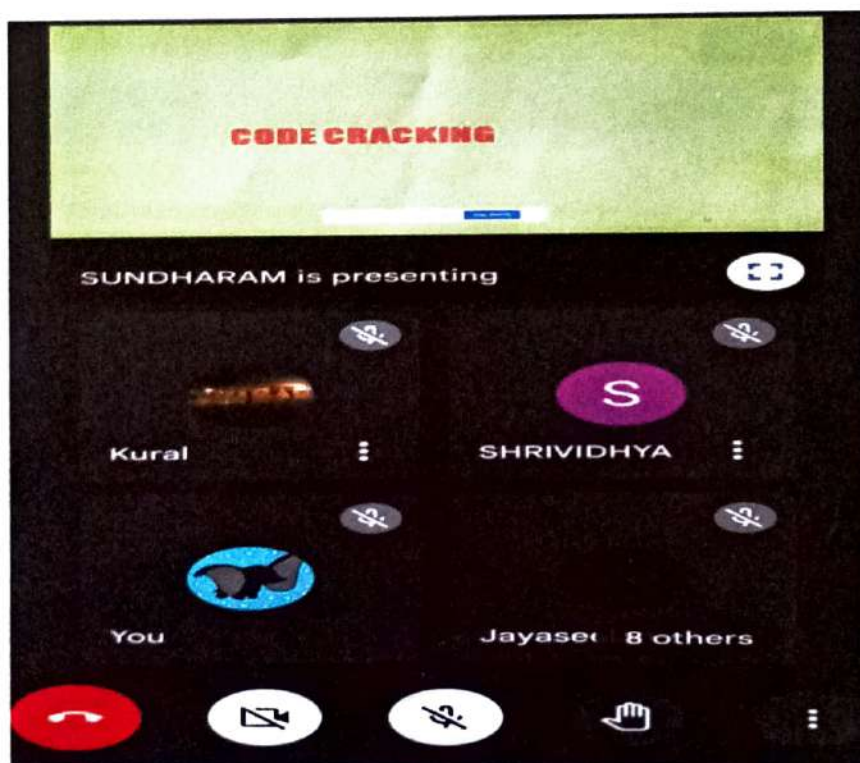
Paper Presentation
Panel members :
Ms.R.Revathi /HoD
Mr.R.Sundaram/AP
Mr.K.Arun/AP



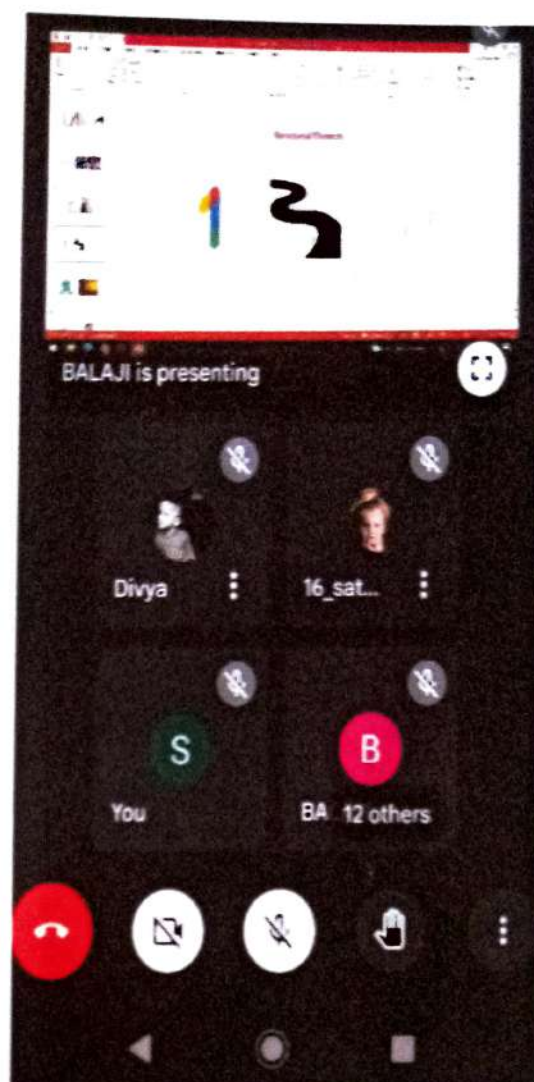
Poster Presentation hosted by Ms.V.Ishwarya/AP-Civil



Technical quiz hosted by Ms.T.Bhuvaneswari /AP-Civil



Code Cracking hosted by Ms.D.Shrividhya/AP-Civil



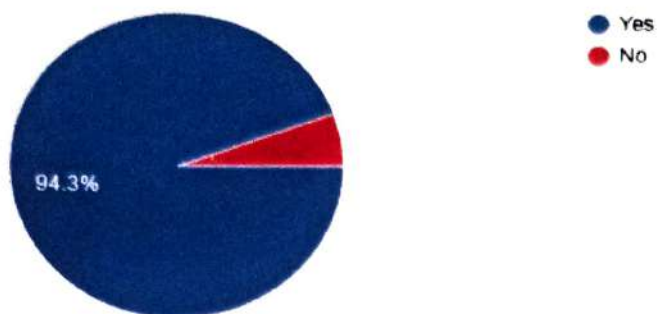
CONNECTION hosted by Mr.M.Balaji/AP & Mr.K.Ramchandar /AP-Civil

VALEDICTORY SESSION

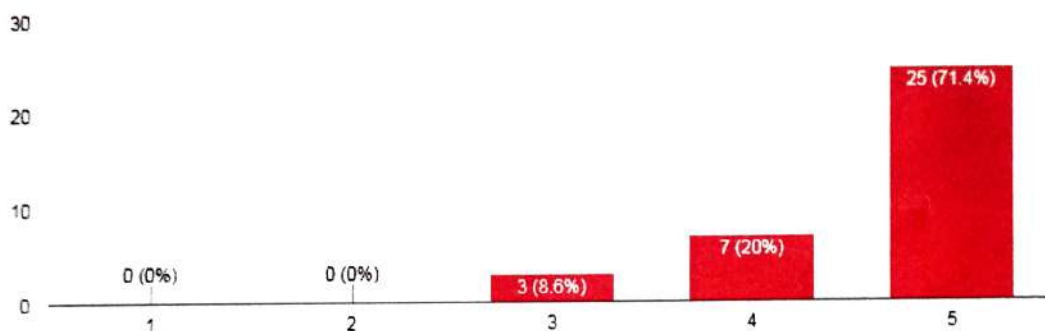
The valedictory session was conducted in the evening. The session started with Prize winners' announcement for the best performances in the various events. The Symposium ended with a vote of Thanks delivered by Mr.K.Ramachandar/AP Civil who expressed his sincere thanks to the delegates for spending their precious time for the occasion. He heartily thanked the Management, Principal, all the faculty & Staff members and the students. He also applauded the students for their passionate efforts with which they carried out the arduous task of making the Symposium a grand success. Students gave their valuable feedback and shared their wonderful experience with us.

Would you like to participate in our future events?

55 responses



How satisfied were you with the Events?



Students feedback

Handwritten signature: H. Riji
SYMPOSIUM COORDINATOR
Ms.V.Ishwarya
Mr.M.Balaji

Handwritten signature: Ms.R.Revathi
HOD/CIVIL
Ms.R.Revathi

Handwritten signature: Dr.J.Arputha Vijaya Selvi
PRINCIPAL
Dr.J.Arputha Vijaya Selvi



KINGS

COLLEGE OF ENGINEERING

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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 613503

ISTE STUDENT CHAPTER (TN217)

PRESENTS WEBINAR ON

"STRUCTURAL HEALTH MONITORING DURING CONSTRUCTION "

BY

Er. S. VAITHYANATHAN

FORMER PRESIDENT, CEAAT

PROPRIETOR, SURYA BUILDERS

THANJAVUR

11.10.2021

10:00 AM - 11:00 AM

 **YouTube
Live**

Ms.D.SHRIVIDHYA
COORDINATOR / Civil

Ms.T.GNANAJEYA
CONVENER

Dr.J.ARPUTHA VIJAYA SELVI
PRINCIPAL

DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (EVEN SEMESTER)
ORIENTATION PROGRAMME - REPORT

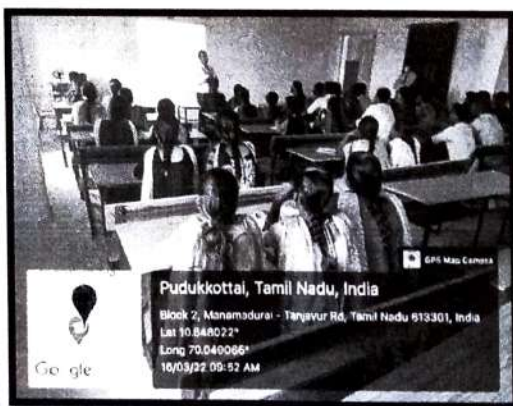
The Department of Civil Engineering organized an orientation program for II Year (Batch: 2020 -2024), III Year (Batch: 2019 -2023) and IV Year (2018-2022) students on 16.03.2022.

Background & Objective:

The objective of the orientation program is to create awareness about Curriculum, Regulations, CO, PO, PSO, PEO of Civil department and Certifications. Also the mapping between CO to PO and the significance of Outcome based Education (OBE) was detailed. The usage of Bloom's taxonomy in question paper setting and question bank preparation was clarified to the students.

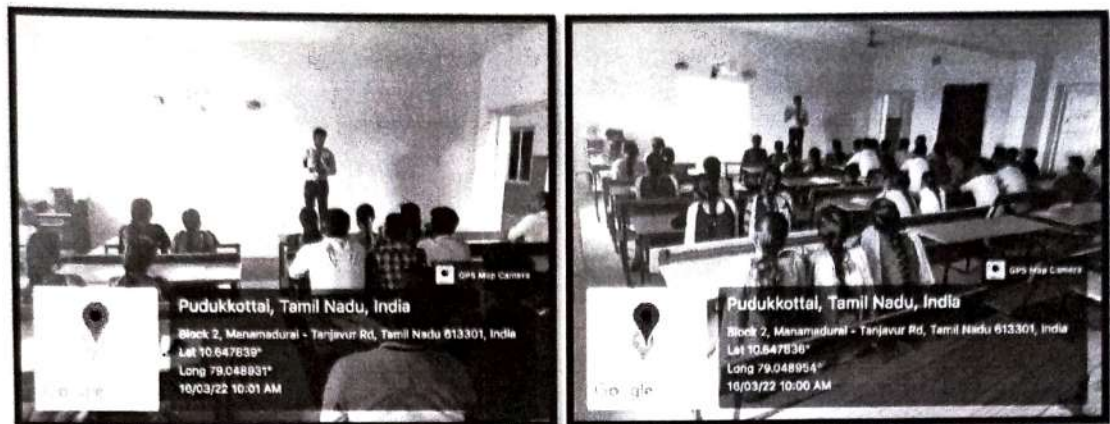
Session Details:

Dr.R.Saravanan, HoD/Civil, handled the session on Curriculum and Regulations. He narrated the Vision & Mission of department of Civil Engineering. He described about the purpose of Vision & Mission and how it can be achieved through OBE. Curriculum and Regulations were also explained. In addition he also detailed about the IHT & VAC process as per 2017 regulations.



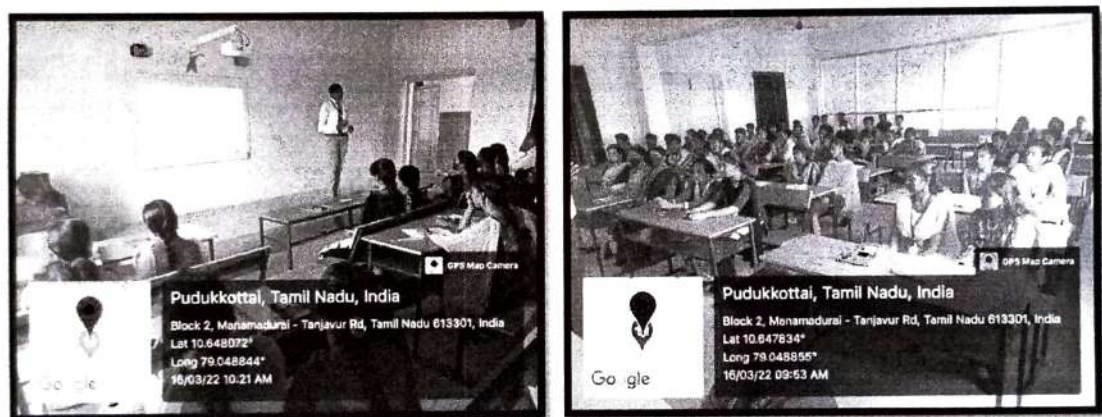
Session on Curriculum by Dr.R.Saravanan, HoD/Civil

The session was continued by **Mr.K.Arun, Ap/Civil**. This session focussed on CO,PO & Blooms Taxonomy. He highlighted the importance of OBE and CO-PO mapping with courses. He also explained this using a sample question paper and Blooms taxonomy levels are clearly detailed to the students.



Session on CO-PO by Mr.K.Arun, AP/Civil.

Next session was handled by **Mr.R.Sundharam, Ap/Civil**. This session focussed on student certifications. He guided the students for SWAYAM/NPTEL course certifications. He highlighted the importance of certifications to the students.



Session on Certifications by Mr.R.Sundharam, AP/Civil.

Outcome of the Proramme:

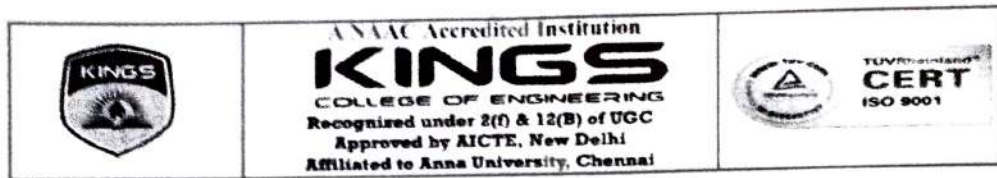
At the end of the orientation session, the students were able to,

- Familiarise the Scope of Civil Engineering
- Know about CO,PO,PSO and PEO of Civil department
- Realize the significance of Certifications

K.Arun
22/03/2022
PREPARED BY

R.Sundharam
22/03/2022
HOD/CIVIL

J. Mani
22/3/2022
PRINCIPAL



DEPARTMENT OF CIVIL ENGINEERING

SEMINAR REPORT - "THE FUTURE OF WATER IN OUR PLANET"

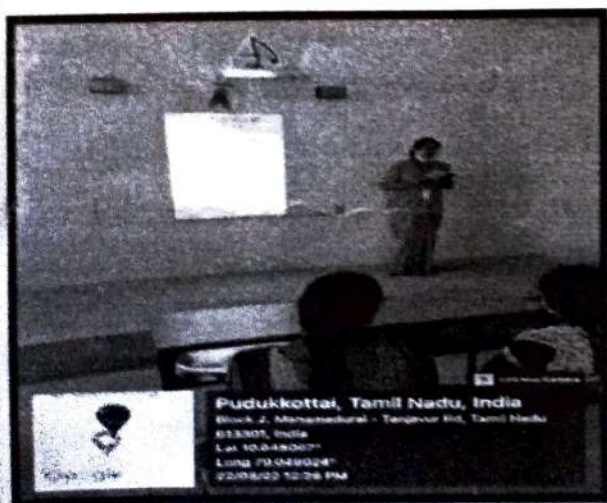
24.03.2022

BACKGROUND & OBJECTIVE:

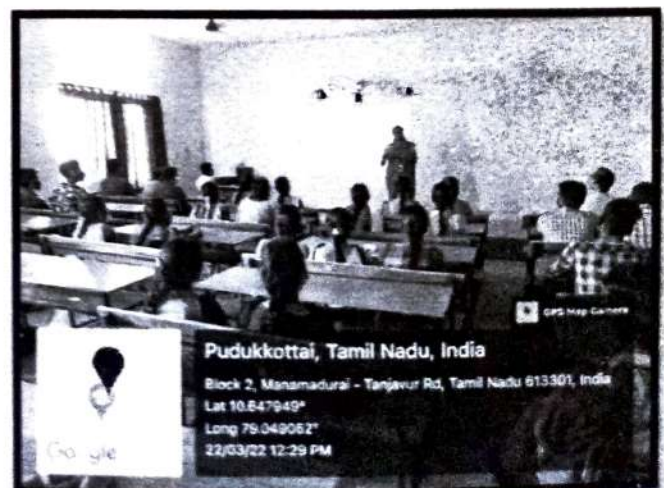
BUDDING ENGINEER'S CLUB (BE CLUB), Department of Civil Engineering, Kings College of Engineering organized a seminar for Civil Students on 22.03.2022 about the **"WORLD WATER DAY 2022"**. The main objective of this event is to provide awareness for the students to show their contributions and supports. Ms.D.Shrividhya AP/Civil organized the event and delivered the welcome address.

EVENT DETAILS:

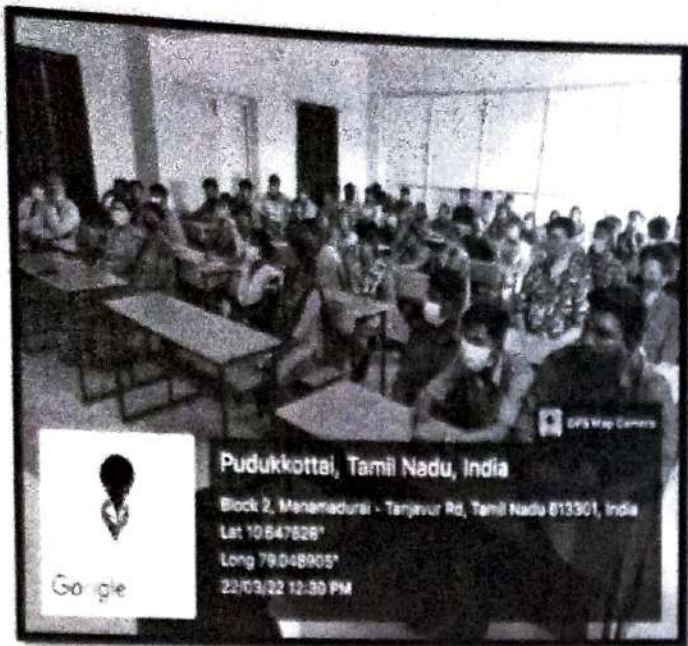
Ms.S.Gayathri, AP/Civil delivered a seminar on **"The Future of water in our planet"** for the occasion of World Water Day. World Water day is observed on the 22nd of March every year. The main aim of World Water Day is to educate the importance of water to the whole world. Also, it mainly focuses on reducing the wastage of water. Moreover, World Water Day is used to highlight the necessary improvement for access to water, hygiene facilities, and sanitation in all the countries. The focus for this year is groundwater, which is a dwindling resource overused by many countries. While groundwater is pumped for domestic and industrial use, it also is critical to the healthy functioning of ecosystems.



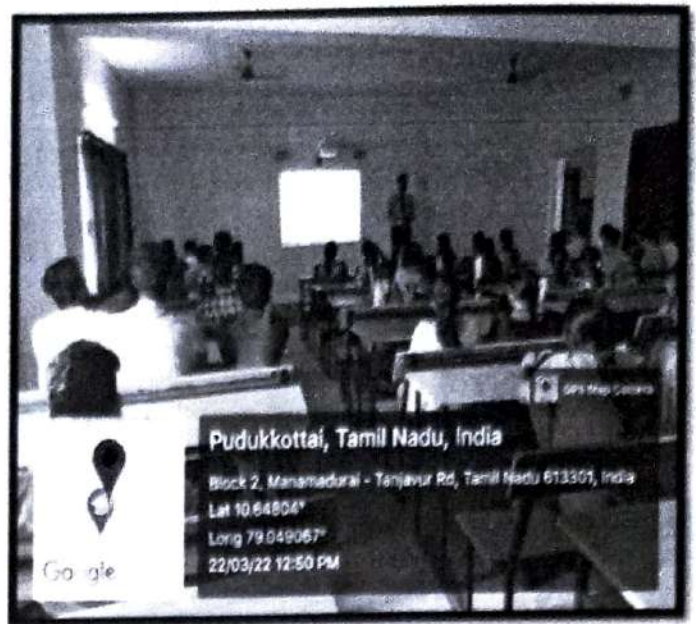
Ms.D.Shrividhya, AP/Civil delivering Welcome address



Ms.S.Gayathri, AP/Civil delivering Seminar



Participants view



Mr.K.Arun, AP/Civil delivering Vote of Thanks

OUTCOME:

II year, III year & IV year Civil Students eagerly attended this Seminar. And gain more knowledge about the importance of water. And they got an idea about saving water for future generation. Mr.K.Arun, AP/Civil concluded the event with vote of thanks.

D. Shif
24/3/22
COORDINATOR

K. Saravanan
24/03/2022
HOD/CIVIL

Good.
J. Ramesh
24/3/2022
PRINCIPAL



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Punalkulam, Near Thanjavur, Pudukkottai Dt - 613303

**BUDDING ENGINEER'S CLUB
DEPARTMENT OF CIVIL ENGINEERING
ORGANIZES
SEMINAR ON**

"THE FUTURE OF WATER IN OUR PLANET"



**Ms.S.GAYATHRI, M.E.,
ASSISTANT PROFESSOR,
DEPARTMENT OF CIVIL ENGINEERING,
KINGS COLLEGE OF ENGINEERING**

22.03.2022

12:00 PM - 01:00 PM

**M.D.SRIVANIYA
COORDINATOR**

HOD/CIVIL

**Dr.J.ARPUTHA VIJAYA SELVI
PRINCIPAL**



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021 - 2022 EVEN SEMESTER
BRIDGE COURSE REPORT

28.03.2022

The Department of Civil Engineering organized a bridge course for II Year & III Year students on 26.03.2022

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the student's knowledge, Fluid Mechanics was taken as bridge course for II year students and Mechanics of Solids for the III year students.

COURSE MAPPING

Mechanics of Solids was taken as bridge course to map Engineering Mechanics to know the basics of Mechanics. Fluid Mechanics was taken as a bridge course to map with Applied Hydraulic Engineering. The course addresses basic formulas and concepts which will be a platform for the students to learn their core subjects. Students learnt the structural engineering systems by characterizing and quantifying the uncertainties associated with the material properties and external forces, and propagating them through the relevant prediction equations.

SESSION DETAILS

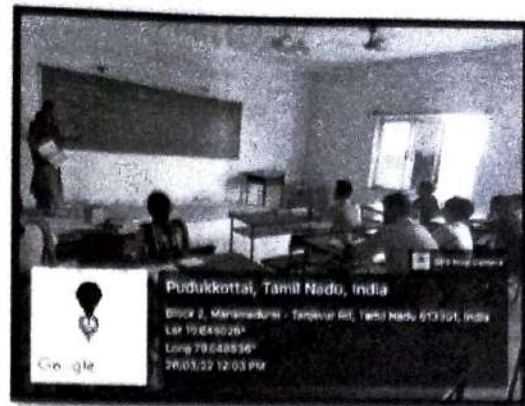
Ms.S.Gayathri, AP/CIVIL, handled the session for II year students. She described about Fluid Mechanics and also different types of hydraulic systems. She elaborated about the concepts and formulas.

Mr.R.Ramchandar, AP/CIVIL, handled the session for III year students. He elaborated about the mechanics of solids. He described the various structural forms and important structural properties.

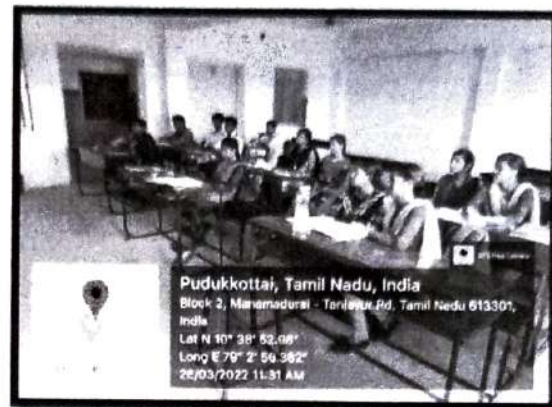
OUTCOME OF THE COURSE

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

- Understand the various fluid properties.
- Identify the mechanisms on different types of load and supports.
- Study their core subjects in a better manner.



II Year Bridge Course – Fluid Mechanics



III Year Bridge Course – Mechanics of Solids

Mr. Karun
28/03/2022
PREPARED BY
(Mr.K.ARUN,AP/CIVIL)

Dr. R. Saravanan
28/03/2022
HOD/CIVIL
(Dr.R.SARAVANAN)

J. Arputha Vijaya Selvi
29/3/2022
PRINCIPAL
(Dr.J.ARPUTHA VIJAYA SELVI)

30.05.2022

From

R.Sundharam

Assistant Professor,

Department of Civil Engineering,

Kings College of Engineering.

To

The Principal,

Kings College of Engineering.

Respected Madam,

Sub: Requesting permission for conducting Guest Lecture – reg,

With reference to the above subject we have planned to conduct a GUEST LECTURE on "SOIL MECHANICS" for SECOND year Civil Engineering students on 01.06.2022 by 10:00am. Resource person Ms.T.Mohana Sankari (HoD/Civil) from Arasu Engineering College, Kumbakonam will address the students. This Guest Lecture will be very useful for the second year students. Hence we request your good selves to kindly grant permission for conducting the Guest Lecture on the above said date and time.

Thanking You

Submitted to the Principal Mam,

R. Sundharam
30/05/2022
[Dr R. Saravanan]
HOD/CIVIL

Yours Sincerely

R. Sundharam
30/05/2022
(R.Sundharam)

S. Mohana Sankari
30/05/2022

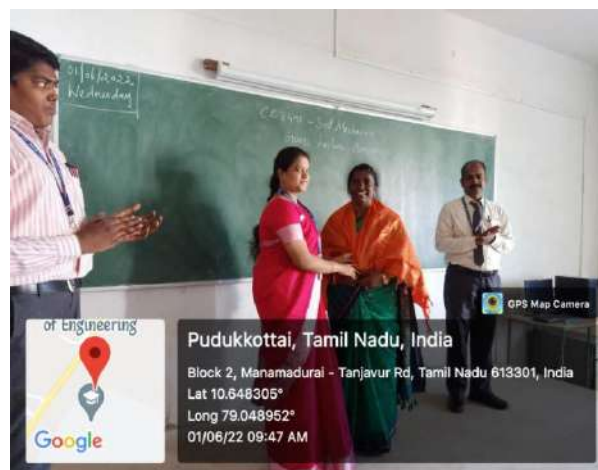
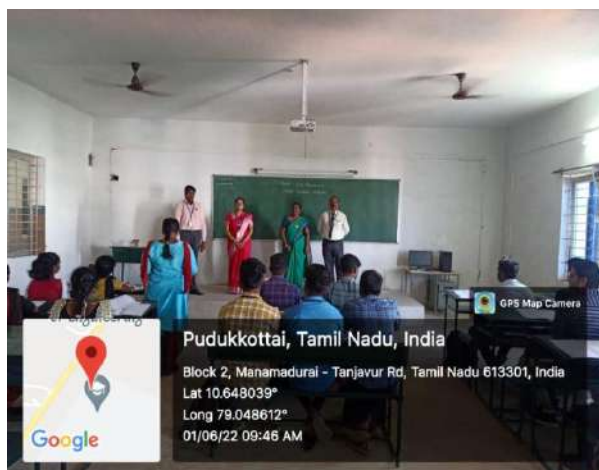
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (EVEN SEMESTER)
Guest Lecture on Soil Mechanics - REPORT

Date: 01st JUNE 2022

Time: 09:30am – 04:30pm

Background & Objective

Department of civil Engineering has organised a one day Guest lecture on Soil Mechanics for 2nd year students. **Mrs.T.Mohana Shankari, M.E,(Ph.D)**, HOD/Civil from Arasu Engineering College, Kumbakonam was the resource person. Ms.D.Shrividhya, AP/Civil organised the event, Dr.R.Saravanan HOD/Civil & Mr.R.Sundharam AP/Civil delivered the welcome address. The topic was related to the student's curriculum and the resource person gave a detailed lecture.



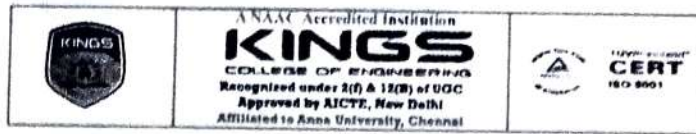
GUEST LECTURE SESSION

Outcome

The Guest lecture was very useful to the students, since the resource person highlighted the importance of Soil Mechanics. Around 20 students of 2nd year Civil Engineering were benefited through this guest lecture.

STAFF INCHARGE

HOD/CIVIL



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (EVEN SEM)

REPORT - NATIONAL CONFERENCE ON RECENT TRENDS AND INNOVATIONS IN CIVIL ENGINEERING (NC-RTICE'22)- 09th JUNE 2022

Venue: PALLAVA HALL

BACKGROUND & OBJECTIVE

Department of Civil Engineering, Kings College of Engineering organised a One day National level Conference titled NC-RTICE on 9th June 2022.

The conference emphasizes on recent innovations in various Fields/disciplines of Civil Engineering as listed below.

- Recent trends in Civil Engineering
- Innovations in Civil Engineering
- Advanced Concrete Technologies
- Structural Engineering
- Transport and Traffic Modelling
- GIS and Remote Sensing
- Water Resource Engineering
- Environmental Engineering
- Construction Management
- Geotechnical Engineering
- Advanced Surveying

This conference provide platform for academicians, researchers, scientists, industry experts and architects to exchange the ideas on the latest advances in Civil Engineering. The conference focuses to collaborative R & D works and new projects with end results of sharing knowledge among the participants. The major goal and feature of this conference is to bring academicians, research scholars, engineers, industry researchers together to exchange and share their experiences and discuss the practical challenges encountered and the solutions adopted. Academicians from different areas are invited to deliver their views regarding latest information in their respective expertise areas.

INAUGURAL SESSION

The Conference was inaugurated by the Chief Guest **Dr.J.Karthikeyan, Associate Professor, Department of Civil Engineering, NIT, Trichy**. As every function starts in a auspicious way, the conference was inaugurated with the prayer song. Our Principal **Dr.J.Arputha Vijaya Selvi**, also graced the inaugural session.



Inaugural Session

WELCOME ADDRESS

The welcome address was given by **Ms.D.Shrividhya, Organizing Secretary of NC-RTICE'22**. She welcomed the Dignitaries on the dais, faculty members and the students from various educational Institutions across the state. She also added that, she is very much delighted to see more external participants from various reputed colleges.



Welcome Address by Ms.D.Shrividhya, Organizing Secretary

PRESIDENTIAL ADDRESS

Dr.J.Arputha Vijaya Selvi, Principal of our college delivered the Presidential address. She highlighted the importance of Civil Engineering and the need for Civil Engineers in the near future. She also briefed a few points about various recent trends in Construction industry.



Presidential address by Principal Dr.J.Arputha Vijaya Selvi

KEYNOTE ADDRESS

Dr.J.Karthikeyan, Associate Professor, Department of Civil Engineering, NIT, Trichy graced the occasion as chief guest and delivered the keynote address. In his address, he lauded the Management and the academic administration of the institute for hosting a National Conference every year. He insisted that the opportunity is in every hand, the students have to make use of those various opportunities for their career. It was educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.



Keynote address by Dr.J.Karthikeyan, Associate Professor, NIT, Trichy

HONOURING SESSION & CONFERENCE THEME

The chief guest was felicitated with shawl and memento by Dr.J.Arputha Vijaya Selvi, Principal as a sign of remembrance and honour. Dr.R.Saravanan, HOD/Civil & Convenor of NC-RTICE'22 portrayed the conference theme in a detailed manner. He also applauded the academicians and participants from various institutions for their positive response to this conference.



Dr.J.Karthikeyan felicitated by Principal, Dr.J.Arputha Vijaya Slevi



Conference Theme by Dr.R.Saravanan, HOD/CIVIL

CHIEF GUEST INTRODUCTION

The Chief Guest was introduced by Mr.K.Arun, Organizing Secretary of NC-RTICE'22. He elaborated the qualification and work experience of the chief guest. He also detailed about his conference publications and various responsibilities held by the chief guest.



Introduction of Chief Guest by Mr.K.Arun, Organizing Secretary

RELEASE OF PROCEEDINGS

The Conference Proceedings was released by Dr.J.Arputha Vijaya Selvi, Principal of our college and received by the Chief guest Dr.J.Karthikeyan, Associate Professor, Department of Civil Engineering, NIT, Trichy and jointly felicitated by all the members present on the dais.



Proceedings was released by Principal and received by the Chief Guest

TECHNICAL SESSION

The technical session started in an impressive manner, where participants eagerly presented their papers in various domains. Morning offline presentation was conducted and afternoon online presentation was organized for the outstation participants. **Online Participants from IIT (BHU) Varanasi and Nasik, Maharashtra were the highlights of this year Conference.** The selected papers will be published in the MAT journal.



Technical Session - Offline Presentation

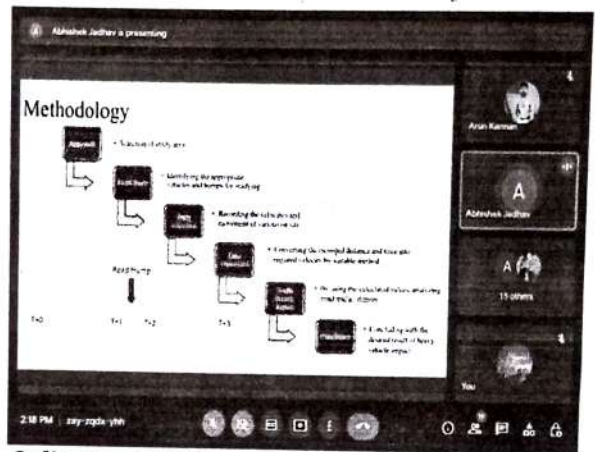
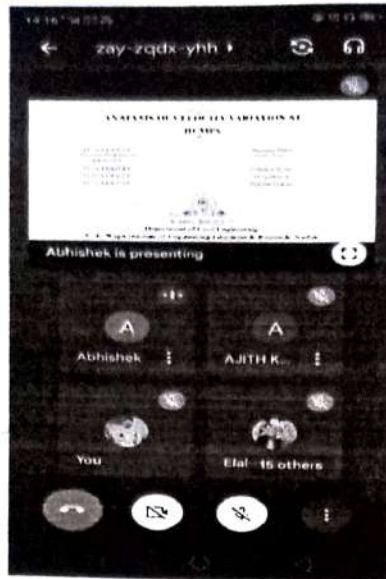
PARTICIPANT DETAILS:

TOTAL PAPERS- 32

EXTERNAL - 24

INTERNAL- 8

EXTERNAL PARTICIPANTS- 52



Technical Session - Online Presentation

VALEDICTORY SESSION

The valedictory session started with certificate distribution and event feedback. The Conference ended with a vote of thanks delivered by Ms.D.Shrividhya, Organizing Secretary of NC-RTICE'22 who expressed her sincere thanks to the delegates for spending their precious time for the occasion. She heartily thanked the Management, Principal, all the faculty & Staff members and the students. She also appreciated the students for their passionate efforts with which they carried out the difficult task of making the Conference a grand success.



FEEDBACK FROM THE PARTICIPANTS

Ncon'22 - 09.06.2022 Feedback

Questions Responses Settings

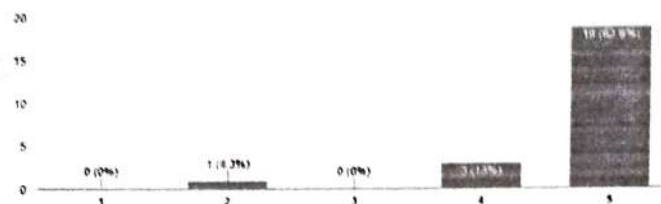
Total points: 0

FEEDBACK FOR NATIONAL CONFERENCE ON "RECENT TRENDS AND INNOVATIONS IN CIVIL ENGINEERING" ON 09.06.2022

How satisfied were you with the Conference?

Copy

23 responses



Ncon'22 - 09.06.2022 Feedback

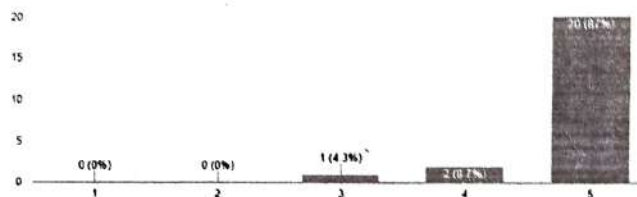
Questions Responses Settings

Total points: 0

How satisfied were you with the Organizing team?

Copy

23 responses



docs.google.com/forms/d/1fNtNtAH1t0j46wLwLyc_N7ys4PKgHt2V2FaQ0Hq5bN/edit#responses

Ncon'22 - 09.06.2022 Feedback

Questions Responses Settings

Total points: 0

Any additional comments regarding overall feedback for the event?

Copy

22 responses



Would you like to participate in our future events?

Copy

12 responses



SOME CHERISHING MOMENTS...



K. Anand
14/06/2022
D. Anand
14/6/22
CONFERENCE COORDINATOR

R. Saravanan
14/06/2022
HOD/CIVIL

J. Murugesu
14/6/2022
PRINCIPAL

DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (EVEN SEM)
REPORT – DEPARTMENT PROJECT EXPO'2022

16.06.2022

BACKGROUND & OBJECTIVE:

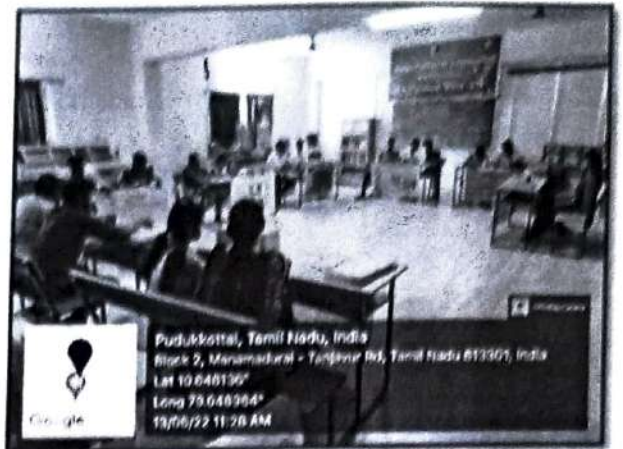
Department of Civil Engineering, Kings College of Engineering organized the "Department Project Expo'2022" for IV year Civil Students on 13.06.2022. The main objective of this project expo is to provide a platform the students to present their 8th semester project work. Mr.K.Arun, Project coordinator organized the project expo. Dr.S.Sivakumar, Vice Principal & Dr.R.Saravanan, HoD/civil were the Jury members for the project expo.

EXPO DETAILS:

8 batches participated in the Project expo. Students presented about their project through poster and displayed the samples. Each batch was given 15 minutes duration to explain their project. Jury members evaluated the projects and gave feedback & valuable comments to the students. Based on the presentation, poster content and viva, marks were awarded by the Jury panel and 2 projects were selected for rewards.

S No	Batch Members	Year/ Sem	Project Title	Category
1	ARAVINTH M DEENATHAYALAN V KALAIKUMAR S KARIKALAN S	IV / VIII	EXPERIMENTAL INVESTIGATION ON TILES MADE FROM RECYCLED LDPE PLASTIC WASTE	Innovative Project
2	JAYASHREE S NANDHINI R RAHINI S	IV / VIII	EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMNT OF CEMENT USING GLASS POWDER IN CONCRETE	Best Project

SOME GLIMPSES OF THE PROJECT EXPO



OUTCOME:

Final year students eagerly participated in the Project Expo'2022. Students gained knowledge about poster presentation and got valuable feedback from the jury members which will be very much useful for their university viva voce examinations.

X. Anupriya
16/06/2022
PROJECT COORDINATOR

Dr. R. Saravanan
16/06/2022
HOD/CIVIL
[Dr. R. Saravanan]

J. Anupriya
16/6/2022
PRINCIPAL



ISTE STAFF CHAPTER [TN 205] ACADEMIC YEAR 2021-22 (EVEN SEMESTER) WEBINAR REPORT

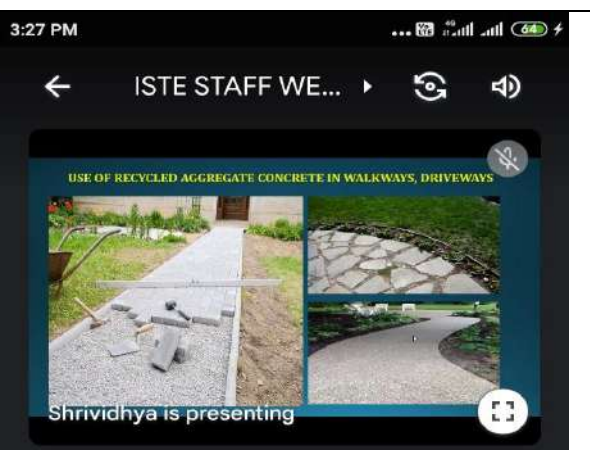
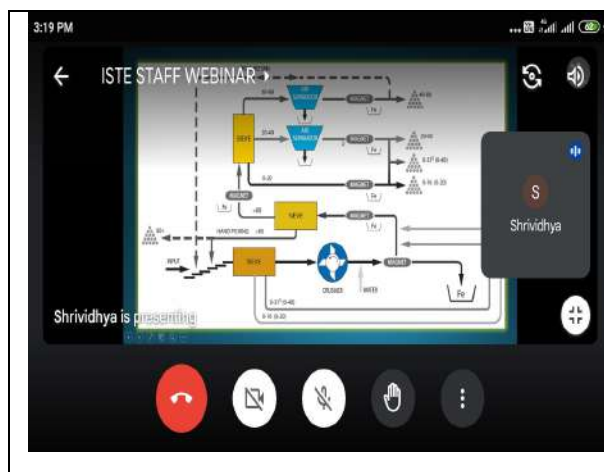
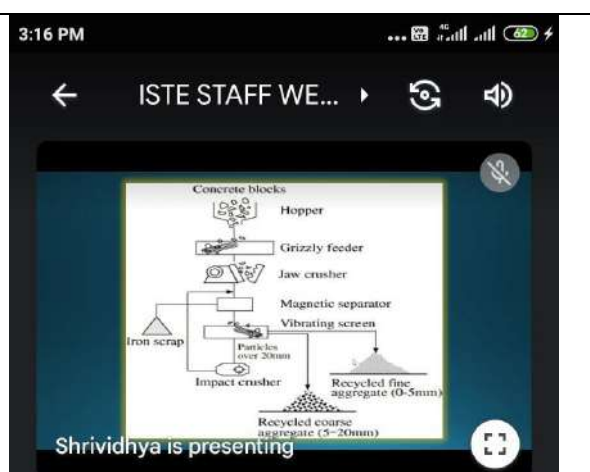
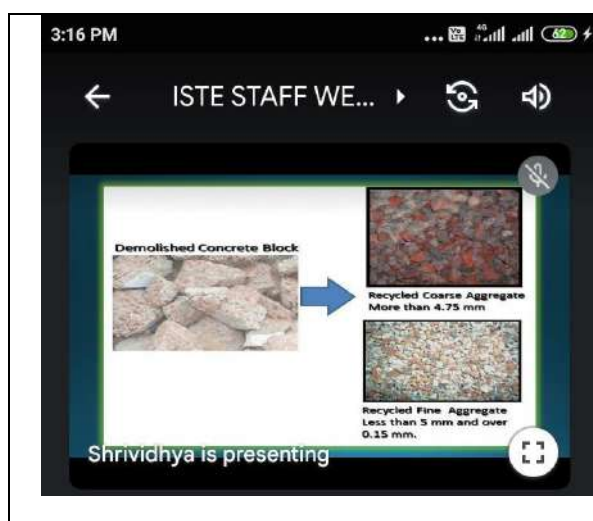
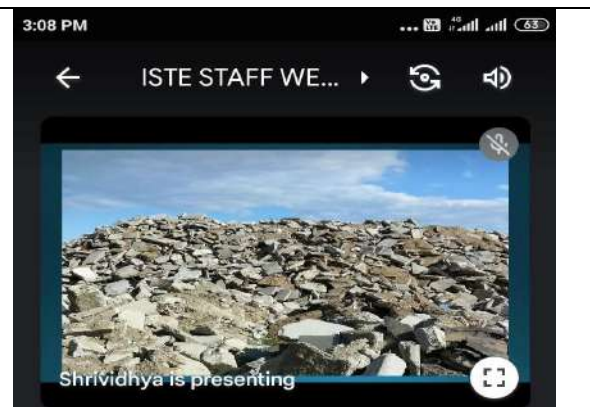
18.04.2022

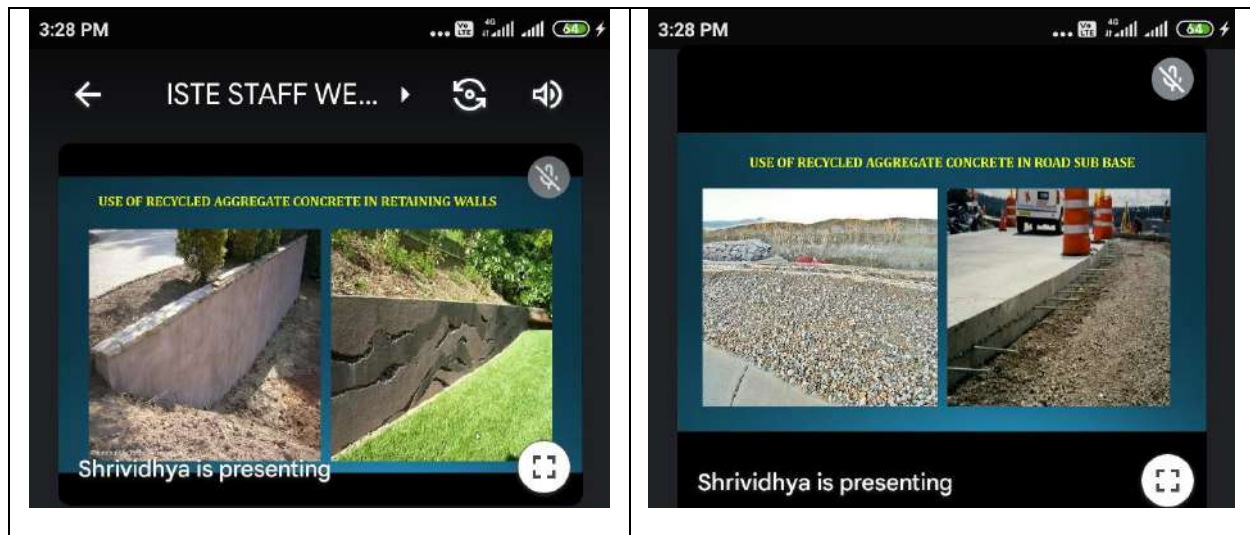
A one day webinar titled “**Applications of Recycled Concrete Aggregate in Construction**” was organized by the ISTE Staff Chapter [TN 205] through YouTube live streaming on **07.04.2022** from 3.00p.m. to 4.00p.m. to the faculty members of Kings College of Engineering with an objective to offer a better understanding of Applications of Recycled Concrete Aggregate in Construction. Welcome address was delivered by Mrs.T.Gnanajeya, Coordinator / ISTE Chapter. The session was handled by eminent resource person **Ms.D.Shrividhya, Assistant Professor/Civil Engineering**. The resource person presented the concepts Introduction, Source of Aggregate, Procedure to obtain RCA (Recycled Concrete Aggregate), Manufacturing of Recycled Aggregate, Crashing of demolished concrete, Application of Recycled Aggregate, Use of Recycled Aggregate Concrete with example, Properties and various testing methods, Obstacles in use of RCA, Value Engineering Benefits and Advantages of RCA in excellent manner. Totally 17 faculty members actively participated in this session and gained knowledge about Applications of Recycled Concrete Aggregate in Construction. Vote of thanks was given by Mrs.T.Gnanajeya, Coordinator / ISTE Chapter. After the session participants gave the feedback through feedback link.

Webinar Highlights

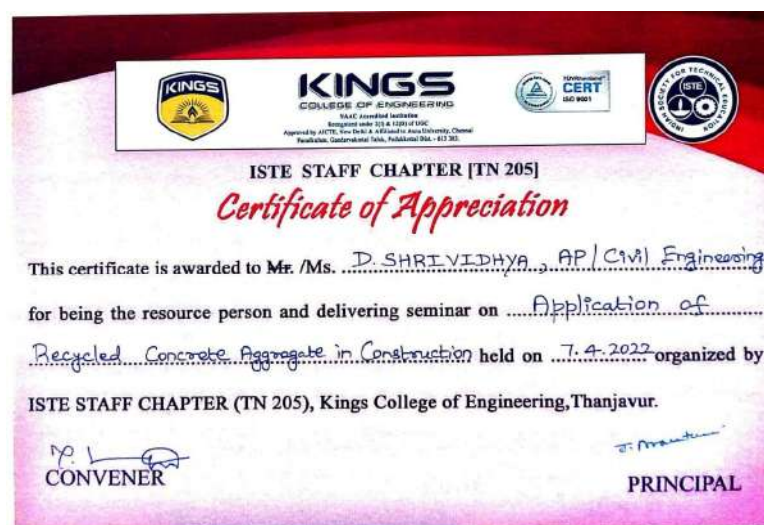


WEBINAR BROCHURE



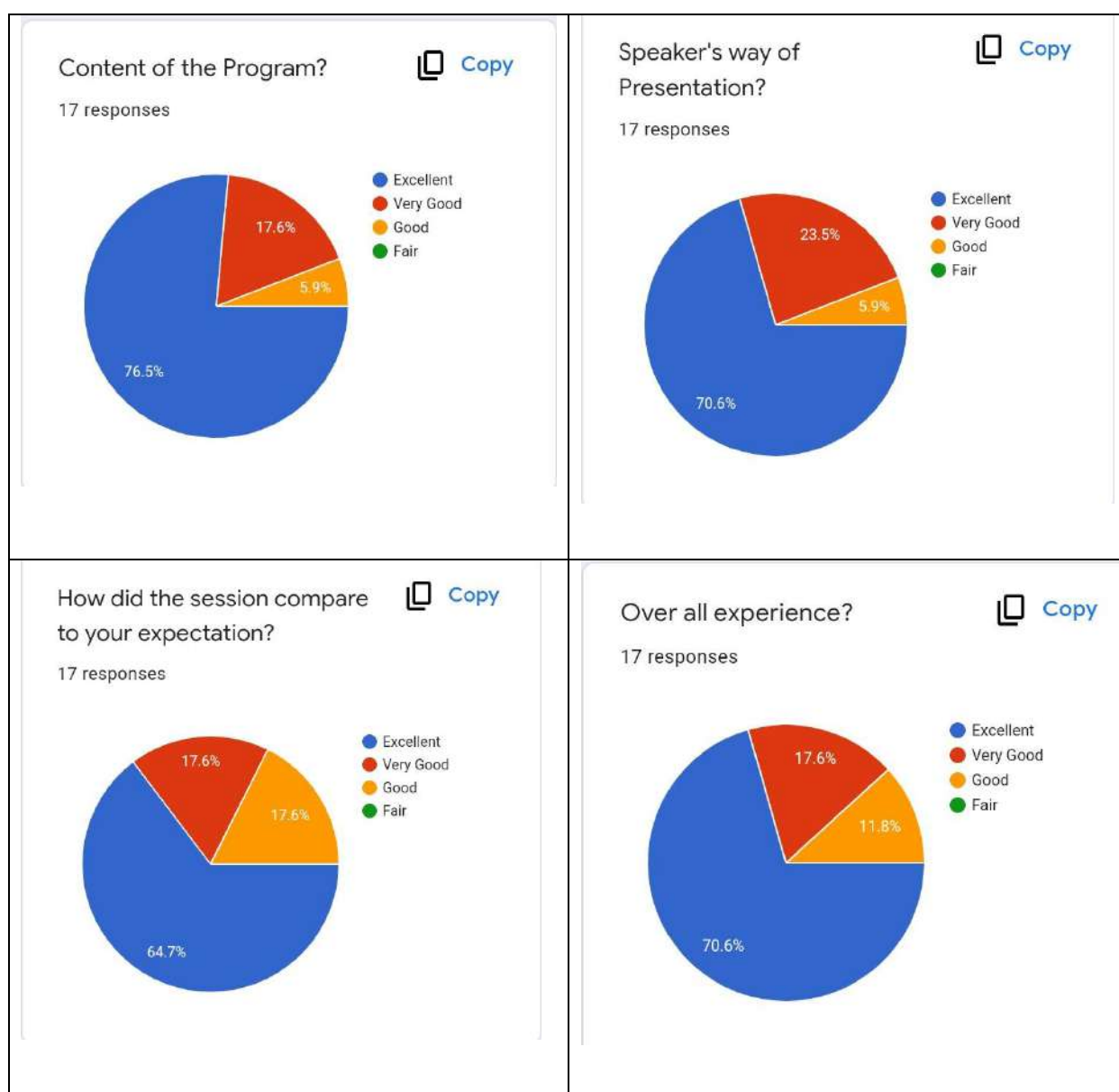


Principal gives away the Certificate of Appreciation to the Resource Person



Certificate of Appreciation - Resource Person

Feedback Questions and Responses



Mrs.T. Gnanajeya
Convener

Dr.J. Arputha Vijaya Selvi
Principal

**3.2.2 - Number of workshops/seminars conducted on Research Methodology,
Intellectual Property Rights (IPR) and entrepreneurship during the year**

Sl. No.	Date	Details	Beneficiaries	Page No.
CSE				
1	18.08.2021	Bridge course for III-year in “An Introduction to 8085 Microprocessor”.	42	2
2		Bridge course for IV-year “An Introduction to Wireless Sensor Networks”	39	
3		Bridge course for IV-year in “IoT& its Application”.	36	
4	18.08.2021	Academic Aspects of CSE Dept	50	6
5		Importance of Professional Society	50	
6		Current Opportunities in IT Industry	50	
7		GATE Awareness Program	42	
8	15.09.2021	Internal Staff seminar in the topic of “ IOT application using Tinkercard.com”	15	10
9	24.09.2021	Technical symposium “CISABZ’21”	22	12
10	30.12.2021	Internal Staff seminar in the topic of “ Energy Efficient Routing in WSNs Based on Dynamic Cuckoo Search Algorithm “	15	21
11	31.01.2022	Internal Staff seminar in the topic of “IoT Application in Healthcare devices “	15	23
12	09.03.2022	Online certification course.	103	25
13		Mini project.	40	27
14	19.02.2022	Bridge course for II- year students on “Introduction to mobile application development lab”.	45	29
15	07.03.2022	Bridge course for II- year students on “Introduction to Basic Unix Commands”.	60	30
16	19.05.2022	Workshop on “ Basics of Data Science with R programming”	119	32



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 ODD SEMESTER

BRIDGE COURSE REPORT

Department of Computer Science & Engineering organized bridge course on "An Introduction to 8085 Microprocessor" for III year Students and "An Introduction to Wireless Sensor Networks" for IV Year Students on 18.08.2021 through online mode.

OBJECTIVES

- To develop academic skills
- To raise the level of understanding of students in that subjects to improve themselves for further academic work.
- Applications based self-learning
- The students will be equipped with the knowledge and the confidence

RESOURCE PERSON DETAILS

Class	Timing	Topic	Resource Person
III CSE	12 pm - 2.45 pm	An Introduction to 8085 Microprocessor	Dr.S.M.Uma, HOD / CSE
IV CSE	9.30 am - 11.45 am	An Introduction to Wireless Sensor Networks	Ms.K.Abhirami, IQAC / Head, Dept of CSE
	12.00 pm - 1.00 pm	IoT & its Application	Mr.K.Arjun, Trainer Infosystems, Thanjavur

SESSION DETAILS

Dr.S.M.Uma, Head of the Department described briefly about the architecture of 8085 microprocessor to III Year students. She explained the functionalities of each component of 8085 processor and also described the difference between 8085 and 8086 microprocessor. she demonstrated the concept behind the simple 8-bit program of 8085 microprocessor. Totally 42 students actively participated.

Ms.K.Abhirami, IQAC / Head described the basics of wireless sensor networks and its architecture to IV Year students. She explained various routing protocols of wireless sensor networks. She discussed about various challenges and issues in this domain. Totally 36 students actively participated.

Mr.K.Arjun, Trainer, Infosystem described the basic concepts of IoT and its architecture. He explained the functionalities and specification of each sensors. He demonstrated one sample project using these sensors and showed the output. This session was helpful to the students to understand the subject and do their projects in this domain. Totally 36 students actively participated and got benefited.

OUTCOME:

- Students may understand the subject very well
- Helpful to determine the project domain
- Able to understand the programming concept of 8086 processor
- Have an exposure to new domain

BRIDGE COURSE FEEDBACK ANALYSIS REPORT

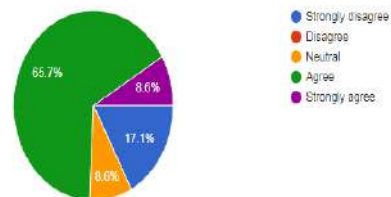
TITLE: Introduction to 8085 Microprocessor

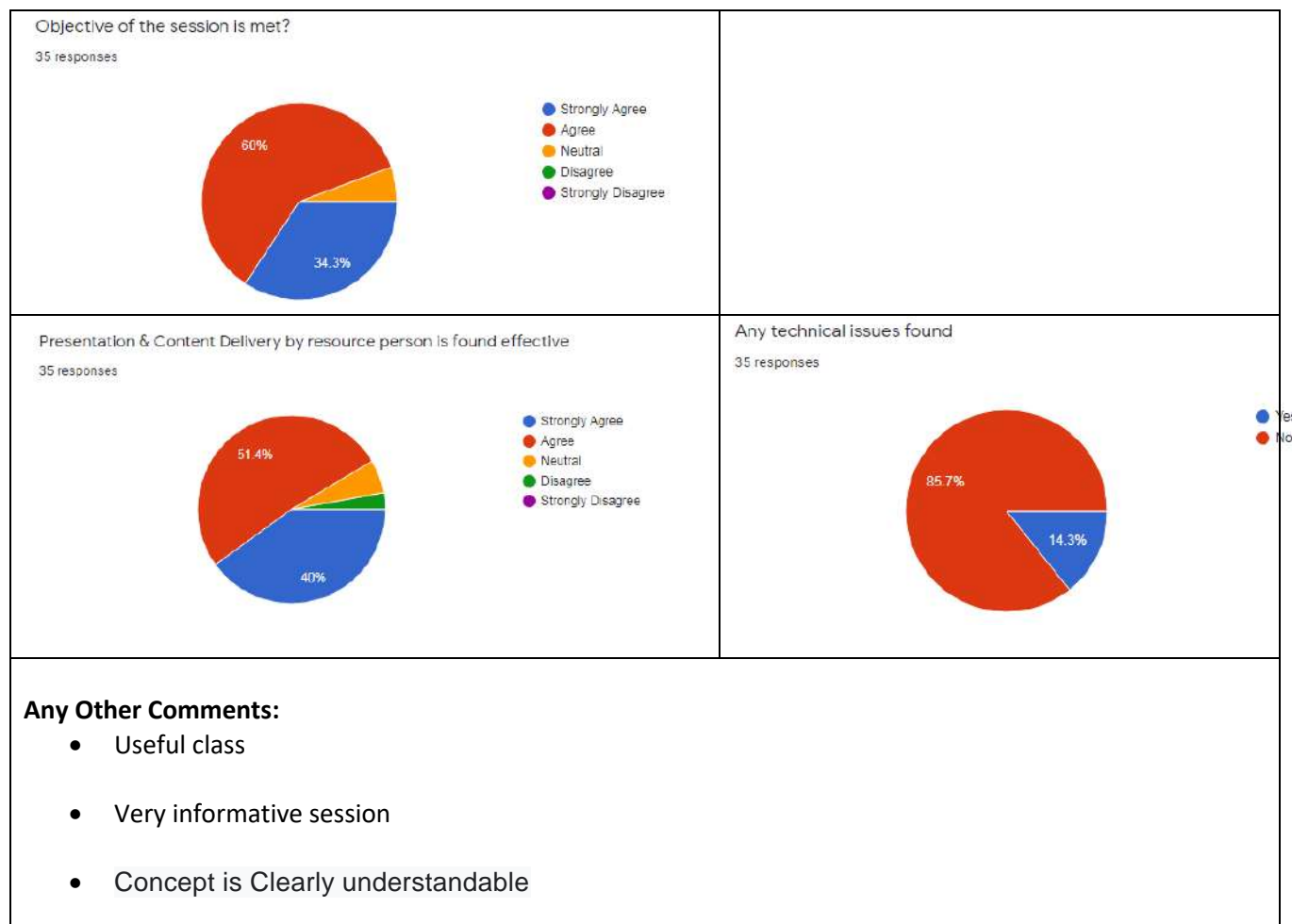
Year/Sem: III /V

DATE:18.8.21

Total No of Students Attended: 42

Session is well planned and Organized
35 responses





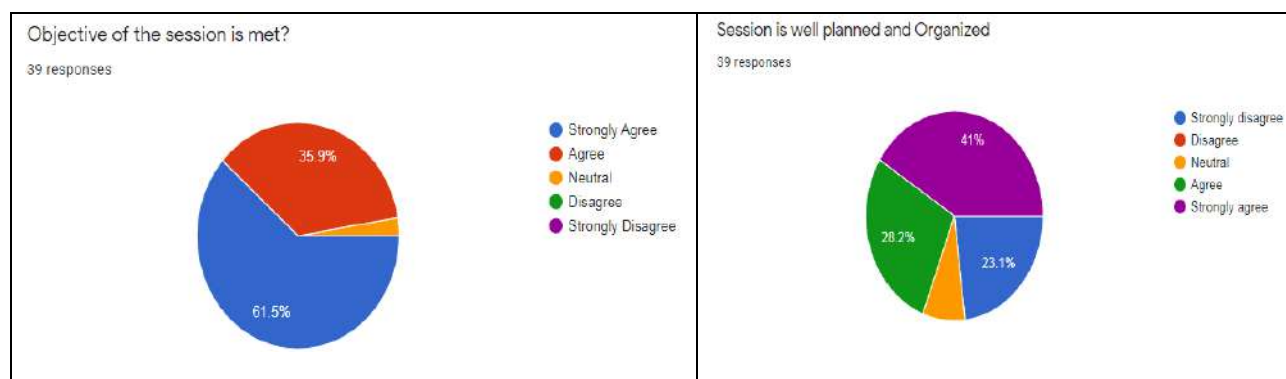
BRIDGE COURSE FEEDBACK ANALYSIS REPORT

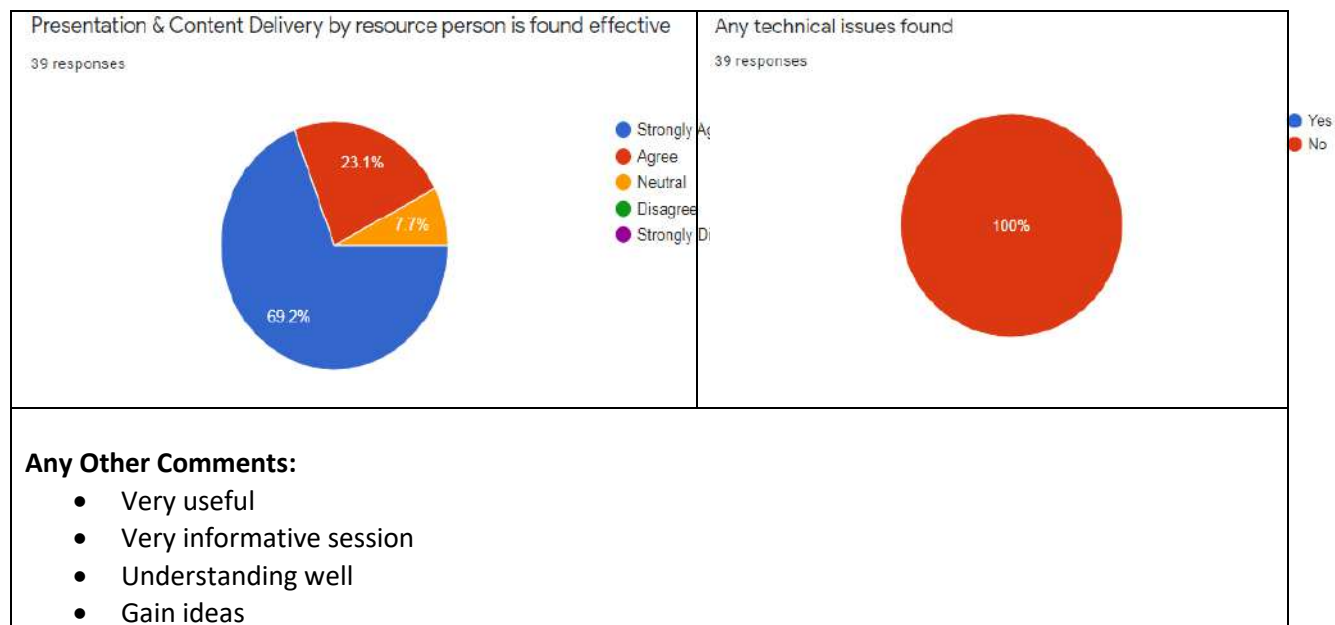
TITLE: Introduction to Wireless Sensor Networks

Year/Sem: IV /VIII

DATE:18.8.21

Total No of Students Attended: 39





Co-ordinator
(Ms.S.Puvaneswari AP / CSE)

HOD/CSE

Principal



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 ODD SEMESTER

ORIENTATION REPORT

Department of Computer Science & Engineering organized Orientation programme on "GATE Awareness" for III year students and "Academic Aspects of CSE department & Importance of Professional Society" for II year students on 18.08.2021 through online mode.

OBJECTIVES

- To understand the importance of GATE exam
- To raise the level of participation to GATE exam
- To understand PEO, PSO and PO of curriculum
- To understand the importance of SWAYAM exam
- The students will be equipped with the knowledge and the confidence
- The students will become the member of any one professional society

RESOURCE PERSON DETAILS

Class	Timing	Topic	Resource Person
II CSE	10.45 am - 11.45 am	Academic Aspects of CSE Department	Dr.S.M.Uma HOD / CSE Ms.G.Chandra Praba AP / CSE
	12 pm - 1 pm	Current Opportunities in IT Industry	Mr.A.Karthik, Digital Marketer, Digital Ting, Chennai
	1.45 - 2.45	Importance of Professional Society	Ms.S.Puvaneswari AP / CSE
III CSE	9.30 am - 10.30 am	GATE Awareness	Ms.B.Sangeetha AP /CSE

SESSION DETAILS

Dr.S.M.Uma, Head of the Department elaborated the Academic aspects of Department of CSE to II Year Students. She also explained the activities to be done in the department and encouraged the students to participate in those events such as Student Change Club (SCC) activity, Student Seminar and so on. Ms.G.Chandra praba AP / CSE described the curriculum and syllabus of III semester subjects. She explained the basic concepts behind Programme Educational Objectives (PEO), Programme Specific Objectives (PSO), Programme Outcomes (PO). She also explained the importance of registration and completion of SWAYAM course. Ms.S.Puvaneswari AP / CSE, discussed about the importance of being a member in professional society. Mr.A.Karthik, Trainer described the various career opportunities available in IT industry and explained the roles and responsibilities of a software engineer. Totally 50 students actively participated.

Ms.B.Sangeetha AP / CSE addressed the importance of GATE exam to III Year students. She explained the syllabus of CSE department GATE exam. She discussed the weightage of curriculum subjects and had given the guidelines to crack the GATE exam . She described the benefits and importance of GATE score. She created the awareness about GATE exam. Totally 42 students actively participated.

OUTCOME:

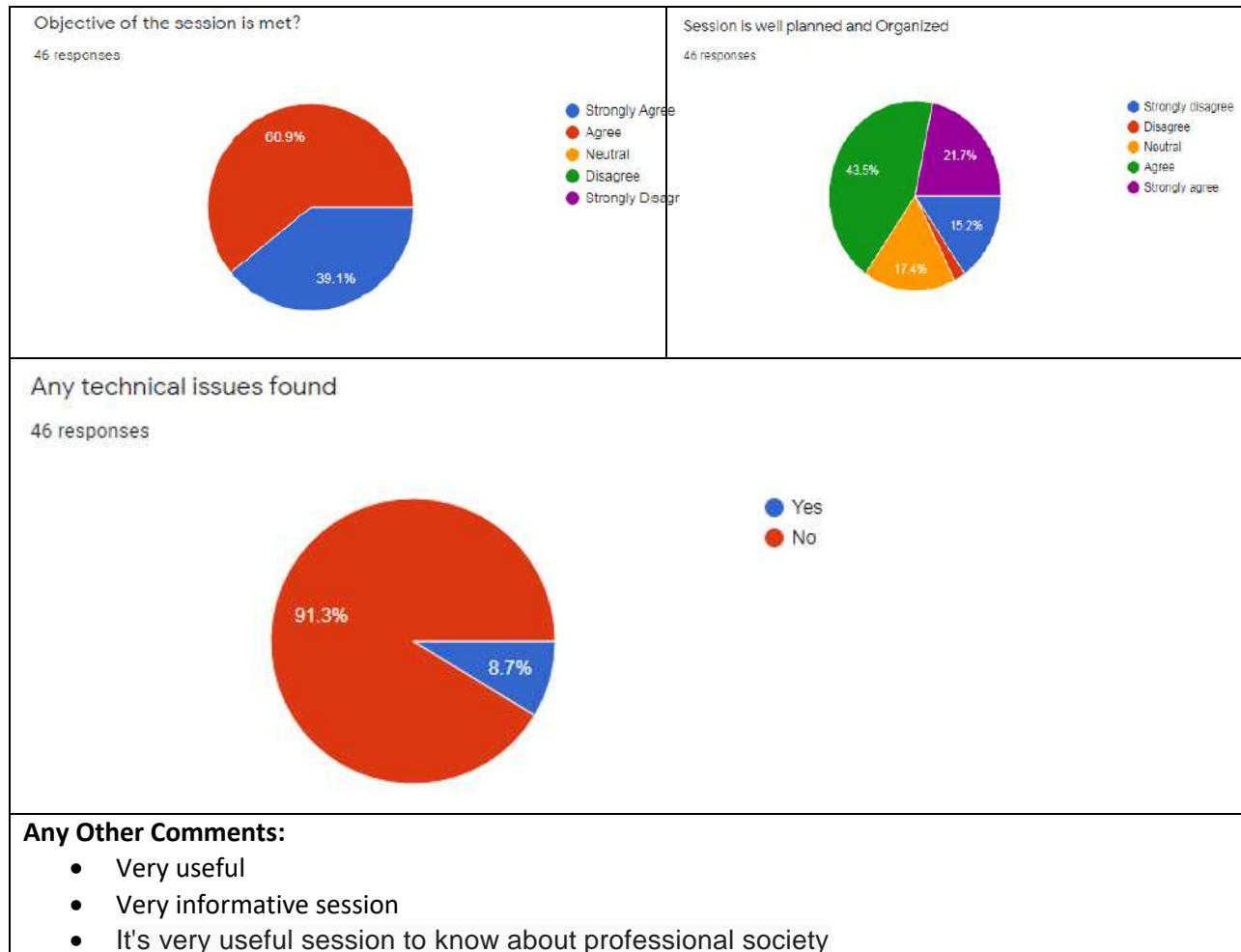
- Understand the academic aspects of CSE department
- Understand the concept of PO, PEO, PSO
- Have an exposure about various opportunities in IT industry
- Effectively attend GATE class

ORIENTATION PROGRAM FEEDBACK ANALYSIS REPORT

TITLE: Academic Aspects
Total No of Students Attended: 46

Year/Sem: II /III

DATE:18.8.21

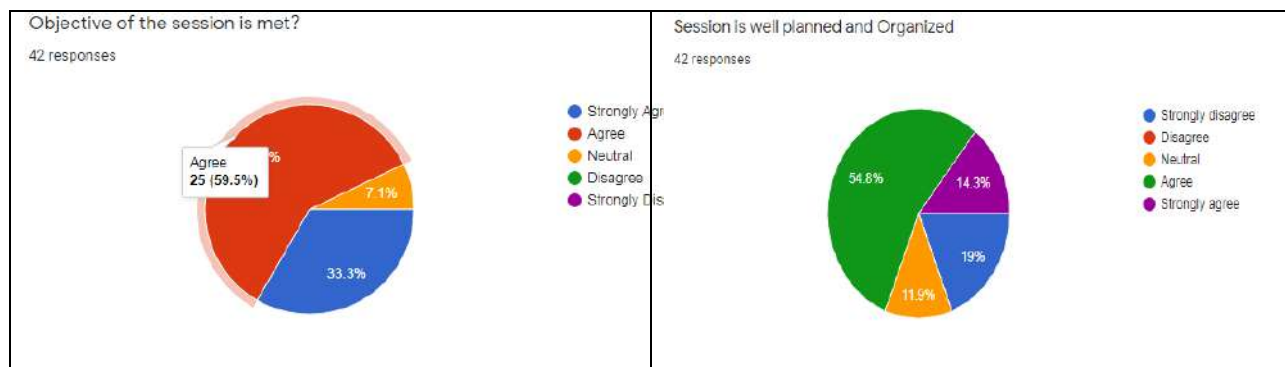


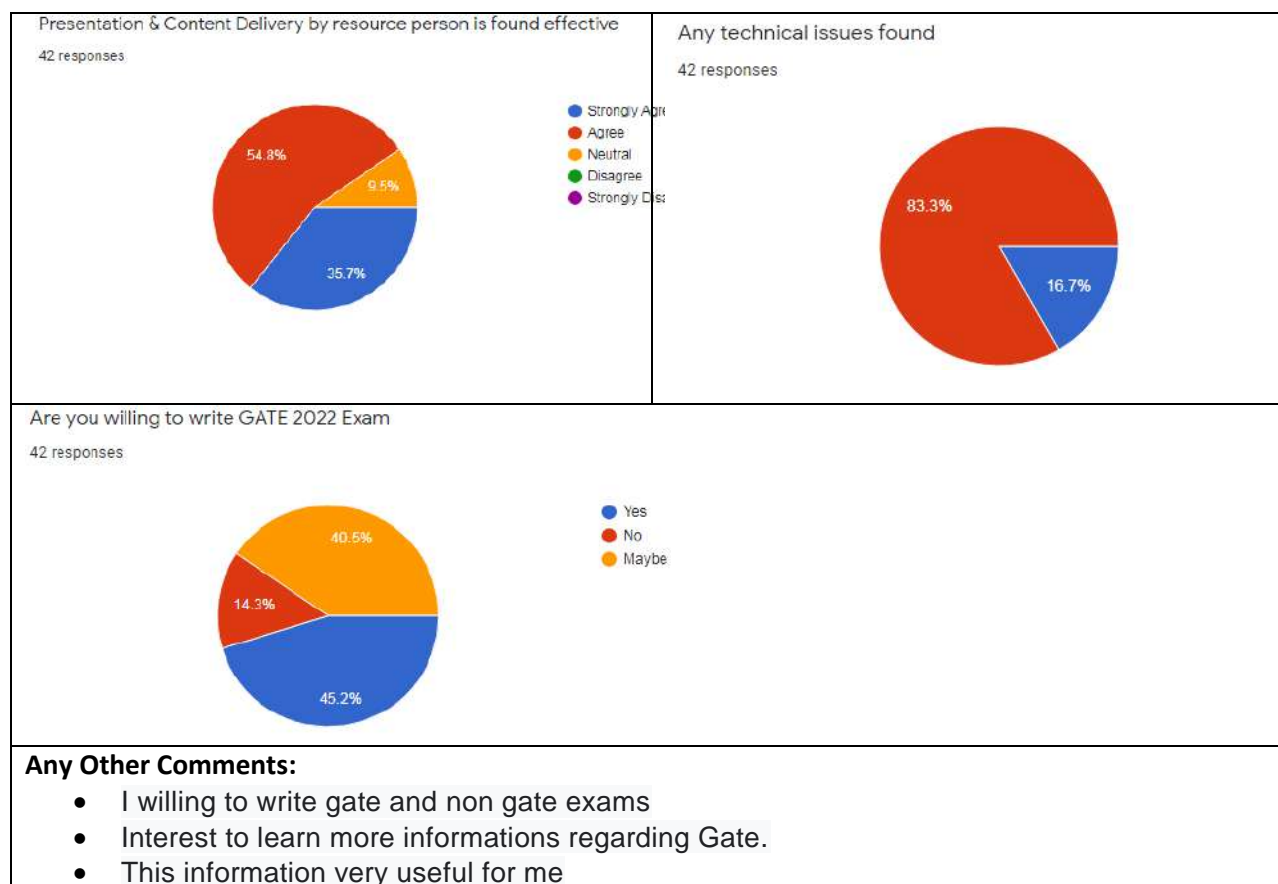
ORIENTATION PROGRAM FEEDBACK ANALYSIS REPORT

TITLE: GATE Awareness program
Total No of Students Attended: 42

Year/Sem: III /V

DATE:18.8.21





Co-ordinator
(Ms.S.Puvaneswari AP / CSE)

HOD/CSE

Principal



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 ODD SEMESTER

INTERNAL STAFF SEMINAR REPORT

Department of Computer Science & Engineering and students branch of IEEE jointly organized an internal staff seminar on 15.09.2021 at CSE Lab – I.

OBJECTIVE

The objective of the seminar is to enhance the technical skills of faculties and get them aligned with the current requirements of IT industry.

SESSION DETAILS

Ms.S.Puvaneswari AP/CSE handled the session in the topic of “IoT application using Tinkercad.Com”. She described the procedure to create a workspace in that website. Tinkercad.com is a freeware website which is used to provide a platform to develop an IoT project. It allows the user to create 3D designs, new circuit designs. It consists of various components and simulates the functionalities of real sensors such as vibration sensor, thermal sensor and so on. To develop an IoT project, the website offers two kinds of coding Methods. First method contains the blocks. The blocks will be placed where it is required and executed when the project is started. Second type of coding follows the c++ syntax. It contains setup function and loop function. Based on the requirement, the number of functions varied. The resource person demonstrated three projects such as,

- Glowing an LED bulb
- Glowing an LED bulb using Arduino kit
- Displaying the meter reading using vibration sensor.

OUTCOME OF THE EVENT

- Got an idea about IoT projects
- Acquired skills to develop IoT projects using Tinkercad.com

- Understand the functionalities of each components and circuit designs
- Assist the students to develop project in this domain
- Acquired knowledge about Tinkercad.com

SAMPLE PHOTOS:



Internal seminar session snapshot



Co-ordinator
(Ms.S.Puvaneswari AP / CSE)

HOD/CSE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2021 - 2022 / ODD SEMESTER

NATIONAL LEVEL TECHNICAL E-SYMPOSIUM - CISABZ'21

The Department of Computer Science & Engineering & IEEE Students Chapter jointly organized a National Level Technical E-Symposium **on 24th September 2021**. Due to Covid-19 pandemic situation, the symposium was conducted in online mode.

SCOPE OF THE EVENT

The scope of this event works as a medium to channelize the abundant energy in the right direction and help students to discover, showcase their talents in varied activities and learn new skills.

PREWORK

Dr.S.M.Uma HOD / CSE assigned Ms.S.Puvaneswari as symposium coordinator. She has got the approval from Principal and Secretary to organize the symposium in online mode. After getting the approval, list of works identified and committee list and their responsibilities were prepared and circulated to staff members. Poster was designed and got approval from the HOD and the Principal. After getting the approval, poster and registration form (google form) were circulated to various engineering colleges through Whatsapp and mail.

We have received 28 papers from various engineering colleges in various domains. The papers were sent to the technical committee of our department and the originality of the paper was verified. 16 papers were scrutinized and intimated to the authors through mail. The authors were requested to submit camera ready copy of a paper to prepare the proceedings. The proceeding works were carried out by Mr.S.Rajarajan AP/CSE.

We had sent requisition mail to Dr.P.Arockia Mary Asso.Prof/ IT, V.S.B Engineering College, Karur, to deliver keynote address on our symposium. She readily accepted our invitation and acknowledged to deliver keynote address on “Deep Learning”. She has 14 years of teaching experience and guided many UG & PG projects in this domain.

ON THE DAY OF SYMPOSIUM (24.09.2021)

The symposium was conducted through online mode. Principal, Symposium Coordinator, Convener, Chief Guest and staff members joined through google meet link (<http://meet.google.com/csv-ztdm-qwa>). The inaugural function was streamed through our college Youtube channel (Kings College Of Engineering).

The inaugural function was started at 10.00 am. Ms.J.Gayathri from IV CSE welcomed the gathering. The function was begun with "Kadavul Vazhthu" sung by Ms.Sneha, IV CSE. Dr.S.M.Uma HOD/CSE delivered the welcome address. Dr.S.M.Uma HOD / CSE welcomed the Principal, Secretary, Chief Guest , Staff members and participants from various engineering colleges. Dr.J.Arputha Vijaya Selvi, Principal has given the inaugural address and also insisted the participants to make this symposium effectively. Ms.S.Puvaneswari AP/CSE, Symposium Coordinator introduced the Chief Guest to audience. Dr.P.Arockiya Mary Asso.Prof /IT, V.S.B Engineering College, Karur,delivered the Keynote address in the topic of "Deep Learning". She illustrated the difference between Artificial Intelligence, Machine Learning and Deep Learning. She explained the basics of deep learning concepts and also described how Deep Learning is used in various industries. She concluded her keynote address by listing various types of software that supports smart environment.

At the end of inaugural function, Ms.T.R.Dharshini from IV CSE, thanked the management, Secretary, Principal, Vice Principal, Chief Guest, HOD, staff members and participants.

Code cracking event was started at 11.00 am. Ms.G.Chandrapraba AP / CSE was coordinator of this event. The questions were prepared by student representatives and google form was prepared and shared through corresponding whatsapp group. Duration was 20 minutes. Winners were selected based on the answers and response time.

The technical session was started at 11.30 am. The schedule was circulated to the participants through whatsapp., Mr.S.Rajarajan, Ms.R.Suganthalakshmi, Ms.B.Sangeetha and Mr.M.Arun from CSE acted as a Juries. The participants joined their corresponding jury member's google meet link. The Jury members had the evaluation sheet which contains the paper id, team members, college name and the evaluation criteria. The evaluation based on the presentation, concept and implementation and the answers given to the queries. Each

team had 20 minutes (presentation – 15 minutes & query – 5 minutes) to present their papers. After the session, the evaluation sheet was collected from the juries.

Technical Quiz event was started 2.00 pm. Ms.B.Sangeetha was the event coordinator. The questions were selected by student representatives and google form was prepared and shared through corresponding whatsapp group. Duration was 30 minutes. Winners were selected based on the answers and response time. After the completion of the event, based on the score, certificate was sent to the participants.

Photography Event was conducted two days before commencement of the Symposium. Mr.M.Arun AP / CSE, was the coordinator of this event. Guidelines were shared through whatsapp group. Participants sent their photograph to CISABZ'21 instagram pages. Based on the number of likes, winner was selected and certificate was issued.

POSTWORK OF THE EVENT

The participants were asked to submit the feedback about the event. Certificates were distributed to the participants based on their active participation in the symposium.

ANNEXURE – I

SYMPOSIUM POSTER

Arun. Kce
Today, 7:58 am

KINGS
COLLEGE OF ENGINEERING
Approved by AICTE New Delhi & Affiliated to Anna University Chennai
NAAC Accredited & ISO Certified Institution
Recognized Under 2(F) & 12(B) of UGC
Punalakulam, Gandarvakkottai Taluk, Pudukkottai Dt. - 613303
Tamilnadu, India. www.kingsengg.edu.in

21st Year of Academic Excellence
KINGS ENGINEERING

IEEE
CHARTERED

National Level Technical Symposium
Organized by
Department of Computer Science and Engineering

WIN PRIZES

Paper Presentation Topics

- * Big Data / Data Mining
- * Artificial Intelligence
- * IoT
- * Cyber Security
- * Android
- * Cloud Computing
- * Any Emerging trends in IT

CISABZ'21
on 24th September-2021

Events

- Paper Presentation
- Code Cracking
- Technical Quiz
- Photography

Last Date for Paper Submission: 20.09.2021
Last Date for Registration: 18.09.2021
Date of Intimation: 21.09.2021

Registration Link: <https://tinyurl.com/CISABZ21>

Send your Papers to: cisabz2021@gmail.com

CONTACT US

Staff Coordinator : 99438 96178
Student Coordinators : 97885 12640
97917 22966

Student Coordinators: Mr.E.Harisharan, r.cse
Mr.J.Gayathri, r.cse

Staff Coordinator: Mrs.S.Pavaneswari
AP/CSE

Convener: Dr.S.M.Uma
HOD/CSE

Patron: Dr.J.Arputha Vijaya Selvi
Principal

<https://tinyurl.com/CISABZ21>

REPLY

ANNEXURE – II

INVITATION

The Management, Principal, Staff & Students of
Kings College of Engineering

Cordially Invite you to the

National Level Technical Symposium
on

CISABZ'21

Date: 24-SEP-2021 | Day: Friday
Time: 10.00 a.m(IST)

organized by

Department of Computer Science and Engineering

21 Years of Academic Excellence
SEEK*STRIVE*SUCCEED

Kings College of Engineering Punalkulam

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NAAC Accredited & ISO Certified Institution
Recognized Under 2(F) & 12 (B) of UGC
Near Thanjavur, Punalkulam.
www.kingsengg.edu.in

CISABZ'21
Resource Person for Invited Talk

24-Sep- 2021 - Friday



Dr. P. Arokia Mary
Associate Professor / IT,
V. S. B. Engineering College,
Karur.



!!!...Welcome You All...!!!

<https://www.facebook.com/KingsCollegeofEngineering/>

ANNEXURE – III

REGISTRATION FORM

National Level Technical Symposium
Organized by
Department of Computer Science and Engineering

CISABZ'21
on 24th September-2021

Topics:
Paper Presentation, Code Cracking, Technical Quiz, Photography

Topics:
• Big Data / Data Mining
• Artificial Intelligence
• IoT
• Cyber Security
• Cloud Computing
• Any Emerging trends in IT

Registration Fee: ₹1000/- (Includes Lunch & Transport)

Registration Link: https://forms.gle/180u9nNF_MN8GW0Bf4T6CpJF2PqHk0tb9IC2yrc8s/edit

Contact us:
Staff Coordinator: 99435 194178
Student Coordinator: 99855 12450
99817 22465

Send your Registration ID to: reg@kings21@gmail.com

Registration ID: _____

College Name: _____

Print 4 sheets of paper

Destination: Microsoft XPS Document

Pages: All

Layout: Portrait

Color: Color

More settings

Print **Cancel**

ANNEXURE - IV

PARTICIPANTS DETAILS – COLLEGEWISE SUMMARY

S.NO	COLLEGE NAME	PARTICIPANTS COUNT
1.	Agni College of Technology	5
2.	Anjalai Ammal Mahalingam Engineering College	1
3.	Bon Secours College For Women	1
4.	Care College Of Engineering,Trichy	2
5.	Jansons Institute Of Technology	1
6.	Kings College Of Engineering	13
7.	Kongu Engineering College	5
8.	Magadh University,Bodh Gaya,Bihar,India	4
9.	Prist Deemed To Be University	1
10.	Sadakthulla Appa Collage	3
11.	Senguntha College Of Engineering	5
12.	St Josephs Institute Of Technology	18
13.	Sri Manakula Vinayagar Engineering College	3
14.	St. Joseph's College , Trichy	6
TOTAL REGISTRATION		68

Paper Presentation - Summary

S.NO	COLLEGE NAME	BATCH COUNT	STUDENTS COUNT
1.	Agni College of Technology	2	5
2.	Care College of Engineering	1	1
3.	Magadh University	1	1
4.	St.Joseph College of Engineering, Chennai	1	1
5.	Kings College of Engineering, Pudukkottai	1	1
6.	St.Joseph Institute of Technology, Chennai	1	1
7.	Kongu Engineering College	2	3
8.	PRIST University, Thanjavur	1	1
9.	Sengunthar College of Engineering	1	2
10.	Sri Manakula vinayagar Engineering College	4	4
11.	Sri Sairam Institute of Technology	1	2
TOTAL		16	22

PAPER PRESENTATION EVENT

DATE: 24-09-2021

VENUE: GOOGLE MEET

BATCH NO.	PARTICIPANT NAME	COLLEGE NAME	TIMING	JURY
1	A.C. ARUNOTHAYA	KINGS COLLEGE OF ENGINEERING	11.45 A.M. – 11.55 PM	Mr.S. RAJARAJAN AP/CSE LINK: https://meet.google.com/pda-aoep-mqm
2	S. RHAXMA	CARE COLLEGE OF ENGINEERING	12.00 PM – 12.10 PM	
3	PIYUSH RAJA	MAGADH UNIVERSITY	12.15 PM – 12.25 PM	
4	M. ANISA BANU	ST. JOSEPH'S COLLEGE	12.30 PM – 12.40 PM	
5	B. SIVA SRI	ST. JOSEPH'S INSTITUTE OF TECHNOLOGY	11.45 AM – 11.55 PM	Mr.M. ARUN AP/CSE
6	T. DHARSHINI C. BUJASRI	KONGU ENGINEERING COLLEGE	12.00 PM – 12.10 PM	
7	S. PRAVEEN J. PRIYADHARSHINI	SENGUNTHAR COLLEGE OF ENGINEERING	12.15 PM – 12.25 PM	LINK: https://meet.google.com/hau-upuq-gfe
8	R. NAVEEN	PRIST DEEMED TO BE UNIVERSITY	12.30 PM – 12.40 PM	
9	B. PRADEEP KUMAR G. SARAN	KONGU ENGINEERING COLLEGE	11.45 AM – 11.55 PM	Mrs.S. PUVANESWARI AP/CSE LINK: https://meet.google.com/ibi-fdwh-hkp
10	A. HARI GUPTHA	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE	12.00 PM – 12.10 PM	
11	A.V. AISWARYA	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE	12.15 PM – 12.25 PM	
12	C. GHAYATRI	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE	12.30 PM – 12.40 PM	
13	V. MOHITA	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE	11.45 AM – 11.55 PM	Mrs.R. SUGANTHA LAKSHMI AP/CSE
14	M. SANTHOSH RAJ L. VAISHNAVI	AGNI COLLEGE OF TECHNOLOGY	12.00 PM – 12.10 PM	
15	K. SARASWATHI R. SHERYL CATHERINE	AGNI COLLEGE OF TECHNOLOGY	12.15 PM – 12.25 PM	
16	B. SATHYA PRIYA L. SANDHYA E.R. ROSHMA EUGIN	SRI SAI RAM INSTITUTE OF TECHNOLOGY	12.30 PM – 12.40 PM	LINK: http://meet.google.com/nep-owvq-qww

ANNEXURE - V

NATIONAL LEVEL TECHNICAL E- SYMPOSIUM

AGENDA

DATE: 24-09-2021

TIME: 10.00 AM





10.00 AM	PRAAYER SONG	S. SNEKA/IV CSE
10.05 AM	WELCOME ADDRESS	Dr. S.M. UMA, HOD/CSE
10.10 AM	INAUGRAL ADDRESS	Dr. J. ARPUTHA VIJAYA SELVI, PRINCIPAL
10.15 AM	INTRODUCTION TO CHIEF GUEST	Mrs. S. PUVANESWARI, AP/CSE
10.20 AM	KEYNOTE ADDRESS	Dr.P. AROCKIA MARY, ASSOCIATE PROFESSOR/IT, V.S.B ENGINEERING COLLEGE, KARUR
11.00 AM	VOTE OF THANKS	Ms.T.R.Dharshini IV CSE

ANNEXURE – VI


YOUTUBE LINK

4G LTE | VOLTE 12:09 pm 85%


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    ALL

Kings Coll... TALK EASY Brown pe... Mangal ku...

 **Webinar on Introduction to Composite Materials** ⋮

Kings College of Engineering Punalkulam · 325 views · Streamed 1 week ago

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The Management, Principal, Staff & Students of Kings College of Engineering

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National Level Technical Symposium ON

CISABZ'21

Date: 24-SEP-2021 | Day: Friday
Time: 10.00 a.m(IST)


organized by
Department of Computer Science and Engineering


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CISABZ'21
Resource Person for Invited Talk

24-Sep-2021 - Friday


 **Dr. P. Arakia Mary**
Associate Professor / T.T.
V. S. B. Engineering College,
Kannur




!!!...Welcome You All...!!!

43:05

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ANNEXURE – VII

SAMPLE CERTIFICATE



SYMPOSIUM COORDINATOR

(Mr.S.Puvaneswari)

HOD/CSE

PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 ODD SEMESTER

IEEE STUDENTS BRANCH STB 16621-DECEMBER, 2021

INTERNAL STAFF SEMINAR REPORT

Department of Computer Science & Engineering and students branch of IEEE jointly organized an internal staff seminar on 30.12.2021 at Smart Classroom (Room No.223).

OBJECTIVE

The objective of this seminar is to understand the performance of cuckoo search algorithms as energy saving mechanism in Wireless Sensor Networks.

SESSION DETAILS

Title: Energy Efficient Routing in WSNs Based on Dynamic Cuckoo Search Algorithm

Internal seminar for faculty of Computer Science Engineering department was conducted on 30.12.2021 from 3.15 P.M to 3.45 P.M in Smart Class room. Dr.D.Sivakumar, AP/CSE delivered the lecture on the topic “Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo Search optimization algorithm for wireless sensor networks”. He explained how the cuckoo behaved in real time likewise the cluster head will be chosen. The node which has the high energy becomes the cluster head. To choose the node as cluster head, various parameters will be considered.

OUTCOME OF THE EVENT

- Got an idea about Cuckoo Search algorithm
- Understand the basics of WSN
- Assist the students to develop project in this domain
- Acquired knowledge about energy saving mechanism

REFERENCE:

- Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo Search optimization algorithm for wireless sensor networks, Nitin Mittal, Simarandeep sign, Urvinder Singh, Rohit Salgotra, Wireless Networks, January 2021, Pg No:151 - 174,



Dr.D.Sivakumar delivered the lecture

Co-ordinator

HOD/CSE

Principal



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 ODD SEMESTER

IEEE STUDENTS BRANCH STB 16621-JANUARY, 2022

INTERNAL STAFF SEMINAR REPORT

Department of Computer Science & Engineering and students branch of IEEE jointly organized an internal staff seminar on 31.1.2022 at Smart Classroom (Room No.223).

OBJECTIVE

The objective of this seminar is to gain insight knowledge about different fields of application of Healthcare IoT(HIoT).

SESSION DETAILS

Title: IoT based application in Healthcare devices

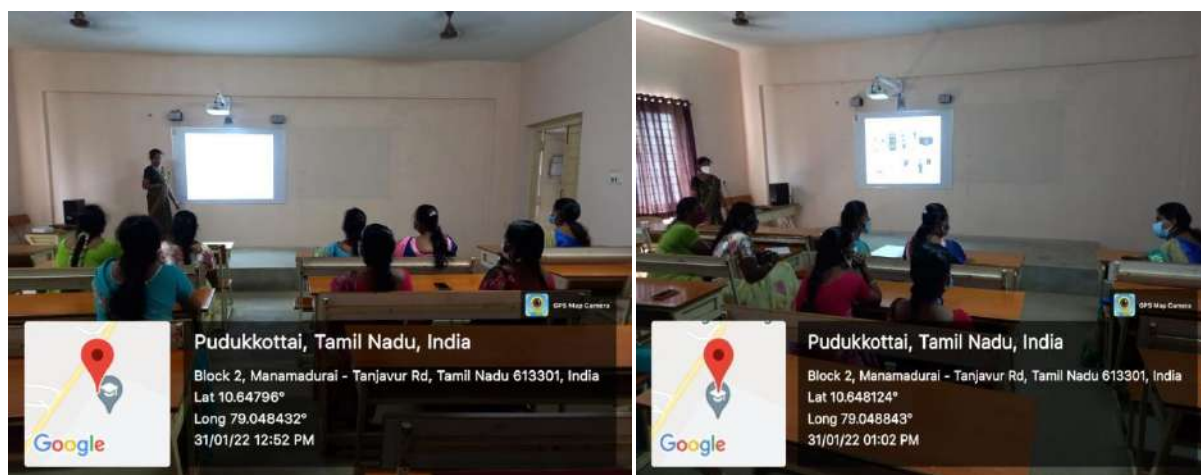
Internal seminar for faculty of Computer Science Engineering department was conducted on 31.1.2022 from 12.30 P.M to 1.15 P.M in Smart Class room. Ms.R.Shanthi, AP/CSE delivered the lecture on the topic “IoT based application in Healthcare devices”. She explained the architecture of HIoT and technologies involved in HIoT. She described the services and the applications of HIoT. She concluded the seminar with challenges and issues in HIoT Technologies to provide smart healthcare application in upcoming years.

OUTCOME OF THE EVENT

- Got an idea about HIoT Technology
- Understand the architecture of HIoT
- Assist the students to develop project in this domain
- Assist the faculty members to do their research in this domain

REFERENCE:

- [1] Z. Ali, M. S. Hossain, G. Muhammad, and A. K. Sangaiah, "An intelligent healthcare system for detection and classification to discriminate vocal fold disorders," *Future Generation Computer Systems*, vol. 85, pp. 19–28, 2018.
- [2] G. Yang, L. Xie, M. Mantysalo et al., "A health-IoT platform based on the integration of intelligent packaging, unobtrusive bio-sensor, and intelligent medicine box," *IEEE Transactions on Industrial Informatics*, vol. 10, no. 4, pp. 2180–2191, 2014.
- [3] Y. Yan, "A home-based health information acquisition system," *Health Information Science and Systems*, vol. 1, p. 12, 2013.
- [4] M. Khan, K. Han, and S. Karthik, "Designing smart control systems based on internet of things and big data analytics," *Wireless Personal Communications*, vol. 99, no. 4, pp. 1683–1697, 2018.



Ms.R.Shanthi AP/CSE described the concepts of HIoT



Faculty members listen the seminar

Co-ordinator

HOD/CSE

Principal



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2020 – 2021 EVEN SEMESTER

BRIDGE COURSE on "Basic Linux Commands"

The Department of Computer Science & Engineering organized a bridge course for II Year (Batch: 2020 -2024) students on 7.3.2022.

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the students knowledge, Basic Linux commands taken as bridge course for the second year students.

COURSE MAPPING

In regulation 2017 syllabus, operating system subject and OS lab are found in fourth semester. Operating system lab deals with basic OS concepts which will be implemented in Linux environment. To understand the working environment of Linux, basic Linux commands should be known to the students. Thus the “Basic Linux commands” was taken as bridge course for II year students.

SESSION DETAILS

Ms.K.Abhirami, AP/CSE, handled the session for II year students. She discussed about various types of Operating System such as Windows, Ubuntu, Redhat Linux, Opera. She also differentiated the open software with the proprietary software. She described the process of installing an Linux based OS and its environment. She demonstrated the usage of each command and the output was shown to students. Hands on training also provided to the students. Totally 60 students attended the session. Student have got the difference between IDE based software and Linux based commands.

OUTCOME OF THE EVENT

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

- Understand the functions of Linux Commands
- understand the lab programs easily

- understand the concepts of OS



Ms.K.Abhirami AP/CSE explained the functionality of Linux Commands



Hands on Session: Students executed the commands and doubts were clarified.

Bridge Course Coordinator
(Ms.S.Puvaneswari AP/CSE)

HOD/CSE

PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 EVEN SEMESTER

ORIENTATION REPORT ON "MINI PROJECT"

The Department of Computer Science & Engineering organized a orientation program for III Year (Batch: 2019 -2023) students on 9.03.2022.

OBJECTIVE

The objective of the program is to create exposure about problem identification, various application domain, mini project ideas and phases of mini project development.

SESSION DETAILS

Ms.R.Suganthalakshmi, AP/CSE, handled the session. She described the nature of projects such as product oriented or research oriented. She explained the importance of mini project, because it may helpful to get exposure and experience of what real world problems are. She insisted the students to develop innovative projects or try to provide a solution to real world problems by using current technology. She outlined the entire process of a project development. Totally 40 students were attended and got benefited.

OUTCOME OF THE EVENT

At the end of session, the students should be able to,

- know the phases of project development life cycle
- realize the significance of mini project
- understand the various domains of Computer Science & Engineering
- have an idea to do the project in an effective manner
- find out the solution to real world problems



Ms.R.Suganthalakshmi AP/CSE explained the phases of project development life cycle

Bridge Course Coordinator
(Ms.S.Puvaneswari AP/CSE)

HOD/CSE

PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ACADEMIC YEAR 2021 – 2022 EVEN SEMESTER
BRIDGE COURSE REPORT on "Introduction to Android Studio"

The Department of Computer Science & Engineering organized a bridge course for III Year (Batch: 2019 -2023) students on 9.3.2022.

OBJECTIVE

The objective of the course is to bridge the gap between students understanding and their knowledge. To equip the students knowledge, "Introduction to Android Studio" was taken as a bridge course for the third year students.

COURSE MAPPING

In regulation 2017 syllabus, mobile application development lab is in sixth semester. The students did not have any background knowledge on mobile application development software. To understand the mobile application development environment, Android Studio software is used. To get familiarize, Introduction to Android studio chosen as bridge course for III Year.

SESSION DETAILS

Ms.R.Santhanalakshmi and Mr.K.Arjun Software Developer from InfoSystems, Thanjavur handled the session. She explained procedure to get into the software and basic features of "Android Studio". They described about how to create a new project, functionalities of each component and also described about the Kotlin coding of a project. They demonstrated project with various components accommodated. Totally 45 students were attended the session

OUTCOME OF THE EVENT

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

- Understand about Android studio
- Have an idea about Kotlin language.
- Develop a mini project in this platform

Bridge Course Coordinator
(Ms.S.Puvaneswari AP/CSE)

HOD/CSE

PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 – 2022 EVEN SEMESTER

ORIENTATION REPORT ON "Online Certification Courses"

The Department of Computer Science & Engineering organized a orientation program for II Year (Batch 2020 - 2024) & III Year (Batch: 2019 -2023) students on 9.03.2022.

OBJECTIVE

The objective of the program is to create exposure about what are the courses available and validity of that course and its provider, outcome of this online course.

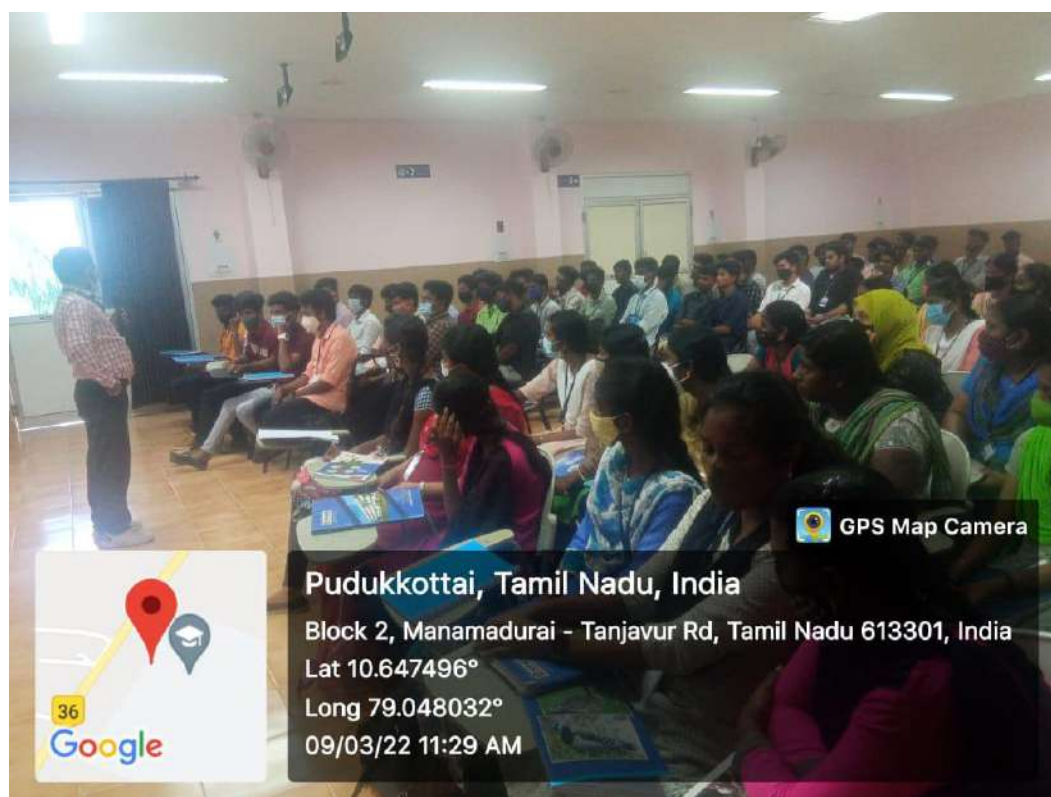
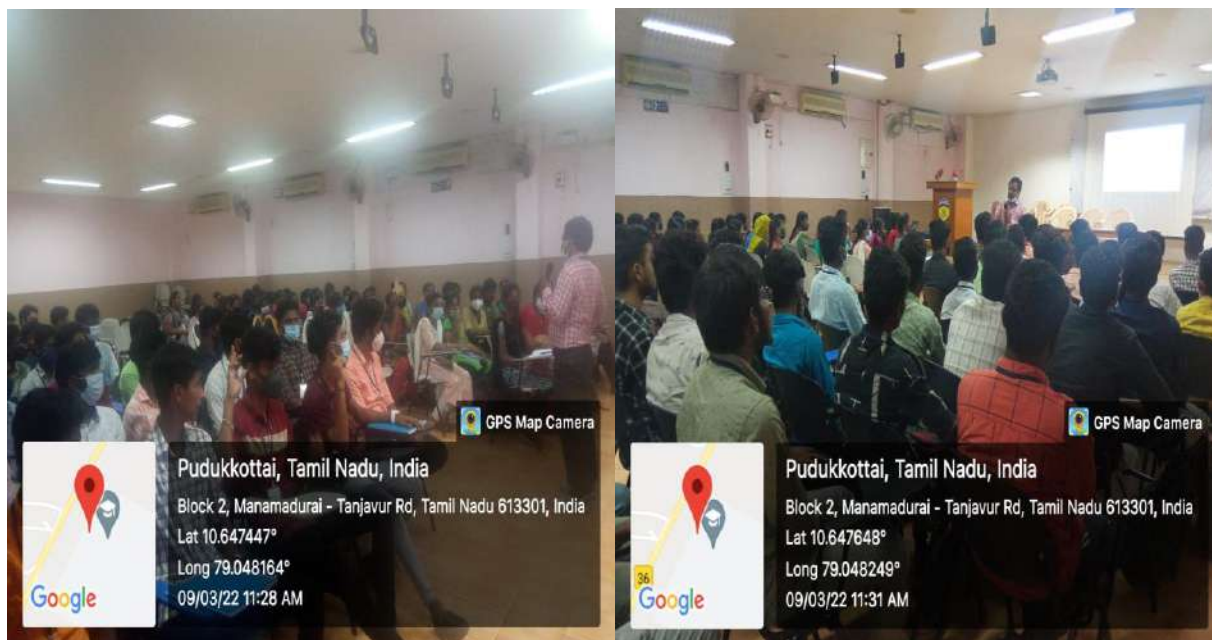
SESSION DETAILS

Mr.S.Rajarajan, AP/CSE, handled the session. He has completed many online courses from NPTEL. He began the session by introduction of Online learning and stated that what are the courses relevant to Computer Science & Engineering and current trending courses like Artificial Intelligence, Data Analytics, Data Sciences, Cloud Computing and so on. He showed the various online learning platforms available. He insisted the importance of these certification which will be helpful to attain an employment and also save time. Online learning may enhance the students technical skill and empower their knowledge and satisfy the needs of IT Industry. Finally he ended the session by showing his online certificates which motivate the students to do more online courses and utilize their time effectively. Totally 103 students were attended and got benefited.

OUTCOME OF THE EVENT

At the end of session, the students should be able to,

- know about various online learning platforms and courses
- understand the current requirements of IT industry
- have an idea to register online certification courses



Mr.S.Rajarajan AP/CSE explained about online certification courses

Bridge Course Coordinator
(Ms.S.Puvaneswari AP/CSE)

HOD/CSE

PRINCIPAL



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2021 - 2022 EVEN SEMESTER

Online Workshop on "BASICS OF DATA SCIENCE WITH R PROGRAMMING" on 19.05.2022

Department of Computer Science & Engineering organized an online workshop on "BASICS OF DATA SCIENCE WITH R PROGRAMMING" on 19.05.2022

OBJECTIVE

The objective of the workshop is to enhance the technical skills to the students and get them aligned with the current requirements of IT industry.

RESOURCE PERSON DETAILS

Dr.G.KUMARAVELAN,
Associate Professor,
Department of Computer Science,
School of Engineering and Technology,
Pondicherry University,Puducherry.

SESSION DETAILS

- Dr.G.Kumaravelan, Asso.Prof/CSE handled the session in the topic of “Basics of data science with R programming”. He explained the basic concepts of Fundamental knowledge about data science, applications of data science, big data, data mining and role of data scientist.
- He also explained R is one of the most preferred open-source languages for analytics and data science. The cross-platform compatibility of R and its capacity to handle large and complex data sets makes it an ideal tool for academicians to analyze data in their labs.
- The session involving demonstration along with side-by-side learning. At the end of the workshop, there will be a discussion between the participants and resource person to clarify all doubts related to the material taught.
- Totally 118 participants registered and actively participated in this workshop. The event was co-ordinated by Mr. Rajarajan , Ms.R.Shanthi AP/CSE and Ms.D.R. Saranya

AP/ CSE under the guidance of our Head of the Department Dr.S.M.Uma & by the support of our Principal Dr.J.Arputha Vijaya Selvi and the management.

ANNEXURE - I

POSTER

21 Year of Academic Excellence
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Department of Computer Science and Engineering
is Organizing

A One Day Workshop on
"Basics of Data Science with R Programming"

Date: 19- May- 2022
.....
Thursday
.....
Time: 10.00 a.m


Registration Link:
<https://tinyurl.com/Rworkshop-01>

For Queries, Contact:
Cell: 8675004599, 960099755

Certificate will be provided.
Last date for Registration:
18-05-2022

Registration Fee- UG - Rs. 150
PG - Rs. 200

Resource person


Dr. G.KUMARAVELAN,
Associate Professor,
Department of Computer Science,
School of Engineering and Technology,
Pondicherry University, Puducherry.

Organizing Committee

Mr.S.Rajarajan, AP / CSE
Mrs.R.Shanthi, AP / CSE
Mrs.D.R.Saranya, AP / CSE
Coordinators

Dr.S.M.Uma
Convener

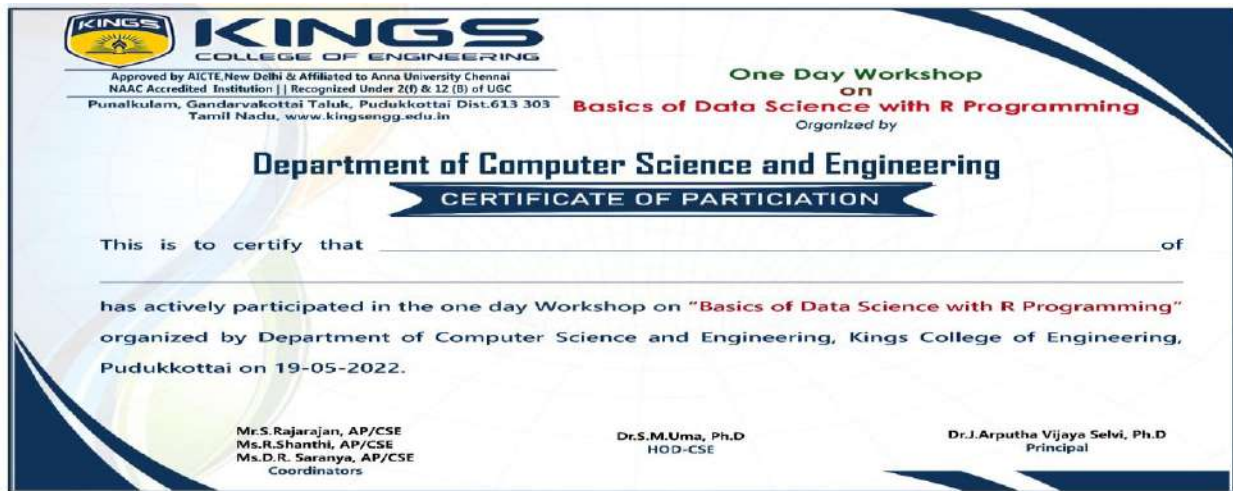
Dr.J.Arputha Vijaya Selvi
Principal

ANNEXURE - II

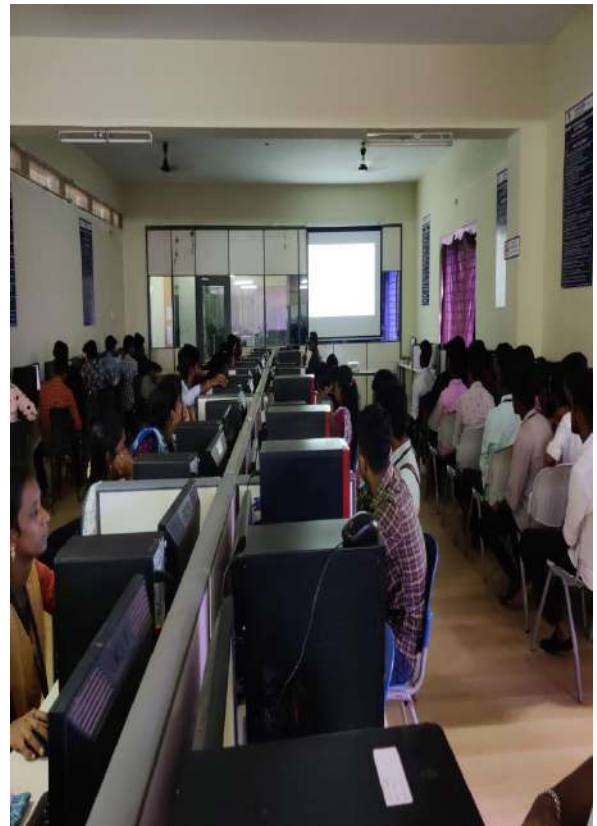
REGISTRATION SUMMARY

College Name	Count
Arasu Engineering College	22
As-Salam College Of Engineering And Technology	10
Kings College of Engineering	73
PRIST University	2
Ponnaiyah Ramajayam Polytechnic College	3
Roever Engineering College	8
Total	118

ANNEXURE - III SAMPLE CERTIFICATE



ANNEXURE - III SAMPLE PHOTOS





OUTCOME OF THE EVENT

After the successful completion of this module, students will be able to:

- Install, Code and Use R Programming Language in R Studio IDE to perform basic tasks on Vectors, Matrices and Data frames.
- Describe key terminologies, concepts and techniques employed in Statistical Analysis.
- Define, Calculate, Implement Probability and Probability Distributions to solve a wide variety of problems.
- Learn to perform data visualization
- Learn how to do basic statistical analysis using R

Co-ordinator
(Mr. S. Rajarajan, AP/ CSE
Ms.R. Shanthi, AP / CSE
Ms. D. R. Saranya, AP/ CSE)

HOD/CSE

Principal



3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

Sl.No	Date	Details	Beneficiaries	Page Number
ECE				
1.	28.08.2021	Webinar on “ Networking”	64	2
2.	15.09.2021	Seminar on Efficient Power Saving Algorithm for WSN	12	7
3.	24.09.2021	National level technical Symposium eBlast-2k21	126	9
4.	29.09.2021	webinar on Introduction and Interfacing of Sensors with Raspberry	74	27
5.	30.10.2021	ISTE Student Chapter (TN217- Mini Project Expo-‘EC2K21’	29	30
6.	24.12.2021	Workshop on “Skill Sets for Electronics Engineers in Core Field”	80	36
7.	21.12.2021	Awareness programme on Energy Conservation on 21st December, 2021	36	49
8.	10.06.2022	National Conference on Communication, Networking and Intelligence (NCCNI'22)	60	51
9.	22.04.2022	Seminar on IoT in Healthcare Applications using Wireless Sensor Networks	15	59
10.	09.05.2022	Expert talk on “Evaluation of Electric Vehicles, Future Challenges & Opportunities”	167	61

Webinar
REPORT
on
NETWORKING
Organized By

IEI (ECE) Students Chapter and Alumni Association

Held on

28/08/2021

Co-ordinators

Mr.T.Jeyaseelan AP/ECE

Mr.P.Raja Pirian AP/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING PUNALKULAM

REPORT

A Webinar on **Networking** was organized by **IEI (ECE) Students Chapter** in association with Alumni Association, ECE Dept. on 28-08-2021 between 03.00 p.m. to 04.00 pm, to motivate the students to learn about Computer networking and know the career opportunities in this domain. This program mainly aimed for the ECE students to gain technical knowledge on networking and to get placement on networking domain.

The program was delivered via Google meet application. The Google Meet Link for the program was <https://meet.google.com/myk-osjm-wuu>.

The resource person **Mr.P.Parthipan, Networking Engineer, CSS CORP, Chennai** is an alumni of ECE Department from 2012-16 Batch.

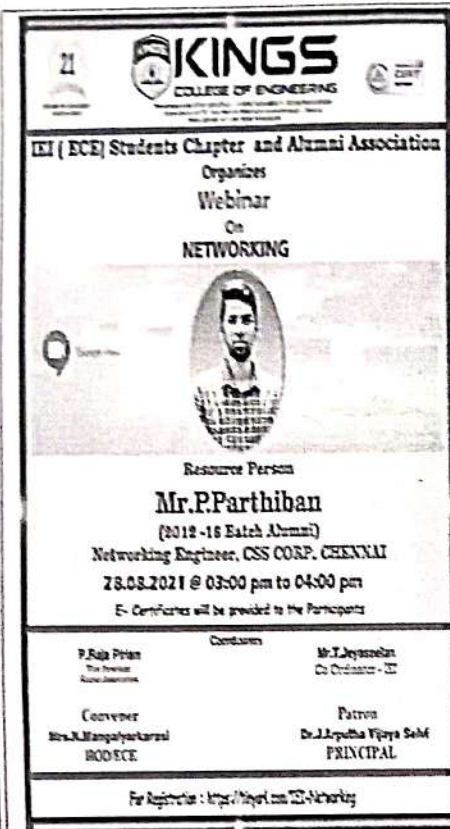
The webinar begins at 03.00 p.m, Mr.P.Raja Pirian AP/ECE, Coordinator, Alumni Association ECE Dept., welcomes the resource person and the gathering, followed by Mr.T.Jeyaseelan, AP/ECE, Coordinator, IEI(ECE) Students Chapter introduced the resource person.

Mr.P.Parthipan, briefed the basic concepts of networking such as LAN, WAN, MAN and Internet. He explains elaborately about IP address, how the IP address is provided in class A, B and C Network. He demonstrated networking protocols using Simulation Software (Cisco Packet Tracer). During the session the resource person presented a video about the IT industry working environment and career opportunities in his company (CSS corp, chennai.)

The students were actively involved in the entire sessions and gained practical knowledge on networking concepts and simulation tools. Finally Mr.T.Jeyaseelan, AP/ECE, Coordinator, IEI(ECE) Students Chapter delivered the vote of thanks.

Totally 64 students from ECE department were participated in the webinar. Feedback on the webinar was collected and also certificates were issued via online.

ANNEXURES



KINGS
COLLEGE OF ENGINEERING

IEI (ECE) Students Chapter and Alumni Association
Organizes
Webinar
On
NETWORKING

Resource Person
Mr. P. Parthiban
(2012-16 Batch Alumni)
Networking Engineer, CSS CORP, CHENNAI
28.08.2021 @ 03:00 pm to 04:00 pm
E- Certificates will be provided to the Participants

Co-ordinators
P. Raja Priya
The President
Kings Engineering
Mr. J. Jayasudhan
Co-Ordinator - IEI

Co-convener
Mrs. M. Mangalyakumari
HOD-ECE

Patron
Dr. J. Arjunan Vijaya Selvi
PRINCIPAL

For Registration : <https://bit.ly/3m2V4n7>

POSTER



2:06 PM EST 08/28/21

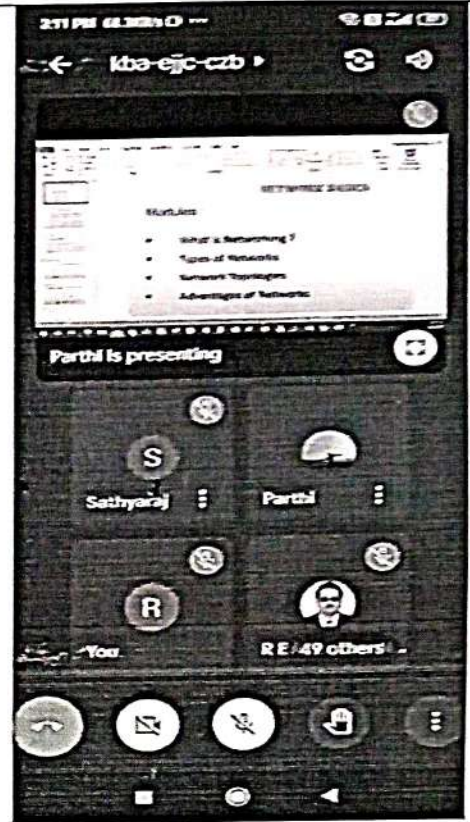
kba-ejlc-czb

Sathyaraj Parthi

R BALAKRISHNAN 39

You 23 44 others

Resource Person Presenting the Webinar



2:11 PM EST 08/28/21

kba-ejlc-czb

Parthi is presenting

Sathyaraj Parthi

R 39

You RE 49 others



2:50 PM EST 08/28/21

kba-ejlc-czb

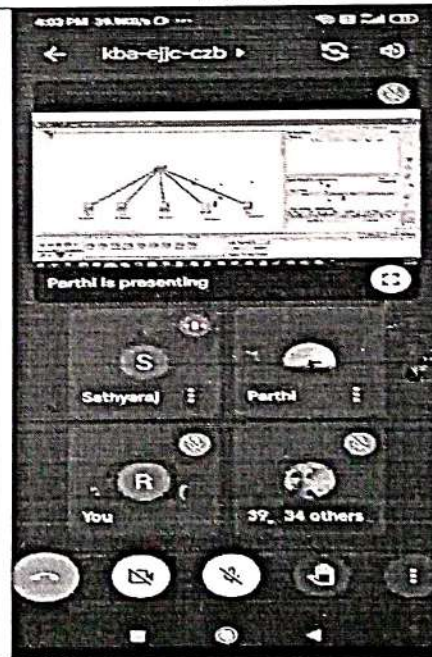
Parthi is presenting

Parthi Sathyaraj

R 39 41 others

You

Resource Person Presenting the Webinar with Demo



3:03 PM EST 08/28/21

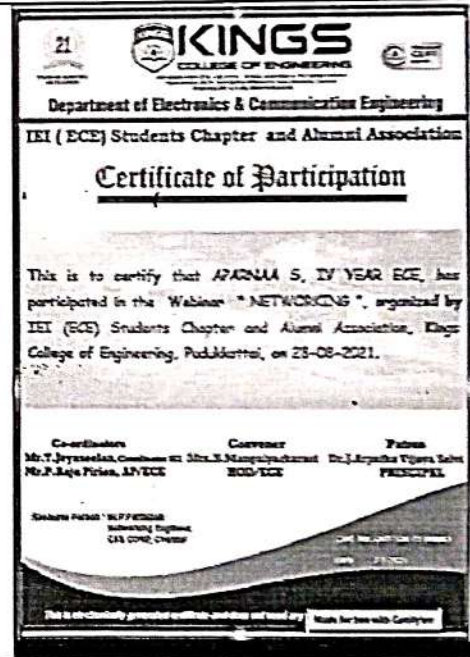
kba-ejlc-czb

Parthi is presenting

Sathyaraj Parthi

R 39 34 others

You



KINGS
COLLEGE OF ENGINEERING

Department of Electronics & Communication Engineering

IEI (ECE) Students Chapter and Alumni Association

Certificate of Participation

This is to certify that **APARNA S, IV YEAR ECE**, has participated in the Webinar "NETWORKING", organized by IEI (ECE) Students Chapter and Alumni Association, Kings College of Engineering, Pudukkottai, on 28-08-2021.

Co-ordinators
Mr. T. Jayasudhan, Co-ordinator - IEI
Mr. P. Raja Priya, HOD-ECE

Co-convener
Mrs. M. Mangalyakumari
HOD-ECE

Patron
Dr. J. Arjunan Vijaya Selvi
PRINCIPAL

Signature of Resource Person: Mr. P. Parthiban
Networking Engineer, CSS CORP, CHENNAI

Date: 28/08/2021

This is electronically generated certificate and valid as per the rules of the organization.

Sample Certificate

List of Participants & Feed Back

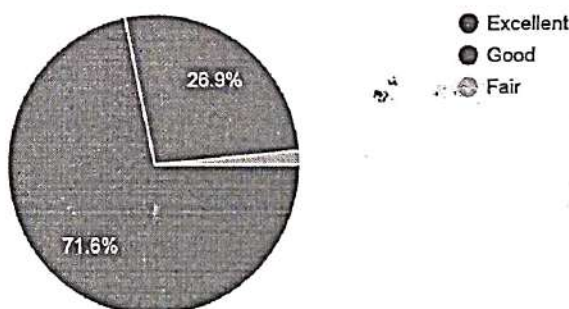
SL. No	Timestamp	Email address	Name of the Student.	Class	Contact No
1	8/28/2021 16:10	anitharaj852001@gmail.com	Ms.J.Anitha	IV year	8072183738
2	8/28/2021 16:10	kawya19102000@gmail.com	MS. A. KAWYA	IV YEAR	9843585667
3	8/28/2021 16:10	jothikaR462002@gmail.com	Ms.R.Jothika	III Year	7538874618
4	8/28/2021 16:10	mahibaby1310@gmail.com	Ms. V. Maheswari	III year	9994301201
5	8/28/2021 16:10	naaga.rv75@gmail.com	Ms.R.Nageswari	IV year	9361670797
6	8/28/2021 16:11	ashaarivu023@gmail.com	Ms.A.Aasha	IV year	8667467969
7	8/28/2021 16:11	pavipandiyan55@gmail.com	Ms.P.Pavithra	III Year	9025172503
8	8/28/2021 16:11	shiyamganesh167@gmail.com	Mr.B.Ganesh	IV Year	7868073511
9	8/28/2021 16:11	aarthimurugesan12@gmail.com	Ms.M.AARTHI	IV YEAR	9361509315
10	8/28/2021 16:11	keerthikamathi1810@gmail.com	Ms.M.Keerthika	IV YEAR	6374794712
11	8/28/2021 16:11	shobigaprabaharan@gmail.com	P. Shobiga	IV YEAR	7339133069
12	8/28/2021 16:12	vishwabharathy2001@gmail.com	Ms.V.Vishwabharathy	IV Year	8903835765
13	8/28/2021 16:12	latchayasri2k@gmail.com	Ms.G.Latchayasri	IV Year	9789465785
14	8/28/2021 16:12	srick 47@gmail.com	SRIMATHI.C	IV year	6385442486
15	8/28/2021 16:12	ramyakumar287@gmail.com	Ms.K.Ramya	IV year	6374299629
16	8/28/2021 16:12	kiruthikasankar1711@gmail.com	B.Kiruthika	IV YEAR	9345786197
17	8/28/2021 16:12	nivetha1808@gmail.com	C.Nivetha	IV YEAR	6382442793
18	8/28/2021 16:12	swethaa1492001@gmail.com	Ms.SM.Swethaa	III year	6381530542
19	8/28/2021 16:12	gangaganga6079@gmail.com	R.Ganga	III- YEAR	6382251071
20	8/28/2021 16:12	pv.vaisu1525@gmail.com	Ms. P. V. Vaishnavi	IV year	7339381617
21	8/28/2021 16:13	keerthikamathi1810@gmail.com	Ms.M.Keerthika	IV YEAR	6374794712
22	8/28/2021 16:13	suriyacsuriyac7@gmail.com	Suriya.c	III year	6381636128
23	8/28/2021 16:13	anurajrajangam@gmail.com	Ms.R.Anuraj	IV Year	6369626061
24	8/28/2021 16:13	kabilanking1017@gmail.com	R.kabilan	3rd	9751971236
25	8/28/2021 16:13	nivethithas02@gmail.com	S.NIVETHITHA	II Year	9787563331
26	8/28/2021 16:13	aparnaasri2000@gmail.com	Ms.S.Aparnaa	IV Year	8300086210
27	8/28/2021 16:13	anizaniz007@gmail.com	Mr.R.k.Aniz	IV year	9597867372
28	8/28/2021 16:13	naaga.rv75@gmail.com	Ms.R.Nageswari	IV year-	9361670797
29	8/28/2021 16:14	mounishrajiah@gmail.com	Mr.D.Mounish rajiah	IV Year	8870713834
30	8/28/2021 16:14	karthika.devi2k@gmail.com	M.Karthika Devi	III Year/	9025057089
31	8/28/2021 16:15	sushmadurai2001@gmail.com	D.Sushma	IV year	9344989812
32	8/28/2021 16:15	kirubasekar433@gmail.com	S. Kirubakaran	3 year	7904215178
33	8/28/2021 16:15	sarikaanbu0205@gmail.com	Ms.A.Sarika	IV year	7824968714
34	8/28/2021 16:17	kabishena1@gmail.com	P.KABISHENA	II year,	827815451
35	8/28/2021 16:18	vinothamg25@gmail.com	M. VINOTHA	IV	9159829285
36	8/28/2021 16:29	sarikaanbu0205@gmail.com	Ms.A.Sarika	IV year	7824968714
37	8/28/2021 16:30	gayathraviga2065@gmail.com	Ms.K.Gayathri	III year	9092666974
38	8/28/2021 16:34	Prakashanbuvelan002@gmail.com	Mr.A.Prakash	III- YEAR	9361290618
39	8/28/2021 16:39	blessmanuel307@gmail.com	Mr.J.BLESSON	III Year	6374149407
40	8/28/2021 16:40	nithithanithi@gmail.com	Nithitha. U	III year	9344851162
41	8/28/2021 16:43	thirumurugan9152@gmail.com	THIRUMURUGAN.S	IV YEAR	9025409152
42	8/28/2021 16:43	gprabhu957@gmail.com	Prabhu	IV Year	9.16382E+11
43	8/28/2021 16:47	yashabi74@gmail.com	Mr.S.Abimaneu	IJ Year	9361072799
44	8/28/2021 16:55	63850mathi@gmail.com	Mr.k.Mathivanan	III Year	9345990133
45	8/28/2021 16:57	selvarajdurga813@gmail.com	Durga Devi.s	IV	6384255726
46	8/28/2021 17:00	ruthrakalavathi@gmail.com	R. Ruthra	II year	8610802219

47	8/28/2021 17:02	vinothinigovindharaj33@gmail.com	Ms,G vinothini	IV YEAR	7550336683
48	8/28/2021 17:02	kabishena1@gmail.com	P.KABISHENA	III Year,	8270815451
49	8/28/2021 17:16	gayathrisangkar@gmail.com	Gayathri S	III year	8056833078
50	8/28/2021 17:18	gayathrisangkar@gmail.com	S Gayathri	III year	8056833078
51	8/28/2021 17:25	dharshinic 02@gmail.com	C.Dharshini	III year	9524762229
52	8/28/2021 18:07	soundarya 2019@gmail.com	R. SOUNDHARYA	III YEAR	6383946068
53	8/28/2021 18:08	soundarya 2019@gmail.com	R. Soundharya	III YEAR	6383946068
54	8/28/2021 18:33	vaishnavi589@gmail.com	G.vaishnavi	3 year	7639860920
55	8/28/2021 18:38	jerryjayakumar2000@gmail.com	mr.A.jayakumar	III YEAR	7904790637
56	8/28/2021 18:43	rajaduraimk2000@gmail.com	Mr.R.Rajadurai	IV MECH	6380253278
57	8/28/2021 18:46	naaga.rv75@gmail.com	Ms.R.Nageswari	IVyear-	9361670797
58	8/28/2021 19:32	bharathkumarm492@gmail.com	Ms.K.Ishwarya	III Year	9361665782
59	8/28/2021 20:29	madhumithagovintharasu@gmail.com	G.Madhumitha	III YEAR	9514195360
60	8/28/2021 22:49	waranlogesh928@gmail.com	Mr.P.Logeshwaran	III Year	9344126882
61	8/29/2021 18:32	kalkimurugaiyan@gmail.com	M.Dhivyaa kalki	IV YEAR	9655514731
62	8/29/2021 20:25	agalya821119106002@gmail.com	MS. P. Agalya	II year	9159142164
63	8/29/2021 21:53	agalya821119106002@gmail.com	Agalya. P	III Year	9159142164
64	9/7/2021 12:13	rajapirian@gmail.com	APARNAA S	IV YEAR	9994009225

FEEDBACK

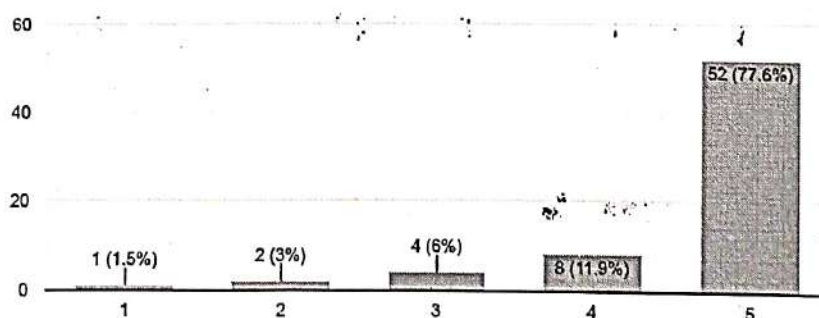
Quality of video presentation?

67 responses



Knowledge of expert

67 responses



PH
30/8/2021
Coordinator

30/8/2021

HOD

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303,

H.O.D.
ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613 303,
GANDARVAKOTTAI TALUK, PUDUKOTTAI DISTRICT



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CERT
ISO 9001

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2021-22(ODD SEM)

IEEE STUDENTS BRANCH STB 16621- September, 2021

INTERNAL STAFF TECHNICAL SEMINAR

Summary of the seminar:

Department of Electronics and Communication Engineering in association with IEEE student branch (16621) organized an Internal Seminar on 15th Sep, 2021 at 01:00PM for the teaching staffs of Department of ECE to provide a platform to get exposure in the field of recent trends in Electronics and Communication Engineering by accessing online journals facility available at our campus. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculties. Mr.S.Ramarajan, Assistant Professor/ECE delivered a talk on "Efficient Power Saving Algorithm for WSN". All the faculties were attended the seminar.

Online Journal Paper Referred: Kanoun O, Bradai S, Khriji S, Bouattour G, El Houssaini D, Ben Ammar M, Naifar S, Bouhamed A, Derbel F, Viehweger C, **Energy aware system design for autonomous Wireless Sensor Nodes: A comprehensive review.** Sensors 2021, 21, 548.

Aim and the themes discussed:

Nowadays, wireless sensor networks are becoming increasingly important in several sectors including industry, transportation, environment and medicine. Autonomous energy supply is thereby an essential aspect as it decides the flexible positioning and easy maintenance, which are decisive for the acceptance of this technology, its wide use and sustainability.

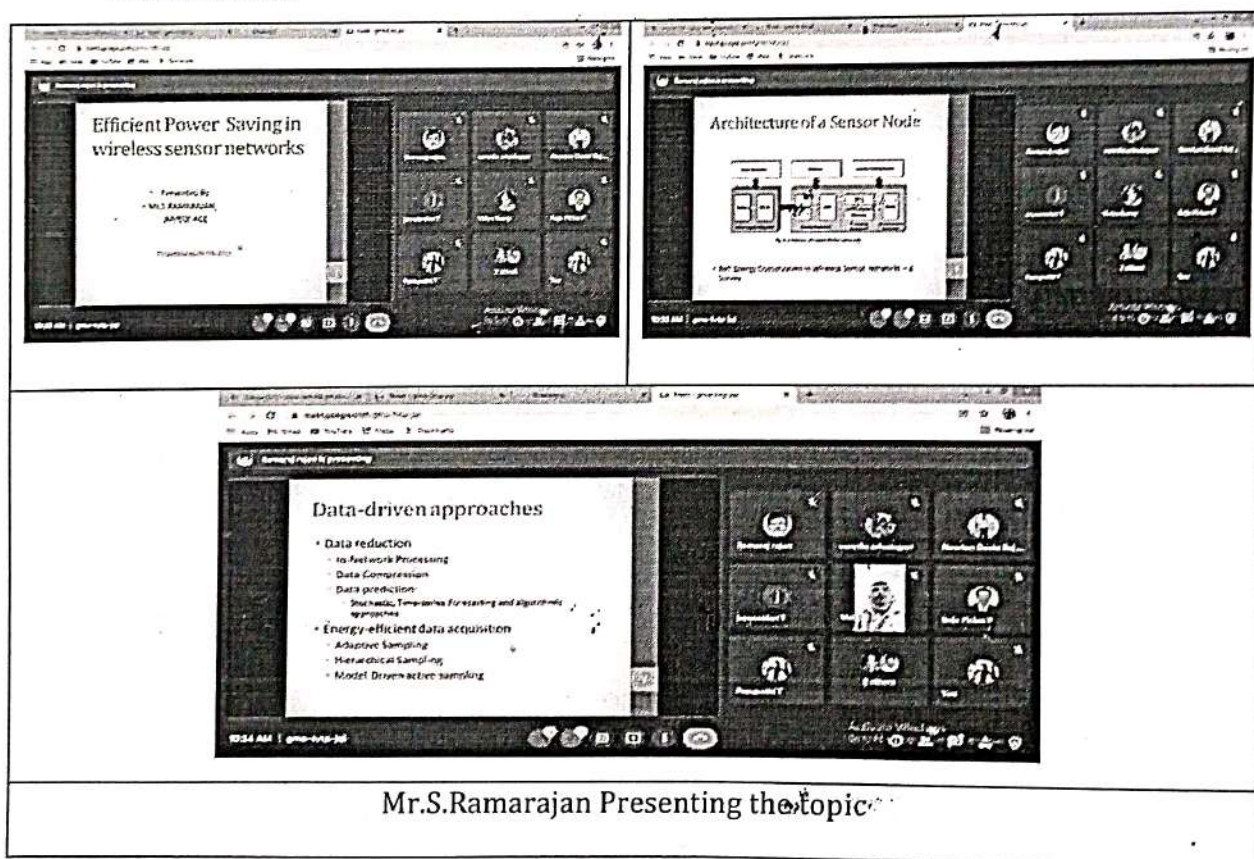
Significant improvements made in the last years have shown interesting possibilities for realizing energy-aware wireless sensor nodes (WSNs) By designing manifold and highly efficient energy converters and reducing energy consumption of hardware, software and communication protocols.

Using only a few of these techniques or focusing on only one aspect is not sufficient to realize practicable and market relevant solutions. This seminar therefore provides a comprehensive

review on system design for battery-free and energy-aware WSN, making use of ambient energy or wireless energy transmission. Also addresses energy supply strategies and gives a deep insight in energy management methods as well as possibilities for energy saving on node and network level.

Outcomes

- The seminar provides deep insight into system design and increase awareness of suitable techniques for realizing battery-free and energy-aware wireless sensor nodes and to introduce the basics of Wireless Sensor Networks (WSN), Classification, Topologies and Applications.
- The seminar briefed the different strategies to reduce the power consumption in WSN based on Clustering Routing Protocol. Finally Mr.S.Ramarajan clarified the questions raised by the faculty members. Mr.T.Pasupathi, AP/ECE, event coordinator delivered vote of thanks.



T. Pasupathi
Staff In charge 6/10/22

S. Ramarajan
06/10/2022
Principal

du 2000002
HOD 6/10/22

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.

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PUNALKULAM - 613 303,
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A REPORT

ON

ONLINE TECHNICAL SYMPOSIUM

“eBLAST- 2k21”.

24th SEPTEMBER 2021



Organized by

Department of Electronics and Communication Engineering

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

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Phone : 04362-282474, 282395 Website : www.kingsindia.net

CONTENTS

SL.NO	PARTICULARS	PAGE NO
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6.	Annexure: V (List of Resource Persons and Profile)	13
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A Glimpse on the Background of the Technical Symposium eBLAST-2k21:

In KCE, Department of Electronics and Communication Engineering, has organized a National level Technical Symposium “eBLAST-2k21” on 24th September 2021.

Our main aim is to enable each one achieve their individual purpose in life, through the guiding light of knowledge. Each one is empowered to pursue dreams and passions in a meaningful and responsible manner. Each one is encouraged to foster professional development through imagination, innovation, specialized knowledge and critical-thinking. Each one is entrusted to become an active participant in transforming society, to go beyond oneself, to respect and to contribute in a pluralistic world. Our institution created such a platform (Tech. Symposium- eBLAST-2k21) where individual/group can participate to share their unique thoughts and to add values in research.

The scope of this symposium is to share individual knowledge/concepts at a common platform, to improve the managerial skills, to establish the team work and to provide solution to technical problems.

Thrust Areas:

- Robotics and Automation
- Artificial Intelligence and Expert system
- Image Processing
- Internet of Things
- Neural Networks
- Wireless Communication system
- Embedded System
- Mobile Computing
- Sensor Networks and Applications
- Nano Technology

OVERVIEW OF THE eBLAST-2k21:

ABOUT THE ORGANIZING COMMITTEE & RESOURCE PERSON:

Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of the Symposium. Mr.P.Rajapirian, AP/ECE & Mrs.D.Vennila, AP/ECE were the Symposium coordinators. Ms.D.Sarika, IV ECE & Mr.D.Mounish Rajiah, IV ECE were the Student Coordinators.

The resource person for the symposium was Dr. Chitra Valavan, Professor, A.V.C College of Engineering, Mayiladuthurai. The Guest of honour was Er.J.Mahesh, Alumni of ECE (2011 - 15 Batch), Senior Engineer (Product Engg. Dept.,) Pegatron Technology of India, Bangalore.

ABOUT THE REGISTRATION PROCESS:

The Symposium was planned to conduct in virtual mode. The registration link was created through Google forms and the link was posted in various whats app groups.

Registration Link: <https://tinyurl.com/EBLAST-2K21>.

We have received 100 responses from various institutions. Before three days of the symposium, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Symposium participation through our official mail id eblast2k21@gmail.com. Then the registered participants were asked to join in the whats App group named “Paper presentation event”, “Technical events” and “Non technical Events”. Instructions for all the events were given to the participants through the respective whats app group. The Symposium Google meet link and youtube link was given to all the registered participants 1 day before the commencement of the symposium through their E-Mail Id and also through the Whats App group.

ABOUT THE SYMPOSIUM:

The Symposium was started at 10.00 a.m with 45 External participants and 50 internal participants. Mrs. D.Vennila, AP/ECE coordinator of the symposium welcomed the gatherings by the words.

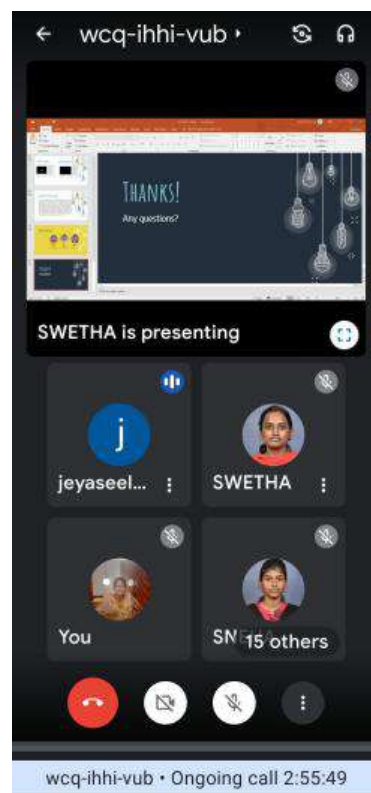
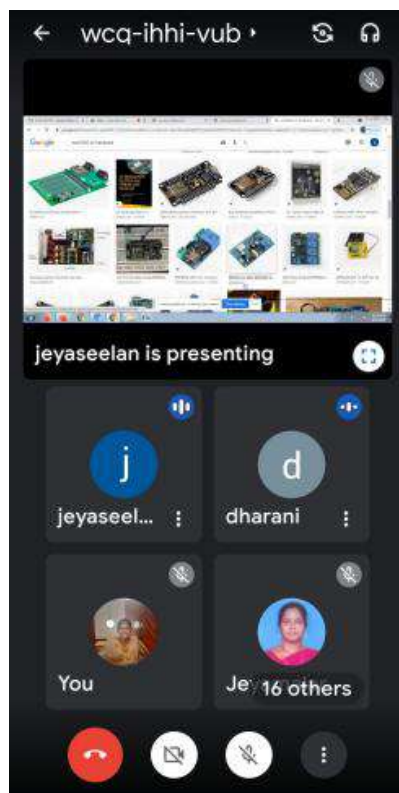
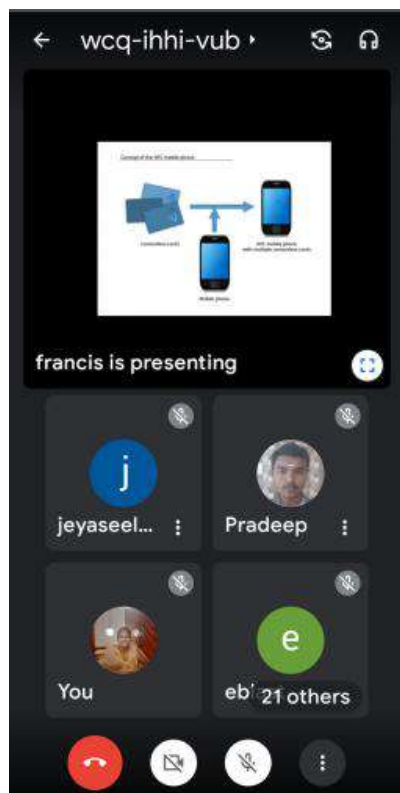
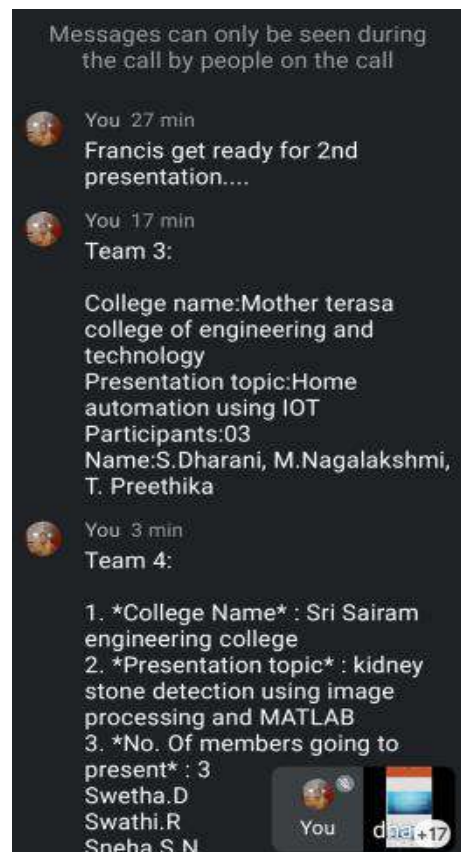
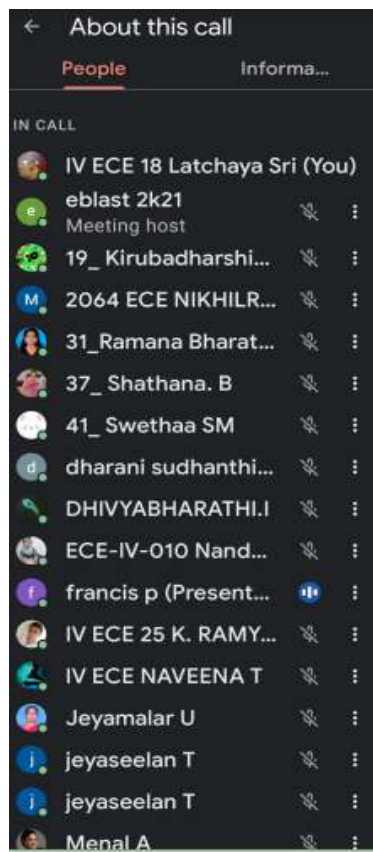
Followed that, Mrs. N.Mangaiyarkarasi, Convenor and Head of the department gave the Felicitation Address. Then Dr.J.Arputha vijaya selvi, Principal of KCE delivered the Presidential Address. Ms.G.LatchayaSri, Student of final ECE gave the introduction about the chief guest Dr. Chitra Valavan.

Then the session was handed over to the Resource person Dr. Chitra Valavan. She gave an overview about the various topics such as Nano technology, Robotics and its Automation, Intelligent sensors and Wireless Sensor Networks, MEMS and Telehealth (Wireless Health care monitoring).Her presentation was really nice. Finally she gave some videos with real time examples for Augmented and Virtual Reality. At 11.20 she comes to the end of the session.

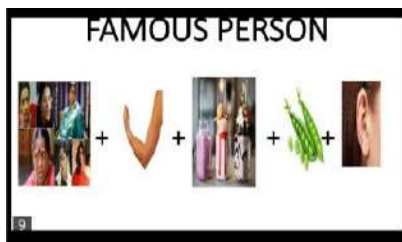
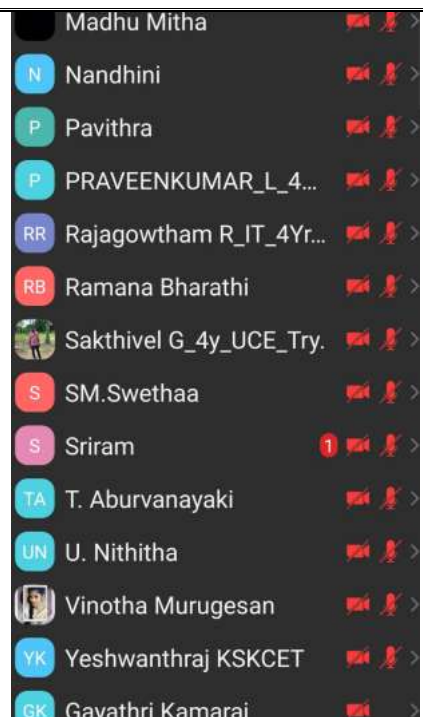
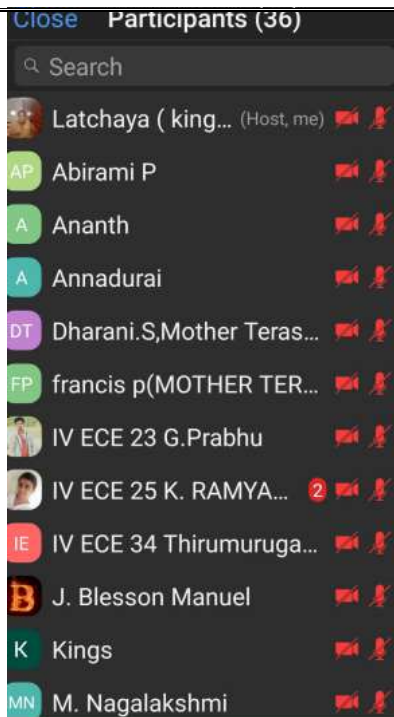
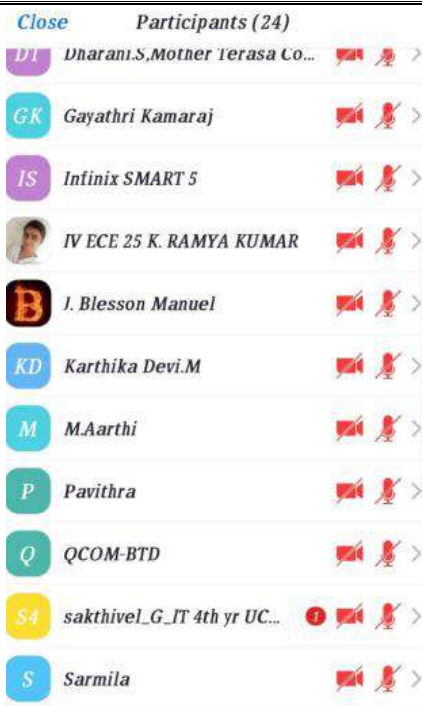
After that, Ms.D.Sarika, Student of final ECE introduced our guest of honor Er.J.Mahesh, Alumni of KCE. He gave a wonderful talk about the mobile manufacturing Technology and also he gave many tricks and tips in hardware field. At last he shares his work experience with his juniors.

Finally, Mr.P.Rajapirian,AP/ECE coordinator of this symposium gave the vote of thanks with the words. Thus the Inaugural session ended successfully.

The paper presentation event and the technical events were conducted in online mode by the respective coordinators.



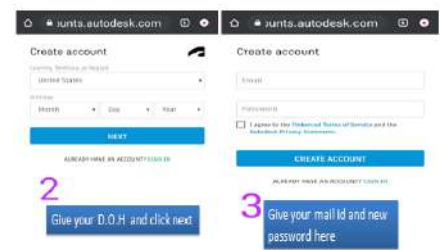
Students presenting the paper in online mode



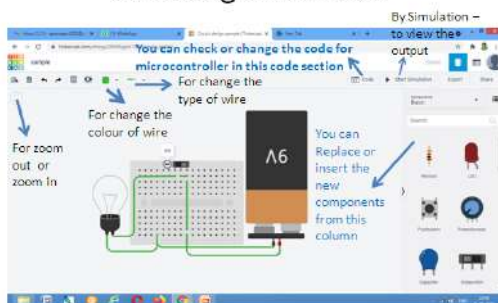
2. If you haven't that account, no problem you can create this account within 5 min ...



CREATE AN ACCOUNT IN TINKERCAD



3. Debug the circuit



4. Share the link to us in the chat box with your name



After debugging, click the **share** on the right top. Click the **invite people**



Copy the link and post in the chat box

Students Participation in Technical Events such as Circuit debugging, Connection etc.



Dignitaries on the dias during Valedictory.



Ms.D.Sarika, presenting the symposium summary.



Dr.J.Arputha Vijaya selvi, Principal of KCE releasing the souvenir of eBLAST-2k21.



Finally the valedictory function was conducted in offline mode at Pallava hall. Mrs. N.Mangaiyarkarasi, Convenor and Head of the department, distributed the cash award and prizes to the winners and also issued the participation certificates for all the participants of technical and non technical events and also she congratulates the final year ECE students for their endless efforts and new innovations.

Mr.S.Abimaneu of final year ECE thanks the management, staff members, all the participants and the organizers by giving vote of thanks. Thus the symposium was successfully completed with national anthem.

OUTCOME:

At the end of the symposium, students are updated and informed about current issues, trends and needs for the profession.

Students can able to take an individual and collective action to move the profession forward. And also they work together to build a shared understanding of the future direction for the profession.


Coordinators


HOD/ECE 2/11/2022


07/11/2022
PRINCIPAL

Annexure: I

BROCHURE

21st Year of Academic Excellence

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
PUNJAGUDAM - 601 004, KANNIYAKUMARI

eBLAST'21
Events

Technical

- Circuit Debugging
- Technical Quiz
- Paper Presentation

TOPICS:

1. Robotics & Automation
2. Artificial Intelligence and Expert System
3. Wireless Communication System
4. Embedded System
5. Image Processing
6. Internet of Things
7. Mobile Computing
8. Nano Technology
9. Sensor Network and Applications

Non-Technical

- Connection
- Photography

NATIONAL LEVEL TECHNICAL SYMPOSIUM
Department of Electronics and Communication Engineering
Via Online

On 24 Sep 2021 **Google Meet**

Last date for Registration : 20/09/2021
Last date for paper submission : 21/09/2021

Submit your papers through e-mail given below
Email : ebblast2k21@gmail.com
Insta : E-Blast_2k21

Registration link:
<https://tinyurl.com/ebblast21reg>

STUDENT COORDINATORS
Mr.D.Mounish Rajiah(8870713834)
Ms.A.Sarika(7824968714)

STAFF COORDINATORS
Mr.P.Raja Pirian (9994009225)
Mrs.D.Vennila AP/ECE

HOD /ECE
Mrs.N.Mangaiyarkarasi

PRINCIPAL
Dr.J.Arputha Vijaya Selvi

KINGS
e BLAST'21
Department of Electronics and Communication Engineering
Agenda

Circuit Debugging
Solo
9.45 to 10.45
on Sep. 23
Thurs

Online via : Google Meet
Debugging through : Tinkercad (Chrome)
Chrome link and instructions will be shared at the time of starting

Technical menus
Solo
10.45 to 11.45
on Sep. 23
Thurs

Online via : Google Meet
Participants have to present their menu on Google meet by sharing their screen.

Connection
Solo
11.45 to 12.45
on Sep. 23
Thurs

Online via : zoom

Page 1 of 2

KINGS
ECE
Online via Google Meet
Quiz through Google Forms.

Technical Quiz
9.30 to 9.55
on Sep. 24
Fri
Solo

Paper Presentation
11.00 onwards
on Sep. 24
Fri
Solo or group of maximum 3

Online via : Google Meet
Prepare for 5 minutes presentation.

Photography
onwards Sep 20
Solo

Send your photos to a WhatsApp number given below from 20 Sep and your photo will be posted in Instagram (E-Blast_2121), the photo which got maximum numbers of likes will be given prizes.
Mouath Rajah : +915870712554
(Student coordinator)

Price announcement via Google Meet
on 24 Sep afternoon.

Page 2 of 2

Annexure: II
INVITATION

KINGS
COLLEGE OF ENGINEERING

21 YEARS OF ACADEMIC EXCELLENCE

IEEE
STB16921

INVITATION

The Management, Principal, Staff & Students of
Kings College of Engineering
Cordially Invite you to the
Inaugural Ceremony of
e-SYMPOSIUM
eBlast 2K21
on 24/09/2021 @ 10 : 00 am
Organized by
Department of Electronics & Communication Engineering

Join us on
Google Meet

Resource Persons

Chief Guest

Key Note Speaker

Dr. Chitra Valavan
Professor,
A.V.C. College of Engineering
Mayiladuthurai.

Er. J. MAHESH
Senior Engineer(Product Engg. Dept.,)
Pegatron Technology of India,
Bangalore

All are invited

meet.google.com/bhy-ckht-cmi

Annexure: III

AGENDA

**National Level Technical Symposium
eBLAST-2k21**

24th - September - 2021

DEPARTMENT OF ECE

AGENDA - Inaugural Ceremony



10 : 00 am	Welcome Address Mrs.D.Vennila, AP/ECE
10 : 02 am	Felicitation Address Mrs.N.Mangaiyarkarasi , HOD/ECE
10 : 05 am	Chief Guest Introduction Ms.G.LatchayaSri, Student IV ECE
10: 10 am	Chief Guest Address Dr. Chitra Valavan, Professor, A.V.C College of Engineering, Mayiladuthurai.
10:30 am	Presidential Address Dr.J.Arputha Vijaya Selvi, PRINCIPAL, KCE
10:35 am	Key note Speaker Introduction Ms.D.Sarika, Student IV ECE
10 :40 am	Key note Speaker Er.J.Mahesh, □ Alumni of ECE (2011 - 15 Batch), □ Senior Engineer (Product Engg. Dept.) □ Pegatron Technology of India, □ Bangalore.
11: 15 am	Vote of Thanks Mr.P.Raja Pirian, AP/ECE

Annexure: IV
Registration Details

S.NO	Name of the Institution	CITY	No. of Participants
1.	A.V.C. College of Engineering	Nagapattinam	01
2.	Basaveshawar Engineering College Bagalkot	Bagalkot	04
3.	Care College of Engineering	Trichy.	03
4.	Dhanalakshmi Srinivasan Institute of Technology	Perambalur	02
5.	Dr Mahalingam College of Engineering And Technology	Pollachi	01
6.	Er.Perumal Manimekalai College of Engineering	Hosur	01
7.	K.S.K College of Engineering And Technology	Kumbakonam	01
8.	Kings College of Engineering	Punalkulam	20
9.	Kongu Engineering College	Erode	02
10.	M.A.M School of Engineering	Trichy.	01
11.	Mother Teresa College of Engineering And Technology	Pudukkottai	06
12.	Parisutham Institute of Technology & Science	Thanjavur	01
13.	St. Joseph's College of Engineering And Technology	Thanjavur	15
14.	Prist University	Vallam	01
15.	University College of Engineering, (Bit Campus),	Trichy.	07
16.	University College of Engineering, Kanchipuram	Kanchipuram	02
17.	Sudharsan Engineering College	Pudukkottai	01
18.	Shanmuganadhan Engineering College	Pudukkottai	01
19.	Sri Sairam Engineering College	Chennai	02
20.	Sembodai Rukmani Varatharajan Engineering College.	Sembodai	16
21.	Saranathan College of Engineering,	Trichy.	10
22.	Ramya Sathiyathan Polytechnic College	Sengipatti	01
23.	Rajalakshmi Engineering College	Chennai	01
Total No. of Participants Registered.			100

Annexure: V

List of Resource Persons

Sl.no	Name of the person	Designation	Photo
1.	Dr. Chitra Valavan,	Professor, A.V.C College of Engineering, Mayiladuthurai.	
2.	Er.J.Mahesh,□	Senior Engineer (Product Engg. Dept.,) Pegatron Technology of India,Bangalore. Alumni of ECE (2011 - 15 Batch)	

Resource Persons Profile



Dr.Chitra valavan, Professor

Dr.Chitra valavan, currently working as a Professor in A.V.C College of Engineering, Mayiladuthurai.

She completed her Ph.D in the area of Communication systems. She is having nearly 15 years of working experience in teaching.

She published 6 papers in international conference and 5 papers in national conferences. She published 17 International journals and 02 National journals. She published a book in her name.

She attended nearly 42 various Faculty development program, Workshops and seminar. She organized nearly 40 various Faculty development program, Workshops and seminar. She is having the ISTE life time membership.

+ 7 times achieved 100 percent results between 2010 to 2018

She scored best paper award for EMI and EMC analysis from symposium conducted at Annamalai University.

Guest of Honor Profile



Er.J.Mahesh

Er.J.Mahesh, is currently working as a Senior Engineer (Product Engg. Dept.,) Pegatron Technology of India, Bangalore.

He completed his BE degree in the year of 2015 from Kings College of Engineering, Punalkulam, and Affiliated to Anna University, Chennai.



He is an experienced Junior Engineer with a demonstrated history of working in the information technology and services industry.

Skilled in Failure Mode and Effects Analysis (FMEA), Debugging, Engineering, Consumer Electronics, and Electronics.







Having Strong engineering professional with a Bachelor's degree focused in Electrical, Electronics and Communications Engineering .

Annexure: VI


Registration Form

e-BLAST 2021  

You have been signed out. Sign into your account from another tab.

    [Send](#)  

[Questions](#) [Responses](#) **100** [Settings](#)



e-BLAST 2021

National Level Technical Symposium

Email *

Valid email



This form is collecting emails. [Change settings](#)

Annexure: VII
Sample Certificate






DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Academic Year 2020-21(ODD SEM)
Introduction and Interfacing of Sensors with Raspberry Pi


NAAC Accredited Institution
KINGS  **IEEE** Madras Section 51B 10021
COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalakam, Goudarvakkottai (tk), Near Thanjavur, Pudukkottai - 613303


**Introduction & Interfacing of
sensors with Raspberry Pi**

Organized by
**Department of Electronics & Communication
Engineering**

29.09.2021 | 06.00 p.m. - 07.30 p.m.



Ms. Swati Sharma
IoT Embedded Engineer
Valuecon Pvt Ltd
Ghaziabad, UP


RaspberryPi

Registration link :: <https://forms.gle/UrnhahsgGxZ5J6sWA>

Cobrdinators

Mr. T. Pasupathi, AP/ECE & Mr. S. Ramarajan, AP/ECE	
Convener	Patron
Mrs. N. Mangaiyarkarasi	Dr. J. Arputha Vijaya Selvi
HOD ECE	Principal

pins, Description of DHT11, Ultrasonic sensor, PIR sensor, Vibration sensor, Interfacing of the above sensors with Raspberry Pi, Real time Image processing using Raspberry Pi and Image recognition application using Raspberry Pi. Also she interacted with the students and clarified their doubts regarding issues in the interfacing. Mr. S. Ramarajan, AP/ECE, proposed vote of thanks.

Department of Electronics and communication Engineering and IEEE Student branch jointly organized a webinar on Introduction and Interfacing of Sensors with Raspberry on 29-09-2021. Total of 74 candidates registered and 63 participants attended the webinar through Google Platform. Ms. Swati Sharma, IoT Embedded Engineer, Valuecon Pvt Ltd Ghaziabad, Uttar Pradesh was the resource person. Ms.K.Gayathiri, Third year ECE welcomed the gathering and introduced the resource person. Ms.Swati Sharma, in her lecture briefed on the following during her presentation. Unique features and application of raspberry Pi, List of GPIO



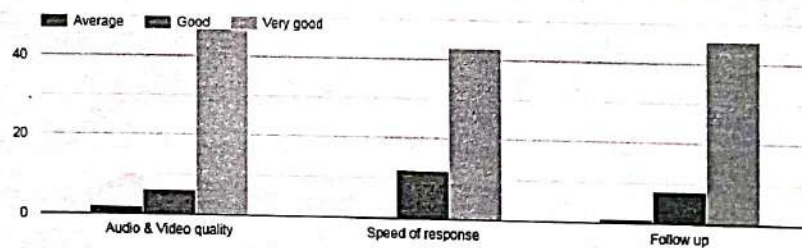
7:02 PM 50%

About this call

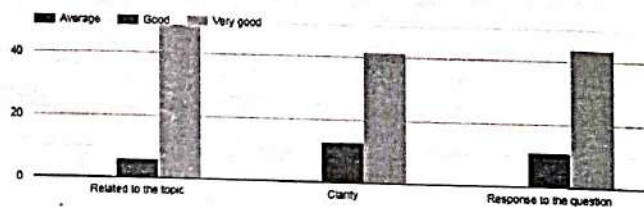
People	Information
27_Pavithra.P III ECE	✕ ⋮
28_Prakash.A III ECE	✕ ⋮
31_Ramana Bharathi.S	✕ ⋮
33_Ruthra. R	✕ ⋮
37_Shathana. B III ECE	✕ ⋮
38_Soundharya . R III ...	✕ ⋮
41_Swethaa SM III ECE	✕ ⋮
42_Valshnavi.G III ECE	✕ ⋮
Anitha	✕ ⋮
DEEPIKA J	✕ ⋮
Elayakavi Pichaikannu	✕ ⋮
II ECE 07 Devadharsin...	✕ ⋮

Programme screenshot

How did you find the Webinar



How did you find the presentation and content




Participants feedback summary

1. T. Pasmur
2. ...
Coordinators

... 22/12/21
HOD

... 22/12/20-1.
Principal

80% lower cost per lead - Find out how this B2B tech company did it Ad



Swati Sharma ^{1st}
 IoT Embedded Engineer at Valuecon Pvt Ltd | Google Cloud IoT |
 IoT | M2M | Arduino | ESP8266 | Raspberry Pi
 Ghaziabad, Uttar Pradesh, India · Contact Info
 500+ connections
 Message More

Valuecon Pvt Ltd

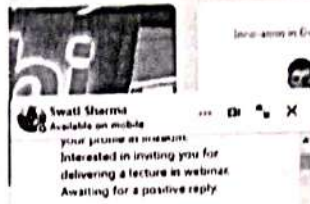
Hi, This is nirajan samuel, kings College of Engineering, Thiruvananthapuram, India. I saw your profile in LinkedIn. Interested in inviting you for delivering a lecture in webinar. Awaiting for a positive reply.

Swati Sharma · 247 PM
 Hi Nirajan, Thanks for the opportunity.

Write a message...

Press Enter to Send

B2B tech company did it Ad

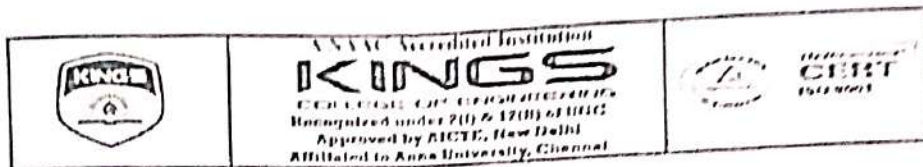


Swati Sharma · 247 PM
 Hi Nirajan, Thanks for this opportunity could you share details of the webinar
 Or is it online webinar?

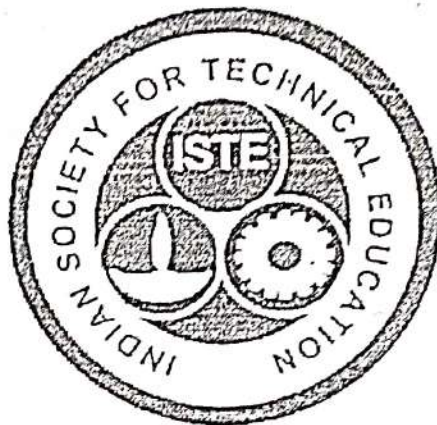
Nirajan Samuel · 247 PM
 Sure, I will share details of the webinar.

Write a message...

Press Enter to Send



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



MINIPROJECT EXPO-"EC2K21" REPORT

Organized by

Mr. S.SIVAKUMAR
AP/ECE



**ISTE STUDENT CHAPTER (TN 217)
ACADEMIC YEAR 2021-22(ODD SEMESTER)**

MINIPROJECT EXPO-"EC2K21" REPORT

The Department of Electronics and Communication Engineering and ISTE Student Chapter (TN217), Kings College of Engineering jointly organized a competition on **Mini Project Expo-'EC2K21'** on 30.10.21 between 10.00am - 3.30pm through online mode for the ISTE student members of ECE Department. Initially Mrs. N. Mangaiyarkarasi HOD/ECE has given some important tips to the students regarding the expo. Nearly 30 students have actively participated in this competition. There are one external and two internal juries evaluated the projects.

Name of Juries: (External)

Mr. S.V. Vijayakarthish
Research Scholar,
Anna University, Chennai.

Internal Juries:

Mr. R. Thandayuthapani
Mr. W. Newton David Raj
AP/ECE

LIST OF PROJECTS: The following projects were presented in the project Expo

Sl. No	Name of the students	Year	Project title
1	K. Ramya J. Anitha M. Dhivyakalki	IV ECE	Fruit quality detection system using image processing
2	A.Sarika M.Keerthika B.Kiruthika T.Sheela	IV ECE	Automatic Irrigation system
3	G. Latchayasri A.Kawya K.Divakar	IV ECE	Fire Alarm with automatic SMS generation

4	R.Anuraj A.Aasha M.Aarthi G.Vinothini	IV ECE	Rain fall detector
5	Ananth Ela G.Prabhu S.Thirumurugan	IV ECE	Automatic Earth Quake Alarm System
6	S.Aparnaa P.Shobiga M.Vinotha S.Priyadharshini	IV ECE	Disinfection Robot using Arduino Uno
7	P.V.Vaishnavi V. Vishwabharathi R. Suriya C. Srimathi	IV ECE	Automated Smoke zone Monitoring and Alerting System
8	D. Mounish Rajiah B.Ganesh R.K.Aniz B. Thamilselvan	IV ECE	Clap Switching

Google Meet Link: <https://meet.google.com/gdp-qkeez-eez>

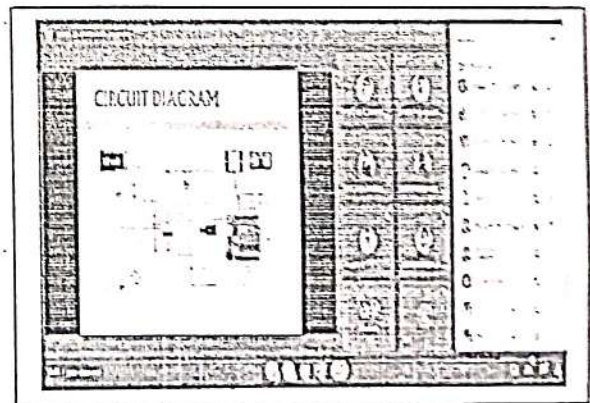
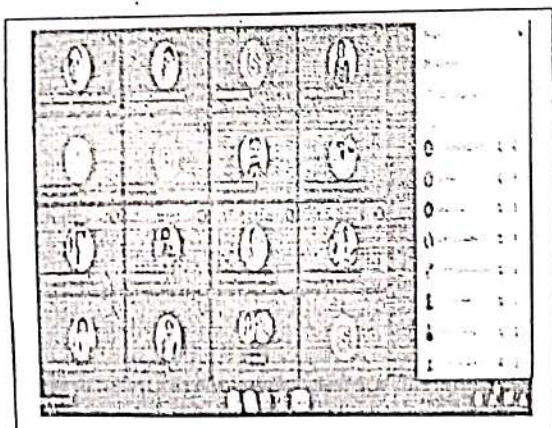
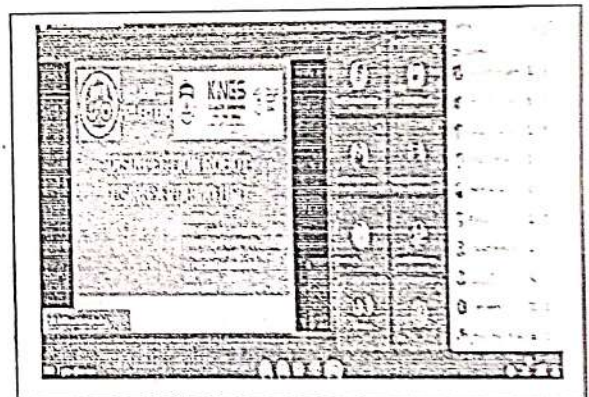
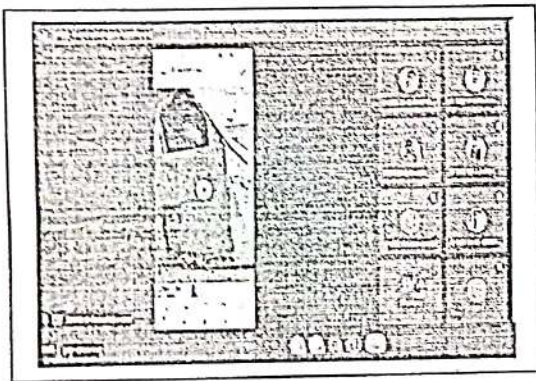
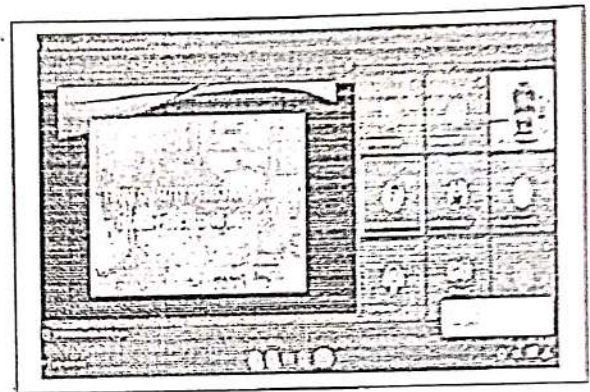
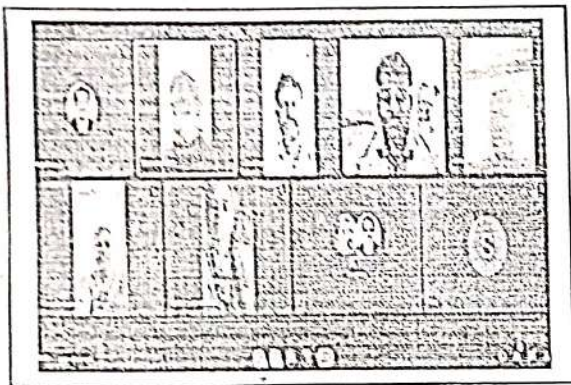
Prize winners

Sl. No	Name of the students	Year	Position
1	S.Aparnaa, P.Shobiga, M.Vinotha S.Priyadharshini	IV ECE	FIRST PRIZE
2	K. Ramya, J. Anitha M. Dhivyaakalki	IV ECE	SECOND PRIZE
3	G. Latchayasri A.Kawya K.Divakar	IV ECE	SECOND PRIZE
4	Ananth Ela G.Prabhu S.Thirumurugan	IV ECE	THIRD PRIZE

OUTCOMES:

- Understand, plan and execute a Mini Project with team.
- Implement electronic hardware by learning PCB artwork design, soldering techniques, testing and troubleshooting etc.
- Prepare a technical report based on the Mini project.
- Deliver technical seminar based on the Mini Project work carried out.

SNAPSHOTS



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CERT

Certificate of Participation

This is to certify that Mr./Ms. B. GANESH IV ECE
has presented the project titled CLAP SWITCHING
In the Mini Project Expo 2021 jointly organized by
Department of Electronics & Communication Engineering and ISTE Student Chapter
[TN 217], Kings College of Engineering, Puthukkulam, Pudukkottai on 30.10.2021.

Mrs. T. Gnanajeya ISTE Co-ordinator
Mrs. N. Mangaiyarkarasi HOD/ECE
Dr. J. Arputha Vijaya Selvi Principal

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MINI Project Expo

Jointly organized by
Department of Electronics & Communication Engineering
&
ISTE Student Chapter [TN 217]
30th October, 2021 10.00 am

Guidelines:

- Min 2 participants and Max 4 participants / batch
- Duration for demonstration is 10 minutes
- Certificate to all participants
- Certificate of Appreciation for Best Project

Event platform: <https://meet.google.com/ghjvzqjz-zcr>

Mr. S. Sivakumar, AP/ECE Coordinator
Mrs. T. Gnanajeya, ISTE Co-ordinator
Mrs. N. Mangaiyarkarasi, HOD/ECE
Dr. J. Arputha Vijaya Selvi, Principal

S. Sivakumar
13/11/2021
Mr. S. Sivakumar
Dept. ISTE Co-ordinator

N. Mangaiyarkarasi
13/11/21
Mrs. N. Mangaiyarkarasi
HOD/ECE

T. Gnanajeya
13/11/21
Mrs. T. Gnanajeya
Inst. ISTE Co-ordinator

J. Arputha Vijaya Selvi
13/11/2021
Dr. J. Arputha Vijaya Selvi
Principal

PERMISSION LETTER

Punalkulam,
22-12-21

From

Mr. P. Rajapirian, AP/ECE
Mrs.D.Vennila, AP/ECE
Workshop Coordinators,
Department of ECE,
Kings College of Engineering,
Punalkulam.

To

The Principal
Kings College of Engineering,
Punalkulam. .

Respected Madam

Sub: Seeking permission to conduct Workshop- reg.

With reference to the above subject, as per the activity planner, we are going to conduct a Workshop in the Title of "Skill sets for Electronics Engineers in core field" on 24.12.2021. We request you to kindly grant permission for the same.

Thanking You

gsh 22/12/21

J. Monnet
22/12/2021

Your's faithfully

1. *P. Rajapirian* 2. *D. Vennila*

Mr.P.Rajapirian, AP/ECE

Mrs.D.Vennila, AP/ECE



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CERT
ISO 9001

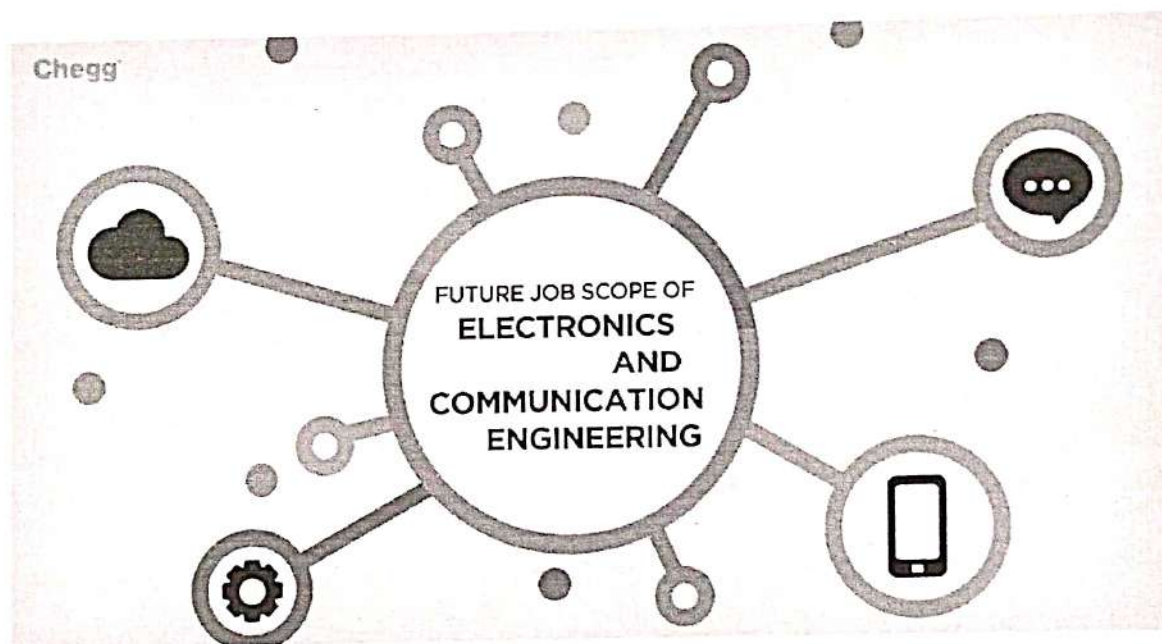
WORKSHOP REPORT

In the title of

“Skill Sets for Electronics Engineers in Core Field”

ON

24th DECEMBER 2021



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)

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CONTENTS

SL.NO	PARTICULARS	PAGE NO
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2.	Annexure: I (Brochure)	08
3.	Annexure: III (Agenda)	09
4.	Annexure: V (Resource Persons Profile)	10



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2021-2022) ODD SEM

REPORT ON ONE DAY WORKSHOP

In KCE, Department of Electronics and Communication Engineering, has organized a one day workshop for third year and Final year B.E-ECE students on 24th December 2021, in the title of "Skill Sets for Electronics Engineers in core field" at Pallava hall.

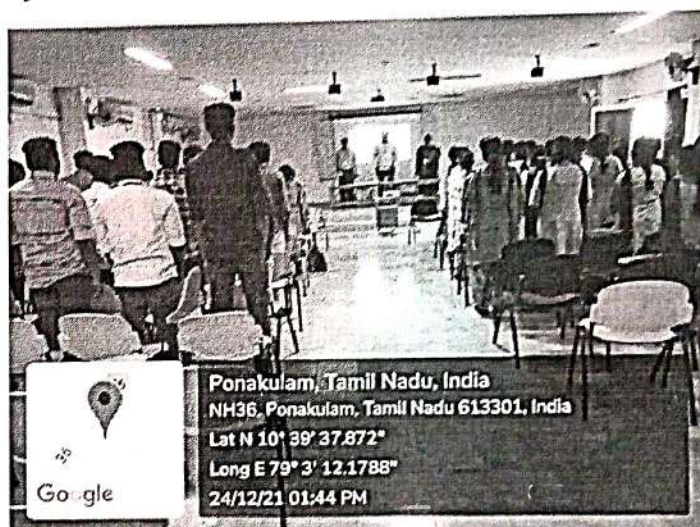
Totally 80 students have enthusiastically participated in this Workshop.

The main objective of this workshop was to know about the job opportunities for Electronics Engineers in the core field and to know various skills needed for the students to enter into a job.

The workshop was started at 1.30 pm with a prayer Song.



Dignitaries on the Dias during the Inauguration

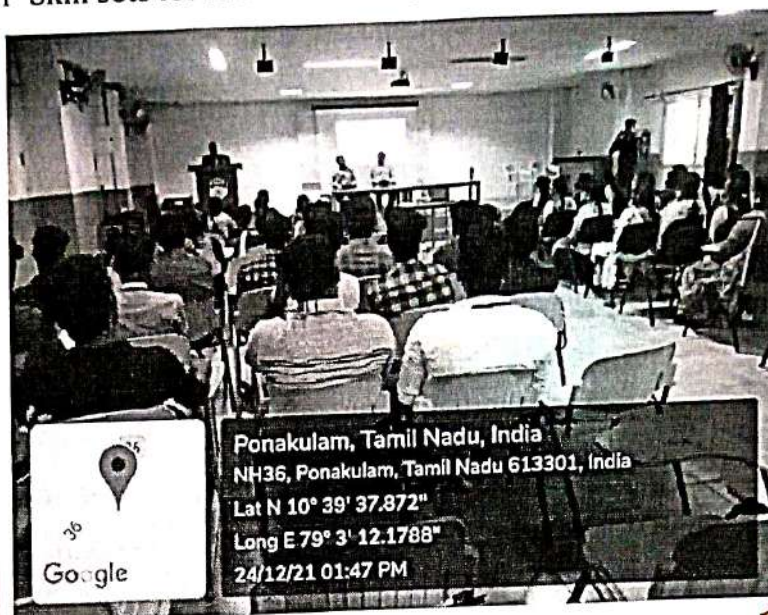


Dignitaries and Students during the Prayer Song



Welcome address by Ms.G.Latchayashri, Student of IV ECE.

Followed by the Prayer Song, **Ms. G.Latchayashri**, student of Final ECE, welcomed the gatherings with the words for this offline workshop on "Skill sets for Electronics Engineers in Core field".



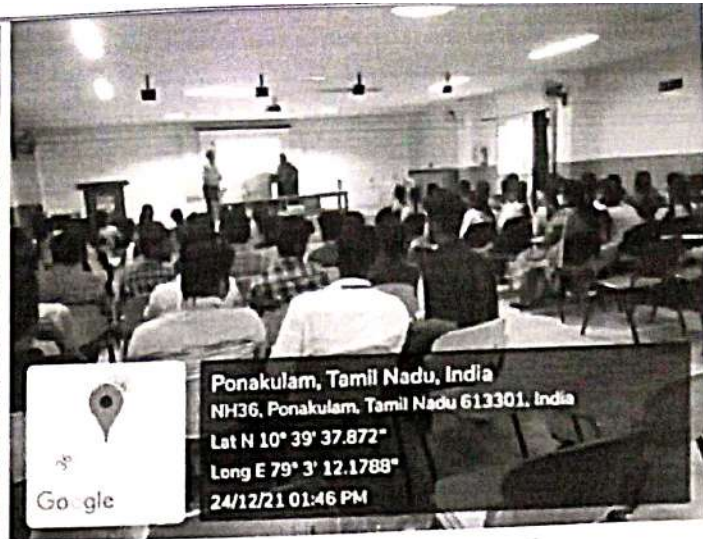
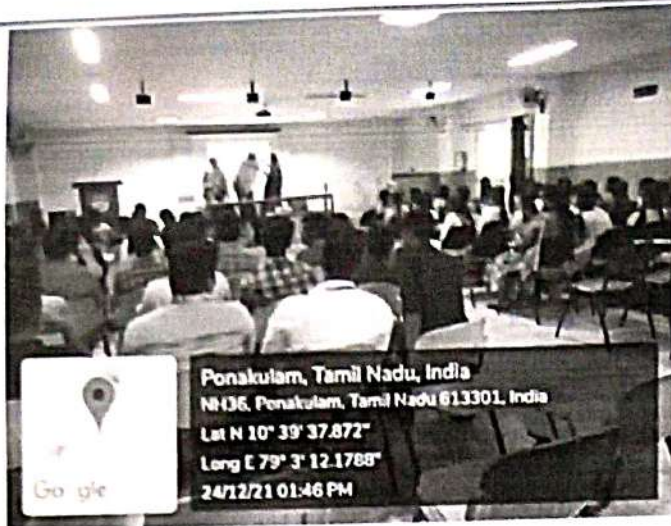
Felicitatation Address by Mrs.N.Mangaiyarkarasi, HOD/ECE

Mrs.N.Mangaiyarkarasi, HOD/ECE delivered the Felicitatation Address. She emphasized that, this workshop will provide more knowledge about the various technical skills and the future scope for electronics engineers. She insisted the students to ask more doubts and have a clear idea about the job opportunities.



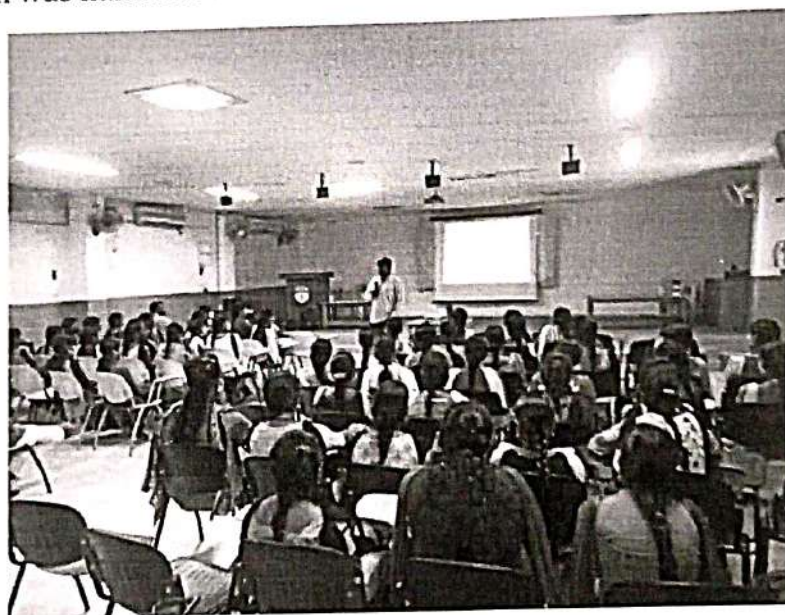
Chief Guest Introduction by Ms.K.Gayathri, Student of III ECE

Ms.K.Gayathri, Student of Third ECE gave a brief introduction about our chief guest, **Mr.S.Dinesh Sundar**, Alumni of Kings, Software Developer, VVDN Technologies, Gurugram, Haryana.



Honoring the chief guest with a shawl.

Followed by inauguration the session was handed over to the resource person.



Mr. S.Dinesh Sundar, from VVDN technologies delivering the lecture to the students.

The resource person gave an overview about the various technical skills. He gave more information about the embedded systems and various job opportunities in embedded systems and in our core field. How to get prepared for the interview? To face the interview, what are the main technical skills and languages needed? What are the companies available to work in our core field? What are the opportunities and ways to Electronics core Industry? He gave a fantastic lecture about the skill sets for an electronics engineer in our core field.

After the session was completed, Feedbacks were collected from the students to know their opinion about the Workshop. Finally he told that, many vacancies are there in his company. As an Alumni of Kings, he shared his sweet experience with his juniors.

Finally, Event coordinator Mr.P.Rajapirian, AP/ECE delivered the vote of thanks.

Thus the Workshop ended with National Anthem successfully.

OUTCOME:

- At the end of the Workshop, students gathered more knowledge about the availability of job opportunities in Embedded Systems and in our core field.
- Students gained various technical skill sets needed regarding placement. Thus we created the way to get into the MNC through the technical skills in our core field.

[Signature]
Coordinators 27/12/21

[Signature]
HOD/ECE 27/12/21

[Signature]
28/12/2021
PRINCIPAL



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PUNAKULAM - 611 303, NEAR THANJAVUR.

IEEE
STB16621



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organizes Workshop on Skill Sets for Electronics Engineers in Core Field

Date : 24-12-2021 (Friday)

Time : 01 : 30 p.m. - 04.00 p.m.

Venue : Pallava Hall

Resource Person



Mr.S.Dinesh Sundar

(Alumni of KINGS)

Software Developer,
VVDN Technologies,
Gurugram, Haryana

Mrs.N.Mangaiyarkarasi
HOD/ECE

Dr.J.Arputha Vijaya Selvi
PRINCIPAL

Co-ordinators

Mr.P.Raja Pirian, AP/ECE

Mrs.D.Vennila, AP/ECE



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<https://www.kingsengg.edu.in/>

Annexure: II

AGENDA

WORKSHOP ON

SKILL SETS FOR ELECTRONICS ENGINEERS IN CORE FIELD

24th – December - 2021

AGENDA

TIME	AGENDA
01 : 30 pm	Prayer Song
01 : 32 pm	Welcome Address Ms.G.Latchayashri, Student IV ECE
01 : 34 pm	Felicitation Address Mrs.N.Mangaiyarkarasi , HOD/ECE
01:42 pm	Chief Guest Introduction Ms.K.Gayathri, Student III ECE
01:44 pm	Honoring the Chief Guest
01: 45 pm	Chief Guest Address Mr. S.Dinesh Sundar, Software Developer VVDN Technologies, Gurugram, Haryana.
01:50 pm	Session -I
02:45 pm	Break
03 :00 pm	Session-II
03: 55 pm	Vote of Thanks Mr.P.Rajapirian, AP/ECE
04:00 pm	National Anthem

Annexure: III
Resource Person Profile



Mr. S.Dinesh Sundar, Software Developer

Mail : embeddeddinesh@gmail.com Mobile : +91-8754708100

Mr. S.Dinesh Sundar, is currently working as a Software Developer in VVDN Technologies, Gurugram, Haryana.

Recent Project Worked:

Linux character device driver for IOT based concurrent home automation system.

Description:

The aim of this project is to develop the Character Device Driver for IOT based home automation system which concurrently monitor and control. The application program in this project continuously read the sensors, write the loads which invoke read and write kernel functions in device file. Concurrency is achieved in application of this project. Device Driver monitoring and controlling the sensors, loads based on GPIO registers. The information to user through PUBNUB an open cloud and control three different loads based on user commands.

Technical Skill Set:

Programming : Linux Device Driver Development, Linux system programming, Embedded-C Programming, CPP.

Operating Systems : Linux OS.

Microcontrollers : 8051, ARM7, ARM-Cortex M series.

Compilers : GCC compiler, ARM-GCC cross compiler.

Training Undertaken:

Took Embedded Systems training at Vector India, Bangalore from June 2017 to July 2018.

Work Experience:

- Worked as Embedded Developer from Nov 2019 to till date in Tusker India Embedded Systems, Thanjavur.
- Worked as Embedded Developer from Feb 2019 to Aug 2019 in Ethics Tech Embedded Systems, Chennai.
- Trainee at Vector India, Bangalore from June 2017 to Dec 2018.
- Worked as Assistant Professor in the department of ECE, Parisutham Institue of Technology and Science at Thanjavur from the month of June 2014 to April 2017.
- Worked as Assistant Professor in the department of ECE, C.R Engineering college at Madurai from the month of November 2013 to May 2014
- Worked as Assistant Professor in the department of ECE, PRIST University at Thanjavur from the month of June 2012 to October 2013.

Abilities:

- Taking up new responsibilities with ease
- Quick grasping skills
- Ability to work and Deliver good Quality with Minimal support & supervision.
- Open to new concepts and hard working.
- Effectively able to handle Loading in Team.

Education:

M.E in Applied Electronics from Kongu Engineering college in 2012.

B.E in Electronics and communication engineering from Kings College of Engineering in 2010.

Personal Details:

Date of Birth : 19-12-1988.
Marital Status : Single.
Languages known : English, Tamil.
Strength : Involvement, Quick learning.
Passport Number : S4357808
Contact Address : 3/32B. Thiru Nagar, 4th street, Singaperumal Kulam East, Thanjavur.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2021-2022(ODD SEM)

WORKSHOP ON SKILL SETS FOR ELECTRONICS ENGINEER IN CORE FIELD

ATTENDANCE SHEET

DATE: 24-12-2021

YEAR/SEM: IV/VII

R.No	Register No.	Name of the Student	SIGNATURE
1.	821118106001	AARTHI M	M. Arthi
2.	821118106002	AASHA A	A. Asha
3.	821118106004	ABISHEIK P	Abhishek P.
4.	821118106005	ANANTH ELA	Ananth
5.	821118106006	ANANTHAVALLI M	R. Ananthavalli
6.	821118106007	ANITHA J	Anitha
7.	821118106008	ANIZ R K	R. K. Aniz
8.	821118106009	APARNAA S	AP
9.	821118106010	ARUNKUMAR R	Arunkumar
10.	821118106011	ANURAJ R	R. Anuraj
11.	821118106014	DHIVYAKALKI M	M. Dhivyakalki
12.	821118106015	DIVAGAR K	Divagar
13.	821118106016	DURGA DEVI S	S. Durga Devi
14.	821118106017	GANESH B	B. Ganesh
15.	821118106020	KAWYA A	A. Kawya
16.	821118106022	KEERTHIKA M	M. Keerthika
17.	821118106023	KIRUTHIKA B	B. Kiruthika
18.	821118106024	LATCHAYASRI G	G. Latchayasri
19.	821118106026	MOUNISH RAJIAH D	D. Mounish
20.	821118106027	NAGESWARI R	R. Nageswari
21.	821118106028	NIVETHA C	C. Nivetha
22.	821118106029	NIVETHA T	T. Nivetha
23.	821118106030	PRABHU G	G. Prabhu
24.	821118106033	PRIYADHARSHINI S	S. Priyadharshini
25.	821118106034	RAMYA K	K. Ramya
26.	821118106036	SANTHIYA S	S. Santhiya
27.	821118106038	SARIKA A	A. Sarika
28.	821118106039	SHEELA T	T. Sheela
29.	821118106040	SHOBIGA P	P. Shobiga
30.	821118106041	SRIMATHI C	C. Sri
31.	821118106042	SURIYA R	R. Suriya
32.	821118106043	SUSHMA D	D. Sushma
33.	821118106044	THAMILSELVAN B	B. Thamilselvan
34.	821118106045	THIRUMURUGAN S	S. Thirumurugan
35.	821118106046	VAISHNAVI P V	P. Vaishnavi
36.	821118106048	VINOTHA M	M. Vinotha
37.	821118106049	VINOTHINI G	G. Vinothini
38.	821118106050	VISHWABHARATHY V	V. Vishwabharathy
39.	821118106901	ARUNKUMAR K	K. Arunkumar

R.No	Register No.	Name of the Student	SIGNATURE
1.	821119106001	ABIMANEU S	P. Abimaneu
2.	821119106002	AGALYA P	P. Agalya
3.	821119106004	BLESSON MANUEL J	J. Blessonmanuel
4.	821119106005	DHARMADURAI A	A. Dharma
5.	821119106006	DHARSHINI C	C. Dharshini
6.	821119106007	DURGA SRI R	P. Durgasri
7.	821119106008	GANGA L	L. Ganga
8.	821119106009	GANGA R	R. Ganga
9.	821119106010	GAYATHIRI K	K. Gayathiri
10.	821119106011	GAYATHIRI S	S. Gayathiri
11.	821119106012	ISHWARYA K	K. Ishwarya
12.	821119106013	JAYAKUMAR A	A. Jayakumar
13.	821119106015	JOTHIKA R	R. Jothika
14.	821119106016	KABILAN R	R. Kabilan
15.	821119106017	KABISHENA P	P. Kabishena
16.	821119106019	KARIKALAN G	G. Karikalana
17.	821119106020	KARTHICK N	N. Karthick
18.	821119106021	KARTHIKA DEVI M	M. Karthika Devi
19.	821119106022	KIRUBADHARSHINI S	S. Kirubadharshini
20.	821119106023	KRISHNADEVI G	G. Krishnadevi
21.	821119106024	LOGESHWARAN P	P. Logeswaran
22.	821119106025	MADHUMITHA G	G. Madhumitha
23.	821119106026	MAHESWARI V	V. Maheswari
24.	821119106027	MATHIVANAN K	K. Mathivanan
25.	821119106028	NITHITHA U	U. Nithitha
26.	821119106029	NIVETHITHA S	S. Nivethitha
27.	821119106030	PAVITHIRA P	P. Pavithira
28.	821119106031	PRAKASH A	A. Prakash
29.	821119106032	PRETHIYA B	B. Prethiya
30.	821119106033	PRIYANKA K	K. Priyanka
31.	821119106034	RAMANA BHARATHI S	S. Ramana Bharathi
32.	821119106035	RENUKA K	K. Renuka
33.	821119106036	RUTHIRA R	R. Ruthira
34.	821119106037	SABARINATHAN S	S. Sabarinathan
35.	821119106039	SARASWATHI K	K. Saraswathi
36.	821119106040	SATHYA G	G. Sathya
37.	821119106042	SHATHANA B	B. Shathana
38.	821119106043	SOUNDHARYA R	R. Soundharya
39.	821119106044	SURIYA C	C. Suriya
40.	821119106045	SUSIKUMAR T	T. Susikumar
41.	821119106046	SWETHIAA S M	M. Swethiaa
42.	821119106048	VAISHNAVI G	G. Vaishnavi

D. Venkatesh
24/12/21
Workshop Coordinator

Dr. S. S. Srinivasan
24/12/21
HOD/ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2021-2022) ODD SEM

FEEDBACK ANALYSIS REPORT

TITLE: Skill Sets for Electronics Engineers in Core Field

DATE: 24-12-21

S.NO	CONTENTS	EXCELLENT	VERY GOOD	GOOD	SATISFIED
1.	The content was interesting.	35	11	16	28
2.	I gathered more knowledge from this session about the job opportunities in Embedded system	23	39	18	10
3.	The speaker provided clear answers and comments.	15	33	25	17
4.	The Workshop met my expectation.	20	30	25	15

1. *P. Ph...*
 2. *D. V...*
Coordinator

[Signature]
HOD/ECE

24/12/21



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Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



TÜV Rheinland
CERT
ISO 9001

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2021-22(ODD SEM)

ENERGY CONSERVATION ON 21ST DECEMBER

NAAC Accredited Institution
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Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai
Panakkulam, Gundurakottai (T.N), Near Thanjavur, Pudukkottai - 613303

IEEE | Madras Section
STB 16621

21.12.2021
Hybrid Mode
11:00 a.m.

Programme on Energy Conservation

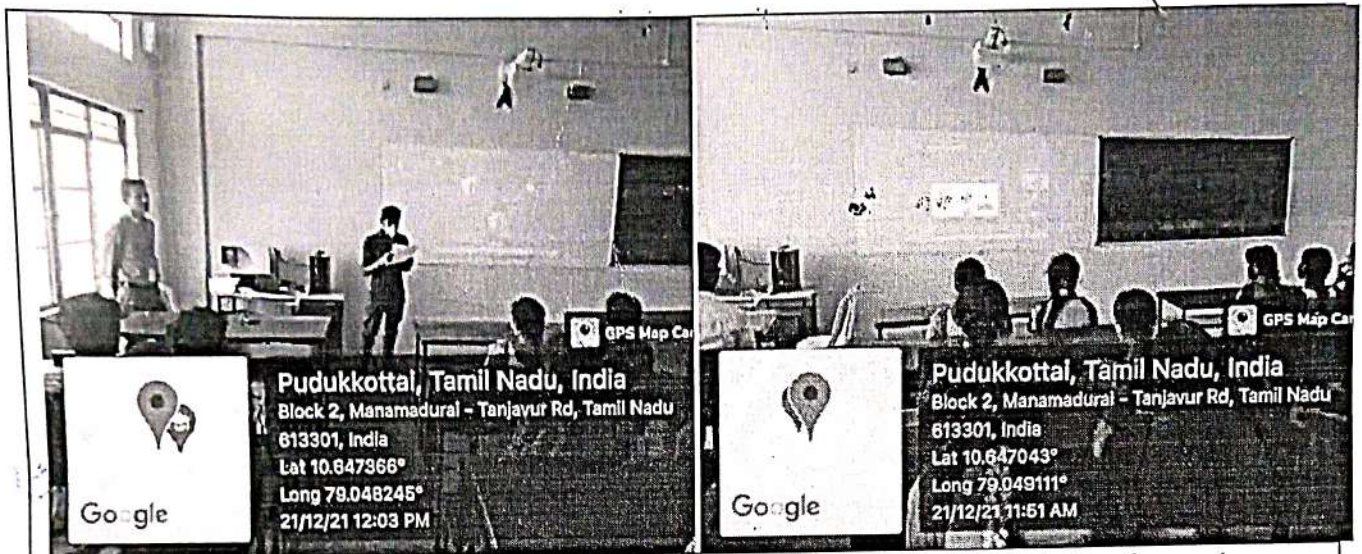
organized by
IEEE Student Branch - 16621

Er. S. Alexander
Assistant Engineer
Public Works Department
Thanjavur

Mr. T. Pasupathi, AP/ECE
Mr. J. Niranjan Samuel, JRF/R&D

Dr. J. Arputha Vijaya Selvi
Principal & IEEE SBC

As a part of Energy Conservation week, IEEE student branch of KCE organized a programme on **Energy Conservation** on 21st December, 2021 between 11:00 a.m. and 12:00 noon in hybrid mode at ECE Smart classroom. **Mr. S. Alexander**, Assistant Engineer, Tamil Nadu Public Works Department, Thanjavur was the resource person. **Mr. T. Pasupathi**, AP/ECE & Incharge IEEE STB 16621 welcomed and introduced the resource person. Mr. S. Alexander, in his lecture briefed about the strategies involved in effective utilization of electrical energy. Also he discussed on energy conservation from electrical perspective, power factor calculation and correction techniques. While concluding his lecture he listed the features of APFC panel. Mr.S.Thirumurugan, IV year ECE student proposed vote of thanks. 36 students participated and got benefited. The event was coordinated by Mr. T. Pasupathi, AP/ECE & Mr. J. Niranjan Samuel, JRF/ECE-R&D.



Mr.S.Thirumurugan, IV ECE delivering Welcome address

A view of Participants during the session



Mr. S. Alexander, Assistant Engineer, Tamil Nadu Public Works Department, Thanjavur Presenting the topic

T. Pasupathi
Reported by 23/12/21
T.Pasupathi

T. Pasupathi
23/12/21

Principal

PRINCIPAL
'Kings College of Engineering.
PUNALKULAM - 613 303.

du 23/11/2021
HOD/ECE

H.O.D.
ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613 303.
GANDHIANATHAN, PUDUCHATTI DISTRICT



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Academic Year 2021 - 2022 / EVEN SEMESTER

NATIONAL CONFERENCE ON COMMUNICATION, NETWORKING AND INTELLIGENCE-
NCCNI'22 - REPORT

The Department of Electronics and Communication Engineering organized a National Conference on Communication, Networking and Intelligence – NCCNI'22 on 10th June 2022.

OBJECTIVE OF THE CONFERENCE

- The conference focuses on current research topics related to Communication, Networking and Intelligence.
- It would act as an innovative forum to share and exchange the innovative research ideas related to advanced inventive communication and Intelligence for Students, Professors, Researchers and Innovators.

Conference Topics:

1. Digital Communication
2. Communication System Design
3. Artificial Intelligence and Robotics
4. Neural Networks
5. Antenna System and Design
6. RF and Microwave Communications
7. Wireless Communication
8. Cognitive Radio and Networks
9. Mobile Adhoc and Wireless Sensor Networks
10. Optical Networks and Systems
11. Embedded System Design
12. Digital System Design
13. VLSI Design
14. Soft Computing Techniques and application

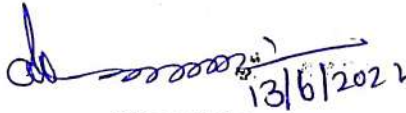
National Conference on Communication, Networking and Intelligence (NCCNI'22) was organized on 10th June, 2022. Dr. Joe Louis Paul, Assistant Professor, SSN College of Engineering, Chennai was the chief guest. Mrs.N.Mangaiyarkarasi, Head of the Department, Department of Electronics and Communication Engineering delivered the welcome address and briefed on the recent trends and usage of Communication, Networking and Intelligence in various areas of applications.

Mr.T.Pasupathi, AP/ECE organizing secretary introduced the Chief Guest. The Chief Guest released the conference proceedings. Dr. Joe Louis Paul delivered the inaugural address on **Living and Computing on the Edge – An Overview of Federated Learning**. During his talk, he shared information about the challenges and advancements related to engineering fields, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field.

He explained the concept of Federated Learning which is a machine learning approach that trains models collaboratively and aims to prevent data leakage by using differential privacy and decentralized data. Federated Learning also allows an individual's data to remain anonymous while helping build powerful models. Also he explained about the recent trends, growth, future scope, ongoing projects and research in the field of Engineering. At the end of inaugural function, he thanked the management, Secretary, Principal, Vice Principal, Chief Guest, HOD, staff members and participants.

The technical session started at 11.30 am in both online and offline mode. Mr.T.Jayaseelan, AP/ECE, Mr.P.Rajapirian, AP/ECE acted as a Jury for the presentation. The evaluation was based on the presentation, concept and implementation and the answers given to the queries. After the technical session, the participants shared their feedback about the conference. Certificates were distributed to the participants.


CONFERENCE COORDINATORS
Mr.T.Pasupathi


HOD/ECE
H.O.D.
ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613 303
PUNALKULAM TALUK, PUDUCHERRY


PRINCIPAL
PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303.

CONFERENCE POSTER

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Puducherry Government of Puducherry, Puducherry - 605 006

National Conference
on
**Communication
Networking &
Intelligence**
(NCCNTI-22)

10-06-2022
Jointly organised by
**Department of
Electronics & Communication
Engineering
and**

IEEE Madras Section
STB 16621

Advisory Committee

Dr. S. Raghavan, IIT, Trichy
Dr. N. Sivakumaran, IIT, Trichy
Dr. P. Murugesan, IIT, Trichy
Dr. A. Sivasubramanian, AICTE, Karaikal
Dr. S. Krishnakumar, DRDO, Chennai
Dr. S. Suresh, Anna University, Bangalore
Dr. D. Jayaram, ORIET, Hyderabad
Dr. D. Kumar, PMST, Thanjavur

Technical Committee

Dr. K. Prabu, IIT, Karaikal
Dr. M. Arunachalam, PKIET, Karaikal
Dr. T. Jeyaraj, AUBT, Trichy
Dr. V. Sakthivel, IIT, Chennai
Dr. R. Vigneshwaran, KCE, Coimbatore
Dr. C. Venkita, SCE, Trichy
Dr. S. Albert Alexander, KEC, Perundurai
Dr. J. Baskaran, KEC, Kuppam
Dr. M. Mahesh, Veech, Hyderabad
Dr. Robinson, MZCE, Pudukkottai

Organizing Committee

Chief Patron
Dr. R. Rajendran, Secretary, KCE
Shri. T.R.S. Mathukumaran, CEO, KCE

Patron

Dr. J. Arputha Vijaya Selva, Principal, KCE

Co-Patron

Dr. S. Sivakumar, Vice Principal, KCE

Conference Chair

Mr. N. Mangaiyarkarasi, HOD ECE, KCE

Organizing Secretaries

Mr. T. Pasupathi, AP ECE, KCE
Mr. S. Sivakumar, AP ECE, KCE

Conference Topics (but not limited to)

1. Digital Communication
2. Ad Hoc & Sensor Networks
3. Artificial Intelligence and Robotics
4. Neural Networks
5. Biomedical Imaging
6. Microwave & Antenna Design
7. Low Power VLSI/ULSI Testing
8. Cognitive Radio and Networks
9. Mobile Ad-hoc and Wireless Sensor Networks
10. Optical Networks and Systems
11. Embedded Systems Design
12. Soft Computing Techniques and applications
13. Mobile Satellite Communications

For Further Information Contact

The Coordinator - NCCNTI22
Department of ECE,
Kings College of Engineering
Puducherry, Gandarvakkottai (K)
Puducherry District

☎ 98941 01645, 73305 16643

✉ nccnti22@gmail.com

📍 Thanjavur - Pudukkottai Highway

🌐 www.kingsengg.edu.in

About the College

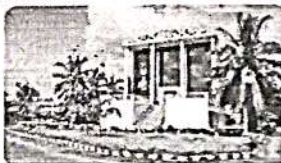
Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and under-privileged students of this region. KCE was established in the year 2001 and run by Raj Educational Trust (RET). KCE is approved by All India Council of Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennai. Our institution offers 5 UG Programmes and 4 PG Programmes. The college maintains high standard of education by providing a wide array of world class academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive of quality education.

About the Department

The Department of Electronics and Communication Engineering was established with state of art laboratories in the year 2001. It is continuously upgrading the infrastructure and laboratory facilities with the emerging technology as per the industrial needs. The Department of Electronics and Communication Engineering is recognized as research center for collaborative research by Anna University, Chennai. A significant number of research projects funded by government and non-government organizations viz. DRDO, MCT, AICTE, New Delhi, INSIST, Chennai and Texas Instruments USA have been successfully carried out.

About the Conference

This Conference offers a forum for the exchange of scientific and technical innovative concepts and new ideas in the areas of Communication, Networking and Intelligence. Also it promotes an affable environment facilitating academicians, industry experts and scholars to exchange their research ideas for collaborative work. Original research papers are invited.



Important Dates:

Submission of Full paper : 03-06-22
Date of Acceptance : 06-06-22
Last date of Registration : 08-06-22

Registration Fee:

UG/PG Students : Rs. 500/-
Faculty members :
Research scholars : Rs. 750/-

Author Guidelines:

Authors are requested to submit original and unpublished, camera ready paper in IEEE format, not exceeding 6 pages to nccnti22@kingsengg.edu.in. All selected papers will be included in the proceedings of the conference with ISBN.

Registration Form

Name	:	
Degree	:	
Department	:	
Institution	:	
Institution Address	:	
email ID	:	
Mobile Number	:	
Registration Fee	:	
Payment Details	:	
Signature of the Candidate		
Declaration		
Mr./Ms./Dr.	:	
of	:	
our institution is sponsored for the programme		
Signature of HOD/Principal		

Department of Electronics and Communication Engineering
National Conference on Communication, Networking and Intelligence (NCCNI-2022)
Registered Papers

Session:02

Date: 10.06.2022

Mode: Online

S.No	Name of the Participant(s)	Name of the College	Title of the Paper:	Time	Presentation Link
1.	A.Shahira, P.Sivaranjani, M.R.Saraswathi	Anjalai Ammal Mahalingam Engineering, Kovilvenni,	Detection of Aluminium Scraps using Image Processing for Production of H2	11.00 a.m- 11.12 a.m	
2.	Jayabharathi. S, Harivardhini. S, Shakithiya.K, Familiarufi. S	Anjalai Ammal Mahalingam Engineering College, Kovilvenni. Thiruvavur.	Crop recommendation system using Machine learning	11.13 a.m- 11.25 a.m	
3.	Mahalakshmi.R,Mathu mitha.A	Parisutham Institute of Technology And Science, Thanjavur	Nanobots	11.26 a.m- 11.42 a.m	
4.	Solangkili.K , Reethiga.V.E, Shaheen Begum.A ,Ilakkiya.N ,Jaya.S	Arasu Engineering College,Kumbakonam	Bot for health care and diagnosis	11.43 a.m- 11.57 a.m	
5.	P.L Ambiga , S.Asmitha	Parisutham Institute Of Technology And Science, Thanjavur	Lifi technology	11.58 a.m- 12.12 p.m	https://meet.google.com/rcv-ewtn-jdo
6.	R. Raaghul, K. Swedha Bharathi R. Hinduja	Analysis of transient and Voltage stability enhancement	Parisutham Institute Of Technology And Science, Thanjavur	12.13-12.27 p.m	https://meet.google.com/rcv-ewtn-jdo



Department of Electronics and Communication Engineering
National Conference on Communication, Networking and Intelligence (NCCNI-2022)
Registered Papers

Session:01

Date: 10.06.2022

Mode: Online

S.No	Name of the Participant(s)	Name of the College	Title of the Paper:	Time	Presentation Link
1.	D.Rahul, R.Rajesh Kannan, J.Mohamed Shahil, A.Ajmaludeen	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	Simulation And Modeling of The Electric Vehicle	11.00 a.m-11.12 a.m	https://meet.google.com/vjr-miyf-zws
2.	S.Surya.R.Rajasakthivelan,S. Vijay.P.Rajeshkumar	Anjaliammall Mahalingam Engineering College Kovilvenni,Thiruvarur	IOT based smart grid integrated solar power system	11.13 a.m-11.25 a.m	
3.	Karthikeyan.M, Guruvankatesh.N, Aravind.P, Prasanna.K	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	A Novel SSIN Based Boost Converter For Low Voltage, DC Source Integration	11.26 a.m-11.42 a.m	
4.	S.R.Yogamalini, Rasi.A.Prakashika	Parisutham Institute of Technology And Science, Thanjavur	IOT based temperature monitoring system for pharmaceutical company	11.43 a.m-11.57 a.m	
5.	Aarabi Ravichandran, Brindha. S. T, Devadharshini. E, Bhavanisha. S	Anjalai Ammal Mahalingam Engineering College- Kovilvenni	Incidence of fatal pedestrian collision avoidance and vehicle speed control	11.58 a.m-12.12 p.m	https://meet.google.com/vjr-miyf-zws
6.	Rinisha.M, Thiyageswari.K Oviya .D, Tamilazhagi .R	Anjalai Ammal Mahalingam Engineering College, Kovilvenni Thiruvarur	Brain tumor detection using CNN	12.12 p.m-12.26 p.m	
7.	R. Balasubramanian, B. Sakthivel, K. Ragul, V. Balamurugan	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	Radiologist API for Respiratory Disease Classification and Grade Prediction using Deep Learning Model	12.27 p.m-12.41 p.m	
8.	N.Farhana Sirin, K.Iswarya, R.Monika, A.Lavanya	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	Heart failure prognosis using Support vector machine	12.42-12.54 p.m	

INVITATION



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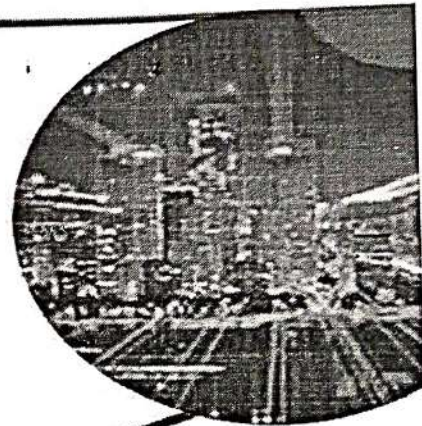
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Punakkulam, Gandarvakottai (Tk), Near Thanjavur, Pudukkottai - 613303



National Conference on Communication, Networking and Intelligence Organized by Department of Electronics and Communication Engineering



Dr. I. Joe Louis Paul
Associate Professor
Department of Information Technology
SSN College of Engineering
Chennai



10.06.2022 Friday
09:45 a.m. - 10:30 a.m.
ECE Smart Classroom

Organizing Secretaries

Mr. T. Pasupathi, AP/ECE Mr. S. Sivakumar, AP/ECE

Conference Chair

Mrs. N. Mangaiyarkarasi
HOD/ECE

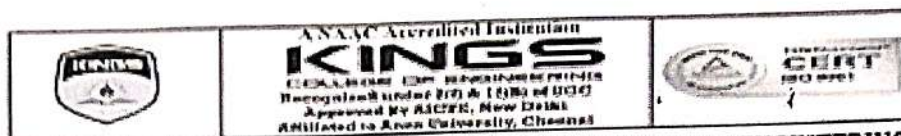
Patron

Dr. J. Arputha Vijaya Selvi
Principal

All are Invited

ANNEXURE - V

AGENDA



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

National Conference on Communication, Networking and Intelligence (NCCNI'22)

AGENDA

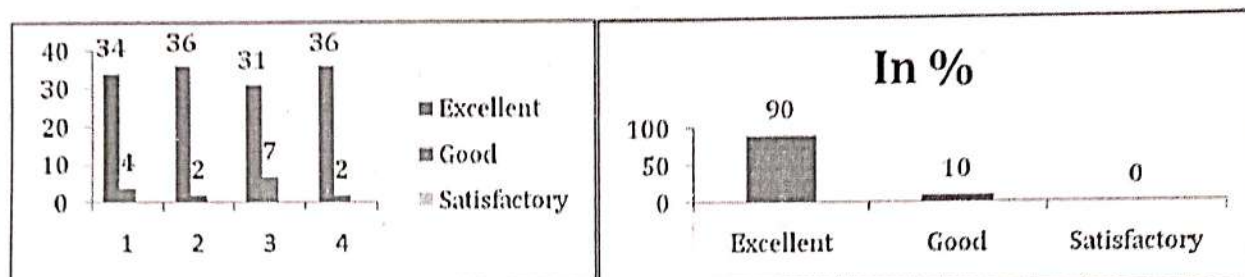
Date: 10.06.2022

Venue: Virtual Mode

10.00 - 10.10	Welcome Address	<i>Mrs.N.Mangaiyarkarasi</i> HoD, KCE.
10.11 - 10.16	Presidential Address	<i>Dr.J.Arputha Vijaya Selvi</i> Principal, KCE.
10.21 - 10.23	Introduction to Chief Guest	<i>Mr.T.Pasupathi</i> Asst.Prof.ECE, KCE.
10.24 - 11.10	Key note speaker	<i>Dr.J.Joe Louis Paul</i> , Associate Professor Department of Information Technology SSN College of Engineering Chennai, Tamil Nadu.
11.11 - 11.15	Vote of Thanks	<i>Mr.S.Sivakumar</i> Asst.Prof, KCE.
11.20 - 01.00	Session - starts	Participants

FEEDBACK ANALYSIS

Q.NO	Excellent	Good	Satisfactory
1	34	04	0
2	36	02	0
3	31	07	0
4	36	02	0
Total	137	15	0
In %	90	10	0



Overall Analysis



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2021-22 (Even Sem)

IEEE STUDENTS BRANCH STB 16621- September, 2021

INTERNAL STAFF TECHNICAL SEMINAR

22.04.2022

Summary of the seminar:

Department of Electronics and Communication Engineering in association with IEEE student branch (16621) organized an Internal Seminar on 22.04.2022 at 01:00PM for the teaching staffs of Department of ECE to provide a platform to get exposure in the field of recent trends in Electronics and Communication Engineering by accessing online journals facility available at our campus. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculties. Mr.R.Thandayuthapani, Assistant Professor/ECE delivered a talk on "Healthcare Applications using Wireless Sensor Networks". 08 faculties of ECE were attended the seminar.

Online Journal Paper Referred: Naila Nawaz Malik, Wael Alosaimi, M. Irfan Uddin, Bader Alouffi, Hashem Alyami, "Wireless Sensor Network Applications in Healthcare and Precision Agriculture", Journal of Healthcare Engineering, vol. 2020, Article ID 8836613, 9 pages, 2020. <https://doi.org/10.1155/2020/8836613>

Aim and the themes discussed:

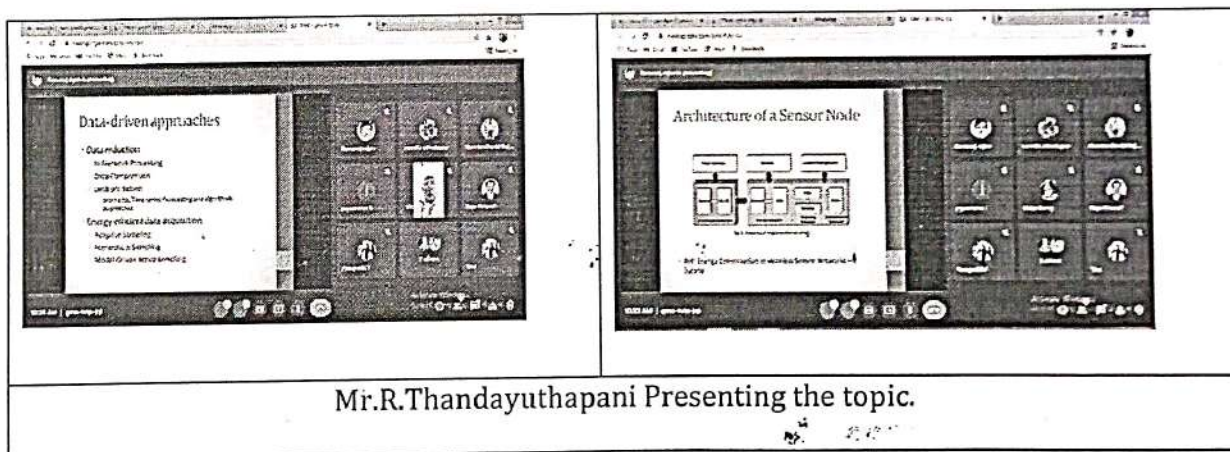
Nowadays, wireless sensor networks are becoming increasingly important in several sectors including industry, transportation, environment and medicine. Autonomous energy supply is thereby an essential aspect as it decides the flexible positioning and easy maintenance, which are decisive for the acceptance of this technology, its wide use and sustainability.

Significant improvements made in the last years have shown interesting possibilities for realizing energy-aware wireless sensor nodes (WSNs) by designing manifold and highly efficient energy converters and reducing energy consumption of hardware, software and communication protocols.

Using only a few of these techniques or focusing on only one aspect is not sufficient to realize practicable and market relevant solutions. This seminar therefore provides a comprehensive review on system design for battery-free and energy-aware WSN, making use of ambient energy or wireless energy transmission. Also addresses energy supply strategies and gives a deep insight in energy management methods as well as possibilities for energy saving on node and network level.

Outcomes

- The seminar provides deep insight into system design and increase awareness of suitable techniques for realizing battery-free and energy-aware wireless sensor nodes and to introduce the basics of Wireless Sensor Networks (WSN), Classification, Topologies and Applications.
- The seminar briefed the following,
 - (1) Telemedicine applications,
 - (2) monitoring patients both in the clinical setting and at home,
 - (3) Sensors used to capture the data from hospital environment named heart beat sensor, body temperature sensor, room temperature sensor, CO sensor, and CO₂ sensor



T. P. Srinivasan
Staff In charge 26/4/22

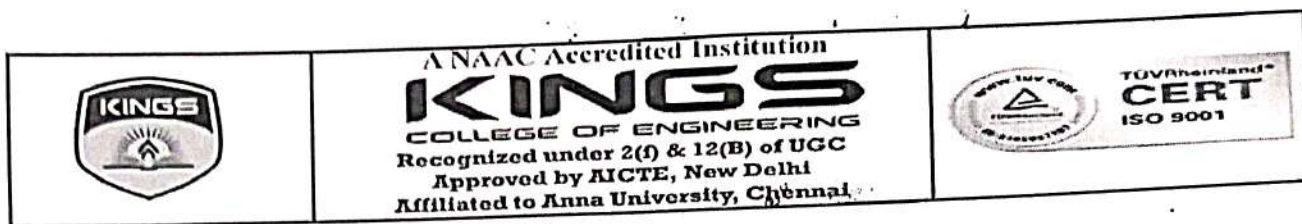
J. Rami
26/4/2022

Principal

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303.

HOD 26/4/2022

H.O.D.
ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613 303.
SANDYAKOTTAI TALUK, PUDUCHERRY



**Department of Electronics and Communication Engineering & IEEE
Student Branch (STB 16621)**


**Expert talk on Evaluation of Electric Vehicles, Future Challenges &
Opportunities**

Department of ECE in association with IEEE Student Branch (STB 16621) has organized a Expert talk on "Evaluation of Electric Vehicles, Future Challenges & Opportunities" on 09th May, 2022 in view of National Technology day. The objective of this talk is to impart in depth knowledge on Electric Vehicles, Challenges during the design and Opportunities.


Ms.S.Aparnaa, Final Year ECE welcomed the participants and Ms.K.Gayathri, Third year ECE introduced the resource person. Dr. Rajesh M. Pindoriya Project Engineer at IIT Mandi, India, delivered the expert talk on Evaluation of Electric Vehicles, Future Challenges & Opportunities. In his lecture, he covered the following topics,

- Working Of Electric Vehicle
- Electric Vehicle hardware - Fundamentals of motor components and its functioning,
- Communication and coordination
- Electric vehicle supply equipment (EVSE) standards
- EV battery and fire safety standards
- Installation and EV equipment issues
- Practical Demonstration of EV charging components, motor
- Challenges & Opportunities in EV sector


In this seminar, 167 participants from various Institutions including the internal participants participated and got benefitted. Participant's queries were addressed by the resource person at the end of the session.



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Postgraduate, Undergraduate (UG), New Engineering, Postgraduate - AIIT/MS




IEEE
MEMBER SECTION




21
Years
of
Service


Research & Development Section
organizes

IEEE EXPERT TALK
Evaluation of Electric Vehicles,
Future Challenges & Opportunities





Dr. Rajesh M. Pindoriya
School of Computing and Electrical Engineering
Indian Institute of Technology Mandi, India

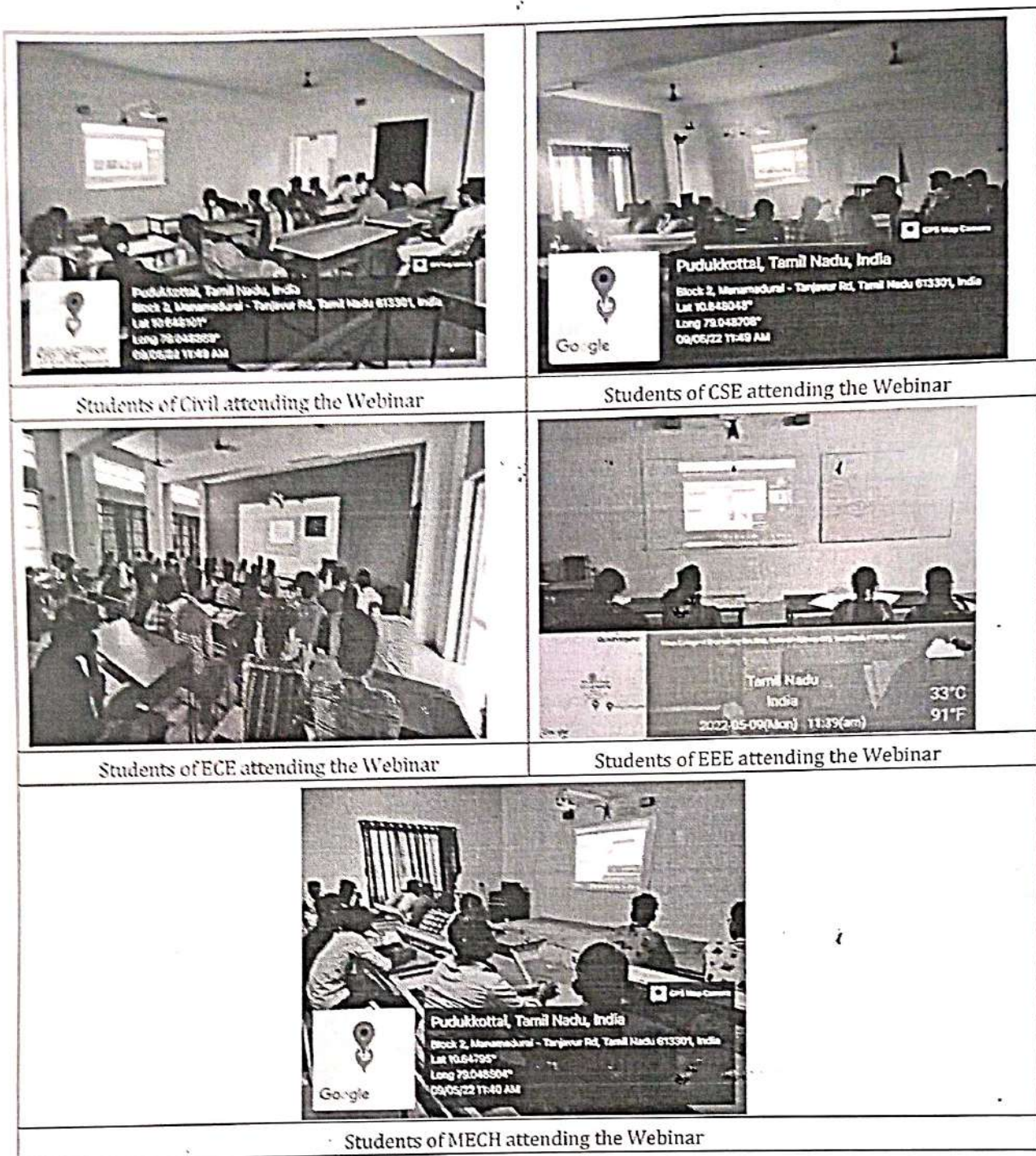
09.05.22 11:30 a.m.
 **Pallava Hall**

Dr. P. Narasimman, AP/EEE
Mr. T. Pasupathi, AP/ECE
Mr. J. Niranjan Samuel, JRF/R&D

Dr. P. P. Shantharaman
DRC Convenor


Dr. J. Arputha Vijaya Selvi
Principal

~~Feedback Summary~~



T. P. Srinivasan
Coordinator

J. Praveen
11/5/2022
PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303


11/5/2022
HOD

H.O.D.
ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613 303,
GANBARYAROTTAI TALUK, PUDUKKOTAI DISTRICT



Pasupathi T <pasu.tamil@gmail.com>

Request for consent - reg

Niranjan Samuel J <niranjansamuel@kingsengg.edu.in>
To: rajeshpindoriya@gmail.com
Cc: pasu.tamil@gmail.com

Thu, May 5, 2022 at 8:27 PM

Sir,

Greetings from Kings College of Engineering - IEEE STB 16621

Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and underprivileged students. KCE is approved by All India Council for Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennai. The institution was established in the year 2001 on a sprawling campus of around 60 acres on the Thanjavur-Pudukkottai Highway and run by Raj Educational Trust (RET). The institution offers six U.G and four P.G programmes and is certified with ISO 9001:2008.

IEEE Student Branch in association with R&D Section is observing National Technology Day on 11.05.2022. In connection with we would like to invite you to deliver a lecture of one hour duration in the webinar scheduled on 09.05.2022 (11:30 - 12:30 p.m.)

Expecting a favourable reply in this regard.

Kindly send us your profile.

Thank you,

Regards,

J. Niranjan Samuel
JRF/ECE-R&D
Coordinator - Social Media & Press
Incharge - IEEE STB 16621
Kings College of Engineering
Punalkulam, Near Thanjavur



Pasupathi T <pasu.tamil@gmail.com>

Request for consent - reg

Rajesh Pindoriya <rajeshpindoriya@gmail.com>
To: Niranjan Samuel J <niranjansamuel@kingsengg.edu.in>
Cc: pasu.tamil@gmail.com

Fri, May 6, 2022 at 7:29 AM

Dear Niranjan Sir,

Thank you so much for your email and invitation to the IEEE Expert talk. I would like to accept your invitation.

I would like to give IEEE Expert talk on "Evaluation of Electric Vehicles, future challenges, and opportunities".
I have attached my brief biodata with this mail, please find the attachment.
If you need any further information, please let me know.

Thanks and Regards,
Rajesh

[Quoted text hidden]

Dr. Rajesh M. Pindoriya,
Project Engineer,
Mentor, IEEE Student Branch IIT Mandi
Member IEEE, MIE(I), MIETE
Indian Institute of Technology Mandi (IIT Mandi)
Mandi - 175075, Himachal Pradesh, India
Website: mpindoriya.weebly.com
Google Scholar, Research Gate

2 attachments

Image_Rajesh.JPG
7336K

Speaker Biodata.pdf
115K

Speaker Biodata

Dr. Rajesh M. Pindoriya (GM'14 - M'20) received the B. Tech degree in Electrical and Electronics Engineering from Rajasthan Technical University Kota, Rajasthan, India in 2012 and M. E. in Power Electronics and Electrical Drives from Gujarat Technological University, Ahmedabad, Gujarat, India in 2014. He received a Ph.D. degree in Power Electronics and Electrical Drives from the Indian Institute of Technology Mandi, India, in 2020. He is currently working as a Project Engineer at IIT Mandi, India.

His present interests and expertise are being inclined (but not limited) towards, controlling special electrical motors such as Permanent Magnet Synchronous Motor (PMSM) and Brushless Direct Current (BLDC) motor and Switched Reluctance Motor (SRM) drives for the application in Electric Vehicles (EVs) and Hybrid Electric Vehicles (HEVs). He is also working on the design of novel power electronics modulation techniques for the reduction of acoustic noise and vibration of special electrical motors.

Dr. Pindoriya is a founding chairperson of IEEE PELS, SIGHT Student Branch chapter IIT Mandi. He is a currently mentor of IEEE Student Branch IIT Mandi. He is a member and executive at large member of PELS Student Subcommittee and PELS YP, respectively. Dr. Pindoriya is a Member of IEEE, a Member of the Institution of Electronics and Telecommunication Engineers (IETE) (AM'17-M'21), a Member of the Institution of Engineering (IE) (AM'17-M'21).

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

Sl. No.	Date	Details	Beneficiaries	Page No
EEE				
1.	22.09.2021	Guest lecture on "Microcontroller & Its IoT Applications"	24	1
2.	28.10.2021	National level technical symposium "ENIGMA-2021"	45	3
3.	18.08.2021	Orientation Programme for II,III,IV Year EEE students	60	7
4.	23.08.2021 - 25.08.2021	Bridge course for III year EEE students	09	10
5.	8.11.2021 & 9.11.2021	Two days FDP on "Smart Grids -Trends and Future Perspective"	85	13
6.	09.10.2021	Webinar on "Internet of Energy"	92	23
7.	18.09.2021	Webinar on "Motivational Talk"	53	27
8.	17.11.2021	Internal seminar on "Generation of Power Using Gravity"	07	30
9.	29.10.2021	Webinar on "Career Guidance-Government Job Through Sports Quota"	50	32
10.	08.12.2021	Internal seminar on "Competitive Swarm Optimizer"	07	35
11.	25.09.2021	Internal seminar on "Overview of Hybrid Electric vehicle Trend"	62	38
12.	09.10.2021	Internal seminar on "Introduction to Neural Networks"	62	41
13.	21.02.2022- 25.02.2022	Internal seminar on "Alternate Source of Energy"	52	44
14.	23.10.2021	Internal seminar on "Industrial Automation"	50	49
15.	30.11.2021	Internal seminar on "Multilevel Inverter"	52	52
16.	08.12.2021	Internal seminar on "5G Technology"	40	54
17.	16.06.2022	Guest lecture on "Application of Power Electronics in Power System"	40	56
18.	10.06.2022	National Conference on "Flourishing Areas in Electrical and Electronics Engineering (NACOFEE'22)"	50	60
19.	15.06.2022	Webinar on "Microbial fuel cell"	60	66
20.	31.03.2022	Internal seminar on "DC-DC Converter Topologies for Electric Vehicles and Fast charging Stations: State of the Art and Future Trends"	07	69
21.	25.03.2022	Internal seminar on "Smart Grid Security"	07	72
22.	28.04.2022	Internal seminar on "PI controlling of Air Conditioning System"	07	75
23.	29.04.2022	Internal seminar on "Internet of Flying Things"	07	78
24.	06.04.2022	Internal seminar on "IoT Based Electric Vehicle"	42	
25.	23.05.2022	Internal seminar on "Hybrid Energy Systems"	52	81
26.	23.05.2022	Internal seminar on "Circuit Simulation"	52	84
27.	23.04.2022	Internal seminar on "Expert Systems"	62	89
28.	13.05.2022	Internal seminar on "Green Technologies"	35	92
29.	12.05.2022	Internal seminar on "Real Time Application on embedded Systems"	52	95



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on

“MICROCONTROLLERS AND ITS IOT APPLICATIONS”

REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on **‘Microcontrollers and its IOT Applications’** on 22nd September, 2021.

Beneficiaries : III Year Students (9) & IV Year Students (15)

Session Time : 05.00 P.M to 6.00 P.M

Venue : Online (Google meet)

Resource Person : Mr. R. Raghuraman, M.E.

Assistant Professor /EEE

CK College of Engineering & Technology, Cuddalore.

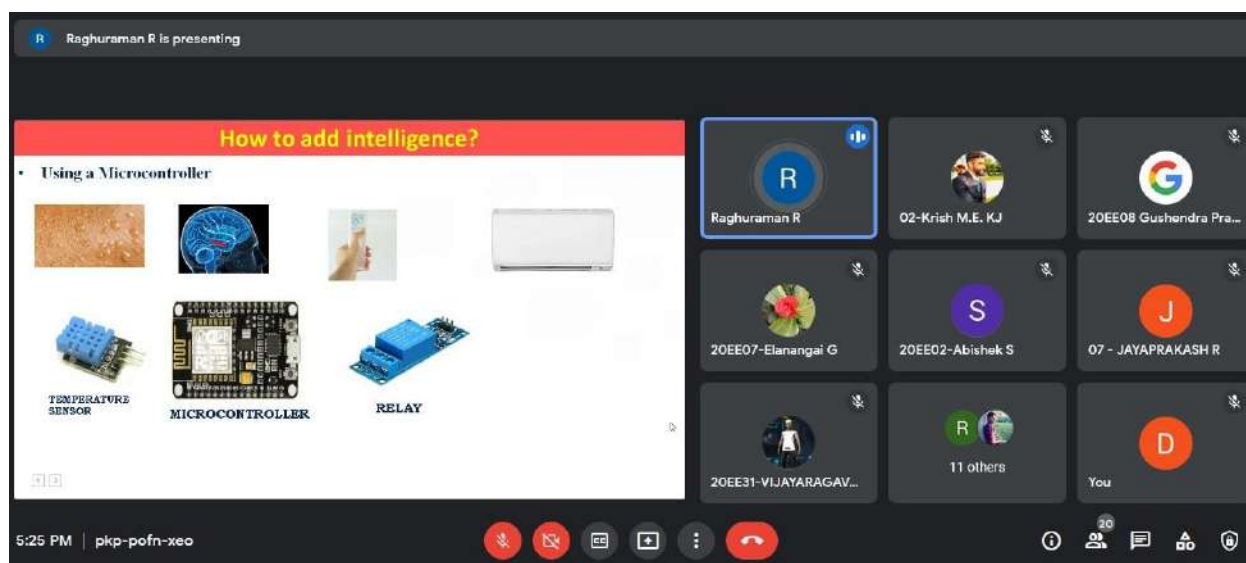
The objective of this Guest Lecture is to impart fundamental knowledge on Microcontrollers and its varied IOT applications.

The resource person started the session with the interaction with the students about their knowledge and idea on (Internet of things) IOT in our day today life. First of all he educated the students with the difference between the computational intelligence and an IOT in automation industry. Then he moved on to brief the basic structure of IOT applications and explained each and every component involved in hardware setup of an IOT set up. He gave some idea on various microcontrollers which is the heart of any automation unit and also explained one such dominantly used microcontroller i.e. Arduino Uno Microcontroller Board in academic researches. After briefing the hardware details of Arduino UNO, he explained few coding ideas and programming platforms for microcontrollers.

He followed up with the concepts of interfacing Microcontroller Board with other electrical hardware elements and communication devices. Further, he provided basic knowledge of various sensing elements, communication devices and other hardware components available in the markets for doing a project. He shown and explained the process involved in home automation using IOT and he also displayed few completed projects under his supervision to the students. This gave some potential inputs and ideas to students for their initiation in mini projects and final year projects using microcontrollers and its application in IOT. Finally he gave few tips to choose the projects using microcontrollers and the possibilities of getting funds for these projects.

He also stressed the importance of introducing new products to the market through these projects. And he invited the queries and doubts from the students for discussion and clarification. The guest lecture was completely motivating and it kindled student's interest towards this growing technology and its impact on day today life. This session is absolutely very useful to student community and it serves as greater input to their final year projects.

Photographs of Lecture Sessions





A REPORT
ON
“NATIONAL LEVEL TECHNICAL e-SYMPOSIUM”
ENIGMA - 2K21

Organized by
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Punalkulam, Gandarvakkottai taluk

Pudukkottai district-613303

Ph: 04362 282472, 282395, 282396

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

National Level Technical e-symposium **ENIGMA-2k21**

REPORT

THROUGH : Google meet (meet.google.com/sar-uehp-tpf) Date: 28.10.2021

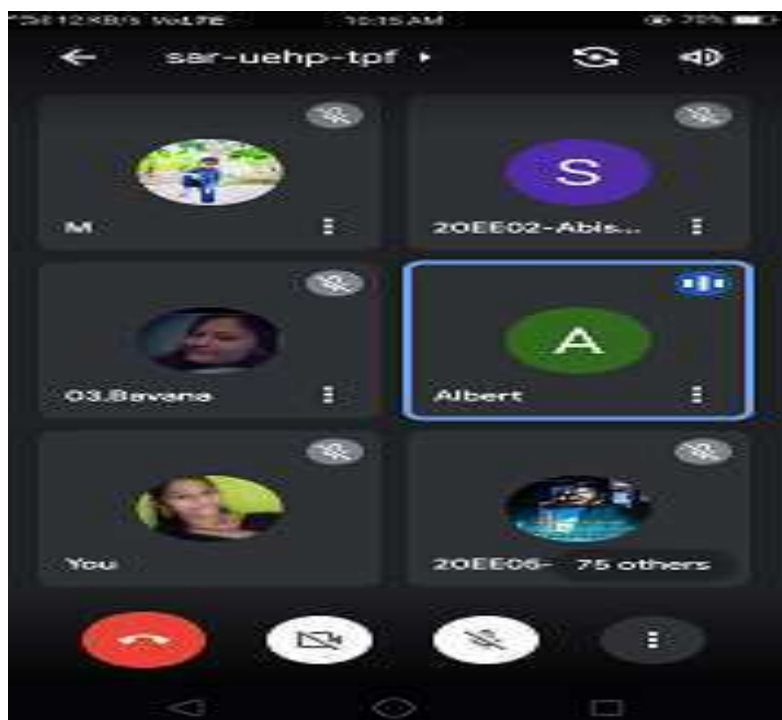
BACKGROUND & OBJECTIVE

Department of Electrical and Electronics Engineering, Kings College of Engineering organised a One day National level Technical Symposium titled “**ENIGMA 2k21**” on 28th Oct 2021.

It aims to provide a platform for the students across our country to express their ideas and technical skills in Electrical and Electronics Engineering. The symposium focuses to articulate new ideas in distinguished Electrical and Electronics field and to result with the sharing knowledge among the participants. Various students from 10 Engineering colleges were actively participated in the symposium.

INAUGURAL SESSION

The Symposium was inaugurated by the Chief Guest at inaugural function, Mr.R.Raghuraman, Assistant professor of CK college of Engineering and Technology. As every function starts in a auspicious way, the symposium was inaugurated with the prayer song. As many as 45 participants from various Engineering Colleges participated in the symposium.



WELCOME SESSION

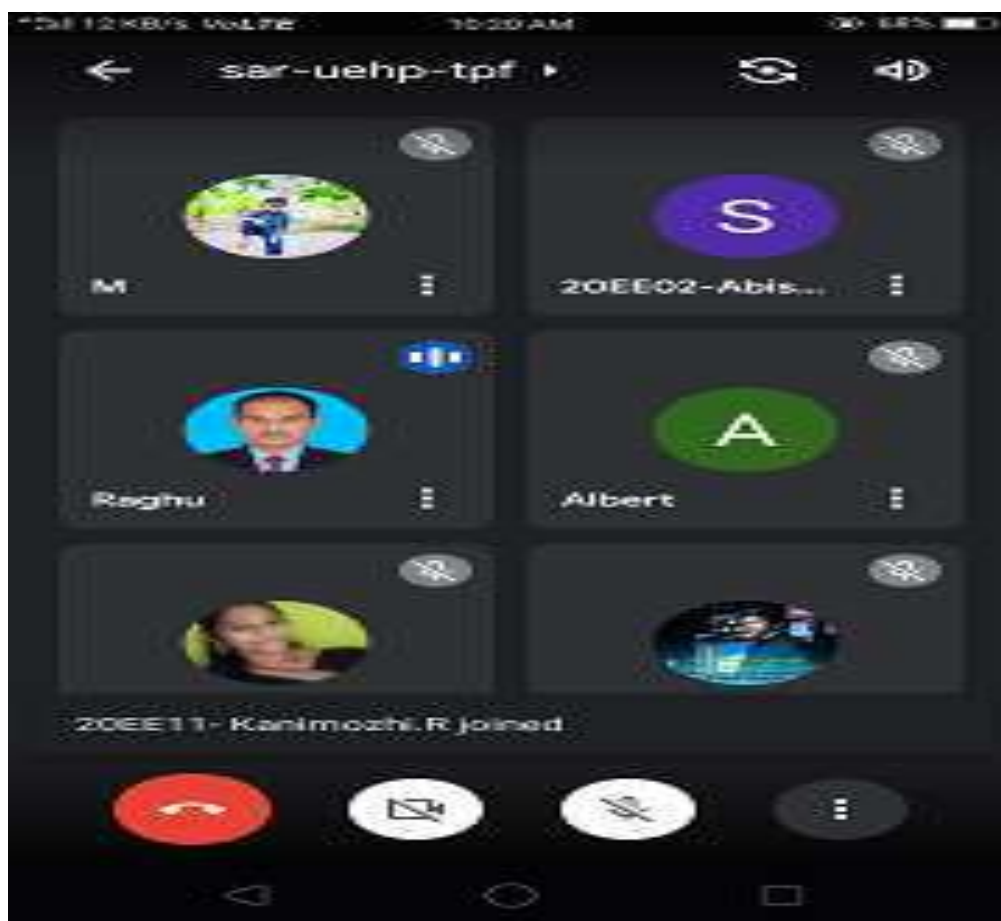
The welcome address was given by Mrs.P.Thirumagal/AP EEE, Symposium co-ordinator ENIGMA-2k21. She welcomed the Chief Guest, HoD, Principal, faculty members and the students from various colleges. She also added that he is very much delighted to see more external participants from various reputed colleges.

INTRODUCING THE CHIEF GUEST

The Chief Guest was introduced by Ms.C.Senthamilarasi, Symposium co-ordinator, ENIGMA 2k21. She elaborated the qualification and work experience of the chief guest. She also detailed about his project works and various responsibilities held by the chief guest.

KEY NOTE ADDRESS

The chief guest Mr.R.Raghuraman, Assistant professor of CK college of Engineering and Technology, Cuddalore has delivered the key note Address. He motivated students about the Electrical and Electronics Engineering scopes and higher studies. It was educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.



Chief Guest delivering key note address

DEPARTMENT PROMO

Students from final years have made and released the department promo about our department highlights.

EVENTS

Then the Events sessions were started. Symposium events like Paper Presentation, Poster presentation, Technical Quiz, puzzles, Connection were conducted. Students eagerly participated in all the events and competed for the best performances. All events were successfully completed within the stipulated time schedule.

There were total 17 paper presentations covering research areas in the field of Electrical Engineering.

Paper presentation, poster present through Google meet link (https://meet.google.com/_sar-uehp-tpf) & two rounds were conducted for technical quiz, code cracking though Google meet link and then the shortlisted students were announced as winners.



Paper presentation by internal participants



Paper presentation by External participants

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022(ODD)**

REPORT of ORIENTATION PROGRAMME @ 18.08.2021

Department of EEE organized the Orientation Programme for second year, Third Year and Final year EEE students on 18.8.2021. The main objective of the orientation programme is to provide introduction about Electrical and Electronics Engineering subjects as per Anna University curriculum, Job opportunities, Certification, Curricular activities, Clubs & Societies, GATE, T&P, IHT Initiatives, VAC and overview of technical skills in the field of Electrical Engineering.

AGENDA

PROGRAMME SCHEDULE for II EEE:

TIME	PROGRAMME	FACULTY INCHARGE
9.30 A.M - 9.45 A.M	Introduction about EEE Department and Achievements	Dr.A.Albert Martin Ruban HOD/EEE
9.45 A.M - 10.30 A.M	T&P Training system	Dr. K. Sudhakar, AP/T&P Dept.
10.45 A.M - 11.45 A.M	Anna University curriculum	Mr. J. Arokiaraj, AP/EEE
12.00 P.M - 1.00 P.M	Certifications(SWAYAM, NPTEL, MOOCs), Gate Orientation	Dr. P.Narasimman, AP/EEE
1.45 P.M - 2.45 P.M	Job Opportunities, Co- curricular, Extra- curricular activities, Clubs	Mr.R.Sundaramoorthi, AP/EEE
3.00 P.M - 03.30 P.M	Industrial scope for EEE	Er. M. Arutpraksh, Senior Engineer, Testing & Commissioning, INEL Power System Engineers, Chennai.
3.30 P.M - 04.00 P.M	Internship & IHT Initiatives, VAC	Mr.S.R.Karthikeyan AP/EEE

PROGRAMME SCHEDULE for III & IV EEE:

TIME	PROGRAMME	FACULTY INCHARGE
9.30 A.M - 9.45 A.M	Introduction about EEE Department and Achievements	Dr.A.Albert Martin Ruban HOD/EEE
9.45 A.M - 10.30 A.M	Anna University curriculum	Mr.S.R.Karthikeyan AP/EEE
10.45 A.M - 11.45 A.M	T&P Training system	Dr. K. Sudhakar, AP/T&P Dept.
12.00 P.M - 1.00 P.M	Certifications(SWAYAM, NPTEL, MOOCs), Gate Orientation	Dr. P.Narasimman, AP/EEE,,
1.45 P.M - 2.45 P.M	Job Opportunities, Co- curricular, Extra- curricular activities, Clubs	Mr.R.Sundaramoorthi, AP/EEE,,
3.00 P.M - 03.30 P.M	Industrial scope for EEE	Er. M. Arutpraksh, Senior Engineer, Testing & Commissioning, INEL Power System Engineers, Chennai.
3.30 P.M - 04.00 P.M	Internship & IHT Initiatives, VAC	Mr.S.R.Karthikeyan AP/EEE

COORDINATOR:

Mr.J.Arokiaraj, Assistant Professor/EEE

The program was started with welcome address delivered by Mr.J.Arokiaraj, AP/EEE. In the first session Dr.A.Albert Martin Ruban HOD/EEE has introduced about EEE Department and Achievements. He also interacted with students for their University Examinations Results and performance improvements.

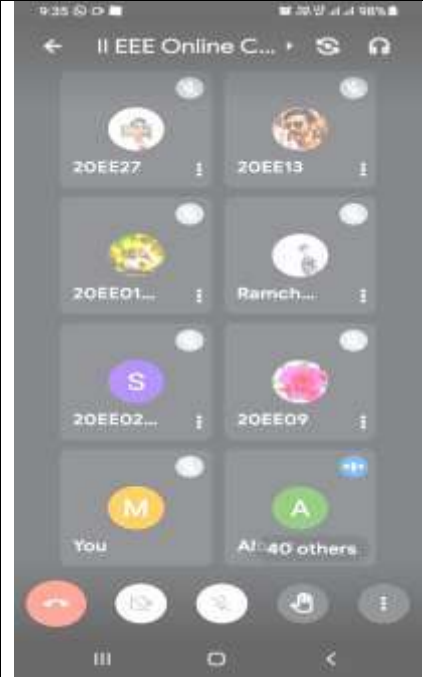
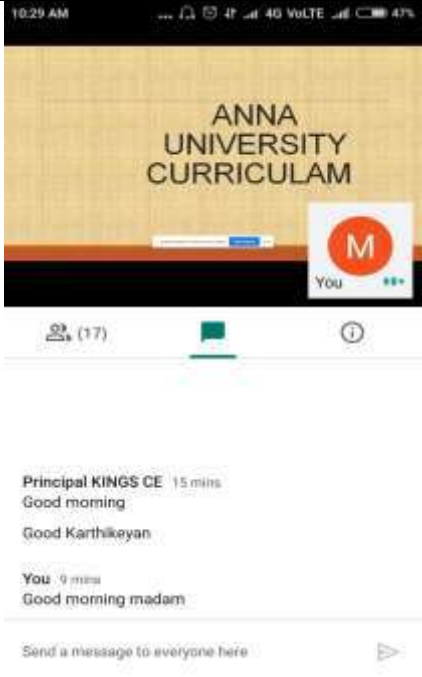

In the second session Dr. K. Sudhakar, AP/T&P Dept. has introduced about T&P activities and plan of action. He also mentioned that Electrical Engineering scope in future and list of passed out students placed in various sectors in the field of Power sectors through placements and off campus interview.

Third session, Mr.J.Arokiaraj and Mr.S.R.Karthkeyan AP/EEE, has given briefed about Anna University curriculum of Electrical Engineering also introduced about the third semester subjects and faculty incharges of all the subjects.

In the Fourth session Dr.P.Narasimman, AP/EEE, has interacted with Certifications (SWAYAM, NPTEL, MOOCs), Gate Orientation. Fifth session Mr.R.Sundaramoorthi, AP/EEE, handled the session regarding Job Opportunities, Co-curricular, Extra- curricular activities, Clubs.

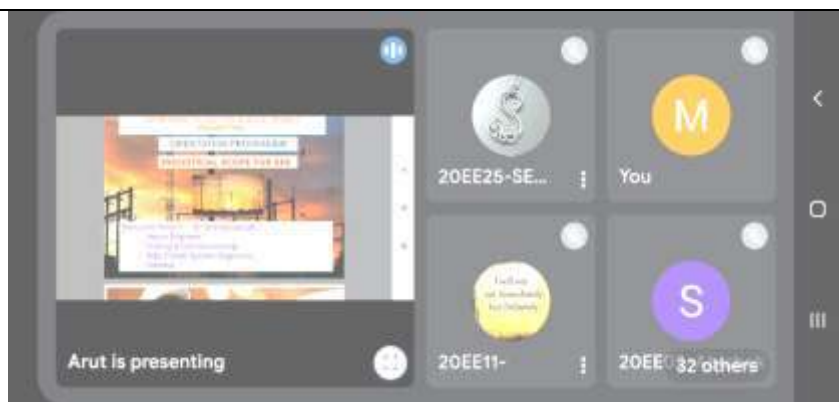
In the sixth session, Er.M.Arutpraksh, Senior Engineer, Testing & Commissioning, INEL Power System Engineers, Chennai has delivered the Industrial scope for EEE in current scenario, students were also interacted and asked questions about basics in Electrical Engineering concepts.

In the seventh session, Mr.S.R.Karthikeyan AP/EEE has given overview of training and Internship & IHT Initiatives, VAC.

		
Dr.A.Albert Martin Ruban HOD/EEE has Introduction about EEE Department and Achievements	Mr.J.Arokiaraj and Mr.S.R.Karthkeyan AP/EEE, has briefed about Anna University curriculum	Dr.P.Narasimman, AP/EEE, has interacted with Certifications (SWAYAM, NPTEL, MOOCs), Gate Orientation.



Mr.R.Sundaramoorthi, AP/EEE, He has started with Job Opportunities, Co-curricular, Extra-curricular activities, Clubs.



Er.M.Arutpraksh, Senior Engineer, Testing & Commissioning, INEL Power System Engineers, Chennai has delivered the Industrial scope for EEE in current scenario.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022(ODD)

REPORT – Bridge Course on Microprocessors & Microcontrollers

Department of Electrical & Electronics Engineering organized the bridge course on EE8551-Microprocessors & Microcontrollers for third year EEE students from 23.08.2021 to 25.08.2021. The main objective of this bridge course is to provide introduction about Microprocessors & Microcontrollers course.

PROGRAMME CONDUCTED PARTICULARS:

DATE	TIMING / DURATION	TOPIC	FACULTY HANDLED
23.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Need & Purpose of Microprocessors & Microcontrollers.	Mr.S.R.Karthikeyan AP/EEE
24.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Introduction to Microprocessors & Microcontrollers.	Dr.M.Meenalochani AP/EEE
25.08.2021	6.00 PM – 7.00 PM (1- HOUR)	Architectures of Microprocessors & Microcontrollers.	Mr.R.Sundaramoorthi AP/EEE

PROGRAMME CONTENT:

Need & Purpose of Microprocessors & Microcontrollers:

The following points were discussed during the session:

- Microcontrollers are optimized to perform a dedicated low-power application
- Ideal for embedded systems.
- Microprocessors are more useful for general computing applications that require more complex and versatile computing operations.
- Difference between microprocessors and microcontrollers.
- Microcontroller is a compressed microcomputer manufactured to control the functions of embedded systems in office machines, robots, home appliances, motor vehicles, and a number of other gadgets.

Introduction to Microprocessors & Microcontrollers:

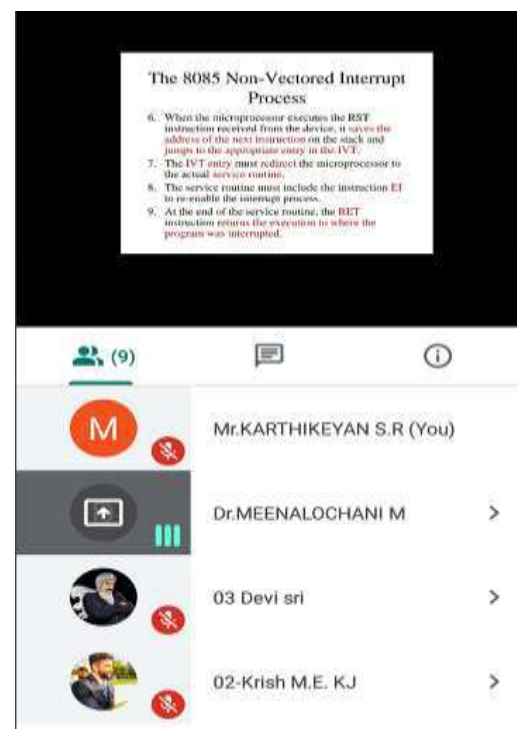
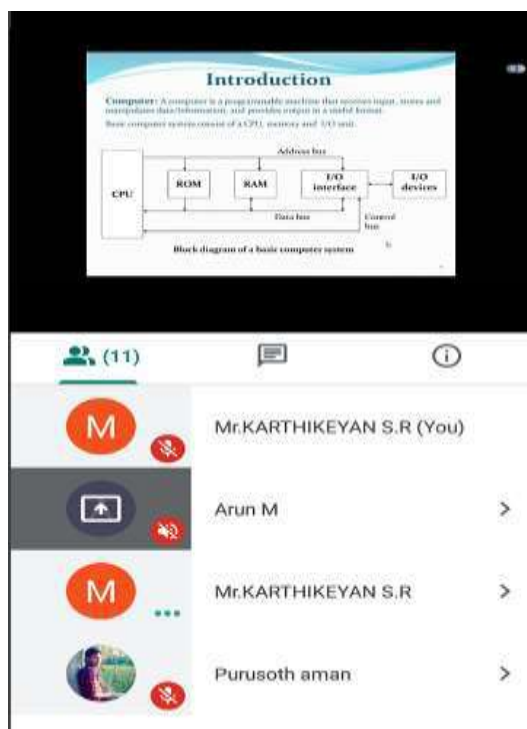
The following points were discussed during the session:

- Classification of microprocessors.
- Instruction set and execution.
- Instruction execution and timing diagram.
- Interrupts.
- Interfacing memory and I/O devices

Architectures of Microprocessors & Microcontrollers:

The following points were discussed during the session:

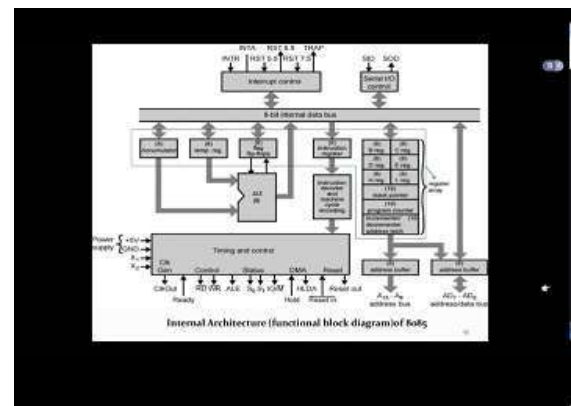
- The microprocessor is the CPU (Central Processing Unit) of a computer. It is the heart of the computer.
- Intel 8085 as it is one of the most popular 8-bit microprocessor.
- It has memory, and can be programmed to do calculations, receive input, and generate output.
- Unlike a PC, it incorporates memory, a CPU, peripherals and I/O interfaces into a single chip.



The 8085 Non-Vectored Interrupt Process

The 8085 recognizes 8 RESTART instructions: RST0 - RST7. Each of these would send the execution to a predetermined hard-wired memory location.

Restart Instruction	Equivalent to
RST0	CALL 0000H
RST1	CALL 0008H
RST2	CALL 0010H
RST3	CALL 0018H
RST4	CALL 0020H
RST5	CALL 0028H
RST6	CALL 0030H
RST7	CALL 0038H



Mr.KARTHIKEYAN S.R (You)

Dr.MEENALOCHANI M

03 Devi sri

02-Krish M.E. KJ

Mr.KARTHIKEYAN S.R (You)

Mr.KARTHIKEYAN S.R

Mr.SUNDARAMOORTHY R

Mr.KARTHIKEYAN S.R



A REPORT ON

IEEE MAS SPONSORED FACULTY DEVELOPMENT PROGRAM TITLED

“SMART GRID- TRENDS AND FUTURE

PERSPECTIVE”

8th and 9th NOVEMBER 2021

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

INTRODUCTION

Department of Electrical and Electronics Engineering has organized a Faculty Development Program on **“SMART GRID- TRENDS AND FUTURE PERSPECTIVE”** on 8th and 9th November, 2021. Smart grid technology aims to bring utility electricity delivery systems into the 21st century, using computer-based remote control and automation. These systems are made possible by two-way communication technology and computer processing that has been used for decades in other industries. The rise of smart grid is a boon not only to society as a whole but to all who are involved in the electric power industry, its customers, and its many stakeholders. The aim of organizers is to bring up professional discussions on smart grid technologies and its trends to provide dissemination of the knowledge to the participants.

OBJECTIVES

- To educate the participants about the concept of smart grid, the rationale for smart grid technology and its characteristics
- To provide a detailed exposure to faculty members about the most recent innovations and trends in the field of smart grid

ABOUT THE FDP

The FDP was planned to be conducted in virtual mode. Dr. A. Albert Martin Ruban, HOD/EEE was the convener and Dr.M.Meenalochani AP/EEE was the coordinator of the FDP. The registration link was created through Google forms and the link was circulated through social media websites and WhatsApp groups. Around 80 responses were received from various institutions. A confirmation mail was sent for all the registered participants. The registered participants were asked to join in the whatsapp group named “IEEE FDP on Smart Grid”. Instructions for all the events were given to the participants through the respective whatsapp group. The meeting link was circulated to all the registered participants one day before the commencement of the FDP through their e-mail and also through the WhatsApp group.

DETAILS OF RESOURCE PERSONS

Day1- Session 1: Dr.M.Venkatakirthiga,
Associate Professor/EEE
National Institute of Technology, Trichy

Day1- Session 2: Dr.M.Meenalochani
Assistant Professor/EEE
Kings College of Engineering

Day 2- Session 1: Dr.R.Arulraj
Assistant Professor/EEE
Kings College of Engineering

Day 2- Session 2: Dr.N.Kumarappan, Chair, IEEE Madras Section
Professor/EEE
Annamalai University

DAY 1(8.11.2021)

The FDP was inaugurated at 9.45 A.M on 8th November 2021. The Chief Guest to the session was Dr.N.Kumarappan, Chair, IEEE Madras Section. Dr.M.Meenalochani, coordinator of the FDP welcomed the dignitaries and participants. Dr.J.Arputha Vijaya Selvi, Principal of KCE delivered the Presidential Address. In her address, she highlighted the importance of smart grid and the role of smart grid in India. The inaugural address was given by Dr.N.Kumarappan. In his address, he appreciated Kings College of Engineering for organizing such a program and welcomed all the enthusiastic participants. He explained the emergence of different types of electric grids such as micro grids, nano grids, super grids and gave an introduction to smart grid technology. He also stated that success of an FDP lies in the dissemination of knowledge gained by faculty to their students in an efficient manner.

Then the session was handed over to the Resource person Dr.M.Venkatakirthiga ,Associate Professor/EEE, NIT, Trichy. She gave an introduction to distributed generation and microgrids. She also detailed about the architecture and modes of operation of microgrids. A microgrid is a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid. A microgrid can connect and disconnect from the grid to enable it to operate in both grid-connected or island-mode. She lectured on the concepts of smart grid, its components and a brief introduction to electric vehicles. The session ended at 12.30 P.M.

The next session was started at 2.00 P.M. The resource person for session 2 was Dr.M.Meenalochani, AP/EEE, Kings College of Engineering. The topic of her presentation was Artificial Intelligence (AI) in smart grid. She gave an overview of human intelligence and the concepts of AI. She highlighted the real time examples of AI applications used in websites such as Amazon, Facebook, Netflix etc. where the AI based systems give recommendations to human

beings based on their search. Then, she briefed her lecture on different AI techniques such as Artificial Neural Networks, fuzzy logic, computer vision, machine learning, deep learning etc. and detailed on fuzzy logic. She explained in detail about the basics of fuzzy logic, difference between fuzzy and conventional Boolean logic and the similarity between fuzzy logic and human reasoning. Finally, she concluded with the advantages and applications of fuzzy logic in real time. The session ended at 3.30 P.M.

Day 2(9.11.2021)

On the second day, the forenoon session was started at 10.00 A.M. The resource person for session 3 was Dr.R.Arulraj, AP/EEE, Kings College of Engineering. The topic of his presentation was optimization techniques. He lectured on the basics of optimization and how to solve any optimization problem. He explained real time applications of optimization problems and the methods for solving those problems. He detailed on the terminology in optimization such as objective function, decision variables, constraints etc. with examples. He provided an in-depth knowledge on formation of objective function for any optimization problem. He gave an introduction to genetic algorithm for solving an optimization problem. The session ended at 11.30 A.M.

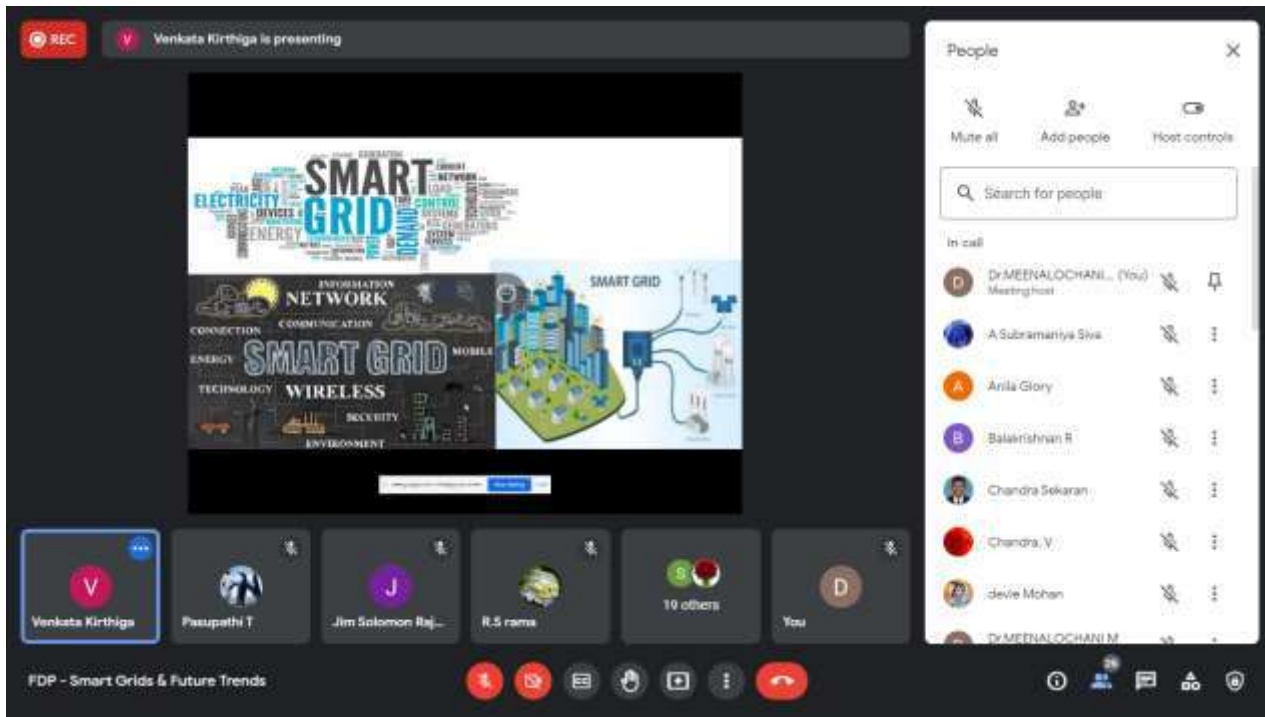
The afternoon session started at 2.00 P.M. The resource person was Dr.N.Kumarappan, IEEE MAS Chair and Professor/EEE, Annamalai University. He delivered his lecture on grid to vehicle integration using hybrid optimization techniques. He clearly explained the bidirectional transfer of power in interconnected systems. The participants were taught about the basics of hybrid optimization algorithm used for vehicle to grid power transfer. The hybrid algorithm utilizes the benefits of Tabu search as well as binary Particle Swarm Optimization. The algorithm aims to reduce the operating cost and emissions and increase the reserving capacity of the vehicle. The session finally ended up at 3.30 P.M. Mr.T.Pasupathi, AP/ECE and IEEE SB In-charge, delivered Vote of thanks for the FDP.

OUTCOMES

- Participants are enhanced with the knowledge on smart grid and the latest innovations in Smart Grid
- The content knowledge of the participants in the respective domain is updated
- Faculty can be able to make the students aware in smart grid and guide them for doing projects in that area

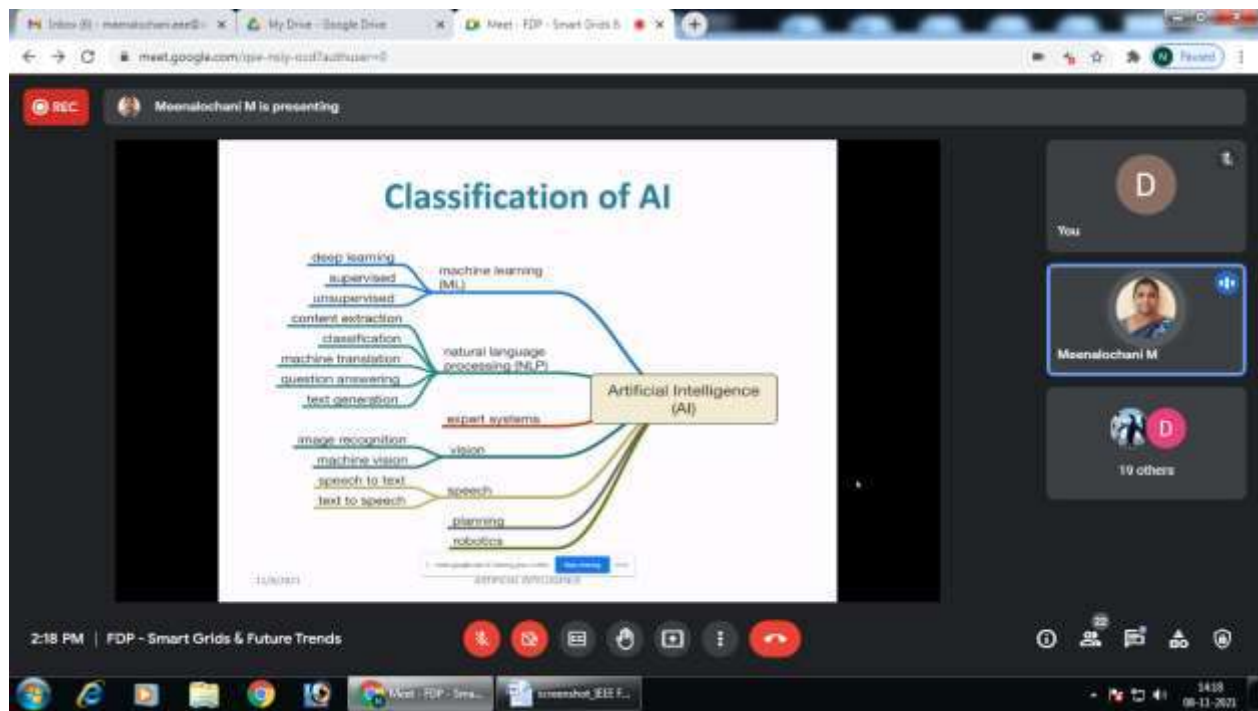
SNAPSHOTS OF THE SESSIONS

Session 1



Dr.M.Venkatakirthiga, Assoc.Prof./EEE, NIT, Trichy delivering her lecture

Session 2



Dr.M.Meenalochani, AP/EEE, KCE delivering her lecture

Session 3

The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "Pareto front" with two graphs. The left graph is a 2D plot with "Objective 1" on the x-axis and "Objective 2" on the y-axis. It shows a set of "Initial solutions" (red dots) and a "Pareto front" (green dots) with arrows indicating "Global search direction" and "Local optimisation direction". The right graph is a 3D plot labeled "3-objectives". The bottom of the screen shows the meeting controls and a list of participants on the right side.

Dr.R.Arulraj, AP/EEE, KCE delivering his lecture

Session 4

The screenshot shows a Google Meet interface during a presentation. The main window displays a video of Dr. N. Kumarappan, a man with glasses and a mustache, wearing a light blue shirt. The bottom of the screen shows the meeting controls and a list of participants on the right side.

Dr.N.Kumarappan, Chair, IEEE Madras Section delivering his lecture

BROCHURE

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Department of Electrical & Electronics Engineering

IEEE Madras Section sponsored
Faculty Development Programme on
SMART GRID
Trends & Future Perspective

08.11.2021 & 09.11.2021

Resource Persons

 **Dr. N. Kumarappan**
Chairman - IEEE MAS
Prof/EEE
Annamalai University, Chidambaram

 **Dr. M. Venkata Kirthiga**
Associate Professor/EEE
NIT, Trichy

and Faculty of KCE

Coordinator
Dr. M. Meenalochani, AP/EEE

Convener
Dr. A. Albert Martin Ruban
HOD/EEE

Patron
Dr. J. Arputha Vijaya Selvi
Principal

REGISTRATION FORM

The screenshot shows a Google Docs interface on a mobile device. The document title is "IEEE Madras Section sponsored FDP on Smart Grid- Trends and Future Perspective". The event dates are listed as "08.11.2021 and 09.11.2021". The resource persons are "Dr.M.Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy" and "Dr.N.Kumarappan, Chair, IEEE Madras Section, Professor/EEE Annamalai University". The document is shared with the email "meenaloachani79@gmail.com" (not shared). The document is marked as "*Required".

3:12

docs.google.com/fc

IEEE Madras Section sponsored
FDP on Smart Grid- Trends and Future Perspective
Event Dates: 08.11.2021 and 09.11.2021
Resource Persons:
Dr.M.Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy
Dr.N.Kumarappan, Chair, IEEE Madras Section, Professor/EEE Annamalai University

meenaloachani79@gmail.com
(not shared) [Switch accounts](#)

*Required

The screenshot shows a registration form with the following fields:

- Name *
- Designation *
- Email *
- Organization *
- IEEE Membership Number (If not a member use NA) *

Each field has a "Your answer" label and a text input area. The form is marked as "*Required".

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Name *

Your answer

Designation *

Your answer

Email *

Your answer

Organization *

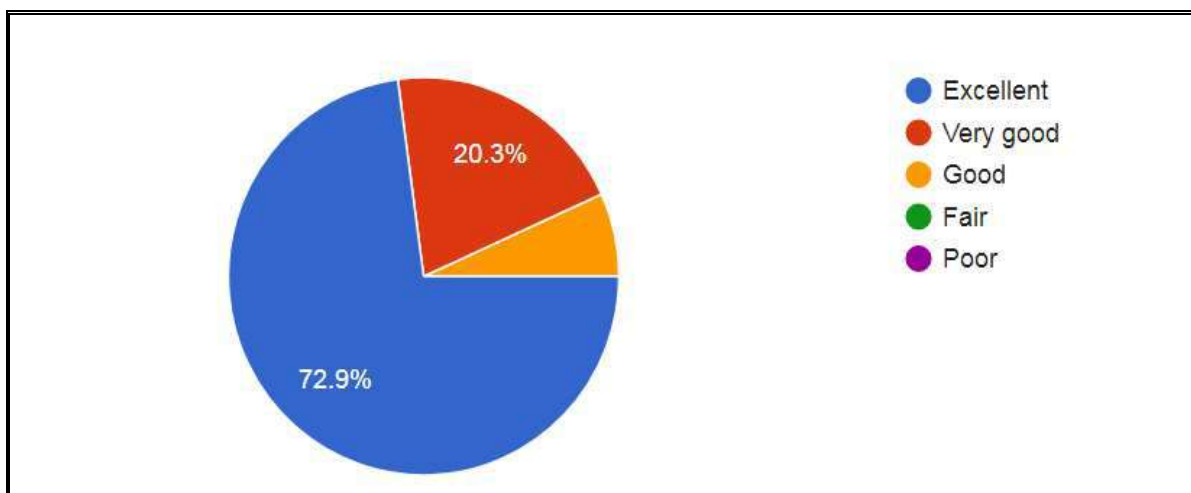
Your answer

IEEE Membership Number (If not a member use NA) *

DETAILS OF PARTICIPANTS

S.NO	NAME OF THE INSTITUTION	NO. OF PARTICIPANTS
1.	K.Ramakrishnan College of Engineering, Trichy	2
2.	Anjalai Ammal Mahalingam Engineering College,Tiruvarur	9
3.	Loyola-ICAM College of Engineering and Technology, Chennai	1
4.	St.Joseph's College of Engineering and Technology,Thanjavur	6
5.	Kuppam Engineering college, AP	4
6.	P.T.Lee Chengalvaraya Naicker College of Engineering and Technology, Kanchipuram	1
7.	Jayaram College Of Engineering and Technology, Trichy	1
8.	Saranathan College of Engineering , Trichy	5
9.	Kamaraj College of Engineering and Technology, Madurai	3
10.	A.V.C College of Engineering, Mayiladuthurai	7
11.	Panimalar Engineering College, Chennai	1
12.	Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennai	1
13.	Kalaivanar N S K College of Engineering,Nagercoil	1
14.	E.G.S Pillay Engineering College, Nagapattinam	2
15.	Arunai Engineering College,Tiruvannamalai	1
16.	University College of Engineering Pattukkottai	5
17.	Muthayammal Engineering College, Namakkal	3
18.	AMET Deemed to be university, Chennai	1
19.	Sai Rajeswari Institute of Technology,AP	1
20.	Sree Sakthi Engineering College, Coimbatore	1
21.	Pandian Saraswathi yadav Engineering College, Madurai	2
22.	K. S. K College of Engineering And Technology, Kumbakonam	1
23.	CSI college of Engineering, Ketti	1
24.	SASTRA deemed to be University, Thanjavur	1
25.	Sri Sairam Engineering College, Chennai	1
26.	St. Anne's College of Engineering and Technology	1
27.	Kongu Engineering college, Perunduari, Erode	1
28.	Kings College of Engineering, Pudukottai	21
Total number of participants		85

FEEDBACK-DELIVERY OF CONTENTS BY RESOURCE PERSONS



SAMPLE CERTIFICATE



Coordinator

HOD/EEE

PRINCIPAL



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022(ODD SEMESTER)

WEBINAR-REPORT

Department of Electrical Electronics Engineering has organized webinar on **“Internet of Energy”** on 9.10.2021 for external and internal students.

Time: 11.00 A.M to 12.00P.M

Venue: Online (Google meet)

Beneficiaries:

Internal: 62:(II, III&IV Year EEE Students)

External:30

Total:92

Resource Person (External):

Dr.T.Suresh Padmanabhan

Professor

E.G.S Pillay Engineering College (Autonomous)

Nagapattinam

Name of the Coordinators:

1. Mr.R.Sundaramoorthi, AP/EEE 2. Mr.J.Arokiaraj, AP/EEE

The main objective of the webinar:

- To understand the important theory aspects of Energy
- To provide Comprehensive understanding of the functions and operations of Internet of Things and importance.
- To impart technical skills to the students and make them to prepare simple projects and technical presentation.
- To provide an overview of the Internet of Energy concept in the Industrial Internet of Things paradigm

Mr.R.Sundaramoorthi, AP/EEE has welcomed all the external participants and second, third and final year EEE of our internal students. Introduction about the resource person was delivered by Mr.J.Arokiaraj, AP/EEE. Before starting the presentation, Dr.T.Suresh Padmanabhan Professor/EEE, have interacted with students about basic Introduction about Energy and current trends in Electrical Engineering. The entire session was segregated with five sections such as Energy scenario, basics of Internet of things, types of Energy, Elements of IoT and current research areas in Internet of Energy .In addition, quiz and activity session was also included during the presentation.

During his initial part of the session, he started with basic questions related to Energy Scenario and necessity of Internet of Things. All the external participants and Second year and final year students of our internal students have interacted well and answered. Then, he introduced about Internet of Energy technological terms that refers to the upgrading and automating of electricity infrastructures for energy producers and manufacturers. He explained in detailed about how energy production to move forward more efficiently and cleanly with the least amount of waste. In addition, he pointed about Internet of Energy transformation such as energy production, supply and consumption to fulfill high energy demands through intelligent automation. Internet of Energy is a decentralized, smart and viable energy solution that is yet unexplored in the industrial paradigm. The concept is emphasized in close relation to the Internet of Things, Industrial Internet of Things and Industry 4.0.

He also discussed the concepts related to industrial applications and requirements for optimizing performance, transmission, consumption for efficient energy utilization and increased productivity. He mentioned the industrial needs parameters including Industrial services, technologies, prerequisites, and application requirements are focused on outlining the architectural framework for achieving net-zero energy efficiency, applicability, and limitations. He explained how different energy systems works and all the components involved in IoT with animation pictures. Next, he briefly explained about Energy and its types, graphical representation between different types of Energy. He also pointed out the main functions and applications of Energy. Then he started to present the most important concept of the IoE in the Industrial Internet of Things (IIoT). Moreover, open challenges such as middleware, mobility, data integrity, and scalability are also

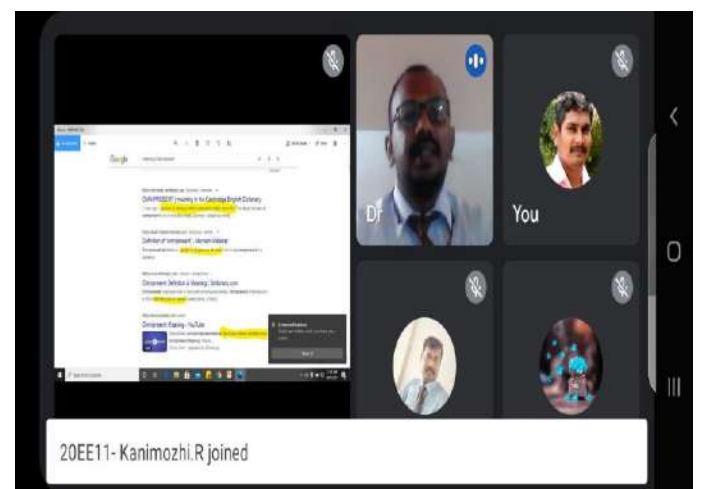
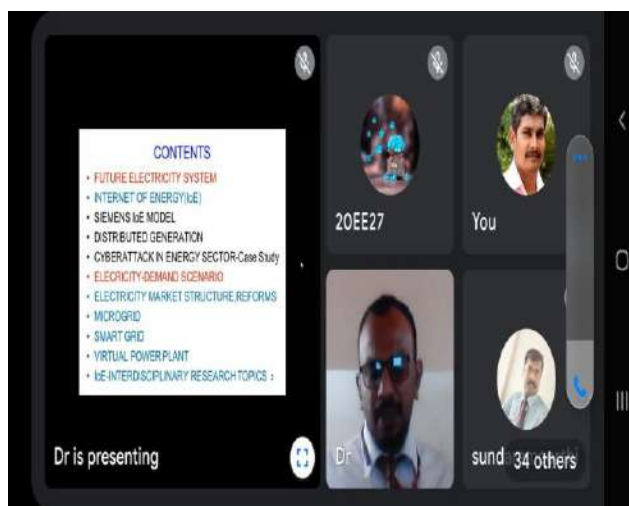
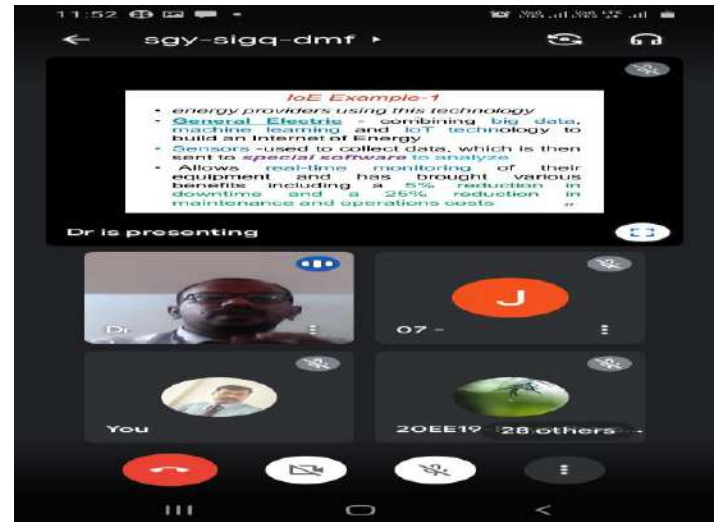
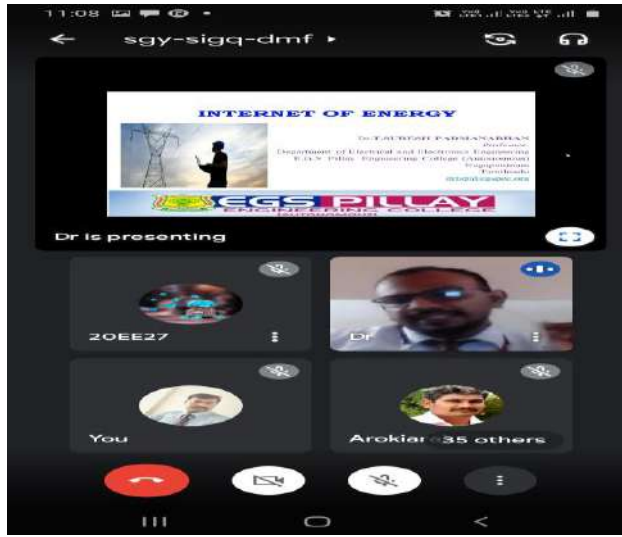
discussed in depth with their potential solutions. He also discussed about IoT sensors, power monitoring, demand-side energy management, and Consumer appliances with IoT functionality. He pointed out an example, a washing machine could be connected to the internet and only power on when there's sufficient energy from solar power in the grid. He has introduced about the IoE examples-Energy providers and Energy storage systems. He has briefed about the different techniques of the wastage problem particularly evident within the renewable energy industry and explained how IoE helps countries manage their energy demand, enabling power stations to produce more electricity at peak times, and less when consumption requirements are low. He mentioned about smart grid and its components which includes a variety of operation and energy measures to create an "Internet of Energy and also how Energy security and Energy information system used in our country.

Finally, he has given idea about the implementation of Internet of Things (IoT) technology into distributed energy systems to optimize the efficiency of energy infrastructure and reduce wastage. He also gave examples how to implement Micro Grid, Smart Grid and virtual power plant implementation. Before concluding the session, he has given idea about student's project areas of Internet of Energy. At the end of the session, participants from other colleges and internal participants of our department have interacted to the resource person and asked questions about importance of IoT and scope of job opportunities in different Energy sector.

OUTCOME:

- Students will be able to emphasize theoretical knowledge on Internet of Things.
- Students can be able to understand the different types of Energy, smart and viable energy solution, Industrial Internet of Things and Industry 4.0 that allow the students to observe applications in this field.
- Students shall select Energy and Internet of Things area for their Project work, Paper Publication, Conference presentation and PCE activities.

SNAPSHOTS



Dr.T.Suresh Padmanabhan Professor/EEE delivering lecture (online mode) during webinar



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMINAR ON “Motivational Talk”

18.09.2021

Resource Person:

Mrs.S.Bairavi (Alumni: 2012-14 Batch)

Junior Research Fellow,

University college of Engineering,

BIT campus,

Tiruchirapalli.

Platform: Google meet

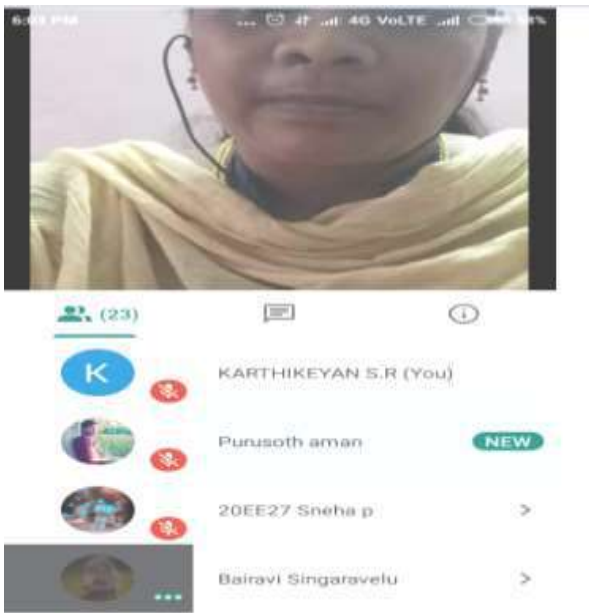
POST SEMINAR REPORT

A webinar on “Motivational Talk” was organized by department of Electrical and Electronics Engineering on 18.09.2021 for II, III and IV EEE students. The session started with silent prayer. Then the session continued with the welcoming address and introduction of resource person by Ms.C.Senthamilarasi AP/EEE.

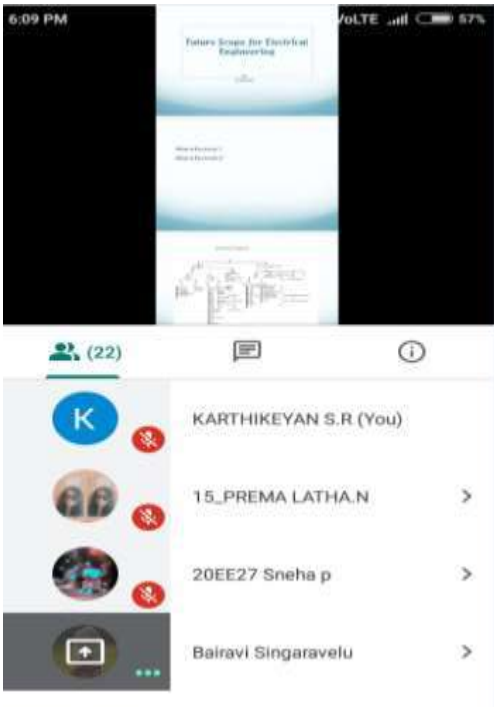
Event photograph-1



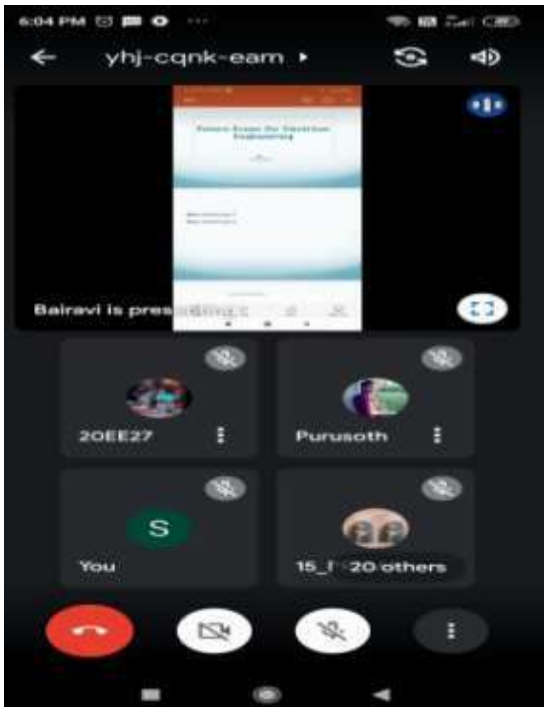
Event photograph-2



Event photograph-3



Event photograph-4



Resource person interacting with students about their career

Mrs.S.Bairavi (Resource person) in her address, pointed out, how we could program our subconscious mind to achieve success. She explained the meaning of the word “**SUCCESS**” as follows:

(**S**- Self motivation,
U-untiring efforts,
C- Confident attitude,
C- Creative thinking,
E- Effective communication,
S- Superior relation,
S- Safety and health)

She motivated our students by showing them some pictures for creative thinking and videos. She told them to trust and respect elders (especially parents and teachers). She told them to delete the things from the ‘**can’t do**’ list and transfer it to ‘**can do**’ list and insisted them to fix up or set their goal or define the purpose and work hard to achieve it. She makes them understand that intellectual people are always disciplined as only empty vessels make noise. She discussed the importance of positive thinking and attitude which brings optimism into life and such constructive changes can make one brighter and more successful. She gave some most beneficial points and tips to the students to concentrate on studies and achieve their goals. She focused on making the students build ‘**self-esteem**’ and discover their true potential and motivated the students to try for a government job through GATE.

Conclusion:

Through this session, students gained information about choosing the right career and will get a better way of life. Students got inspired and motivated for successful carrier and future life.



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING ACADEMIC YEAR 2021-22 ODD

Internal IEEE Seminar – Report

Title of the Webinar : “Generation of Power Using Gravity”

Date : 17.11.2021

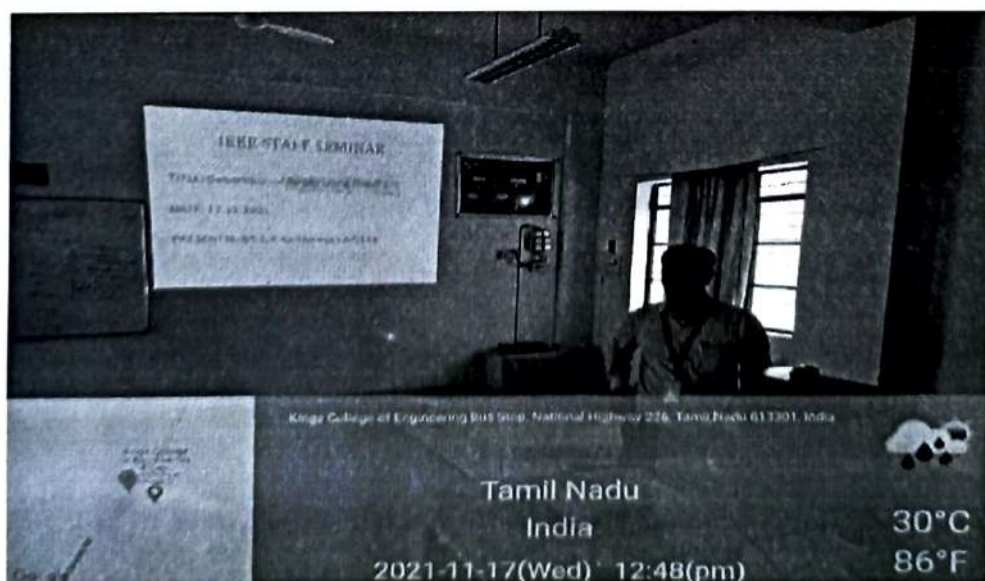
Resource Person : Mr.S.R.Karthikeyan, AP/EEE, KCE

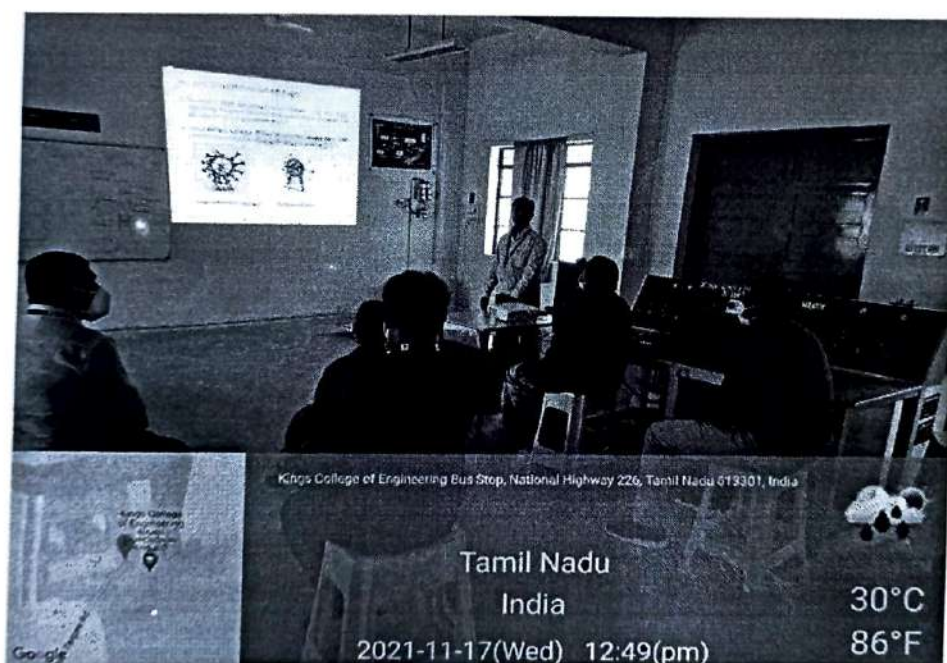
Beneficiaries : EEE Faculty Members- 6

On behalf of Department of EEE, IEEE Branch has organized Internal Seminar on “Generation of Power Using Gravity” for faculty members, Department of EEE on 17.11.2021. The main objective of the internal seminar is to provide exposure to various research areas to our faculty members.

During the session the resource person discussed merits and demerits of various renewable energies. He explained the importance of gravity based power generator. He pointed out the recent research about gravity based power generation in the name of perpetual motion. He discussed about statistics of power sector in India. In his presentation he mentioned that 53% of Coal and 24.5% of renewable energy sources used for power generation as per the record of ministry of power, government of India as on 14.03.2021.

In order to increase the percentage of renewable energy sources for power generation, turn the focus towards gravity power generation. Gravitational energy is uniform, continuous and independent of atmospheric conditions and geometrical areas.





Snapshot from Seminar

P. N. Vignesh
Faculty In-Charge

A. M. M. M. M.
HOD/EEE
9/12/21

J. Praveen
Principal
9/12/2021



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

WEBINAR
ON

**“CAREER GUIDANCE-GOVERNMENT JOB THROUGH
SPORTS QUOTA”**

29.10.2021

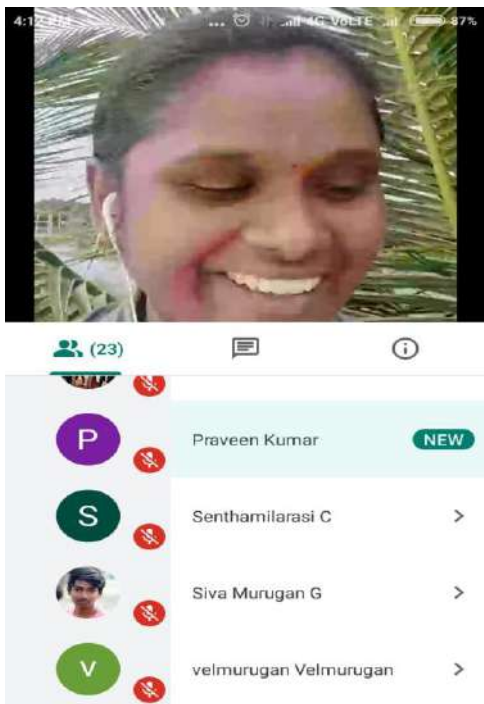
Resource Person:

Ms. R .Rathibharathi
(Alumni: 2013-17 Batch),
Forester,
Department of Forest,
Tamilnadu Government,
Nagapattinam.

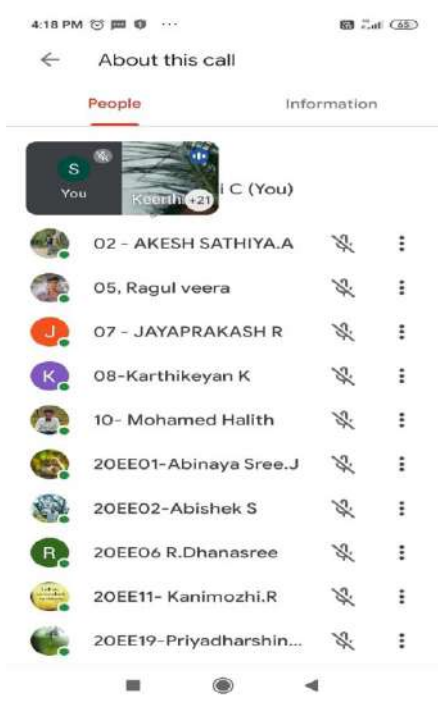
Platform: Google meet

POST SEMINAR REPORT

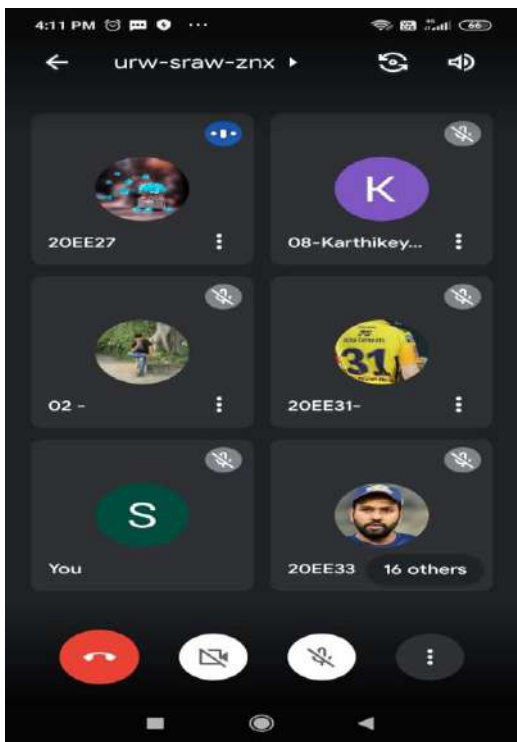
A webinar on “career guidance” was organized by department of Electrical and Electronics Engineering on 29.10.2021 for II, III and IV EEE students. The session started with silent prayer. Then the session continued with the welcoming address and introduction of resource person by Ms.C.Senthamilarasi AP/EEE.



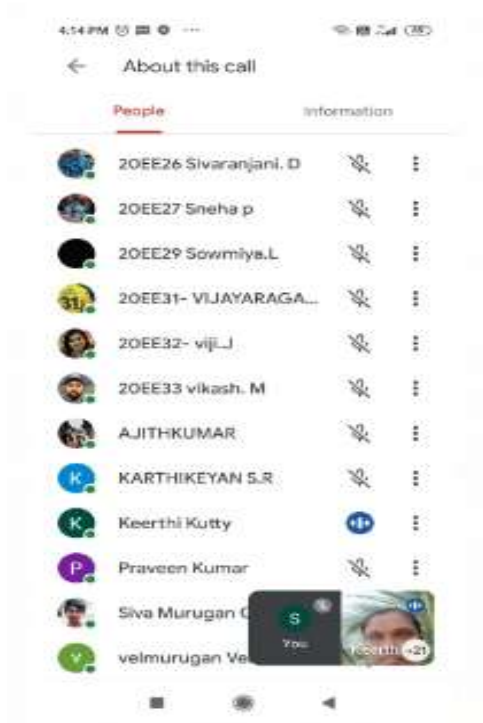
Event photograph-1



Event photograph-2



Event photograph-3



Event photograph-4

Resource person interacting with students about their career

Ms.R.Rathibharathi (Resource person) created awareness about the sports quota in colleges and the list of government jobs which are offered through the sports quota. She said only few students have acquired the talent in the field of sports and made a mark in State Level/National Level sports events. She told that the Indian Government has implemented sports quotas in higher education and government jobs for promoting the enthusiasm among players for sports. She said that most of the government institutions, including Indian Railways, Indian Army, Police, Government Banks/Universities, PSUs recruit meritorious sports players from time to time. These departments of the Government of India are always looking forward to encourage the players. This would, in return, provide job security to players and intensify their desire to achieve glory through sports for the country.

She also shared that the Government of India appoints meritorious sports persons, who represent the National and International events in South Asia Federation Games, Asian Games, Federation Cup, World Cup, District, State, Olympics, and Commonwealth Games, USIC Championship, and several other sports activities, to any post in Group 'C' or erstwhile Group 'D' through Direct Recruitment .

She cleared state that the sports persons in the state are getting two per cent quota for direct recruitment in government departments. She explained 43 sports which are recognized by Indian central and state government for sports quota. She detailed about the selection process under sports quota which depends on many parameters (Merit, Sports trial, Medical test, Interview) through which the candidate is evaluated by the recruitment officers. She said that players who play individual sports can benefit a lot during college admission and the colleges provide special seats based on trial performance after evaluation by their sports department. Most of these entries will have full waiver in fee for academics as well as hostel.

Conclusion:

Through this session, students gained information about sports quota in government jobs and how to achieve their success through sports quota and get a better way of life. Students got inspired and guided for successful career and future life.



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 ODD

Internal IEEE Seminar – Report

Title of the Webinar	: “Optimal Installation of Multiple DG Units Using Competitive Swarm Optimizer (CSO) Algorithm”
IEEE Paper Details	: IEEE Congress on Evolutionary Computation (CEC), Page(s): 3955-3960, Year: 2016
Date	: 08.12.2021
Resource Person	: Dr. R. Arulraj, AP/EEE, KCE
Beneficiaries	: EEE Faculty Members- 7

On behalf of Department of EEE, IEEE Branch has organized Internal Seminar on “Optimal Installation of Multiple DG Units Using Competitive Swarm Optimizer (CSO) Algorithm” for faculty members, Department of EEE on 08.12.2021. The main objective of the internal seminar is to provide exposure to various research areas in evolutionary algorithms to our faculty members.

During the session the resource person discussed the importance of evolutionary algorithm in the field of Power System Engineering. He explained the importance of Competitive Swarm Optimizer algorithm which is an enhanced and modified version of Particle Swarm Optimization algorithm. He pointed out the drawbacks and weakness in Particle Swarm Optimization algorithm and how it is eliminated in the improved version of Competitive Swarm Optimizer algorithm while solving large scale optimization problems.

In order to provide deeper insight on the optimization technique, he explained the application of Competitive Swarm Optimizer algorithm in solving optimal Distributed Generation (DG) allocation problem in the distribution network. In the optimal DG planning problem, he provided a detailed explanation on formulation of system total power loss objective function along with various technical constraints

involved in the optimization process. Moreover, he described the enhancement done in exploration and exploitation capabilities of Competitive Swarm Optimizer algorithm using necessary equations. Furthermore, he explained the optimal DG planning problem using a neat flowchart in order to analyse the various computational steps involved in the optimization process of Competitive Swarm Optimizer algorithm. The simulation results along with convergence curve and computational time is explained to show the effectiveness of the solution technique in DG allocation problem. He also presented a detailed comparison report on the superiority of Competitive Swarm Optimizer algorithm over other existing optimization techniques in literature and also over different variants of Particle Swarm Optimization algorithm.

Finally he demonstrated the application of Competitive Swarm Optimizer algorithm in solving large scale optimization problems in different Engineering domains. At the end of the session faculties asked questions regarding implementation of Competitive Swarm Optimizer algorithm in different areas of Power Engineering and also expressed their willingness to publish research papers using Competitive Swarm Optimizer algorithm in near future.

Snapshots from Seminar:







**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022(ODD SEMESTER)**

INTERNAL SEMINAR-REPORT

Department of EEE has organized Internal Seminar on “**Hybrid Electric Vehicles-overview**” for second, third and final year EEE students on 25.9.2021.

Beneficiaries: Total:62:(II, III&IV Year EEE Students)

Time: 6.00 P.M to 7.15 P.M

Venue: Online (Google meet)<https://meet.google.com/rgu-aatt-gmb>

Resource Person (Internal):

Mr.R.Sundaramoorthi, Assistant Professor/EEE

The main objective of the internal seminar:

- To understand the important theory aspects of Electric vehicles.
- To provide Comprehensive understanding of the functions and operations of Hybrid Electric vehicles and components.
- To impart technical skills to the students and make them to prepare projects and technical presentation.

Mr.R.Sundaramoorthi, AP/EEE has welcomed all the second, third and final year EEE students. Before starting the presentation, he interacted with students about basic Introduction about Electric vehicles and current trends in Electrical Engineering. The entire session was segregated with five sections such as Electric vehicle scenario, types of Electric vehicle, Hybrid Electric vehicle components, Battery Management systems and current research areas in Electric vehicles .In addition, question and answer session was also included during the presentation. During his initial part of the session, he started with basic questions related to Electric vehicles and comparison between conventional and Battery Electric vehicles. Second year and final year students have interacted well and answered.

Then, he introduced about classification of Electric vehicles such as Battery Electric vehicle, Hybrid Electric vehicle and Plug-in Hybrid Electric vehicle. He explained how hybrid Electric vehicle works and all the components involved in HEV with video presentation. Next, he briefly explained about battery and its types, graphical representation between various batteries. He pointed out the main parameters and terminals of battery. The different terminals are:(a)Capacity (b)specific Energy (c)Energy density (d)Specific power (e)Energy Efficiency (f)State of Charge(g)Depth of Discharge. Then he started to present the most important part of EV such as Battery Management system and wireless techniques. He has introduced about the Energy storage systems and importance of Battery, different types of battery, importance and functions of battery Management systems. He has briefed about the different techniques of estimating state of charge (SOC), state of health (SOH) mechanisms and applications. The following parameters are involved in SOC and SOH(a)Voltage (b)Current (c)Temperature (d)Power. He has given broad idea of different features and specifications of BMS.

Finally, he has given idea about all the methods of balancing techniques and Safe Operating Area (SOA) of different types of cells. He also specified software tools are used in EV.Examples are:(a) SIMPLEV(b) MARVEL(c) V-Elph (d) ADVISOR(e) PSAT, CarSim, OSU-HEVSim, Hybrid Vehicle Evaluation code (HVEC).Before concluding the session, he has given idea about research aspects in EV and projects areas of Hybrid Electric vehicles. At the end of the session, students from second year and final year interacted and asked questions about Converters importance and scope of job opportunities in EV and future development of energy storage systems.

OUTCOME:

- Students will be able to emphasize theoretical knowledge on Hybrid Electric vehicles.
- Students can be able to understand the different types of Electric vehicles, Components of Hybrid Electric vehicles, Battery Management Functions and methods that allow the students to observe applications in this field.
- Students shall select Hybrid Electric Vehicle area for their Project work, Paper Publication, Conference presentation and PCE activities.

SNAPSHOTS



Mr.R.Sundaramoorthi AP/EEE delivering lecture (online mode) during Internal Seminar



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / ODD SEMESTER

INTERNAL SEMINAR REPORT

12.10.2021

Department of EEE has organized internal seminar on “Introduction to Artificial Neural Networks” for second, third and final year EEE students on 9.10.21.

Objective:

- To impart knowledge to students on the basics of Artificial Intelligence(AI)
- To provide adequate knowledge on different types of Artificial Neural Networks (ANN) and its applications in the field of Electrical and Electronics Engineering.
- To facilitate the use of AI techniques in their final year projects and seminar presentations.

Beneficiaries: Total: 62 (II, III & IV Year EEE Students)

Time: 6.00 P.M to 7.00 P.M

Venue: Online (Google meet) <http://meet.google.com/ukp-pnke-zus>

Resource Person (Internal): Dr.M.Meenalochani, Assistant Professor/EEE

Dr.M.Meenalochani, AP/EEE started her session with an introduction to human intelligence and the ability of human beings to provide solutions to different problems. Then, she introduced the concept of AI and how it can be applied to solve any problem. She clearly stated that AI techniques can be accomplished by studying how human brain thinks, learns, decides and works while trying to solve a problem and using the outcomes as a basis of developing intelligent software and systems. She gave examples of different social media websites which track human searches and provide recommendations based on their search using AI techniques. The students were able to recognize the recommendations they receive based on their web search activity.

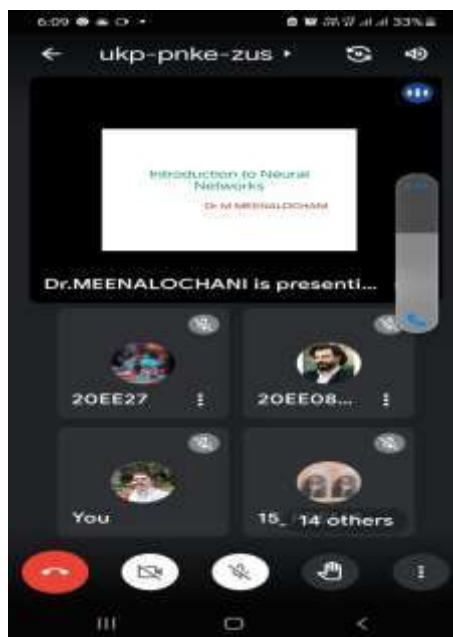
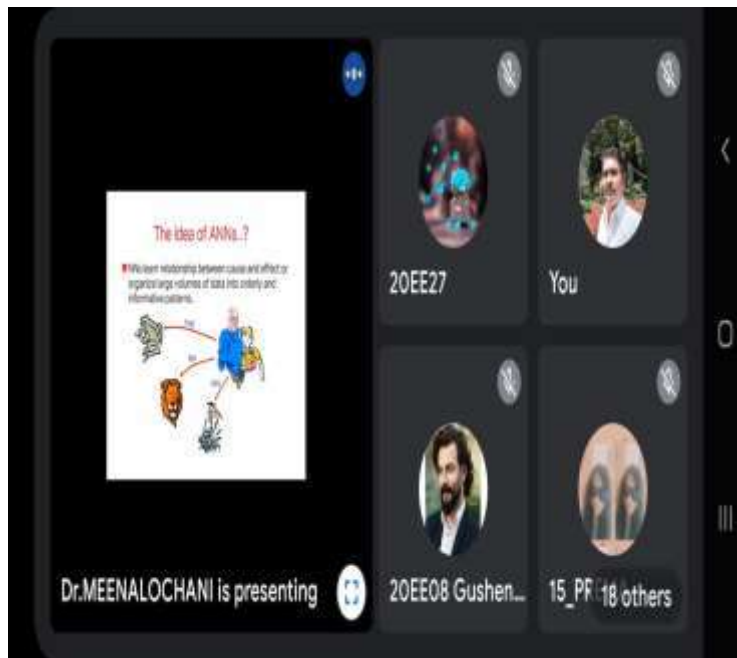
Then she explained how ANN is developed based on the operation of human nervous system. Artificial neurons are implemented based on the methodology used by biological neurons for gathering inputs, combining different inputs and producing an output if the input exceeds a threshold. An ANN usually involves a large number of processors operating in parallel and arranged in layers. The first layer receives the raw input information which is analogous to optic nerves in human visual processing. Each successive layer receives the output from the preceding layer. The last layer produces the output of the system. Different architectures of Neural Networks are formed based on the pattern of connections between neurons as Single Layer Feed Forward, Multilayer Feed Forward and Recurrent networks. She also pointed that the algorithms are classified as Supervised, Unsupervised and Reinforcement which is used for training of a Neural Network.

Finally, she briefed about Deep learning which is the recent advancement in Neural Networks. Deep Neural Networks play an important role in Machine Learning. Deep learning is used to solve complex problems that require discovering hidden patterns in the data. It involves a deep understanding of intricate relationships between large numbers of interdependent variables. At the end of the session, students from final year interacted and asked questions about the usage of AI Techniques in doing projects.

Outcome:

- Enhance the knowledge on Artificial Intelligence
- Students are able to understand the concepts and operation of Artificial Neural Networks, their advantages over conventional techniques and their applications
- Students shall select Artificial intelligence techniques for their Project work, Paper Publication, Conference presentation and PCE activities.

Snapshots:



Dr.M.Meenalochani AP/EEE delivering lecture (online mode) during Internal Seminar

Faculty In-Charge

HoD/EEE

Principal



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 (EVEN SEMESTER)

Winter Crash Course on "Alternate Sources of Energy and Simulation Tools" - Report

The Department of Electrical and Electronics Engineering has organized winter crash course on the topic "Alternate Sources of Energy and Simulation Tools" for final year EEE students from 21.02.2022 to 25.02.2022.

OBJECTIVE:

The main objective of this course is to enlighten the students knowledge and their understanding about alternate sources of energy apart from conventional energy sources. Also, the other main objective of this course is to provide much deeper insights on simulation tools in Electrical Engineering through hands on experience.

PROGRAMME SCHEDULE:

DATE	FN Session (Time: 09.30 AM to 12.30 PM)	AN Session (Time: 01.00 PM to 04.00 PM)
21.02.22	MATLAB Overview Handled By Dr.P.Narasimman AP/EEE	Hands-on Session Handled By Dr.R.Arulraj AP/EEE
22.02.22	Wind Energy Conversion Handled By Mr.J.Arokiaraj AP/EEE	Hands-on Session Handled By Mr.J.Arokiaraj AP/EEE
23.02.22	Hybrid Energy System Handled By Mr.J.Arokiaraj AP/EEE	Hands-on Session Handled By Mr.J.Arokiaraj AP/EEE
24.02.22	Solar PV Applications Handled By Dr.S.Sivakumar VP	Hands-on Session Handled By Dr.R.Arulraj AP/EEE
25.02.22	Hands-on Session & Valedictory Function	

SESSION DETAILS:

The program was started with a welcome address delivered by Dr.R.Arulraj AP/EEE on 21.02.2022. In the forenoon session Dr.P.Narasimman, AP/EEE has explained overview of MATLAB simulation software. In his presentation, he first explained the basic concepts of MATLAB Programming and then he demonstrated how to develop a MATLAB Simulink model for an electrical system. In the afternoon session Dr.R.Arulraj AP/EEE has coordinated a hands-on session on MATLAB simulation software. In the hands-on session he instructed and helped the students to implement various concepts such as creating and initializing variables, multidimensional arrays, sub-arrays, special values, displaying output data and different methods of plotting in the MATLAB environment. The students actively participated in the hands-on session and Dr.R.Arulraj clarified various doubts raised by the students during the session.



Dr.P.Narasimman delivering presentation on "MATLAB Overview"



Dr.R.Arulraj handling Hands-on Session on "MATLAB Basics"

On 22.02.22, the forenoon session on the topic "Wind Energy Conversion" was handled by Mr.J.Arokiaraj AP/EEE. During the session, Mr.J.Arokiaraj has presented some interesting concepts such as basic structure and components of Wind Energy Conversion Systems, doubly fed induction generator in wind energy conversion systems, economics of wind systems and finally he explained how to optimize the performance of wind-driven alternators in the system. At the end of the session students asked some interesting questions and Mr.J.Arokiaraj answered their queries with some real time examples. In the afternoon session Mr.J.Arokiaraj coordinated the hands-on session on wind energy conversion system. In the session he instructed the students how to analyze the performance of wind generator through aero furbine using wind blower.



Mr.J.Arokiaraj delivering presentation
on "Wind Energy Conversion"



Mr.J.Arokiaraj handling Hands-on Session
on "Wind Energy Conversion"

The forenoon session on 23.02.22 was handled by Mr.J.Arokiaraj AP/EEE on the topic "Hybrid Energy Systems". In the session, he first gave a brief introduction about hybrid energy systems and then he explained the characteristics of hybrid energy systems, technology used in hybrid energy systems, energy loads, renewable energy resource characteristics, design considerations, economics and finally he explained recent trends in hybrid energy systems. At the end of the session Mr.J.Arokiaraj interacted with the students and answered their queries. Mr.J.Arokiaraj coordinated the afternoon hands-on session on Hybrid Energy System. In the session he instructed the students how to perform hybridization of wind and solar PV systems and explained the various challenges and advantages in the hybridization process.



Mr.J.Arokiaraj delivering presentation
on "Hybrid Energy System"



Mr.J.Arokiaraj handling Hands-on Session
on "Hybrid Energy System"

On 24.02.22, Dr.S.Sivakumar, Vice-Principal handled the forenoon session on the topic "Solar PV Applications". He initiated the session with introduction to solar energy as renewable resource. Later, he demonstrated the various applications of solar PV systems in water pumping, cooking, heating, lighting, traffic signals and atlast he explained the importance of solar PV applications in spacecraft. Dr.S.Sivakumar cleared the doubts of students during the session and he encouraged the students to do mini-projects in solar PV applications. Dr.R.Arulraj AP/EEE has coordinated the afternoon hands-on session and during the session he instructed and helped the students to design and develop solar PV model using MATLAB Simulink environment.

The forenoon hands-on session on 25.02.22 was handled by Dr.R.Arulraj AP/EEE. In the forenoon session, Dr.R.Arulraj has explained how to use Neural Network Toolbox in MATLAB environment. He first demonstrated the Neural Network Toolbox using simple real time example and later he used the MATLAB example dataset having large number of data to show the effectiveness of neural network in handling large dataset. He also explained how to validate and test the results using the Neural Network Toolbox. The programme ended with a valedictory function in the afternoon session and overall feedback of the students about the course was collected for future enhancements. Finally the session ended with vote of thanks from Dr.R.Arulraj AP/EEE.



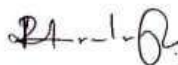
Dr.R.Arulraj handling Hands-on Session on "Neural Network Toolbox"

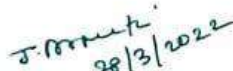
OUTCOME:

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

- Understand the basics of MATLAB Programming and Simulink and also how to design basic electric circuits and problems in MATLAB environment.

- Get deeper insight on various concepts in wind energy conversion system and also how a practical wind energy conversion system works.
- Realize the importance of Hybrid Energy Systems and the various technical and economical benefits associated with Hybrid Energy Systems.
- Know the various applications of Solar PV system in day to day life and also in spacecraft, further, how to develop a simple solar PV model using MATLAB Simulink.
- Understand the basic concepts of neural network and how to use Neural Network Toolbox for different real time problems.


26/3/2021
FACULTY INCHARGE


28/3/2022
PRINCIPAL


26/3/22
HOD/EEE



Department of EEE

Academic Year 2021-22 (Odd)

Internal Webinar Report on “Industrial Automation”

Date: 23.10.2021

Department of EEE has organized internal webinar on “Industrial Automation” for second, third and final year EEE students on 23.10.2021. The main objectives of internal webinar were to enable the students to explore current and future trends including IoT and Digital manufacturing in the manufacturing industry and process automation.

Title: Industrial Automation

Date: 23.10.2021

Platform: Google Meet

Google Meet Link: <http://meet.google.com/kkc-vxmn-tkb>

Beneficiary: 50

Resource Person: Mr.S.R.Karthikeyan, AP/EEE, KCE

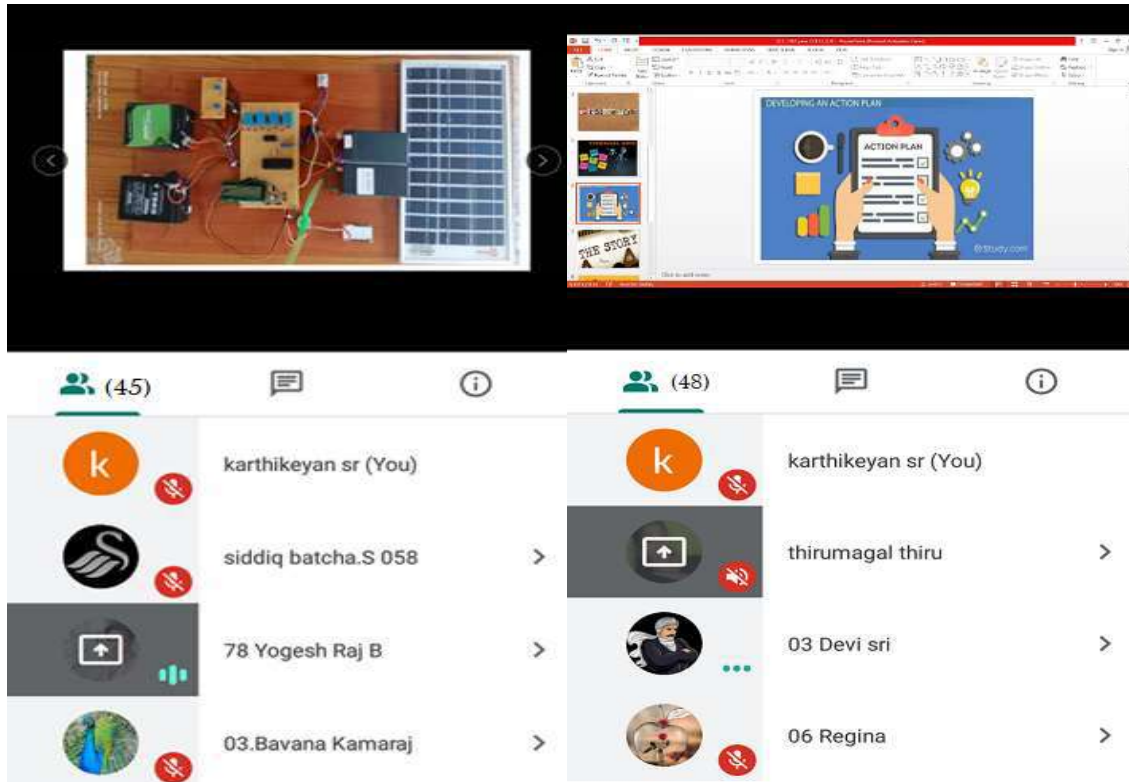
The points were discussed during the session:

- This webinar was highlight visionary voices to explore how automation can be used to accelerate human achievement.
- Industrial automation and its type
 - Fixed Automation
 - Programmable Automation
 - Flexible Automation
 - Integrated Automation
- Some of the examples of automated industrial processes
 - Packaging and material handling
 - Quality control and inspection
 - Metal fabrication, machining, welding, cutting, cladding etc

- Food and beverage processing
- Planning and decision making
- Importance of industrial automation
- Role of PLC
- Hierarchy of industrial automation

The model is typically expressed as:

- Level 5 - Business Systems
 - Level 4 - Plant Level (ERP, MRP, and MES)
 - Level 3 - Operation Unit Level
 - Level 2 - Machine/Process Automation Level
 - Level 1 - Controller Level
 - Level 0 - Sensor/Actuator Level
- Existing automation systems generally reflect this architecture with software
- The leading industrial automation job types
 - Industrial Automation Technician
 - Field Systems Engineer
 - Industrial Automation Engineer
 - Industrial Automation Sales Engineer

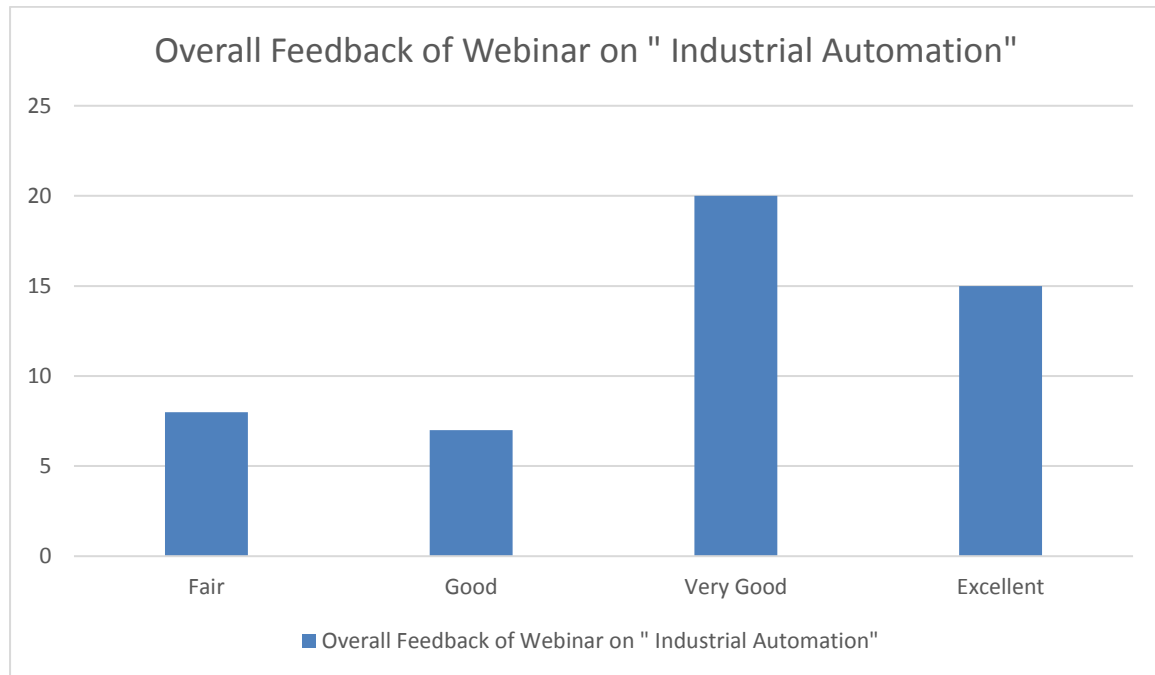


Snap shot from webinar on “Industrial Automation”

Conclusion:

Industrial automation has recently found more and more acceptance from various industries because of its huge benefits, such as, increased productivity, quality and safety at low costs. This webinar had educated the students about importance of industrial automation in technical orientation.

Feedback Analyse:





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / ODD SEMESTER

INTERNAL SEMINAR REPORT

01.12.2021

Department of EEE has organized an Internal Seminar on “Evolution of Multilevel Inverter” for second, third and final year EEE students on 30.11.2021.

Objective:

- To impart knowledge to students on the basic concepts of Multilevel Inverter (MLI)
- To provide adequate knowledge on different types of multilevel inverter and its applications in the field of Electrical and Electronics Engineering.

Beneficiaries: Total: 62 (II, III & IV Year EEE Students)

Time: 6.00 P.M to 7.00 P.M

Venue: Online (Google meet): meet.google.com/txx-zkkd-hkh

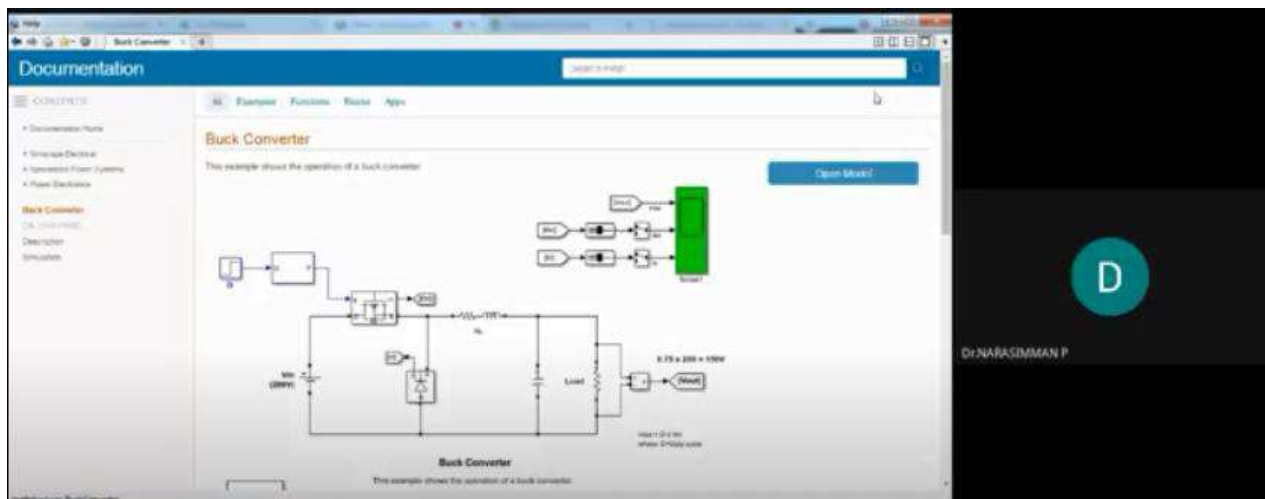
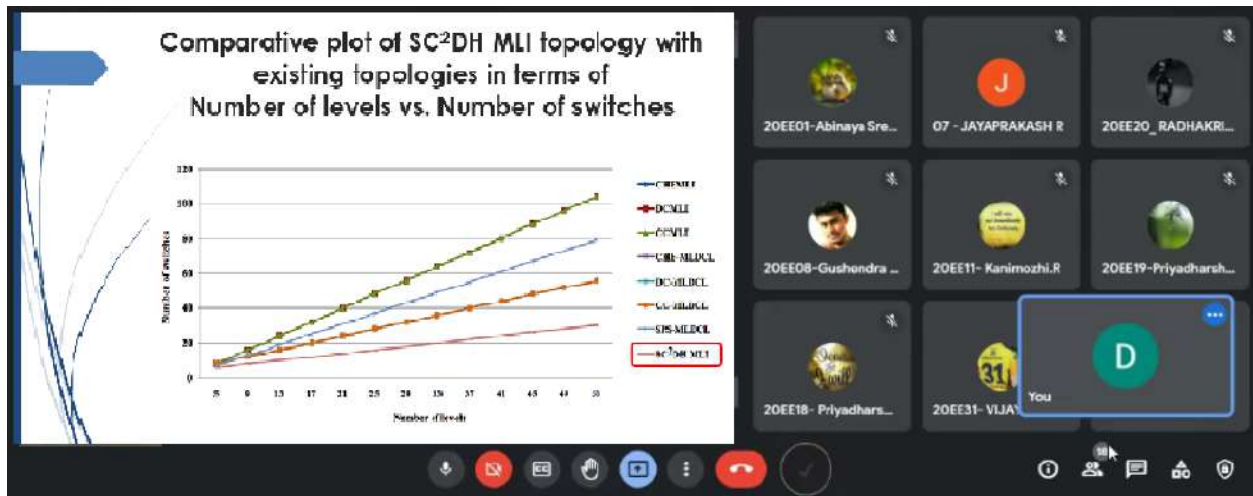
Resource Person (Internal): Dr.P.Narasimman, Assistant Professor/EEE

Dr.P.Narasimman, AP/EEE started his session with an Introduction to Multilevel Inverter and compared the conventional inverter at different operating modes. Then, he explained about the different types of multilevel inverter and its application for Electric Vehicles (EV) and Hybrid Electric Vehicles (HEV). He explored the benefits and discusses the control schemes of cascade inverter for EV motor drive or a parallel HEV drive and the diode-clamped inverter as a series HEV motor drive. At the end of the session, students interacted and clarified their doubts about the design of a multilevel inverter.

Outcome:

- Enhanced the knowledge on Multilevel Inverter
- Students are able to understand the concepts and operation of Multilevel Inverter
- Students shall select Multilevel Inverter Topology for their Project work, Paper Publication, Conference presentation and PCE activities.

Snapshots:



Dr.P.Narasimman, AP/EEE delivering lecture (online mode) during Internal Seminar



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / ODD SEMESTER

Date: 08.12.2021

INTERNAL SEMINAR REPORT

Objective:

- To impart knowledge to students on recent developments in the field of Electrical and Electronics Engineering
- To educate the students on technological advancements which facilitate them to utilize the concepts in developing projects

Title : “5G Technology”

Target: Second and Third year EEE students

Internal seminar for second, third and final year students of Electrical and Electronics Engineering department was conducted on 08.12.2021 from 6.30 P.M to 7.30 P.M in online mode. Mrs.P.Thirumagal, AP/EEE lectured on the topic “**5G Technology**”.

During the session the following points were discussed:

- 5G technology refer to short name of fifth generation which was started from late 2010s
- High speed,High Capacity.
- 5G is not only important because it has the potential to support millions of devices at ultrafast speeds, but also because it has the potential to transform the lives of people around the world.

1. **Improving accessibility**

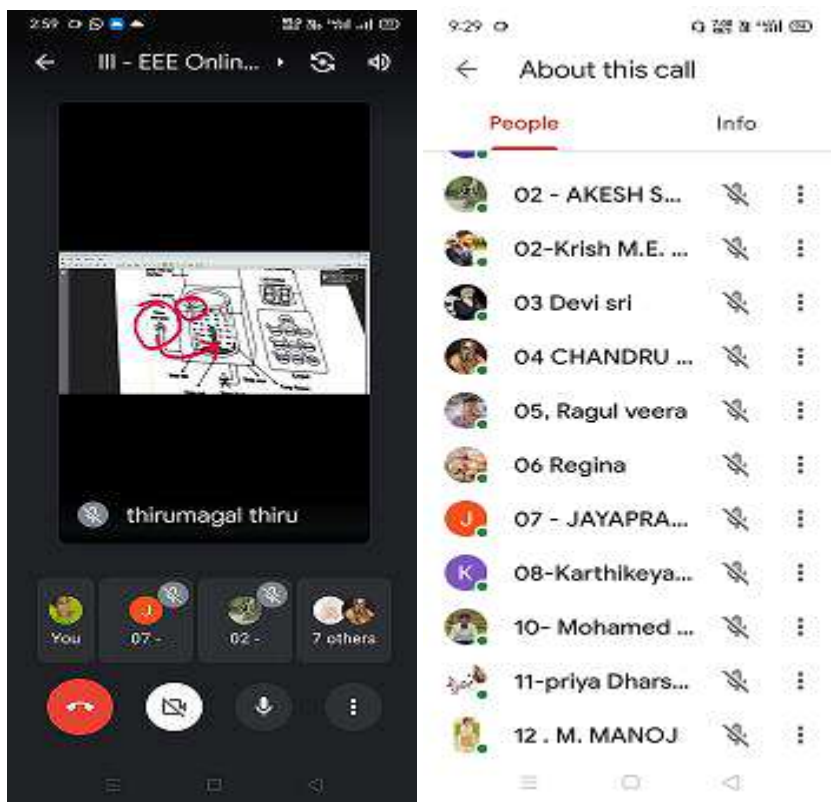
Improvements in 5G technology can help make life better. For example, significant advances in autonomous vehicle technology are possible with 5G, creating the potential for people to have new levels of personal and professional freedom. Connected appliances can help automate tasks around the house, which can not only improve personal convenience but also help those who need assistance with everyday tasks.

2. Extending the reach of mobile broadband

5G can power technology well beyond what current mobile technology permits. Thanks to its speed and bandwidth, 5G promises to make significant improvements in 3D holograms, virtual reality and augmented reality, creating opportunities to connect people far beyond what current cellular technology allows.

3. Improving safety, health and security

Access to 5G technology promises to improve mission-critical services that affect safety and security of services today. Opportunities include smart cities with 5G in public spaces, the potential for remote surgery, better traffic control and many other applications that depend on nearly instantaneous response time.





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on

"APPLICATIONS OF POWER ELECTRONICS IN POWER SYSTEM"

REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on "Applications of Power Electronics in Power System" on 16th June, 2022.

Beneficiaries : III Year Students (9) & IV Year Students (15)
Date : 16-06-2022
Session Time : 07.00 P.M to 8.00 P.M
Venue : Online (Meet Link: <http://meet.google.com/evf-nhnb-zwd>)
Resource Person : Dr. E. Parimalasundar, M.E., Ph.D.,
Associate Professor
Department of EEE
Sree Vidyanikethan Engineering College (Autonomous)
Sree Sainath Nagar, Tirupati, Andhra Pradesh

The main objective of this Guest Lecture is to impart knowledge on various applications of Power Electronics in the field of Power System Engineering.

The Guest Lecture session started with the welcome address delivered by Dr.R.Arulraj AP/EEE. After the welcome address, Dr.R.Arulraj AP/EEE has introduced the resource person, Dr.E.Parimalasundar to the participants and in addition he also mentioned the various academic and research contributions of the resource person in the field of Power Electronics.

The resource person started the session through interaction with the students about their basic knowledge in the field of Power Electronics and Power System. He also asked few questions regarding the applications of Power Electronic circuits in the various fields of engineering to the students. Then, the resource person started the presentation by explaining the basic difference between analog electronics and Power Electronics. Later, he explained the basic Power Electronics based system operation using a simple block diagram. During the block diagram presentation, he explained the functions of various block sets involved in the system. Further, he demonstrated the different types of converters available in Power Electronic circuits such as rectifiers, inverters, choppers, cyclo-converter and a.c. voltage regulator. He gave a detailed explanation about each and every converter by addressing its basic symbol, input type, output type and the various switching functionalities involved in the converter operation.

After the detailing of different types of converters, he explained the application of Power Electronic converters in the operation of Photo-voltaic (PV) system, Electric Vehicles and HVDC transmission system. In the PV system, he described how the d.c. input from PV cell is converted to a.c. to supply the load and also how the d.c. input from the PV cell is stored in the battery using dc-dc converter. Then, he explained the influence of Power Electronic converters in the operation of electric vehicle and in addition he also addressed the functionality of bi-directional converters in electric vehicles operation to the students. Finally, he explained about the application of Power Electronic converters in HVDC transmission system and how the involvement of Power Electronic devices reduces the power loss and improves the efficiency in HVDC transmission system. Apart from addressing the various applications and advantages of Power Electronic circuits, he also mentioned that the Power Electronic circuits have few disadvantages such as existence of harmonics due to switching operations which can be eliminated by using suitable filter circuits.

Finally, he gave a deeper insight on thrust areas of research in the field of Power Electronics and also the scope for future research. He also motivated the students to do their projects in Power Electronics domain and also gave useful inputs regarding higher studies in Power Electronics in India and foreign countries. At the end, he invited the

queries and doubts from the students for discussion and clarification. Students asked some interesting questions and the resource person clarified their queries with the help of real time examples.

The guest lecture was completely motivating and it kindled student's interest towards the growing technologies in power electronics and its positive impact in power system operation. The session was absolutely very useful to our student community and it serves as a greater input to their final year projects. Finally, the Guest Lecture ended with the vote of thanks delivered by Dr.R.Arulraj, AP/EEE.

Photographs of Lecture Sessions

The screenshot shows a Zoom meeting interface. The main window displays a slide titled "Power Electronics – Block Diagram". The diagram illustrates a power system with a "Source" block connected to a "Power Electronics" block, which is then connected to a "Load" block. A "Control" block is shown below the "Power Electronics" block, with a "reference" input and a "feedback" output. A text box on the slide states: "Feedback: Maintain Accuracy, we should give the output as close to desired value." The right side of the screen shows a grid of participant video thumbnails. The bottom status bar indicates the time is 7:31 PM and the host is Dr. R. Arulraj.

The screenshot shows a Zoom meeting interface. The main window displays a slide titled "Applications in Power Systems". The slide lists five applications: 1. SMPS - Switched Mode Power Supply circuit which is designed for obtaining the regulated DC output voltage from an unregulated DC or AC voltage. 2. Energy Conservation. 3. Process Control and Factory Automation. 4. Transportation. 5. HVDC. Below the list is a circuit diagram of a SMPS. The right side of the screen shows a grid of participant video thumbnails. The bottom status bar indicates the time is 7:32 PM and the host is Dr. R. Arulraj.

parimalasunder arthivannan is presenting

Power Electronics in EVs

Single Phase or 3 Phase Power Supply

Unidirectional Converter for Charging

Bidirectional Converter

13.8KV Auxiliary Supply

3-Phase Motor

Transmission System and Wheels

7:48 PM | evf-rhnb-zad

parimalasunder arthivannan is presenting

Applications of PV System

AC Load

DC Load

PV System

7:50 PM | evf-rhnb-zad

parimalasunder arthivannan is presenting

Transportation - Electric Buses and Trains

7:52 PM | evf-rhnb-zad

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Faculty In-Charge 17/6/22

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HOD/EEE 17/6/22

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Principal 17/6/2022



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

National Conference on

“Flourishing Areas in Electrical and Electronics Engineering(NACOFEE’22)”

CONFERENCE REPORT

Online mode: Google meet (<https://meet.google.com/zti-ouub-zgt>)

OBJECTIVE

Department of Electrical and Electronics Engineering, Kings College of Engineering organised a One day National level Conference titled **NACOFEE’22** on **10thJune 2022**. The major aim and feature of this conference is to bring together academicians, research scholars, engineers and industry researchers to exchange and share their experiences as well as to address the technical challenges they have faced and the solutions they have found. Academicians from various fields are invited to share their perspectives about the latest trends in their fields of expertise. This conference provides opportunities for the academicians and participants to exchange their new ideas and to establish research relations for future collaboration.

This conference focused on recent advances in Electrical and Electronics Engineering Fields/disciplines, as described below.

- Automotive Electronics
- Control Engineering
- Electrical Storage
- Hybrid Electric Vehicle
- IoT in Electrical & Electronics Engineering
- Industrial Automation
- Renewable Energy Systems
- Reliability Analysis of Electrical Machines
- Soft Computing Techniques
- Smart Power Systems
- Coastal Engineering

INAUGURAL SESSION

The Conference was inaugurated by the Chief Guest **Dr. P. RAJA, Associate Professor, Department of EEE, NIT Trichy.**

WELCOME ADDRESS

The welcome address was given by Dr.A.Albert Martin Ruban, HOD/EEE & Convenor of NACOFEE' 22. He welcomed the dignitaries, faculty members and the students from various educational Institutions across the state. He also added that, he is very much delighted to see more external participants from various reputed colleges.



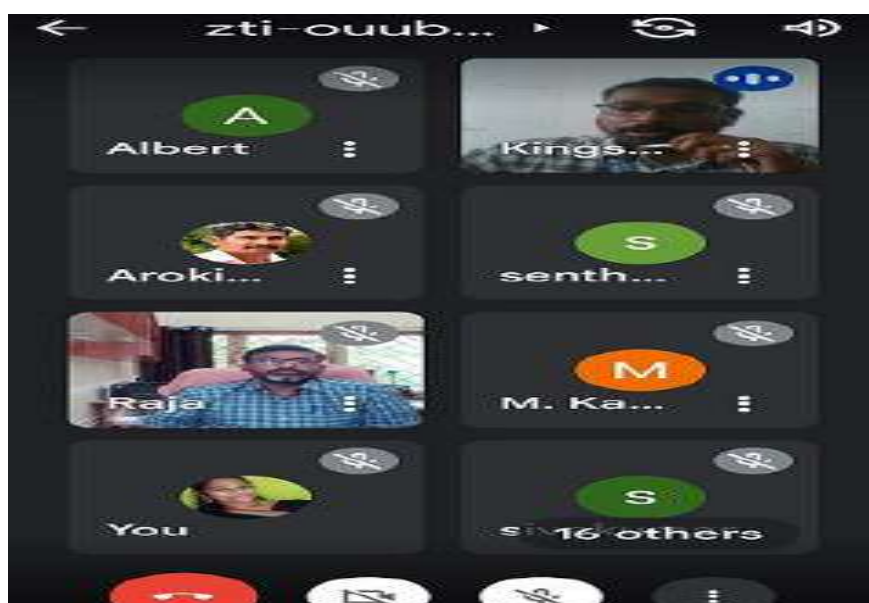
INAUGURAL SESSION

PRESIDENTIAL ADDRESS

The Presidential address was delivered by Dr.J.ArputhaVijayaSelvi, the Principal, Kings College of Engineering, Punalkulam. In the presidential address, she addressed the various challenges faced by Electrical Engineers in the present scenario to facilitate the need of the people. She also explained the latest advancements and technologies in the field of electrical engineering. Finally, she explained the importance of NACOFEE'22 and motivated the participants to use this national conference as a platform for presenting and creating innovative ideas in the domain of research. The inaugural address was delivered by Dr.S.Sivakumar, Vice-Principal, Kings College of Engineering, Punalkulam. In the Inaugural address, he explained the importance of renewable energy resources in the field of electrical engineering and its various influential impacts on the society. He also gave a brief insight on various renewable energy projects currently happening at various states in India. Dr.P.RAJA, Associate Professor, Department of EEE, NIT,Trichy, was the chief guest and delivered the keynote address.

CONFERENCE THEME

Dr.A.Albert Martin Ruban, HOD/EEE & Convenor of NACOFEE'22 portrayed the conference theme in a detailed manner. He also applauded the academicians and participants from various institutions for their participation in the conference. Then the Chief Guest was introduced by Dr.R.Arulraj, AP/EEE, Organizing Secretary of NACOFEE'22. He elaborated the academic qualification and the current research areas of the chief guest. He also detailed about his funded project works and various responsibilities held by the chief guest.



INTRODUCTION ABOUT THE CHIEF GUEST

KEYNOTE ADDRESS

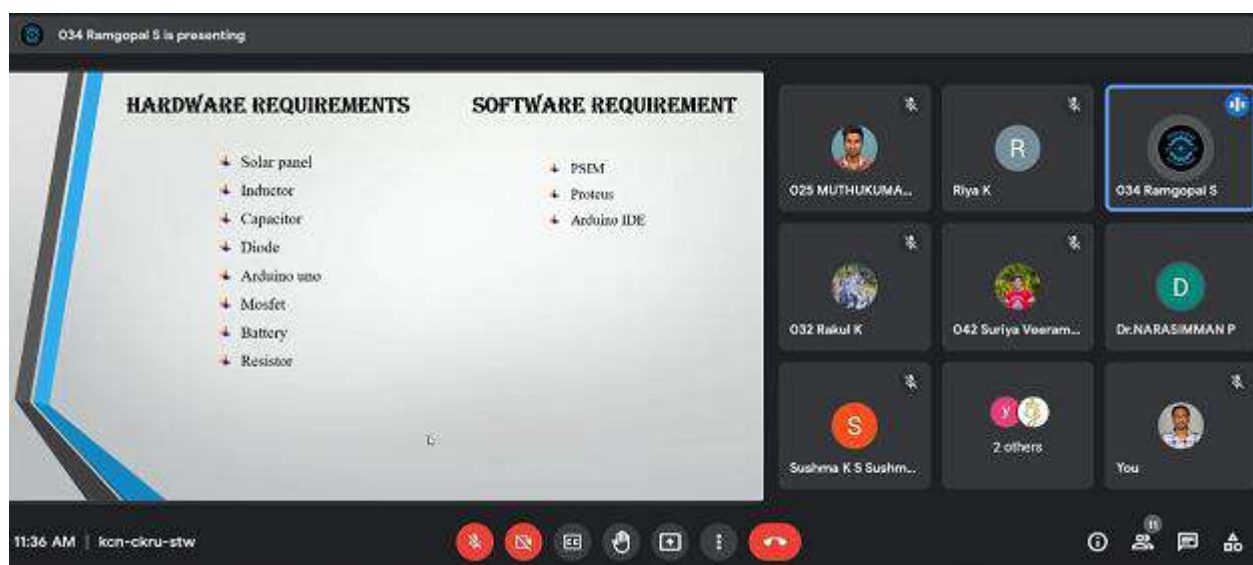
Dr.P.RAJA, Associate Professor, Department of EEE, NIT ,Trichy, graced the occasion as chief guest and delivered the keynote address. In his address, he lauded the Management and the academic administration of the institute for hosting a National Conference. He insisted that Electrical Engineering is a prestigious branch and also a toughest branch. He also gave a presentation on how electrical engineering has flourished over the areas and gave a deeper insight on the importance of automation in electrical engineering. Further, he demonstrated the importance of artificial intelligence and machine learning in the domain of Electrical Engineering. It was an educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.



CHIEF GUEST ADDRESSING THE AUDIENCE

TECHNICAL SESSION

The technical session started in an impressive manner, where participants eagerly presented their papers in various domains of Electrical Engineering in both online mode and offline mode.



TECHNICAL SESSION - STUDENT PRESENTATION

PARTICIPANT DETAILS:




TOTAL PAPERS- 36

EXTERNAL - 31

INTERNAL-5


VALEDICTORY SESSION The valedictory session was conducted in the evening. The Conference ended with a vote of thanks delivered by Dr.P.Narasimman, AP/EEE who expressed his sincere thanks to the delegates for spending their precious time for the occasion. He heartily thanked the Management, Principal, all the faculty & Staff members and the students. He also appreciated the student volunteers for their passionate efforts in making the Conference a grand success.

INVITATION



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

Department of EEE proudly
welcomes you all for the
National Conference
on
**Flourishing Areas in Electrical and Electronics
Engineering (NACOFEE'22)**



Dr. P. Raja
Associate Professor
Electrical and Electronics Engineering,
NIT Trichy - 620015
Email: praja@nitt.edu;
Phone: 0431-2503264

Date: 10.06.2022
10.00 am. to 10.30 am.
Smart Class Room

WELCOMES YOU ALL
meet.google.com/zti-ouub-zgt

Organizing Secretaries
Dr. R. Arulraj, Ph.D., AP/EEE
Mrs. P. Thirumagal, M.E AP/EEE

Co-Patron
Dr. S. Sivalakumar Ph.D
Vice-Principal

Patron
Dr. J. Arputha Vijaya Selvi, Ph.D
Principal

Conference Chair
Dr. A. Albert Martin Ruban, Ph.D
HOD/EEE

Organized by
Department of Electrical and Electronics Engineering
In association with IEEE Student Branch
Punalkulam, Gandarvakottai Taluk,
Pudukkottai Dt. - 613303.

SAMPLE CERTIFICATE



A NAAC ACCREDITED INSTITUTION
KINGS
COLLEGE OF ENGINEERING
Recognized by UGC 2(f) & 12(B)
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

CERTIFICATE OF PARTICIPATION

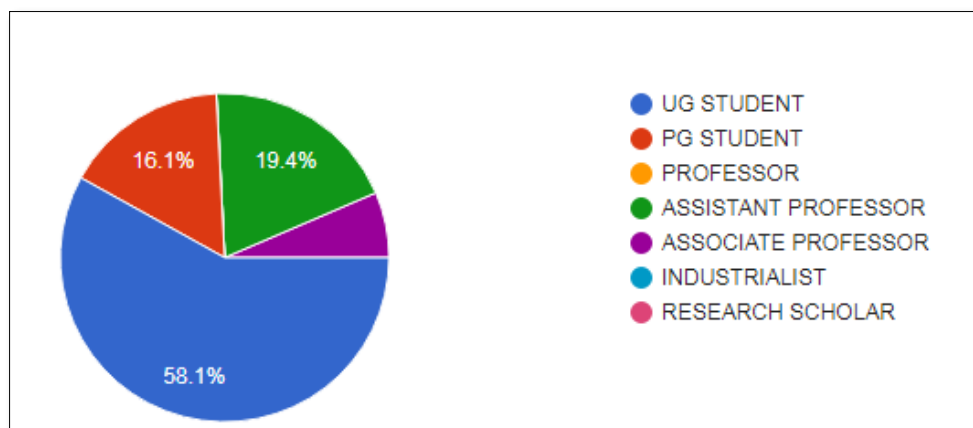
This is to certify that has
presented a paper titled
in the **National Level Conference on Flourishing Areas in Electrical
and Electronics Engineering (NACOFEE'22)** Organized by Department of Electrical and Electronics
Engineering, Kings College of Engineering, Punalkulam, Pudukkottai, Tamil Nadu, India, on 10th June 2022.

ORGANIZING SECRETARIES

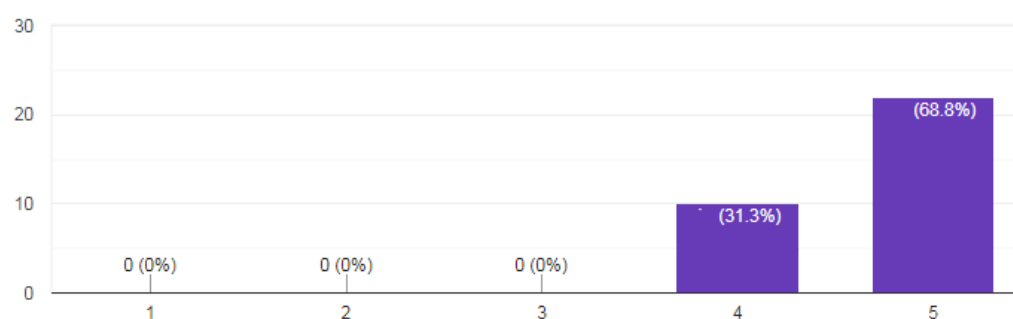
CONFERENCE CHAIR
Dr. A. Albert Martin Ruban

PRINCIPAL
Dr. J. Arputha Vijaya Selvi

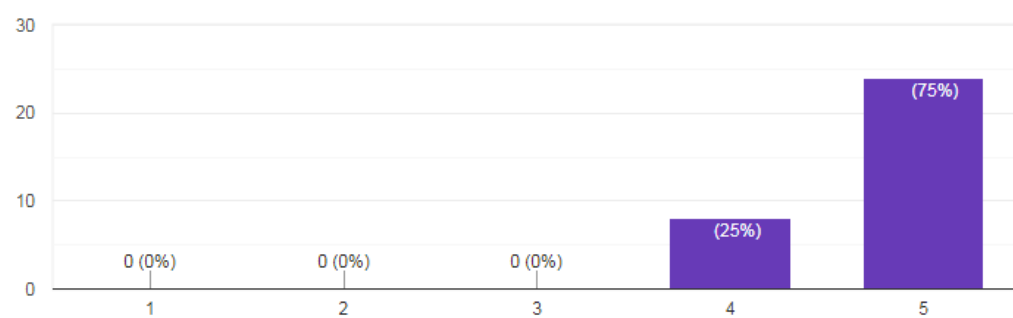
Feedback from the participants:



Keynote address by Chief Guest



Overall rating for the conference





**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022(EVEN SEMESTER)**

WEBINAR REPORT

Department of Electrical Electronics Engineering has organized webinar on "**Microbial Fuel cell-Technology for Future**" on 15.6.22 for external and internal students.

Time: 11.00 A.M to 12.00 P.M

Venue: Hybrid mode

Beneficiaries:

Internal: 62:(II, III&IV Year EEE Students)

External:30

Total:92

Resource Person (External):

Dr.Y.Thiagarajan

Associate Professor&HOD/EEE

Christ College of Engineering and Technology

Puducherry

Name of the Coordinators:

1. Mr.R.Sundaramoorthi, AP/EEE 2. Dr.M.Meenalochani, AP/EEE

The main objective of the webinar:

- To understand the important theory aspects of Fuel cell Technology and elements.
- To provide Comprehensive understanding of the functions and operations of Microbial Fuel cell.
- To impart technical skills to the students and make them to prepare simple projects and technical Presentation.

Mr.R.Sundaramoorthi, AP/EEE has welcomed all the external participants and second, third and final year EEE of our internal students. Introduction about the resource person was delivered by Dr.Meenalochani, AP/EEE. Before starting the presentation, Dr.Y.Thiagarajan, Associate Professor/EEE, have interacted with students about basic Introduction about Energy and current trends in Electrical Engineering. The entire session was segregated with four sections such as Energy scenario, basics of Fuel cell, types of fuel cells, Elements of fuel cell and current research areas in Microbial Fuel cell. In addition, activity session was also included during the presentation.

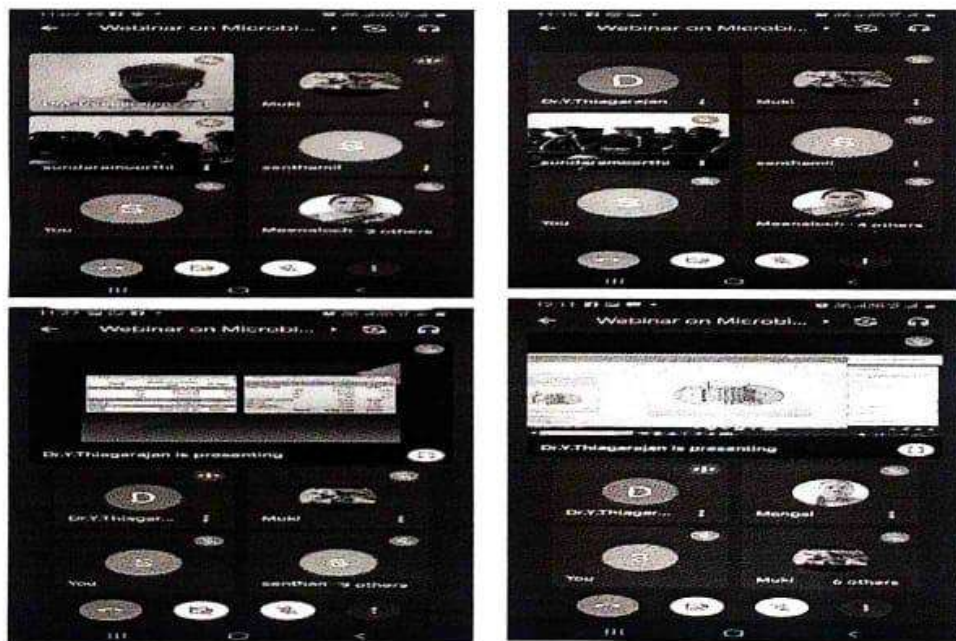
During his initial part of the session, he started with basic questions related to Energy Scenario and necessity of Fuel cell. All the external participants and Second year and final year students of our internal students have interacted well and answered. Then, he introduced about the importance of fuel cell and applications. He explained in detailed about Microbial cell(MFC) act as biocatalysts for the natural conversion to energy of organic substrates and different elements. In addition, he pointed about list of organic substrates used in MFC such as Acetate, Glucose, Lignocellulosic Biomass, Synthetic waste water, Brewery waste water and Inorganic substrates. He also discussed the concepts related to effect of Anode in MFC such as Proton Exchange membrane and graphite granules. He mentioned the effect of cathode in MFC and electrical Interaction between Electrodes-Bacterial species. He explained how different energy systems works and all the components involved in Microbial fuel cell with animation pictures. Next, he briefly explained about fuel cell and its types, graphical representation between different types of fuel cell. He also pointed out the main functions and applications of Fuel cell Energy. Then he started to present the most important concept of the MFC Commercialization and future perspectives where he mentioned that how commercialization of MFC will bring more benefits due to its function in energy production through the utilization of waste. He also mentioned that small surface area of an MFC is also a big challenge as a limited number of microorganisms can adhere to it and listed new techniques that can improve the performance of MFC which provide a more efficient configuration of small scale MFC. He also discussed about energy generation and performance stability of MFC. He has introduced about the Fuel cell examples-Energy providers and Energy storage systems. He has briefed about the different techniques of the Microbial fuel cell particularly evident within the renewable energy industry and explained how fuel cell helps countries manage their energy demand, enabling power stations to produce more electricity at peak times.

Finally, he has given idea about the implementation of Microbial fuel cell technology for Electricity generation by utilizing organic substrates that are oxidized by bacterial species can provide a promising technique for the future. Before concluding the session, he has given idea about student's project areas of Fuel cell. At the end of the session, participants from other colleges and internal participants of our department have interacted to the resource person and asked questions about importance of fuel cell and scope of job opportunities in different Energy sector.

OUTCOME:

- Students will be able to emphasize theoretical knowledge on Microbial fuel cell.
- Students can be able to understand the different types of fuel cell, smart and viable energy solution that allow the students to observe applications in this field.
- Students shall select Energy and Microbial fuel cell area for their Project work, Paper Publication, Conference presentation and PCE activities.

SNAPSHOTS



Dr. Dr.Y.Thiagarajan, Professor/EEE delivering lecture (online mode) during webinar

[Signature]
22/06/22
COORDINATORS

[Signature]
22/6/22
HOD/EEE

[Signature]
22/6/22
PRINCIPAL



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022(EVEN)

INTERNAL FACULTY SEMINAR REPORT

Department of EEE in association with IEEE has organized Internal Seminar on “DC-DC Converter Topologies for Electric vehicles and fast charging stations: state of the Art and future trends” on 31.3.2022. The main objective of the seminar is to provide basic research areas of different DC-DC Converter topologies for Electric vehicles.

Venue: Smart Class room

Resource Person (Internal):

Mr.R.Sundaramoorthi, Assistant Professor/EEE

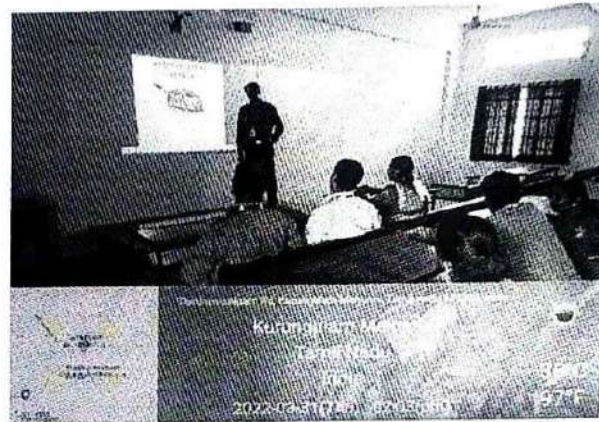
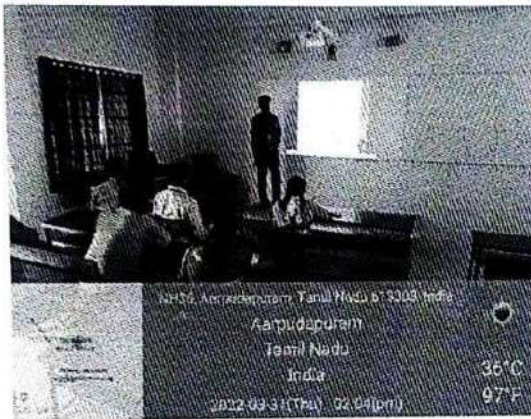
Ref: IEEE Transactions on Transportation and Electrification

Mr.R.Sundaramoorthi,AP/EEE welcomed all the faculty members of EEE department. During his session, he started with basic Introduction about converter topologies and the importance of Electric and Hybrid Electric vehicles. He pointed out that, the large number of automobiles in use around the world has caused and continues to cause serious problems of environment and human life. Air pollution, global warming, and the rapid depletion of the earth's petroleum resources are now serious problems. Electric Vehicles (EVs), Hybrid Electric Vehicles (HEVs) and Fuel Cell Electric Vehicles (FCEVs) have been typically proposed to replace conventional vehicles in the near future.. Energy storage or supply devices vary their output voltage with load or state of charge and the high voltage of the DC-link create major challenges for vehicle designers when integrating energy storage / supply devices with a traction drive. He addressed the current research area about DC-DC converters can be used to interface the elements in the electric power train by boosting or chopping the voltage levels. Due to the automotive constraints, the power converter structure has to be reliable, lightweight, small volume, with high efficiency, low electromagnetic interference and low current/voltage ripple. He also explained about comparative study on three DC/DC converters topologies (Conventional step-up dc-dc converter, interleaved 4-channels step-up dc-dc converter with independent inductors and Full-Bridge step-up dc-dc converter) are carried out.

The modeling and the control of each topology are presented. Simulations of 30KW DC/DC converter are carried out for each topology. This study takes into account the weight, volume, current and voltage ripples, Electromagnetic Interference (EMI) and the efficiency of each converter topology. He briefed about the knowledge on different configurations of DC-DC Converters. He broadly given the ideas of Electric vehicle Battery Management Systems function such as (a) Provide battery safety and longevity, a must-have for Li-ion (b) Reveal state of function in the form of state of charge (SoC) and state of Health (SoH) (c) Prompt caution and service. He also explained different types of battery, importance and functions of Hybrid Electric vehicle. In addition, he also described charging stations importance and implementation. He has given broad idea of different features and specifications of BMS.

He briefed that, the different configurations of EV power supply show that at least one DC/DC converter is necessary to interface the FC, the Battery or the Super capacitors module to the DC-link. In electric engineering, a DC to DC converter is a category of power converters and it is an electric circuit which converts a source of direct current (DC) from one voltage level to another, by storing the input energy temporarily and then releasing that energy. In addition that, he explained about bi-directional converter can move power in either direction, which is useful in applications requiring regenerative braking and the amount of power flow between the input and the output can be controlled by adjusting the duty cycle (ratio of on/off time of the switch). He broadly explained about transformer-based converters may provide isolation between the input and the output and listed main drawbacks of switching converters include complexity, electronic noise and high cost for some topologies. He introduced about research areas on Electric vehicles such as cell balancing techniques, State of charge methods, State of Health and wireless charging techniques. He has briefed about the different techniques of estimating state of charge, state of health mechanisms and applications. He mentioned detailed explanation about all the methods of balancing techniques safe operating Area of different types of cells. Finally he pointed out what are the current research areas in battery Electric vehicles and Battery Management systems.

SNAPSHOTS



Mr.R.Sundaramoorthi AP/EEE delivering lecture during internal faculty Seminar

OUTCOME:

- Faculty will able to highlight basic research areas on DC-DC Converter and Hybrid Electric vehicles.
- Able to understand the different types of Battery Management Functions and methods to observe applications in this field.
- Learn how to model DC -DC Converter with simulink tool boxes.

R. Sundaramoorthi
FACULTY INCHARGE 4/4/2022

A. Sundaramoorthi
HOD/EEE 4/4/22

J. Sundaramoorthi
04/4/2022
PRINCIPAL



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22 EVEN
 Internal IEEE Seminar – Report

Title of the seminar	: "Smart Grid Security"
Date	: 25.03.2022
Resource Person	: Mr.J.Arokiaaraj, AP/EEE, KCE
Beneficiaries	: EEE Faculty Members- 7
Venue	: EEE – Smart Classroom

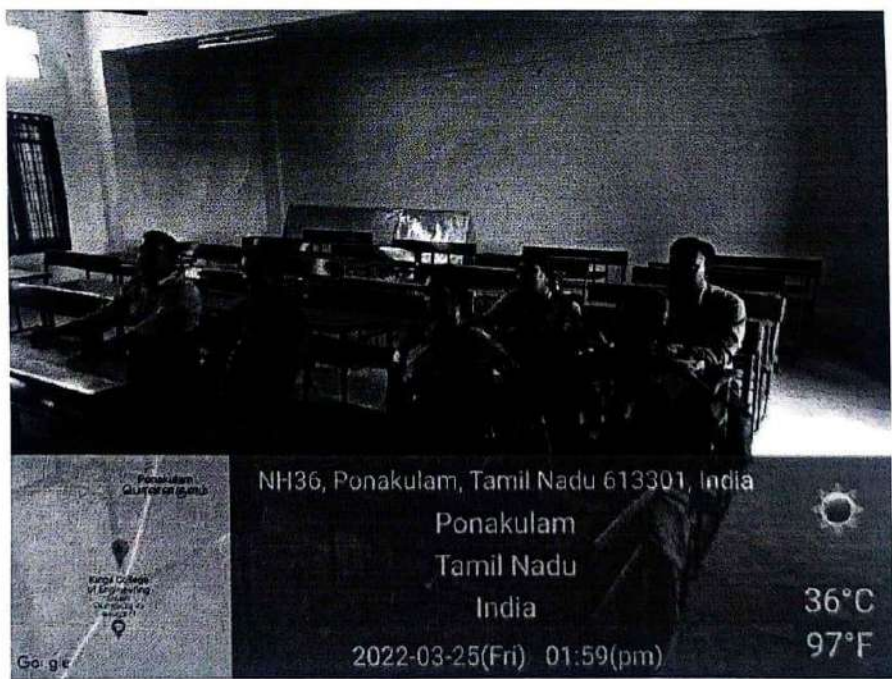
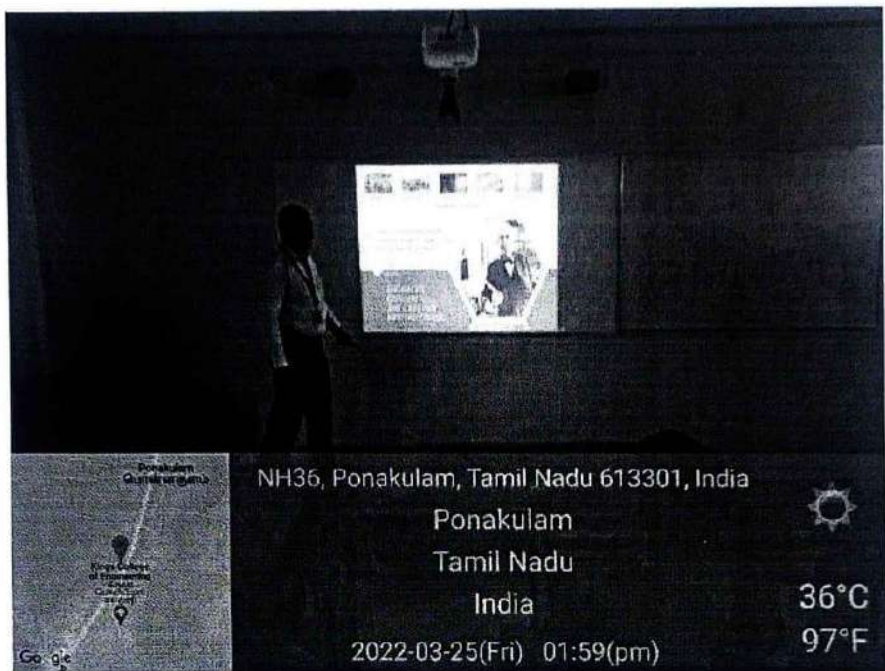
On behalf of Department of EEE, IEEE Branch has organized Internal Seminar on "Smart Grid Security" for faculty members; Department of EEE on 25.03.22 The main objective of the internal seminar is to provide exposure to various research areas to our faculty members.

The following points were discussed during the session:

- The traditional electrical power grid
- Perspicacious grid integrates the traditional electrical power grid with information and communication technologies (ICT)
- Highlighted the involution of the keenly intellective grid network and discuss the susceptibilities concrete to this sizably voluminous heterogeneous network
- Domains of a smart grid
- Basic network architecture
- Attackers and types of attacks
- Challenges for new security solutions

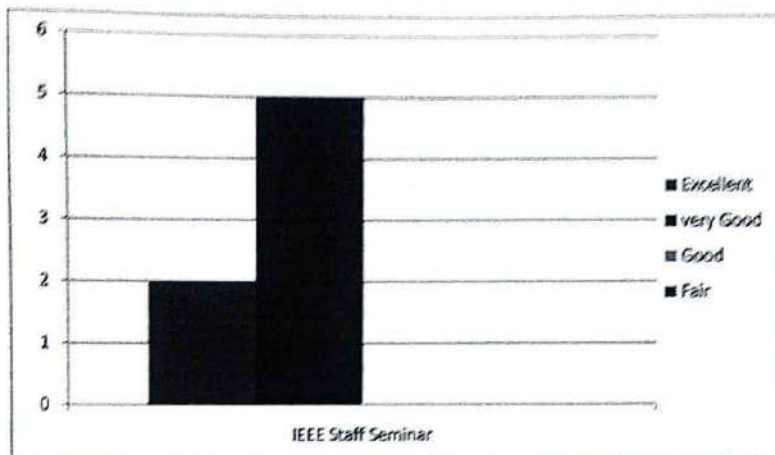
Conclusions:

Traditional power systems are moving towards digitally enabled keenly intellective grids which will enhance communications, ameliorate efficiency, increment reliability, and reduce the costs of electricity accommodations. The massiveness of the astute grid and the incremented communication capabilities make it more prone to cyber attacks. Since the keenly intellective grid is considered a critical infrastructure, all susceptibilities should be identified and adequate solutions must be implemented to reduce threaten to an acceptable secure level.



Snapshot from Seminar

Feedback Analysis:



References:

1. S. Collier, "The emerging enernet: Convergence of the smart grid with the internet of things," in Rural Electric Power Conference (REPC), 2015 IEEE, April 2015, pp. 65-68.
2. H. Hu, Y. Wen, T.-S. Chua, and X. Li, "Toward scalable systems for big data analytics: A technology tutorial," Access, IEEE, vol. 2, pp.652-687, 2014.
3. C. Beasley, X. Zhong, J. Deng, R. Brooks, and G. Kumar Venayag-amoorthy, "A survey of electric power synchrophasor network cyber security," in Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2014 IEEE PES, Oct 2014, pp. 1-5
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5. S. Uludag, s. Zeadally, and B. Mohamad, "Techniques, taxonomy, and challenges of privacy protection in the smart grid," Computer Science, Engineering and Physics, May 2015. [Online]. Available:<http://deepblue.lib.umich.edu/handle/2027.42/111644>

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Faculty In-Charge

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22/3/22
HOD/EEE

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22/3/2022
Principal



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 EVEN

Internal IEEE Seminar – Report

Title of the seminar	: “PI controlling of Air Conditioning System”
Date	: 28.04.2022
Resource Person	: Mr.S.R.Karthikeyan, AP/EEE, KCE
Beneficiaries	: EEE Faculty Members- 7
Venue	: EEE – Smart Classroom

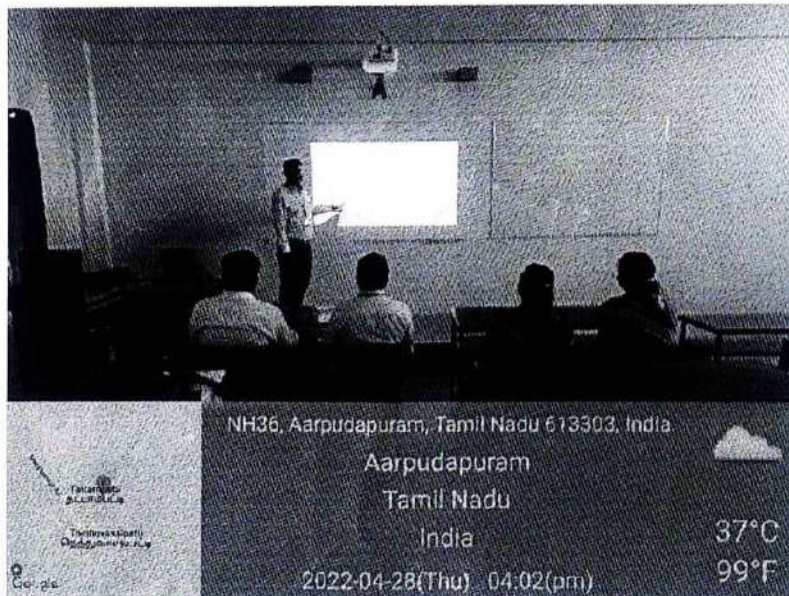
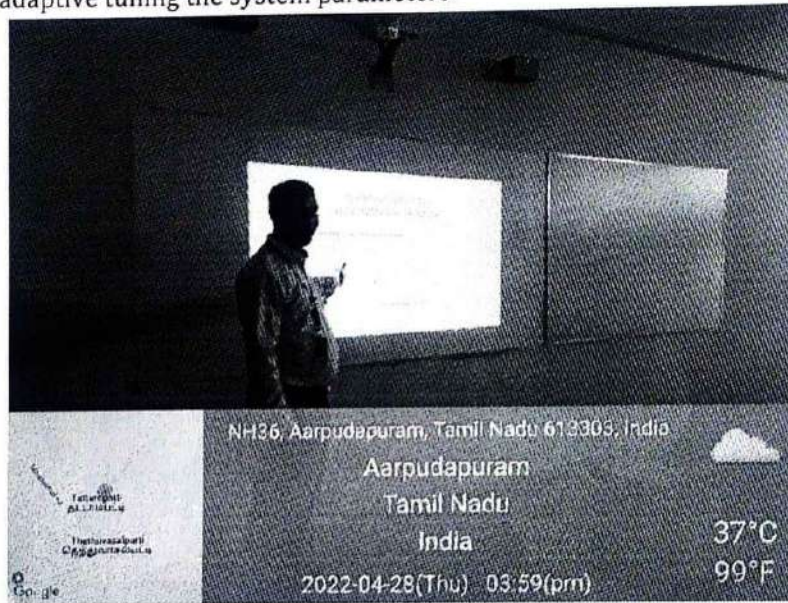
On behalf of Department of EEE, IEEE Branch has organized Internal Seminar on “PI controlling of Air Conditioning System” for faculty members, Department of EEE on 28.04.2022. The main objective of the internal seminar is to provide exposure to various research areas to our faculty members.

The following points were discussed during the session:

- Introduction of controller.
- The traditional PID controller is widely used in a variety of industrial production situations and has achieved successful applications.
- Model of the air-conditioning system.
- The design of the fuzzy PI controller.
In the design of the PI control, K_p and K_i can be determined according to the mathematical model of the plant, and then the controlled variable can be calculated according to error e , thus the actuator is driven to decrease the system error until the controlled plant to be steady in the tolerance range.
- Structure of the adaptive fuzzy PI controller.
- Determining the membership function.
The input of the fuzzy controller is Error E and the variable rate of error EC , and the output is the parameters of the PI controller K_p , K_i .
- Constructing the fuzzy rule.
The main problem with fuzzy logic controller generation is related to the choice of the regulator parameters. Indeed, there is no systematic procedure for the design of a fuzzy controller.

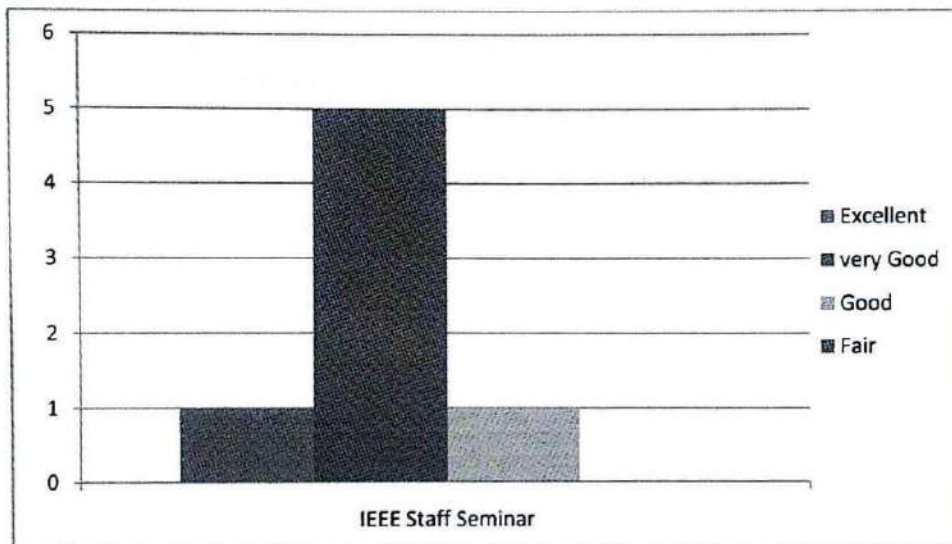
Conclusions:

It is difficult for the traditional PID controller to realize the speedy and accurate response without overshoot, so the parameters self-adaptive fuzzy PI controller is proposed in the air-conditioning system. By making use of PI control and fuzzy control synthetically, the control effect of the air-conditioning system has been increased to a great extent. The hybrid control is designed to eliminate the static error which exists in the fuzzy controller and achieve the requirements for real-time and high precision by means of adaptive tuning the system parameters.



Snapshot from Seminar

Feedback Analysis:



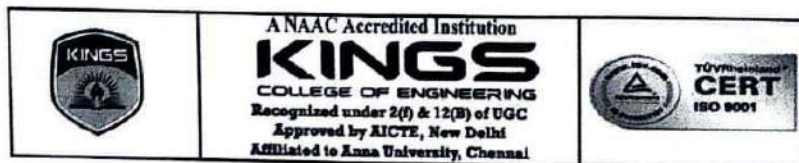
References:

- [1] C.J. Zhang, Y.H. Wang. Fuzzy PI controller of high precision and its application in the temperature control (In Chinese). Automatic Instruments, vol.23, No.7, pp. 21-23, 2002.
- [2] Akbiyik, B., Eksin I., Guzelkaya M., et al., Evaluation of the performance of various fuzzy PID controller structures on benchmark systems, 4th International Conf. on Electrical and Electronics Engineering, Bursa, Turkey, 388-393, 2005.
- [3] Jianping Xie¹, Xiaohong Kong^{2*}, Xiaoyan Huang¹, Qingjie Yang²., Application of Self-adaptive Fuzzy PI Control in the Air-conditioning System 6th International Conf. on Electrical and Electronics Engineering, Bursa, Turkey, 425-432, 2019.
- [4] W. Hu, F.Z. Wang, F.S. Yu. Study on the fuzzy PI control strategy of the water level of the steam dome in industrial boilers (In Chinese). Journal of Jiaozuo Technical Institute, vol.20, No.4, pp. 273-277, 2001.
- [5] W.L. Sun. Study on the heating system control (In Chinese). (MS., North China Electric Power University, China), pp. 20-29, 2003.

S. A. Barthany 28/4/22
Faculty In-Charge

A. M. M. 28/4/22
HOD/EEE

J. M. M. 28/4/22
Principal



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / EVEN SEMESTER

Date: 01.05.2022

INTERNAL FACULTY SEMINAR REPORT

Objective:

- To impart knowledge to faculty on recent developments and technological advancements in the field of Electrical and Electronics Engineering.
- To improve the IEEE journal access by faculty through which they can update their knowledge on recent topics

Title: Internet of Flying Things

Internal seminar for faculty of Electrical and Electronics Engineering department was conducted on 29.04.2021 from 3.00 P.M to 4.00 P.M in EEE Smart class room. Dr.M.Meenalochani, AP/EEE lectured on the topic "Internet of Flying Things". She explained that flying things such as drones and Unmanned Aerial Vehicles (UAVs) have been applied in several fields, usually operating in cooperative and collaborative swarms to enable the execution of more dynamic missions. Thus, the new Flying Adhoc Networks (FANETs) paradigm has emerged, a subset of mobile ad hoc networks with specific characteristics that arise from the aviation context. Recently, the ideas from FANETs have started to be synthesized with those from the Internet of Things (IoT), originating the Internet of Flying Things (IoFT), a paradigm which enables an important new level of applications, solves known issues in UAVs and IoT, and expands the range of future applications.

She explained that COVID-19 has increased the use of flying IoT in general. China has deployed drones for crowd monitoring in order to maintain social distance. In addition, several European countries are using unmanned aerial vehicles (UAVs) for announcements or

broadcasting in order to take appropriate actions. Agricultural drones may be used to spray disinfectants in order to stop the transmission of a deadly virus. Drones, on the contrary, can be used to deliver medicine quickly and reduce the burden on hospitals.

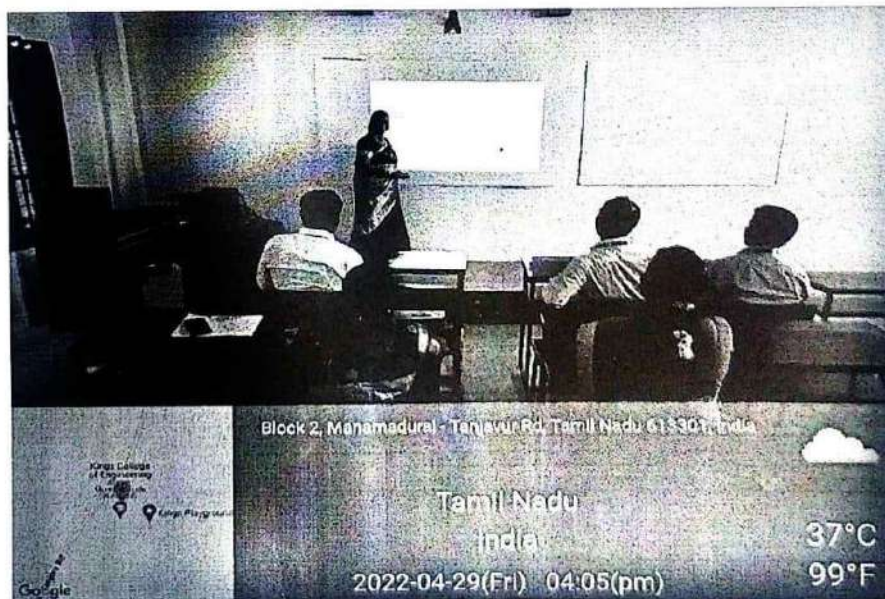
The use of flying IoT in healthcare would revolutionize the world. Aerial IoT can be used to keep track of athletes' fitness when they are competing. However, in the near future, drones will be used not only for public protection and disaster relief operations but also for many other civilian, commercial and governmental services. Some good examples are surveillance and reconnaissance, public safety, homeland security, forest fire monitoring, environmental monitoring, security and border surveillance, farming, or even Internet delivery, architecture surveillance, goods transportations such as Amazon Prime Air designed to safely deliver packages to customers within 30 minutes using small drones. With their countless applications, UAVs will soon be influentially a part of our daily life; a necessary technology similar to today's smart phones. Moreover, there are unique services that can be provided only from height (i.e., the sky). Drones are, therefore, highly useful for high-risk life-threatening operations such as flying over a volcano to inspect its activity level or above a radiation-contaminated region.

Flying over a location, drones can send real-time information about road traffic that can be compiled into a central server and used by pedestrians and vehicle drivers to decide on their routes. As another application, drones can be similarly used in meteorology. Instead of using dedicated drones to collect the data about the weather of a particular city, any drone flying above the city can collect the desired information; e.g., temperature, wind speed, and humidity; and send it to a central server. Based on this "drone-sensing" approach, accurate weather prediction can be made, above all with less efforts and highly reduced costs. Drones can also be used as rescue providers. Indeed, in case a person falls down on the street, any drone flying above that region could take a photo/video of the incident and send it to a central surveillance center. Until the arrival of a professional rescue team, an "ambulance" drone carrying a suitable medical kit can reach the location and suitable passersby may be selected and prompted to use the kit to provide first aid.

Outcomes:

- Enhance the knowledge on Internet of Flying Things
- Provides an opportunity to know the various applications of flying objects using IoT

Snapshots



W. V. V.
Faculty In Charge

A. Mmm
HoD/EEE

J. Mmm
Principal



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22(EVEN SEMESTER)**

INTERNAL SEMINAR-REPORT

Department of EEE has organized Internal Seminar on "IOT BASED ELECTRIC VEHICLES" for second, third and final year EEE students on 6.4.2022.

Beneficiaries: Total:42:(II Year EEE Students)

Time: 3.00 P.M to 4.15 P.M

Venue: Smart classroom-Department of EEE

Resource Person (Internal):

Mr.R.Sundaramoorthi, Assistant Professor/EEE

The main objective of the internal seminar:

- **To understand the important theory aspects of Electric vehicles.**
- **To provide Comprehensive understanding of the functions and operations of Internet of Things and components.**
- **To impart technical skills to the students and make them to prepare projects and technical presentation.**

Mr.R.Sundaramoorthi, AP/EEE has welcomed all the second year EEE students. Before starting the presentation, he interacted with students about basic Introduction about Electric vehicles, Internet of Things and current trends in Electrical Engineering. The entire session was segregated with four sections such as Electric vehicle scenario, Hybrid Electric vehicle components, Internet of Things and current research areas in IoT based Electric vehicles. In addition, job opportunities and EV market scenario questions and questions and answer session was also included during the presentation. During his initial part of the session, he started with basic questions related to Internet of things(IoT) based Electric vehicles(EV) and comparison between conventional and Battery Electric vehicles. All the Second year students have interacted well and answered.

Then, he introduced about classification of Electric vehicles such as Battery Electric vehicle, Hybrid Electric vehicle and Plug-in Hybrid Electric vehicle. He explained how hybrid Electric vehicle works and all the components involved in HEV with current research problems. Next, he briefly explained about battery and its types, graphical representation between various batteries. He pointed out the main parameters and terminals of battery such as (a)Capacity (b)specific Energy (c)Energy density (d)Specific power (e)Energy Efficiency (f)State of Charge(g)Depth of Discharge. Then he started to present the most important part of EV such as Battery Management system and wireless techniques.

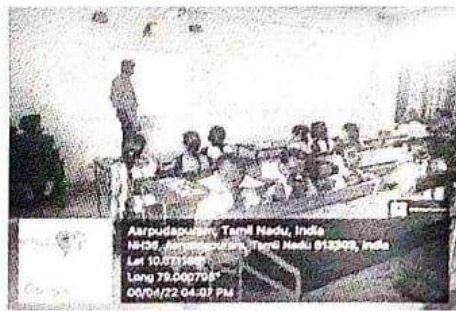
In the next part of the session, he has broadly explained about basics concepts of IoT and associated Components. He pointed out The Internet of Things (IoT) which describes the network of physical objects that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. He has introduced about the IoT Modules and described how these devices range from ordinary household objects to sophisticated industrial tools by means of low-cost computing, the cloud, big data, analytics and mobile technologies with minimal human intervention. Then, he explained about Industrial IoT (IIoT) refers to the application of IoT technology in industrial settings, especially with respect to instrumentation and control of sensors and devices that engage cloud technologies. He mentioned that, industries have used machine-to-machine communication (M2M) to achieve wireless automation and control. But with the emergence of cloud and allied technologies (such as analytics and machine learning), industries can achieve a new automation layer and with it create new revenue and business models. IIoT is sometimes called the fourth wave of the industrial revolution, or Industry 4.0.

In the final part of the session, he explained about IoT applications in Electric vehicles to measure and analyzes the functions of battery Management systems. He has briefed about the different techniques of estimating state of charge (SOC), state of health (SOH) mechanisms and applications. The following parameters are involved in SOC and SOH(a)Voltage (b)Current (c)Temperature (d)Power. He has given broad idea of different features and specifications of BMS. .Before concluding the session, he has given idea about research aspects in EV and projects areas of Hybrid Electric vehicles. At the end of the session, students from second year and final year interacted and asked questions about Converters importance and scope of job opportunities in EV and future development of energy storage systems.

OUTCOME:

- Students will be able to emphasize theoretical knowledge on Internet of Things and Hybrid Electric vehicles.
- Students can be able to understand the different types of Electric vehicles, Components of Hybrid Electric vehicles and IoT that allow the students to observe applications in this field.
- Students shall select IoT based Hybrid Electric Vehicle area for their Project work, Paper Publication, Conference presentation and PCE activities.

SNAPSHOTS



Mr.R.Sundaramoorthi AP/EEE delivering lecture during Internal Seminar

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FACULTY INCHARGE

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HOD/EEE

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22 EVEN
 Internal Students Seminar – Report

Title of the seminar : "Hybrid Energy Systems"
Date : 23.05.2022
Resource Person : Mr.J.Arokiaraj, AP/EEE, KCE
Beneficiaries : EEE Students - 52
Venue : III -EEE - ICT Classroom – Hall No: 133

THE MAIN OBJECTIVE OF THE INTERNAL SEMINAR:

- The main objective of the internal seminar is to provide exposure to various research areas to our students.
- To provides a critical view into the behaviour of Hybrid Energy Systems.
- Hybrid systems can increase the amount of dispatchable renewable energy generation as well as the reliability of rural energy access.
- A hybrid energy system combines multiple types of energy generation and/or storage or uses two or more kinds of fuel to power a generator.

THE FOLLOWING POINTS WERE DISCUSSED DURING THE SESSION:

- Hybrid systems simplify technology refreshment by easing the process of combing existing equipment with newer technologies. This way you maximize use out of both existing hardware and software but can still take advantage of other technologies.

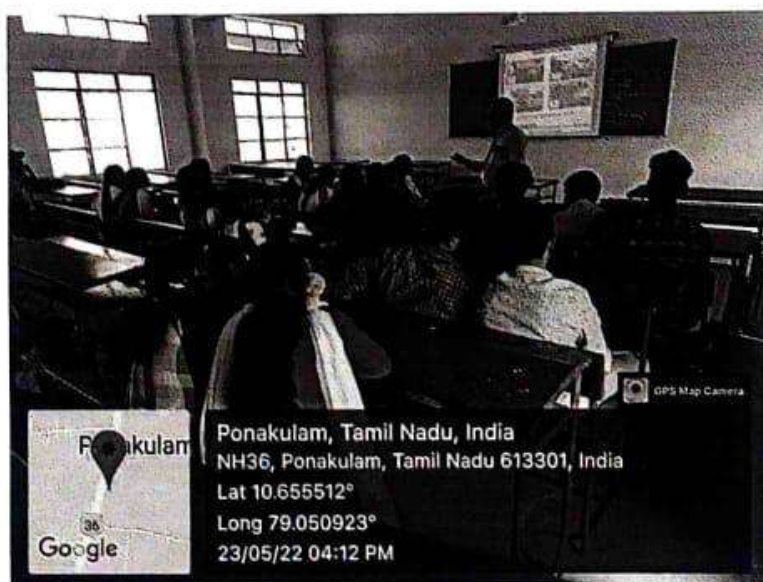
THERE ARE TWO DIFFERENT TYPES OF HYBRID SYSTEMS:

- Parallel and series hybrids.
- In a parallel hybrid bus, the combustion engine and the electric motor are connected to the transmission independently.
- A series hybrid bus is exclusively propelled by the electric motor.

Along with mild hybrids, the parallel hybrid system is generally considered the best hybrid option for drivers who rack up lots of miles. Also, it's important to remember that EV mode might cut pollution in town, but the electricity you're using is mainly generated by burning fuel in the engine.

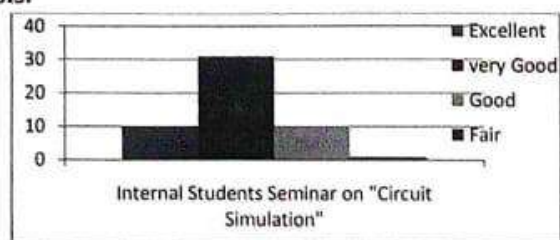
OUTCOME:

- Hybrid energy systems are still an emerging technology.
- It is expected that technology will continue to evolve in the future, so that it will have wider applicability and lower costs.
- There will be more standardized designs, and it will be easier to select a system suited to particular applications.
- There will be increased communication between components.
- This will facilitate control, monitoring, and diagnosis.
- Finally, there will be increased use of power electronic converters.
- Power electronic devices are already used in many hybrid systems, and as costs go down and reliability improves, they are expected to be used more and more.



Snapshot from Seminar

Feedback Analysis:



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Faculty In-Charge

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HOD/EEE

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Principal



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22 EVEN
 Internal Students Seminar – Report

Title of the seminar : "Circuit Simulation"

Date : 23.05.2022

Resource Person : Mr.S.R.Karthikeyan, AP/EEE, KCE

Beneficiaries : EEE Students - 52

Venue : III –EEE – ICT Classroom – Hall No: 133

THE MAIN OBJECTIVE OF THE INTERNAL SEMINAR:

- The main objective of the internal seminar is to provide exposure to various research areas to our students.
- To provides a critical view into the behaviour of electronic circuits.
- To validate circuit behaviour and performance via circuit simulation prior to manufacturing.

THE FOLLOWING POINTS WERE DISCUSSED DURING THE SESSION:

- Circuit simulation is a process in which a model of an electronic circuit is created and analyzed using various software algorithms, which predict and verify the behaviour and performance of the circuit. Since fabrication of electronic circuits, especially integrated circuits (ICs), is expensive and time-consuming, it is faster and more cost-effective to verify the behaviour and performance of the circuit using a circuit simulator before fabrication.
- There are different types of circuit simulators catering to varied needs across the accuracy-performance/capacity spectrum. At one end of the spectrum are analog simulators that solve accurate representations of the electronic circuits.
- Digital simulators are commonly used to simulate very large circuits.

Types of Circuit Simulation:

There are three basic types of circuit simulation: analog, digital, and mixed-mode.

- **Analog circuit simulation** involves the use of highly accurate models (i.e., representations) of the electronic circuit to achieve high accuracy.
- **Digital circuit simulation** involves the use of simpler models of the electronic circuit.
- **Mixed-mode circuit simulation** combines the analog and digital simulation approaches.

Benefits of Circuit Simulation

- **Memory Performance.** The read and write access times and latency of memory devices are built from analog circuit simulation of the bit cells and read/write paths inside these memories.
- **Overall Digital Simulation Accuracy.** Digital circuit simulators model the propagation of voltage for logic level 1 and logic level 0. Analog circuit simulation is used to determine the time it takes for a circuit to transition between these voltage levels. This forms the basis for the overall accuracy of the digital circuit simulator.
- **Noise and Crosstalk.** Higher level models for noise and crosstalk are developed based on the detailed circuit level analysis of these parasitic effects from analog circuit simulations.
- **Optimization of High-Frequency and High-Power Circuits.** These types of circuits must undergo detailed continuous time analysis to determine their behavior and performance criteria. Analog circuit simulation delivers these important analyses.
- The overall performance and behavior of complex digital circuits (core processors and AI accelerators are examples) are verified with digital circuit simulation.

Outcome:

- Students will be able to highlight theoretical knowledge on Circuit Simulation.
- Students can be able to understand the different types of simulation.
- Students can be able to understand the benefits of Circuit Simulation.
- Students can able to use Circuit Simulation for Publication, Conference presentation and PCE activities.





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / EVEN SEMESTER

INTERNAL FACULTY SEMINAR REPORT

Department of EEE has organized internal seminar on "Expert Systems" for second, third and final year EEE students on 23.04.2022.

Objective:

- To impart knowledge to students on the basics of Artificial Intelligence
- To provide adequate knowledge on different types of Expert Systems and its applications in the field of Electrical and Electronics Engineering.
- To facilitate the use of Artificial Intelligence techniques in their final year projects and seminar presentations.

Beneficiaries: Total: 62 (II, III & IV Year EEE Students)

Time: 3.00 P.M to 4.00 P.M

Resource Person (Internal): Dr.M.Meenalochani, Assistant Professor/EEE

Dr.M.Meenalochani, AP/EEE started her lecture with the basics of intelligence shown by human beings and the human methodology for providing solutions to various problems faced by them. Then, she introduced the concept of Artificial Intelligence and how it can be impinged to a computing device to solve any problem. She clearly stated that Artificial Intelligence can be accomplished by studying how human brain thinks, how humans learn, decide, and work while trying to solve a problem, and then using the outcomes as a basis of developing intelligent software and systems. She gave examples of different social media websites which track human searches and provides recommendations based on their search using Artificial Intelligence techniques. The students were able to recognize the processes involved in web search which may be a product, song, movie etc. and how they are getting recommendations.

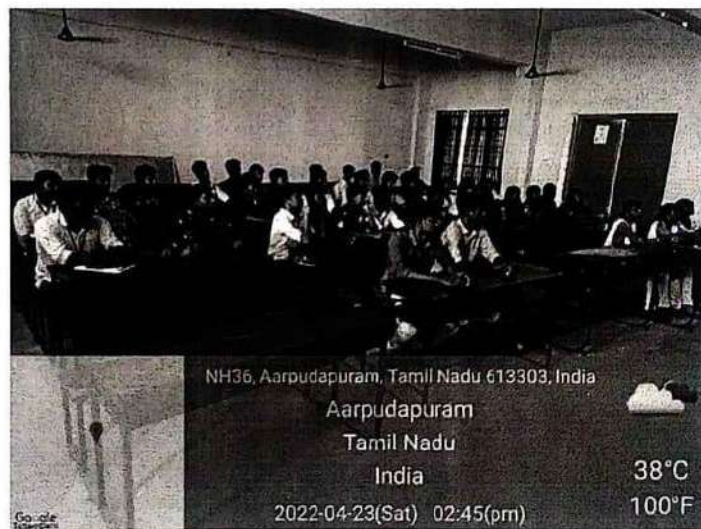
Then she explained that an expert system is a computer program that uses Artificial Intelligence (AI) technologies to simulate the judgment and behavior of a human or an organization that has expert knowledge and experience in a particular field. Typically, an expert system incorporates a knowledge base containing accumulated experience and an inference or rules engine -- a set of rules for applying the knowledge base to each particular situation that is described to the program. The system's capabilities can be enhanced with additions to the knowledge base or to the set of rules. Current systems may include machine learning capabilities that allow them to improve their performance based on experience, just as humans do. Expert systems have played a large role in many industries including in financial services, telecommunications, healthcare, customer service, transportation, video games, manufacturing, aviation and written communication. A more recently developed expert system, ROSS, is an artificially-intelligent attorney based on IBM's Watson cognitive computing system. ROSS relies on self-learning systems that use data mining, pattern recognition, deep learning and natural language processing to mimic the way the human brain works.

She also explained that an expert system includes the following components: a knowledge base, an inference engine, an explanation facility, a knowledge acquisition facility, and a user interface. The knowledge base represents facts about the world. The inference engine is the central processing unit of the expert system. An inference engine works on rules and regulations to solve complex problems. It uses information from the knowledge base. It smartly selects factual data and rules, and processes and applies them to answer the user's query. It also gives proper reasoning about the data in the knowledge base. This helps detect and deduce complex problems and prevents recurrence. And the last, the inference engine formulates conclusions.

Outcome:

- Enhance the knowledge on Artificial Intelligence
- Students are able to understand the concepts and operation of Expert Systems, their advantages over conventional techniques and their applications
- Students shall select Artificial intelligence techniques for their Project work, Paper Publication, Conference presentation and PCÉ activities.

Snapshots:



Dr.M.Meenalochani AP/EEE delivering lecture during Internal Seminar

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Faculty In-Charge

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23/4/22
HoD/EEE

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23/4/2022
Principal



A NAAC Accredited Institution
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 COLLEGE OF ENGINEERING
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 Affiliated to Anna University, Chennai



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / EVEN SEMESTER

Date: 05.05.2022

INTERNAL SEMINAR REPORT

Objective:

- To impart knowledge to students on recent developments in the field of Electrical and Electronics Engineering
- To educate the students on technological advancements which facilitate them to utilize the concepts in developing projects

Title : "GREEN ENERGY"

Target: Second and Third year EEE students

Internal seminar for second, third and final year students of Electrical and Electronics Engineering department was conducted on 05.05.2022 from 3.25 P.M to 4.15 P.M in smart classroom. Mrs.P.Thirumagal, AP/EEE lectured on the topic "GREEN ENERGY".

During the session the following points were discussed:

- Green energy is that which comes from natural sources, such as the sun. Clean energy are those types which do not release pollutants into the air, and renewable energy comes from sources that are constantly being replenished, such as hydropower, wind power or solar energy.
- Green energy provides reliable power supplies and fuel diversification, which enhance energy security, lower risk of fuel spills, and reduce the need for imported fuels. Renewable energy also helps conserve the nation's natural resources.

1. LED Lighting:

- A simple example of green tech is LED lighting. By avoiding incandescent lights, there's a substantial gain on efficiency. LED light bulbs use less energy than traditional incandescent. Smart LEDs are a simple smart home upgrade that even apartment dwellers may adopt.



2. Solar Panels:

- While solar panels aren't exactly new, lower prices coupled with monetary incentives such as tax credits in many areas have made solar panels a solid solution. Even a single solar water heater drastically reduces energy use. Since solar energy is so efficient, there's a pretty quick turnaround for recouping any losses.

3. Wind Energy:

- Wind energy is associated with a wind farm. But small-scale windmills offer a nifty method of adopting such green tech in a residential setting. The amount of energy you can offset with a windmill varies quite, as does the cost of adoption and installation. Offshore wind turbines provide steady, reliable clean energy.

4. Electric Vehicles:

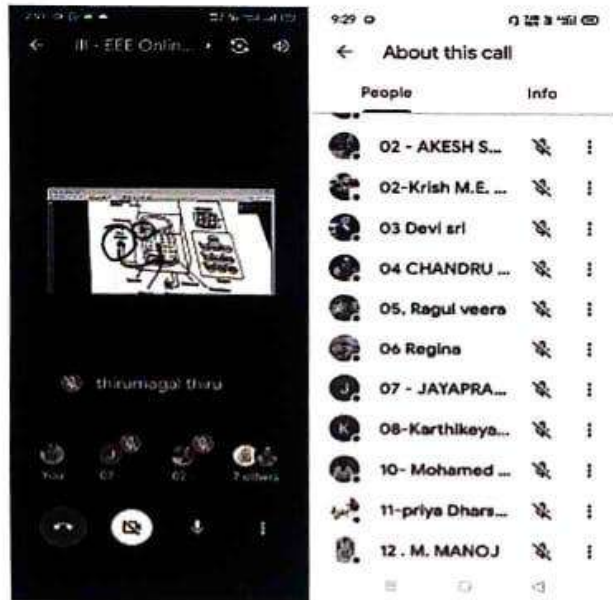
- Advances in EV technology find wireless charging capabilities as the electric auto industry continues to evolve. Granted, charging an electric vehicle off of a coal-powered grid isn't as sustainable as it could be, but better gas mileage and zero emissions still makes it a better alternative than a petroleum-powered car. EV may be the future of the automotive industry.

5. Programmable Thermostats

- A programmable thermostat is a low-cost green technology solution. Virtually any home or apartment now boasts one. A smart thermostat does add the convenience of being able to monitor and change temperature remotely.

6. Vertical Farming:

- Vertical farming is an eco friendly technology as simple as its name. This is the concept of growing produce in stacked vertical layers rather than horizontally. The benefits of vertical farming are increased sustainability. Some vertical farming configurations don't even require soil, and reduce water use exponentially.



P. Me
5/5/22
Faculty In Charge

A. Mmm
5/5/22
HOD/EEE

T. Mmm
05/05/2022
Principal



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22 EVEN
Internal Students Seminar – Report

Title of the seminar : "Real Time Application for Embedded systyem"
Date : 12.05.2022
Resource Person : Mrs.C.Senthamilarasi, AP/EEE, KCE
Beneficiaries : EEE Students - 52
Venue : III –EEE – ICT Classroom – Hall No: 133

THE MAIN OBJECTIVE OF THE INTERNAL SEMINAR:

- The main objective of the internal seminar is to provide exposure to various research areas to our students.
- To provides a critical view into the behaviour of embedded System.
- To validate basic concepts of embedded systems, operating systems and specifically at Real Time Operating Systems in order to identify the features one has to look for in an RTOS before it is used in a real-time embedded application.

THE FOLLOWING POINTS WERE DISCUSSED DURING THE SESSION:

- An embedded system is generally a system within a larger system. Modern cars and trucks contain many embedded systems. One embedded system controls anti-lock brakes, another monitors and controls vehicle's emission and a third displays information on the dashboard.
- One major subclass of embedded systems is real-time embedded systems. A real time system is one that has timing constraints. Real-time system's performance is specified in terms of ability to make calculations or decisions in a timely manner.

STRUCTURE OF AN EMBEDDED SYSTEM

- Processing power: Selection of the processor is based on the amount of processing power to get the job done and also on the basis of register width required.
- Throughput: The system may need to handle a lot of data in a short period of time.
- Response: the system has to react to events quickly.
- Memory: Hardware designer must make his best estimate of the memory requirement and must make provision for expansion.
- Power consumption: Systems generally work on battery and design of both software and hardware must take care of power saving techniques.
- Number of units: the no. of units expected to be produced and sold will dictate the Trade-off between production cost and development cost.

- Expected lifetime: Design decisions like selection of components to system development cost will depend on how long the system is expected to run.
- Program Installation: Installation of the software on to the embedded system needs special tools.
- Testability & Debug ability: setting up test conditions and equipment will be difficult and finding out what is wrong with the software will become a difficult task without a keyboard and the usual display screen.
- Reliability: is critical if it is a space shuttle or a car but in case of a toy it doesn't always have to work right.

TYPES OF OPERATING SYSTEMS:

1. **Single-user, single task** - This operating system is designed to manage the computer so that one user can effectively do one thing at a time. The Palm OS for Palm hand-held computers is a good example.
2. **Single-user, multi-tasking** - This is the type of operating system most of us use on our desktop and laptop computers today. Windows 98 and the MacOS are examples of OS that let a single user have several programs in operation at the same time.
3. **Multi-user** - A multi-user operating system allows many different users to take advantage of the computer's resources simultaneously. The operating system must make sure that the requirements of the various users are balanced, and that each of the programs they are using has sufficient and separate resources so that a problem with one user doesn't affect the other users. UNIX is an example of multi-user operating system.
4. **Real-time operating system (RTOS)** - The main task of a RTOS is to manage the resources of the computer such that a particular operation executes in precisely the same amount of time every time it occurs. "In a complex machine, having a part move more quickly just because system resources are available may be just as catastrophic as having it not to move at all because the system is busy

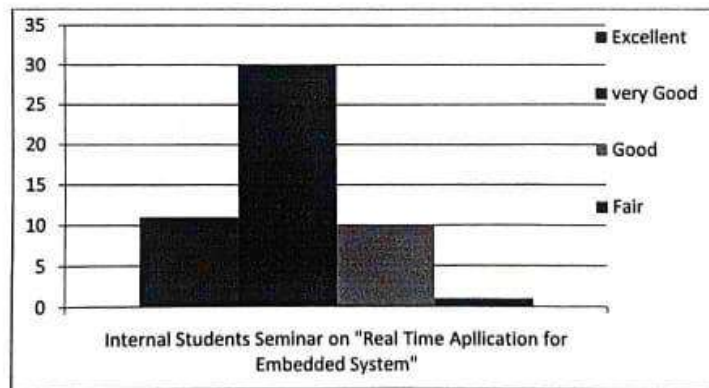
Outcome:

- Students will be able to highlight theoretical knowledge on embedded system.
- Students can be able to understand the different types of operating system.
- Students can be able to understand the structure of an embedded system.

Snapshot from Seminar



Feedback Analysis:



S. Senthil Kumar
14/5/22
Faculty In-Charge

A. Senthil Kumar
14/5/22
HOD/EEE

J. Manick
14/5/22
Principal

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

Sl. No.	Date	Details	Beneficiaries	Page No.
MECH				
1	18.08.2021	Orientation Programme and Bridge Course on technical skill development, training and placement and GATE & higher study initiatives	110	2
2	03.09.2021	Internal Staff Seminar	15	6
3	15.09.2021	"Intra Department Paper Presentation"	12	8
4	28.09.2021	Career Guidance Program	54	11
5	01.10.2021	A National Level Technical E-Symposium (MECH 'O' DRONE 2021)	111	14
6	06.10.2021	Webinar on "Solar Energy and its applications"	100	24
7	26.10.2021	Career Guidance Program (Virtual)	44	31
8	30.11.2021	Seminar on "Students satisfaction survey and its importance"	12	34
9	17.03.2022	Seminar on PO, PSO mapping – Interaction with students	182	36
10	22.04.2022	National level webinar on "SUSTAINABILITY IN PRODUCT DEVELOPMENT"	84	39
11	23.04.2022	Career Guidance Program on higher studies	70	46
12	09.06.2022	National Conference on Energy and Manufacturing Scenario 2022	66	49



DEPARTMENT OF MECHANICAL ENGINEERING

ORIENTATION PROGRAM AND BRIDGE COURSE REPORT

ACADEMIC YEAR 2021-22 (ODD SEMESTER)

As a part of academic activity of the department, Orientation Programme and Bridge Course on technical skill development, training and placement and GATE & higher study initiatives was organized on 18th August 2021 for second and third year students of mechanical engineering through virtual mode. The programme was held in four sessions from 09.00am to 1.00pm.

Session I : Dr. T. Pushparaj, HoD, Department of Mechanical Engineering delivered the welcome address for the “Orientation Programme and Bridge Course” for both second and third year students between 09.30am to 9.45am. He highlighted the importance of mechanical knowledge, outcome based education and shared his experience with the students.

Session II : Dr. K. Sudhakar, Assistant Professor / Ms. P. Suganya, Assistant Professor, Department of Training Placement enlightened second year students about “Choose Right Career” and give knowledge, skill, aptitude and meet the manpower requirements of the industry between 09.45am to 10.30am. Mr. M.Melvin, Assistant Professor, Department of Mechanical Engineering handled an activity based session for third year students on “Curriculum, Job Opportunities and SWAYAM certification Program” between 09.45am to 10.30am.

Points Discussed in Session-II

- Career guidance about avenues open after graduation.
- Importance of professional development.
- Curriculum based courses from diverse disciplines.

- Advanced curriculum and professional certification.
- Knowledge development through to SWAYAM platform.

Session III : Mr. S. Shanmugam, Senior CNC Programmer, BHEL-Trichy delivered a special lecture on “Future and Scope in Mechanical Engineering” for second year students between 10.45am to 11.15am. Dr. K. Sudhakar / Ms. P.Suganya, Department of Training Placement enlightened third year students about to “Choose Right Career” and give knowledge, skill, aptitude and meet the manpower requirements of the industry between 10.45am to 11.45am.

Points Discussed in Session-III

- The scope of growth and career advancement of mechanical engineers in India.
- Various areas of mechanical engineering.
- Recent trends in mechanical engineering.
- Career guidance about avenues open after graduation.
- Importance of professional development.

Session IV : Mr. H.Agilan, Assistant Professor, Department of Mechanical Engineering, imparted a knowledge on “GATE and Higher Study Initiatives” for second year students between 12.00pm to 01.00pm. Mr. R.Rajadurai, Assistant Professor, Department of Mechanical Engineering, presented the lecture on “An Introduction to Value Added Course- Energy Resource and Management” for third year students between 12.00pm to 01.00pm.

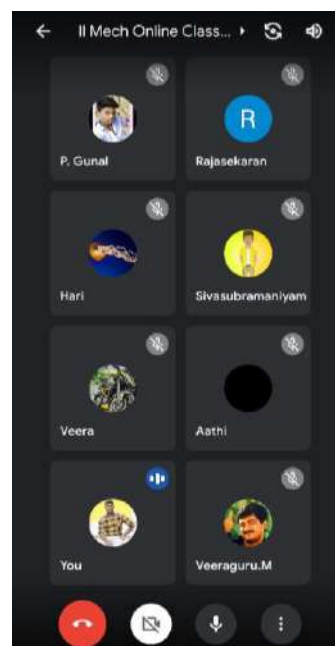
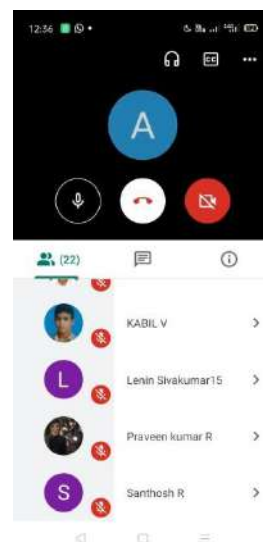
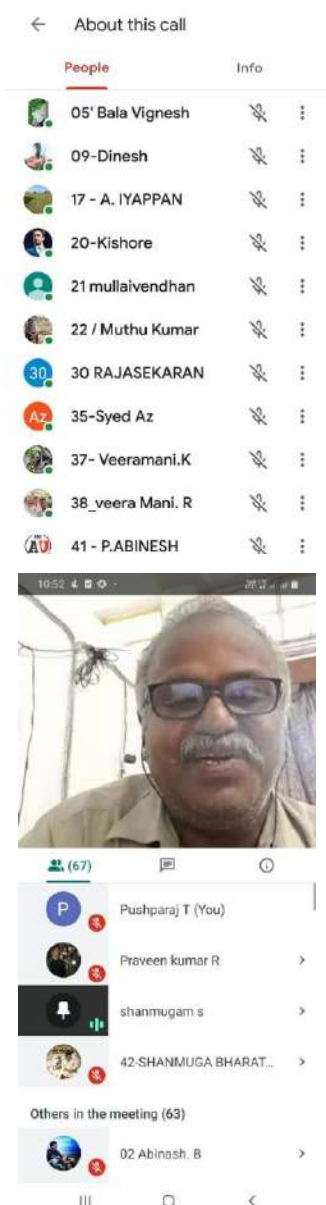
Points Discussed in Session-IV

- Future scope of GATE exam.
- Highlights of GATE 2022.
- Initial steps for an effective energy cost control program.
- Different ways to save energy in a practical life.
- Engineering concepts to save energy.

Outcomes:

After completion of the bridge course and orientation program in mechanical engineering, there was a significant progress in technical skills of the students. All the second year and third year students actively participated and clarify their doubts by raising the questions. Students interacted with the resource persons and gained the technical knowledge.

Sample Images:



Bridge Course Coordinator

HoD/MECH

PRINCIPAL



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-22 (ODD SEMESTER)

Agenda

Mode: Online

Date: 18.08.21

Orientation Program for II Year Students

Time	Subject	Faculty
9.30 a.m. to 9.45 a.m.	Welcome Address	Dr.T.Pushparaj, HoD,MECH
9.45 a.m. to 10.30 a.m.	Training and Placement Program	Dr.K.Sudhakar/ Ms.P.Suganya, AP/T&P
10.45 a.m. to 11.45 a.m.	Future and Scope in Mechanical Engineering	Mr.S.Shanmugm, Senior CNC Programmer, BHEL-Trichy
12.00 p.m. to 1.00 p.m.	GATE and Higher Study Initiatives	Mr.H.Agilan, AP/MECH

Bridge Course for III Year Students

Time	Subject	Faculty
9.30 a.m. to 9.45 a.m.	Welcome Address	Dr.T.Pushparaj, HoD,MECH
9.45 a.m. to 10.30 a.m.	Curriculum, Job Opportunities and SWAYAM certification Program	Mr.M.Melwin, AP/MECH
10.45 a.m. to 11.45 a.m.	Training and Placement Program	Dr.K.Sudhakar/ Ms.P.Suganya, AP/T&P
12.00 p.m. to 1.00 p.m.	An Introduction to Value Added Course- Energy Resource and Management	Mr.R.Rajadurai, AP/MECH

Refresher Course for IV Year Students

Time	Subject	Faculty
9.30 a.m. to 9.45 a.m.	Welcome Address	Dr.P.P.Shantharaman, Asso. Prof./MECH
9.45 a.m. to 10.30 a.m.	Training and Placement Program	Dr.K.Sudhakar/ Ms.P.Suganya, AP/T&P
10.45 a.m. to 11.45 a.m.	Future and Scope in Mechanical Engineering	Mr.S.Shanmugm, Senior CNC Programmer, BHEL-Trichy
12.00 p.m. to 1.00 p.m.	Inventory and Stock Upholding	Mr.S.Desikan, AP/MECH

Bridge Course Coordinator

HoD/MECH

PRINCIPAL



Department of Mechanical Engineering
Academic year 2021-22 (ODD)
Internal staff seminar Report

Date & time : 3.9.2021 & 01.00 pm

Venue : Room no.203



Snapshots from the session

Seminar on “Engine Auxiliaries in recent days” has been delivered by Dr.T.Pushparaj, Professor, Department of Mechanical Engineering for the staff members of Mechanical Engineering on 03/09/2021 at 1.00 p.m. Here few points are discussed:

Marine auxiliary engines are manufactured keeping in mind the rigorous environment they will be installed and operated in, along with maintaining the continuity of operation to provide uninterrupted power supply to various ship systems. The most important thing for running the machinery system in its best capabilities is to know the correct operating procedure for the same and to bring the machinery back in operation following correct sequence and troubleshooting procedure if it is stopped due to unavoidable circumstances. The ship’s engineer in-charge must familiarize with the

operating manual of the auxiliary engine, the correct operating parameters and scheduled planned maintenance.

Chapters discussed:

- Basic Operations of Marine Auxiliary Engine.
- Important Procedures.
- Important Safety Inclusions.
- Important Assessment of Auxiliary Engine.
- Maintenance Tips for Marine Generator.

Outcomes:

Upon listing of this seminar the participants can able to

- Understand the auxiliaries of a marine engine.
- Understand operation procedures.
- Know about maintenance procedures

References:

- https://link.springer.com/chapter/10.1007/978-3-658-12918-7_6
- <https://www.sae.org/publications/technical-papers/content/820085/>
- <https://ieeexplore.ieee.org/abstract/document/9248280/>

Internal staff seminar feedback summary

S.no	Description	Good	Fair	Poor
1	Content of the speech	10	2	-
2	Voice of the speaker	9	3	-
3	Overall feedback	8	4	-



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-22 (ODD SEMESTER)

INTRA DEPARTMENT PAPER PRESENTATION REPORT

Venue : 202 (MECH Block)

Date: 15-09-2021

- As a part of Dr. Kalam's birthday and Engineer's day celebration, the department of Mechanical Engineering had conducted "Intra Department Paper Presentation" on various core topics through offline mode on 15.09.2021.
- Welcome address was given by Mr. M. Aswin, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering. He highlighted the importance of paper presentation, outcome based education and stressed the importance of conducting the paper presentation.
- Dr. T. Pushparaj, HoD, Department of Mechanical Engineering, acted as jury for the paper presentation.
- Vote of thanks was delivered by Mr. S. Nelson Raja, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering.

List of Participants

S.No	Name of the Students	Year / Department	Presentation Title
1.	Abimanyu.M Akash.R	IV / MECH	Design and Fabrication of Magnetic Separator.
2.	Karthikeyan.R Samuel.S	IV / MECH	Design and Fabrication of Sewage Cleaning using Stoch Yoke Mechanism.
3.	Ranjithkumar.M Viveksarathi. G	IV / MECH	Design and Fabrication of Foot Step Power Generation.
4.	Vigneshwaran.K Rajadurai.R	IV / MECH	Design and Fabrication of Pedal Powered Fluid Pump.
5.	Misfar.M Hemanathan.E	II / MECH	Mechanism for Four Wheel Steering with Small Turning Radius.
6.	Mohammed Rilwan. M Jegan. K	II / MECH	Design and Fabrication of Steer by Wire

Sample Images



Mr.M.Aswin, AP/MECH, Delivering the welcome address



Pictures taken during students paper presentation



Students listening the presentation

Mark Allocation Details

S.No	Name of the Students	Year / Department	Presentation Title	Marks out of 100
1.	Abimanyu.M Akash.R	IV / MECH	Design and Fabrication of Magnetic Separator.	79
2.	Karthikeyan.R Samuel.S	IV / MECH	Design and Fabrication of Sewage Cleaning using Stoch Yoke Mechanism.	88
3.	Ranjithkumar.M Viveksarathi. G	IV / MECH	Design and Fabrication of Foot Step Power Generation.	77
4.	Vigneshwaran.K Rajadurai.R	IV / MECH	Design and Fabrication of Pedal Powered Fluid Pump.	84
5.	Misfar.M Hemanathan.E	II / MECH	Mechanism for Four Wheel Steering with Small Turning Radius.	81
6.	Mohammed Rilwan. M Jegan. K	II / MECH	Design and Fabrication of Steer by Wire	75

Winner Details

Rank	Name of the Students	Year / Department	Marks
I.	Karthikeyan.R Samuel.S	IV / MECH	88
II.	Vigneshwaran.K Rajadurai.R	IV / MECH	84
III.	Misfar.M Hemanathan.E	II / MECH	81

“The winners will be appreciated in the upcoming SCC”

Coordinators
(S.Nelson Raja, AP/MECH &
R.Rajadurai, AP/MECH)

HoD/MECH

Principal



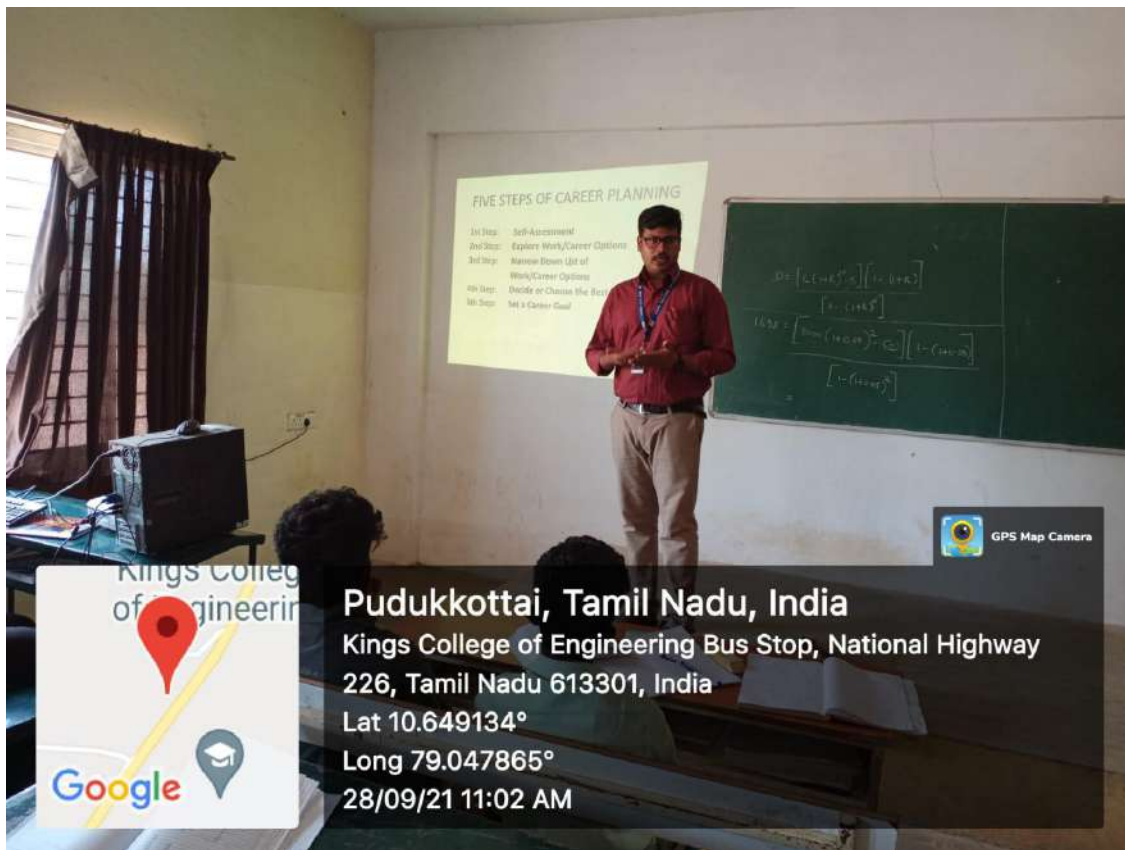
Department of Mechanical Engineering
Academic Year 2021-2022 ODD Semester
Career Guidance Program

In order to meet the current scenario regarding job openings and to provide adequate knowledge about post measures after the graduation, a career guidance event was organized by Department of Mechanical Engineering, Kings College of Engineering, Punalkulam. The main focus of the event was Final Year students of Mechanical Engineering. There are 59 Students in Final Year of Mechanical Engineering. The event was intimated to the beneficiaries through circular and WhatsApp. The event was conducted on 28/09/2021 at 10.45 AM. Mr. S. Sabanayagam, AP/Mechanical presented the career guidance and the opportunities available in the society along with possible ways that a Mechanical Engineering graduate will have in their hand. Totally 54 students were attended the event at Room No 208, Block II.

After the session, Feedback was obtained from the beneficiaries by Google form and the responses along with event screenshots were provided below for the reference.

Screenshots of the Event:







Feedback Obtained from Google Form:

Parameter	Excellent	Satisfactory	Good	Yet to be improved
Content of the Session	23	22	09	-
Resource person delivery towards the prescribed content within the given time	31	16	07	-
Overall feedback about the session	34	09	11	-

[Signature]
28/9/21
Event in charge

T. P. [Signature]
28/9/21
HoD/Mechanical

J. [Signature]
28/9/2021
Principal



A National Level Technical E-Symposium

(MECH ‘O’ DRONE 2021)

01st OCTOBER 2021

SYMPOSIUM REPORT

Organized by
Department of Mechanical Engineering
Kings College of Engineering
Punalkulam – 613303,
Pudukkottai Dt.

SYMPOSIUM REPORT

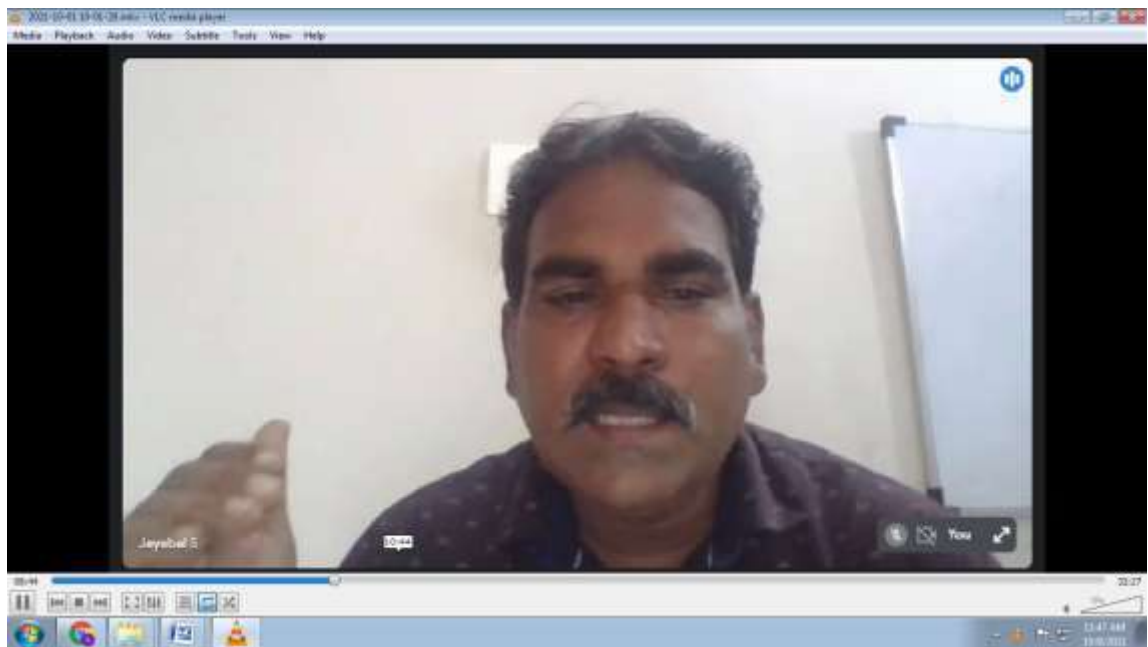
Mechanical Engineering Association (MEA) of Mechanical Engineering Department, Kings College of Engineering organized one day National Level Technical E-Symposium “**MECH ‘O’ DRONE 2021**” on 01st October 2021 for the Mechanical Engineering students.

The entire function was conducted through Google Meet online platform. A very good technical support was rendered by Student Organizers R.Karthikeyan and D.Akashraja from final year Mechanical Engineering with a team of student volunteers.

LIST OF CO-ORDINATORS

SN	EVENT NAME	STAFF COORDINATORS	STUDENT COORDINATORS	YEAR
1	Paper Presentation	Mr.R.Shankar, AP/Mech Mr.M.Sakthivel, AP/Mech	R.Karthikeyan	IV
			R.Veeramani	III
			P.Subash	II
2	Connections	Mr.S.Desikan, AP/Mech Mr.S.Sabanayagam, AP/Mech	D.Akash Raja	IV
			D.Gunal	III
			E.Hemanathan	II
3	Tech Quiz	Mr.S.Nelson Raja, AP/Mech Mr.R.Rajadurai, AP/Mech	D.Ayyappan	IV
			M.Syedu Usmanali	III
			K.Jagan	II
4	Photo Fest	Dr.P.P.Santharaman, AP/Mech Mr.N.Magesh, AP/Mech	S.Fazil Ahemed	IV
			T.K.Rajasekaran	III
			E.Sakthivel	II

The inaugural session of **MECH ‘O’ DRONE 2021** was started with the welcome address by Dr.T.Pushparaj, Head of the Department, who explained about the significance of that meeting and Mr.H.Agilan, AP/Mech introduced the chief guest. Dr.S.Jayabal, Head of the Department, Department of Mechanical Engineering, Government College of Engineering Sengipatti, Thanjavur.



The guest Dr.S.Jayabal delivered the inaugural address and shared his knowledge on recent trends in Mechanical Engineering. He insisted the students about the qualifications and qualities required to join the manufacturing industries as a mechanical engineer.

TECHNICAL SESSION:

The technical session of **MECH 'O' DRONE 2021** was started with the welcome address by Mr.H.Agilan, AP/Mech and introduced the guest Dr.S.Sundaraselvan, Head of the Department, Department of Mechanical Engineering, Arasu Engineering College,Kumbakonam, He delivered the keynote address to the participants.

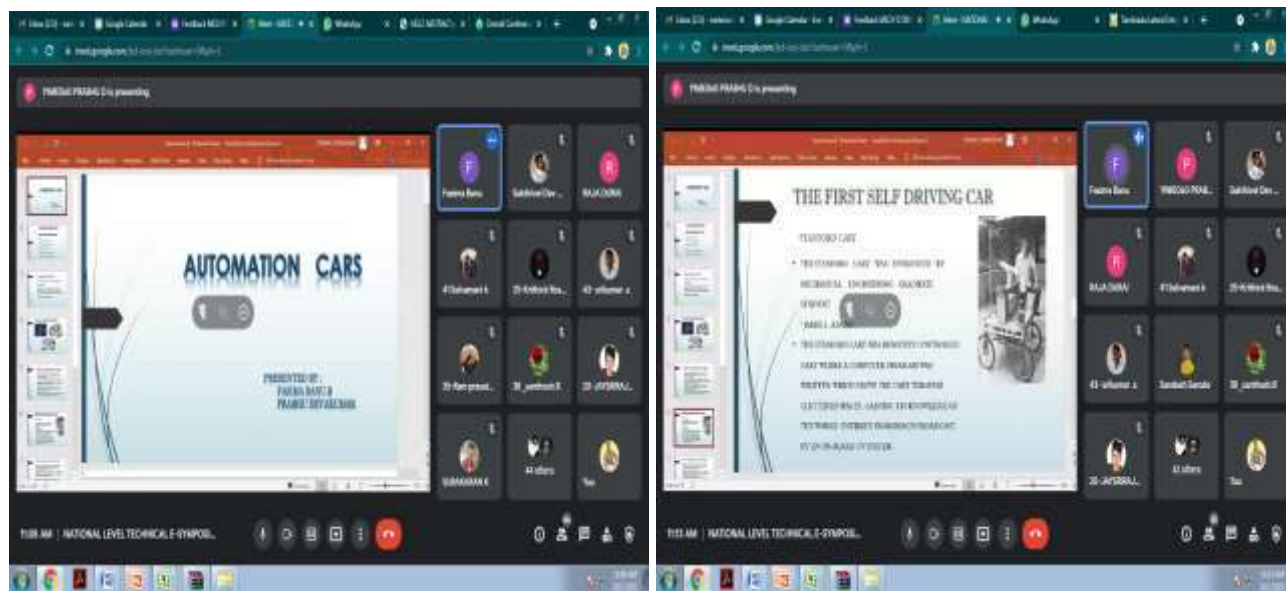


EVENT NO 1: PAPER PRESENTATION:

The paper presentation was organized by the student members. Mr.R.Shankar, AP/Mech and Mr.M.Sakthivel, AP/Mech acted as Juries for this event. 20 papers from various institutions were scrutinized and selected for presentation. The list of winners in paper presentation is given below.

SN	Name of the student	College belong to	Place
1	B.Fasima Banu D. Prabhu Devakumar	Nandha engineering college,Erode.	I
2	M.Bharath	Sri Venkateswaraa college of Technology, Sriperambudur ,Chennai.	II
3	S.Tamilarasan	Er.Perumal Manimekalai college of Engineering,Hosur.	III

Screenshots of the Event

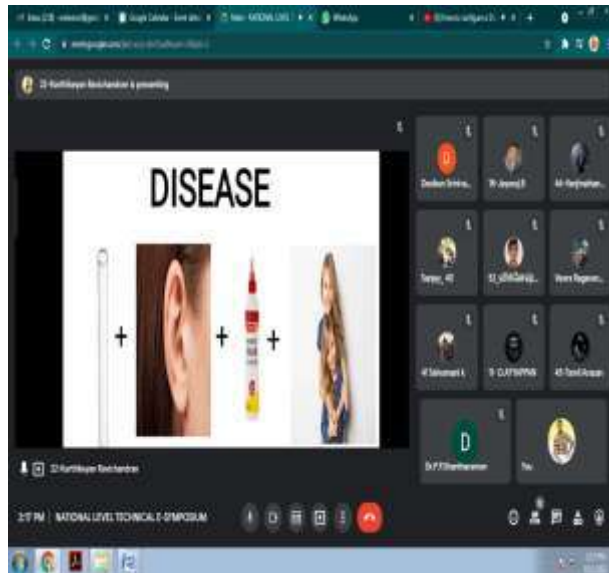
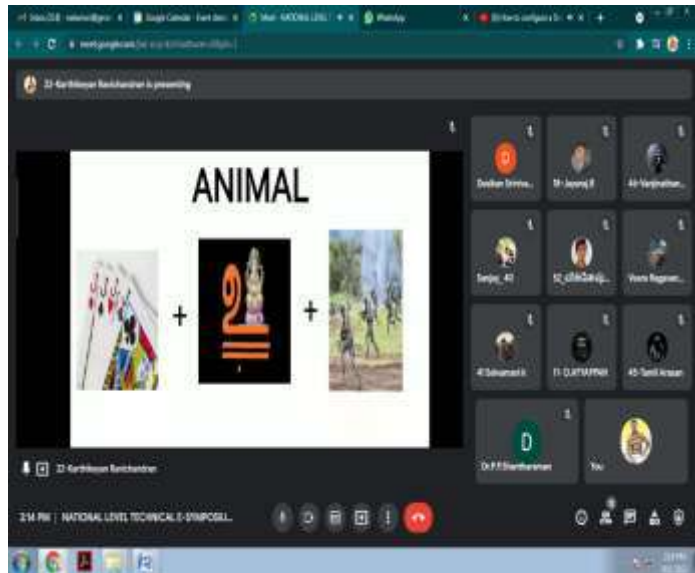


EVENT NO 2: CONNECTIONS:

The connections event was organized by student members and coordinated by Mr.S.Desikan, AP/Mech and Mr.S.Sabanayagam, AP/Mech. In this event 32 students from 6 colleges participated. Event was successfully completed. Depending upon their merits the list of winners is given below.

SNo	Team	Name of the Student	Place Obtained
1	Team 4	S.Sanjay Kumar	I place
2		A.Vanjinathan	
3	Team 2	D.Akash Raja	II place
4		B.Jayaraj	
5	Team 7	J.Vigneshwaran	III place
6		P.Veeraragavan	

Screenshots of the Event



EVENT NO 3: TECHNICAL QUIZ:

The Technical quiz event was conducted by Mr.S.Nelson Raja, AP/Mech and Mr.R.Rajadurai, AP/Mech about 36 students from various institutions actively participated in this event. The list of winners is given below.

Sno	Name of the student	College belong to	Place
1	J.Jambukeswaran	Nandha engineering college,Erode.	I
2	J.Vigneshwaran	Kings College of Engineering, Pudukotai.	II
3	Nasir Shareef	Islamic University of Science & Technology, Jammu & Kashmir.	III

EVENT NO 4: PHOTO FEST:

The Photo fest event was organized by Dr.P.P.Shantharaman, AP/Mech and Mr.N.Magesh, AP/Mech with 18 students from various Institutions and the list of winners in is given below.

Sno	Name of the student	College belong to	Place
1	J.Vigneshwaran	Kings college of Engineering, Thanjavur	I
2	P.Veeraragavan	Kings college of Engineering, Thanjavur	II
3	M.Kailash Kumar	Kings college of Engineering, Thanjavur	III

Winning photo of Photo Fest



VALEDICTION

The National Level Technical Symposium “MECH ‘O’ DRONE 2021” came to an end with the valedictory function at 3.00 pm on the same day. Dr.T.Pushparaj HOD/Mech, delivered valedictory address. Mr.M.Melwin J Sridhar, AP/Mech summarized the symposium report and announced the winners in the technical events. Finally Mr.S.Nelson Raja, AP/Mech delivered the vote of thanks and the function was successfully ended.

Symposium poster



The poster for the National Level Technical E-Symposium "MECH 'O' DRONE 2021" is set against a background of a drone. It features the Kings College of Engineering logo and accreditation details at the top. A yellow starburst in the top left corner marks the date "1st Oct 2021". The department of Mechanical Engineering is credited for presenting the event. The poster lists technical events (Paper Presentation and Technical Quiz) and non-technical events (Connections and Photo Fest). A registration link is provided, and contact information for organizers and the HOD is listed at the bottom.

1st Oct 2021

KINGS COLLEGE OF ENGINEERING
NAAC Accredited & ISO Certified Institution
Recognized by UGC under 2(F) & 12(B)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Pudukkottai, Gandarvakottai Taluk, Pudukkottai District - 613 303

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiatives)

Department of Mechanical Engineering
Proudly Presents

TECH EVENTS:

- PAPER PRESENTATION
- TECHNICAL QUIZ

NATIONAL LEVEL TECHNICAL E-SYMPOSIUM

MECH 'O' DRONE 2021

FREE REGISTRATION

NON TECH EVENTS:

- CONNECTIONS
- PHOTO FEST

REGISTRATION LINK: <https://forms.gle/NNH4Rb6SNowavH18>

H.Agilan, AP/Mech, Organizer - 7010426104
M.Melwin J Sridhar, AP/Mech, Organizer - 9994748951
M.Aswin, AP/Mech, Organizer - 9791698880

For details please contact:
R.Karthikeyan, Student Organizer - 6379615069
D.Akash Raja, Co-Organizer - 8525097105

Dr.T.Pushparaj, ME., Ph.D.,
HOD/MECH

Sample certificate



The sample certificate is from Kings College of Engineering, affiliated to Anna University, Chennai. It certifies the participation of a student in the MECH 'O' DRONE 2021 symposium. The certificate is signed by the HOD of Mechanical Engineering and the Principal. The date of participation is noted as 1st Oct, 2021.

KINGS COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.
NAAC Accredited & ISO Certified Institution
Recognized Under 2(f) & 12(B) of UGC
Punalikulam, Near Tharjavar, Gandarvakottai Taluk, Pudukkottai District-613303

INSTITUTION'S INNOVATION COUNCIL

Certificate of Participation

This is to certify that Mr/Ms. _____ of _____ has participated on **MECH 'O' DRONE 2021**, A National Level Technical E-Symposium organized by Department of Mechanical Engineering, Kings College of Engineering, Pudukkottai on 1st Oct, 2021.

Dr.T.Pushparaj
HOD/MECH

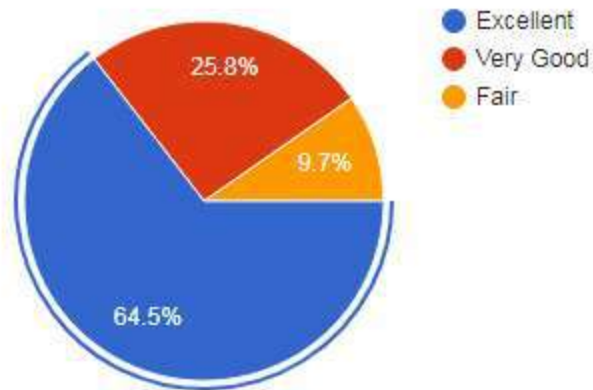
Dr.J.Arputha Vijaya Selvi
Principal

List of Institutions Participated with Students count

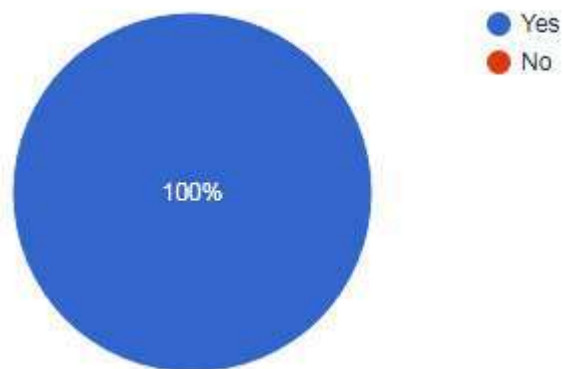
SN	Name of the college	Count
1	Anjalai Ammal Mahalingam Engineering College, Tiruvarur	2
2	Anna University, Villupuram	2
3	Annai College of Engg & Tech, Kumbakonam	2
4	Jawaharlal Nehru College of Engg & Tech, Palakkad	1
5	Arasu Engineering College, Kumbakonam	4
6	Ayya Nadar Janaki Ammal College, Sivakasi	1
7	Dhanalakshmi Srinivasan Institute of Technology, Perambalur	1
8	Haringhata Mahavidyalaya, West Bengal	1
9	Kalasalingam Institute of Technology, Srivilliputhur	1
10	Kongunadu College of Engineering and Technology, Trichy	2
11	MIET Engineering College, Trichy	1
12	Nandha Engineering College, Erode	2
13	Parisutham Institute of Technology and Science, Thanjavur	1
14	Periyar Maniammai Institute of Science and Technology, Vallam	3
15	Rajalakshmi Institute of Technology, Chennai	1
16	SRM Institute of Science & Tech, Chennai	1
17	University College of Engineering Nagercoil	1
18	Viswajyothi College of Engineering and Technology, Kerala	2
19	Vivekananda College of Engineering & Technology, Karnataka	1
20	Islamic University of Science & Technology, Jammu & Kashmir.	1
21	Sri Venkateswaraa college of Technology, Sriperambudur ,Chennai	4
22	Er.Perumal Manimekalai college of Engineering,Hosur	1
23	Kings College of Engineering, Pudukottai	75
	Total	111

Feedback from the participants

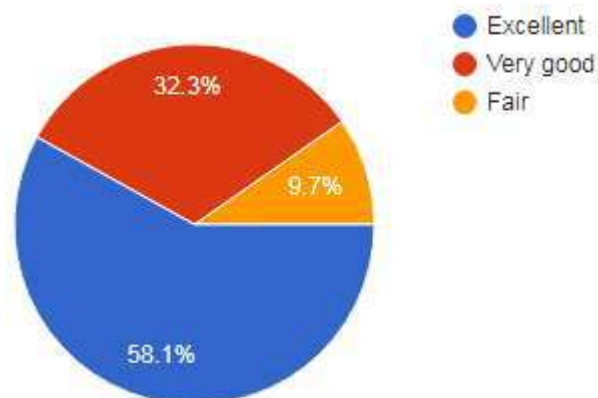
1. Overall, how entertaining was the event?



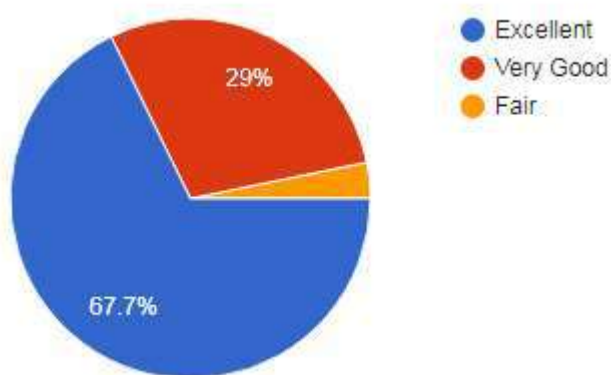
2. Overall, were you satisfied with the presentations clearly?



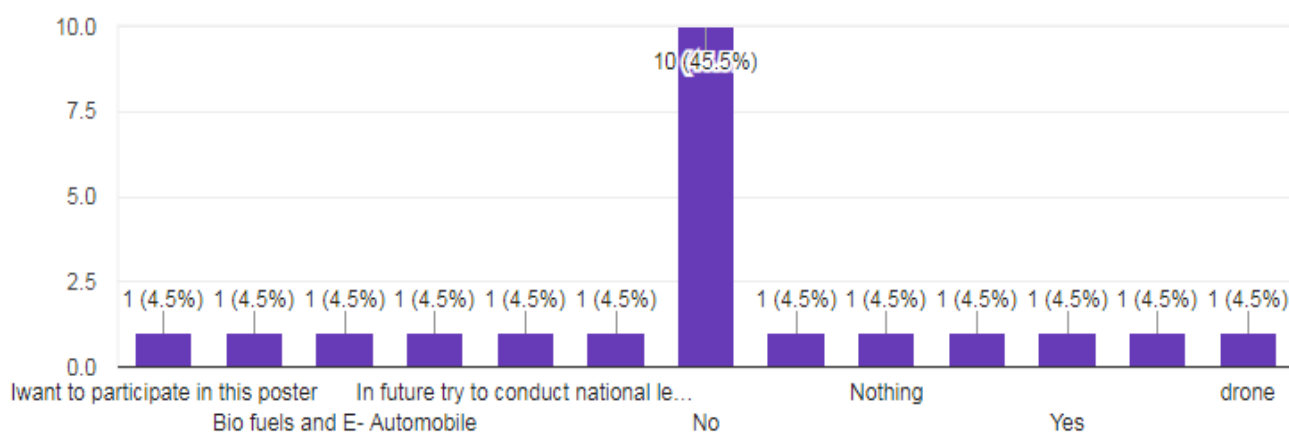
3. Audio & Video Quality.



4. Registration Process



5. Any suggestions for future event topics?



All the events have been recorded and published in college YouTube channel with running time of 60 minutes. The YouTube link is: https://youtube.com/channel/UCv_wHZyT-Nxxc4rbXBiciaw

Staff Co-ordinator

HOD

Principal



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-22 / ODD SEMESTER

WEBINAR REPORT

- The Department of Mechanical Engineering had organized a National level webinar on **“SOLAR ENERGY AND ITS APPLICATIONS”** through online mode on **06.10.2021 at 10.30 a.m.**
- Welcome address was given by **Dr.T.Pushparaj**, Professor/Head of the Department, Department of Mechanical Engineering, Kings College of Engineering.
- Chief Guest introduction was given by **Mr.R.Rajadurai**, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering.
- The resource person **Dr.M.Senthil Kumar**, Associate Professor, Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research (NITTTR), Chennai, had given the technical talk on “Solar Energy and its Applications”.

In his lecture, he gave a detailed explanation about an utilization of solar energy and major application of solar energy (Solar water heating, Solar heating of buildings, Solar distillation, Solar pumping, Solar drying of agricultural and animal products, Solar furnaces, Solar electric power generation, Solar thermal power production, Solar green houses).

- **99** participants registered and attended the webinar.
- Vote of thanks was given by **Mr.R. Shankar**, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering.
- At the end of the session, all attended participants gave their feedback and E-certificate has been sent to them through email.


KINGS
 COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai
 NMC Accredited Institution
 Recognized Under 2(f) & 12(B) of UGC
 Pudukkottai, Near Thanjavur,
 Chandrasekhar Nagar, Pudukkottai District-605003



DEPARTMENT OF MECHANICAL ENGINEERING
&
Dr.A.P.J.Abdul Kalam Memorial Foundation
 Jointly organize a National level

WEBINAR
 ON
SOLAR ENERGY AND ITS APPLICATIONS
 6th October 2021 @ 10.30 am



Dr.M. Senthil kumar
 Associate Professor
 Department of Mechanical Engineering
 National Institute of Technical Teachers Training and Research
 Chennai

Registration link : <https://forms.gle/GLxYoCeS115u8dEn8>

Mr.R. Shankar, AP/Mech.,	Dr.T. Pushparaj	Dr.J. Arputha Vijaya Selvi
Mr.R. Rajadurai, AP/Mech.,	HOD/Mech.	Principal
Coordinators		

Webinar Brochure – Sample copy

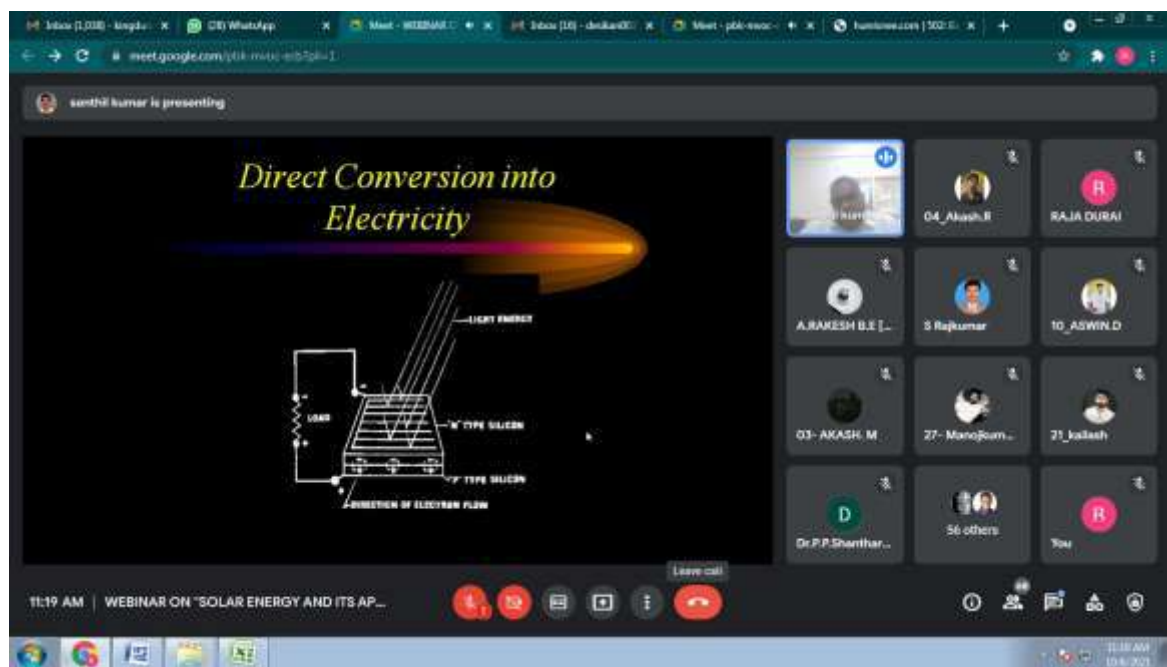

KINGS
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 Pudukkottai, Near Thanjavur,
 Chandrasekhar Nagar, Pudukkottai District-605003

CERTIFICATE OF PARTICIPATION

This is to certify that
 from
 has actively participated in the Webinar on “*SOLAR ENERGY AND ITS APPLICATIONS*” organized by Department of Mechanical Engineering and Dr.
 A.P.J. Abdul Kalam Memorial Foundation, Kings College of Engineering,
 Pudukkottai on 6th October 2021.

Coordinator	Convenor	Patron
Mr.R.Shankar, AP/MECH	Dr.T.Pushparaj	Dr.J.Arputha Vijaya Selvi
Mr. R.Rajadurai, AP/MECH.	HOD/MECH.	Principal

Participation Certificate – sample copy



Chief guest Dr.M.Sentil Kumar, delivering his speech on Solar Energy and its applications

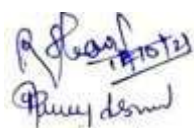
List of attended Participants and Feedback

SN	Name	Designation/ Department/ College	Methodology followed by the resource person.	Overall usefulness of the lecture.	If any Feedback/ Suggestions
1	Fazilahamed.S	Student/Mech/KCE	Good	Very good	No
2	Sanjay kumar S	Student/Mech/KCE	Very good	Very good	
3	Akash. R	Student/Mech/KCE	Good	Excellent	Good
4	Veeraragavan.P	Student/Mech/KCE	Very good	Excellent	No
5	P. Pradheesh	Student/Mech/KCE	Excellent	Excellent	Useful
6	S.samuel	Student/Mech/KCE	Very good	Very good	Super
7	Abinash. B	Student/Mech/KCE	Excellent	Excellent	
8	Vigneshwaran. K	Student/Mech/KCE	Excellent	Excellent	
9	Gokula krishnan.M	Student/Mech/KCE	Excellent	Excellent	Good
10	Muralidharan. B	Student/Mech/KCE	Excellent	Excellent	Good
11	ASWIN.D	Student/Mech/KCE	Excellent	Excellent	NO
12	Surya.s	Student/Mech/KCE	Very good	Excellent	Good presentation
13	P.PANDIDEVI	Student/EEE/KCE	Excellent	Excellent	No comments
14	S. R. Karthikeyan	AP/EEE/KCE	Excellent	Excellent	Good
15	KRISHNA M.E	Student/EEE/KCE	Excellent	Excellent	Super
16	J. AROKIA RAJ	AP/EEE/KCE	Very good	Very good	Very useful information
17	Dr. S. RAJKUMAR	AP/MECH/AVC	Excellent	Excellent	Excellent webinar
18	M.kailashkumar	Student/Mech/KCE	Excellent	Very good	Overall good
19	M. SYEDU USMANALI	Student/Mech/KCE	Very good	Very good	No
20	R. REGINA	Student/EEE/KCE	Good	Very good	Very useful session
21	R.ALEX	LT/EEE/KCE	Excellent	Excellent	Good presentation
22	R.PURUSOTHAMAN	Student/EEE/KCE	Very good	Very good	Thanks you for wonderful event
23	R.Karthikeyan	Student/Mech/KCE	Excellent	Excellent	It gives a more information about solar energy

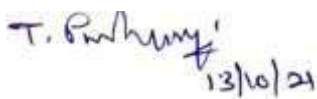
24	JAGADESHWARAN	Student/EEE/KCE	Excellent	Excellent	Super
25	K.REGUBALAN	LT/EEE/KCE	Good	Good	it's very useful webinar sir Thank you ,
26	K. Vetrivel	Student/EEE/KCE	Good	Good	No
27	Desikan	AP/MECH/KCE	Excellent	Excellent	Excellent
28	sakthi ganesh gs	Student/Mech/KCE	Excellent	Very good	No
29	Ram prasath.R	Student/Mech/KCE	Excellent	Excellent	Very useful
30	R.SUNDARAMORTHY	AP/EEE/KCE	Excellent	Excellent	Nil
31	v.Ragul	Student/EEE/KCE	Very good	Excellent	good
32	s.mohamed halith	Student/EEE/KCE	Good	Good	good
33	Sabanayagam S	AP/MECH/KCE	Very good	Very good	Nil
34	SARATH KUMAR A	Student/EEE/KCE	Good	Good	
35	VIKRAM.S	Student/Mech/KCE	Excellent	Excellent	
36	KEERTHIVASAN.R	Student/Mech/KCE	Very good	Excellent	Very good
37	VASANTH.K	Student/EEE/KCE	Very good	Very good	
38	Jegan.k	Student/Mech/KCE	Very good	Very good	No
39	E.Subamoorthy	Student/Mech/KCE	Very good	Very good	Obviously its good
40	Manojkumar. R	Student/Mech/KCE	Excellent	Excellent	Also Good
41	SENTHAMILARASI C	AP/EEE/KCE	Good	Good	Useful topic thank you so much for ur presentation sir
42	ARUNKUMAR S	Student/Mech/KCE	Very good	Very good	
43	KABIL V	Student/Mech/KCE	Very good	Very good	Thank you sir
44	KABILAN G	Student/Mech/KCE	Very good	Excellent	
45	HEMANATHAN E	Student/Mech/KCE	Excellent	Excellent	
46	Vigneshwaran J	Student/Mech/KCE	Excellent	Excellent	No
47	sulthan abdul kadher.r	Student/Mech/KCE	Very good	Excellent	good
48	DURAIRAJ.V	Student/Mech/KCE	Very good	Very good	
49	Shanmugabharathi. S	Student/Mech/KCE	Excellent	Excellent	No
50	H. RILWAN.	Student/Mech/KCE	Very good	Excellent	
51	LENIN KUMAR.S	Student/Mech/KCE	Good	Good	Nil

52	Bharani s	Student/Mech/KCE	Very good	Very good	Nil
53	Ramprasad.k	Student/Mech/KCE	Very good	Very good	Useful message
54	Anbarasan. V	Student/Mech/KCE	Excellent	Excellent	No
55	k.madheshwaran	Student/Mech/KCE	Very good	Very good	
56	RAKESH A	Student/Mech/KCE	Very good	Very good	
57	Harish Ragavendra	Student/Mech/KCE	Excellent	Excellent	NIL
58	Dhivakar . K	Student/Mech/KCE	Excellent	Excellent	
59	Madhumithran. S	Student/Mech/KCE	Very good	Very good	Nil
60	PRAKASH. K	Student/Mech/KCE	Very good	Excellent	Good
61	Krithick Roshan. S	Student/Mech/KCE	Excellent	Excellent	Good
62	R. Rajadurai	Student/Mech/KCE	Excellent	Excellent	Good
63	M sakthivel	AP/MECH/KCE	Excellent	Excellent	Nice
64	MAGESH N	AP/MECH/KCE	Excellent	Excellent	Very nice
65	SM.Swethaa	Student/ECE/KCE	Excellent	Excellent	
66	Dr. MAHENDRAN	AP/MECH/UCE-T	Excellent	Excellent	No
67	P.THIRUMAGAL	AP/EEE/KCE	Excellent	Very good	Nice
68	Veera Mageswaran	Student/Mech/KCE	Excellent	Excellent	Good
69	B.Yugeshwaran	Student/EEE/KCE	Excellent	Excellent	Good
70	Dr.T.Pushparaj	PROF/MECH/KCE	Excellent	Excellent	No
71	Dr.P.P.Shantharaman	AP/MECH/KCE	Very good	Very good	Nice session
72	VINOTH KANNAN V	AP/MECH/PITS	Excellent	Very good	Super
73	Midhun kumar.E	Student/Mech/KCE	Very good	Very good	Easy to absorbing
74	KARTHIKEYAN K	Student/EEE/KCE	Excellent	Excellent	Excellent
75	R.JAYAPRAKASH	Student/EEE/KCE	Excellent	Excellent	Good
76	Muthukumar. K	Student/Mech/KCE	Very good	Very good	
77	VIVEK.A	Student/Mech/KCE	Excellent	Excellent	No
78	M.Melwin	AP/MECH/KCE	Excellent	Excellent	Nothing
79	Akash. M	Student/Mech/KCE	Very good	Excellent	
80	R. PraveenKumar	Student/Mech/KCE	Very good	Very good	Good
81	S.SIVAKUMAR	AP/ECE/KCE	Excellent	Excellent	Very nice presentation

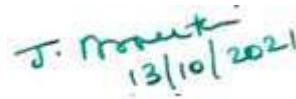
82	ARUN.E	Student/Mech/KCE	Excellent	Excellent	No
83	Ranjith. P	Student/Mech/KCE	Good	Good	No
84	Tamilarasan.S	Student/Mech/KCE	Excellent	Excellent	
85	Mrs. D. VENNILA	AP/ECE/KCE	Excellent	Excellent	Nice session
86	HARI PRASATH.R	Student/Mech/KCE	Excellent	Excellent	Good
87	A.AKESH SATHIYA	Student/EEE/KCE	Excellent	Excellent	No
88	Raja Pirian P	AP/ECE/KCE	Good	Good	No
89	Aadhikarunesan.m	Student/Mech/KCE	Good	Good	.
90	H. Agilan	AP/MECH/KCE	Good	Very good	
91	Akashraja.D	Student/Mech/KCE	Very good	Very good	
92	MISFAR.M	Student/Mech/KCE	Good	Excellent	Best webinar
93	Santhosh	Student/EEE/KCE	Very good	Excellent	
94	Priyadharshini	Student/EEE/KCE	Excellent	Excellent	
95	Bavana. K	Student/EEE/KCE	Very good	Very good	No
96	M. Pradeep	AP/MECH/SJCET	Very good	Excellent	No
97	Saravanan.A	Student/Mech/KCE	Excellent	Very good	
98	S. Nelson Raja	AP/MECH/KCE	Excellent	Excellent	Very informative
99	VIMALRAJ.P	Student/Mech/KCE	Very good	Very good	No


14/10/21

Coordinator
Mr.R. Shankar
Mr. R.Rajadurai


13/10/21

HoD/Mech
Dr.T.Pushparaj


13/10/2021

Principal
Dr.J.Arputha Vijaya Selvi



Department of Mechanical Engineering

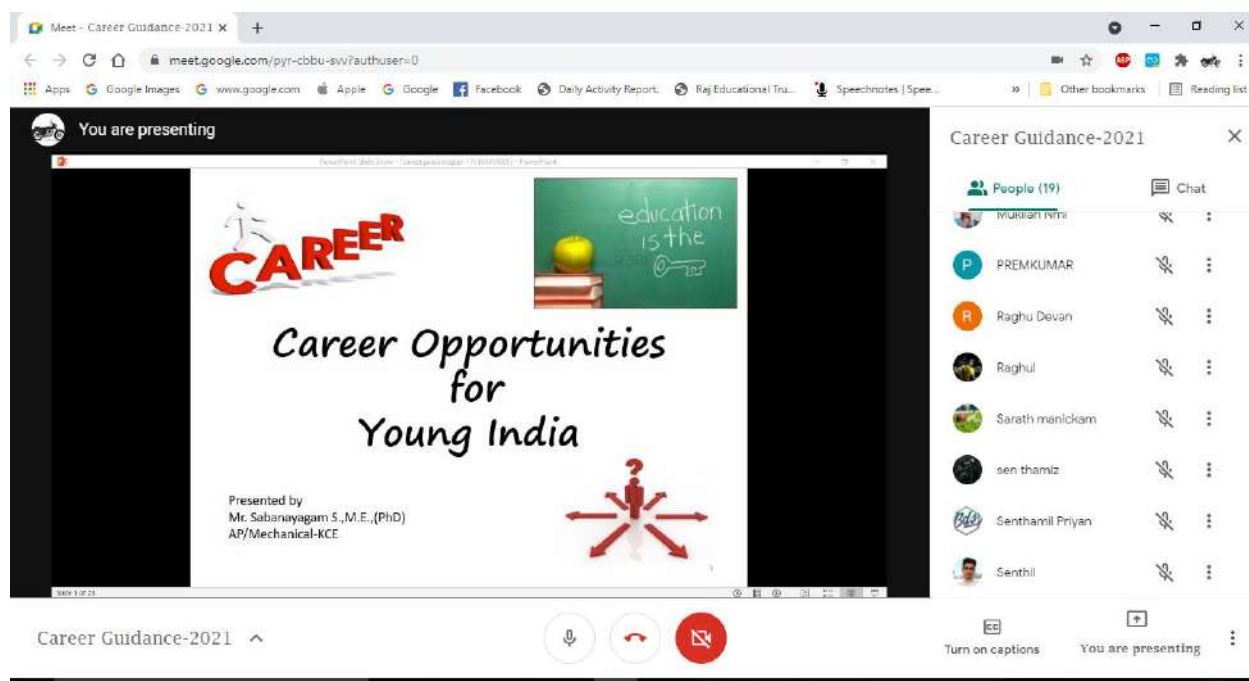
Academic Year 2021-2022 Odd Semester

Career Guidance Program

To provide adequate knowledge about post measures after the graduation, a career guidance along with higher study initiative event was organized by Department of Mechanical Engineering, Kings College of Engineering, Punalkulam. The main focus of the event was III Year students of Mechanical Engineering. There are 44 Students in III Year Mechanical Engineering. The event was intimated to the beneficiaries through WhatsApp circular and was conducted through virtual mode (Google Meet: <https://meet.google.com/xbv-vacu-iby>) at 01.30 PM on 26/10/2021. Mr. S. Sabanayagam, AP/Mechanical presented the career guidance and the opportunities available in the society along with possible ways that a Mechanical Engineering graduate will have in their hand. Totally 44 students were attended the event by virtual mode.

After the session, Feedback was obtained from the beneficiaries by Google form and the responses along with event screenshots were provided below for the reference.

Screenshots of the Event:



Meet - Career Guidance-2021 x


meet.google.com/pyr-cbbu-svv?authuser=0

Apps Google Images www.google.com Apple Google Facebook Daily Activity Report Raj Educational Tra... Speechnotes | Spee... Other bookmarks Reading list

You are presenting

CAREER PLANNING

is a deliberate process of knowing WHO you are so that you can be sure of WHERE you want to go or WHAT you want to be at some defined point in the future.



1:40 PM

Career Guidance-2021

People (19)

- MUKILAN NTHI
- PREMKUMAR
- Raghu Devan
- Raghul
- Sarath manickam
- sen thamiz
- Senthamil Priyan
- Senthil

Chat

Turn on captions You are presenting


Meet - Career Guidance-2021 x

meet.google.com/pyr-cbbu-svv?authuser=0

Apps Google Images www.google.com Apple Google Facebook Daily Activity Report Raj Educational Tra... Speechnotes | Spee... Other bookmarks Reading list

You are presenting

2nd Step: Work/Career Exploration



Matching and aligning what you want to do on one hand, and with the various opportunities, on the other.

1:41 PM

Career Guidance-2021

People (63)

- MUKILAN NTHI
- PREMKUMAR
- Raghu Devan
- Raghul
- Sarath manickam
- sen thamiz
- Senthamil Priyan
- Senthil

Chat

Turn on captions You are presenting

Feedback Obtained from Google Form:

Parameter	Excellent	Satisfactory	Good	Yet to be improved
Content of the Session	16	18	10	-
Resource person delivery towards the prescribed content within the given time	21	09	14	-
Audio/Video Clarity	30	14	-	-
Overall feedback about the session	28	11	05	-

Chapters Discussed:

- Opportunities after Graduation
- Entrepreneurship
- Higher study initiatives
- Competitive Exams

Outcomes:

Upon listing of this event the participants can able to

- Know the various opportunities regarding mechanical engineering.
- Become an entrepreneur by engaging themselves in innovative ideas.
- To participate in competitive exams and go for higher education.

References:

1. <https://files.eric.ed.gov/fulltext/EJ1086214.pdf>.
2. Increasing students' career readiness through career guidance: measuring the impact with a validated measure by Vanessa Dodd, Jill Hanson & Tristram Hooley
3. Career Guidance and Student Counselling by Radhika Kapur



Department of Mechanical Engineering
Academic year 2021-22 (ODD)
Internal staff seminar Report

Date & time : 30.11.2021 & 01.00 pm

Venue : Room no.203



Snapshots from the session

Seminar on “Students satisfaction survey and its importance” delivered by M.Aswin, AP/Department of Mechanical Engineering for the staff members of Mechanical Engineering on 30/11/2021 at 1.00 p.m. Here few points are discussed:

NAAC (National Assessment and accreditation council) is conducting a Student Satisfaction Survey regarding Teaching – Learning and Evaluation, which will help to upgrade the quality in higher education. A student will have to respond to all the questions given in the following format with her/his sincere effort and thought. Her/his identity will not be revealed.

Instructions to fill the questionnaire:

- All questions should be compulsorily attempted.
- Each question has five responses, choose the most appropriate one.
- The response to the qualitative question no. 21 is student's opportunity to give suggestions or improvements; she/he can also mention weaknesses of the institute here.
(Kindly restrict your response to teaching learning process only)

Outcomes:

Upon listing of this seminar the participants can able to

- Understand the procedures of student satisfaction survey.
- Understand operation procedures.
- Instruct among the students.

Internal staff seminar feedback summary

S.no	Description	Good	Fair	Poor
1	Content of the speech	10	2	-
2	Voice of the speaker	9	3	-
3	Overall feedback	8	4	-

DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2021-22 / EVEN SEMESTER
PO,PSO mapping – Interaction with students

Date & Venue: 17/03/2022,

Hall no: SMART CLASS ROOM

Class: II Mech (78 students)

Name of the Event: “PO, PSO MAPPING – AN INTRODUCTION”, An interactive session with students of Mechanical Engineering.

Presented by: Mr.H.AGILAN, Asst. Prof/Mechanical

Mr.M.Aswin, Asst. Prof/Mechanical

On Behalf of Department of Mechanical Engineering, Mr.H.Agilan, Asst.Prof/Mechanical has presented a seminar on “PO, PSO MAPPING – AN INTRODUCTION” with the students of Department of Mechanical Engineering.

In this meeting, the following points have been discussed:

- Discussed about Regulation 2017 Syllabus and PO's.
- Discussed about College's vision and mission.
- Discussed about Department's vision and mission.
- Explanation about various PO levels and their applications.
- A brief introduction to PSO'S and discussed the importance.
- Explained about PEO's and their importance.
- Explanation about program indicators under various levels.



Snapshots from the Seminar session

Date & Venue: 22/03/2022, Hall no. Smart Class Room

Class: III Mech (45 students)

Name of the Event: “PO, PSO MAPPING – AN INTRODUCTION”, An interactive session with students of Mechanical Engineering.

Presented by: Dr.PP.Santharaman , Asso. Prof/Mechanical

On Behalf of Department of Mechanical Engineering, Dr.PP.Santharaman, Asso.Prof/Mechanical has presented a seminar on “PO, PSO MAPPING – AN INTRODUCTION” with the students of Department of Mechanical Engineering.

In this meeting, the following points have been discussed:

- Discussed about Regulation 2017 Syllabus and PO's.
- Discussed about College's vision and mission.
- Discussed about Department's vision and mission.
- Explanation about various PO levels and their applications.
- A brief introduction to PSO'S and discussed the importance.
- Explained about PEO's and their importance.
- Explanation about program indicators under various levels.



Snapshots from the session

Date & Venue: 23/03/2022, Hall no. Smart Class Room

Class: IV Mech (59 students)

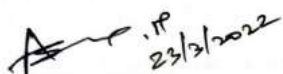
Name of the Event: “PO, PSO MAPPING – AN INTRODUCTION”, An interactive session with students of Mechanical Engineering.

Presented by: Dr.T.PUSHPARAJ, HOD/Mechanical

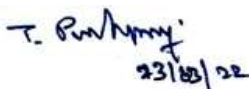
On Behalf of Department of Mechanical Engineering, Dr.T.PUSHPARAJ, HOD/Mechanical has presented a seminar on “PO, PSO MAPPING – AN INTRODUCTION” with the students of Department of Mechanical Engineering.

In this meeting, the following points have been discussed:

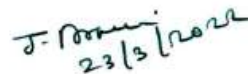
- Discussed about Regulation 2017 Syllabus and PO's.
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- Explanation about various PO levels and their applications.
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- Explanation about program indicators under various levels.



DEPT IQAC MEMBER



HOD/MECH



PRINCIPAL



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2021-22 / EVEN SEMESTER

WEBINAR REPORT

- The Department of Mechanical Engineering and A.P.J.Abdul Kalam Memorial Foundation had jointly organized a National level webinar on “**SUSTAINABILITY IN PRODUCT DEVELOPMENT**” through online mode on 22.04.2022 at 10.00 a.m.
- Chief Guest introduction was given by **Mr.S.Nelsonraja**, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering.
- The resource person **Mr.K.Gunasekaran**, Senior Design Engineer, llensys Technologies Private Limited, Hyderabad, had given the technical talk on “Sustainability in Product Development”. In the presentation, the chief guest gave a brief introduction about the Integrating environmental demands in product development.
- 84 participants have been registered from various institutions and attended the webinar.
- Vote of thanks was given by **Mr.R.Shankar**, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering.
- End of the session, all the attended participants gave their feedback and E-certificate have been sent to them through email.


KINGS
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 Near Thanjavur, Punalikulam
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 NAAC Accredited Institution
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**DEPARTMENT OF MECHANICAL ENGINEERING
 &
 Dr.A.P.J. ABDUL KALAM MEMORIAL FOUNDATION
 ORGANIZES
 W E B I N A R
 ON**

**SUSTAINABILITY IN
 PRODUCT DEVELOPMENT**


Chief Guest

Mr.K. Gunasekaran
Senior Design Engineer,
Iiensys Technologies Pvt. Ltd.,
Hyderabad.

Date :
22.4.2022
Friday


**ONLINE
MODE**

Time :
10 am to 11 am


Kings College of Engineering Punalikulam
« LIVE STREAMING »

Mr.N. Magesh, AP/Mech. Mr.R. Shankar, AP/Mech. Coordinators	Dr.T. Pushparaj Prof. & Head/Mech. Convenor	Dr.J. Arputha Vijaya Selvi Principal
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Webinar Brochure


KINGS
 COLLEGE OF ENGINEERING
 Affiliated to Anna University, Chennai.
NAAC Accredited
 Recognized Under 2(f) & 12(B) of UGC
 Punalikulam, Near Thanjavur,
 Gandarvakottai Taluk, Pudukkottai District-613303

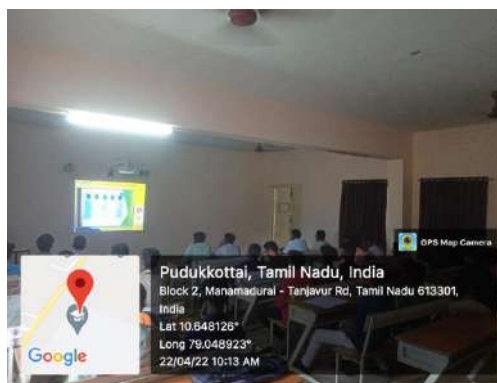


CERTIFICATE OF PARTICIPATION

This is to certify that **Nelson Raja S** of **Kings College of Engineering-Punalikulam** has actively participated in the Webinar on “**SUSTAINABILITY IN PRODUCT DEVELOPMENT**” jointly organized by Department of Mechanical Engineering and Dr.A.P.J.Abdul Kalam Memorial Foundation, Kings College of Engineering, Pudukkottai on **22nd April 2022.**

Mr.N.Magesh, AP/MECH. Mr. R.Shankar, AP/MECH. Coordinators	Dr.T.Pushparaj HOD/MECH. Convenor	Dr.J.Arputha Vijaya Selvi Principal
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Participation Certificate – sample copy



Chief guest Mr. K. Gunasekaran, delivering his speech on Sustainability on Product Development

List of attended participants and Feedback

SN	Name of the participant	Designation	Institute name	Content of the Programme	Feedback/ Suggestions
1	ASWIN . M	Academician	KINGS COLLEGE OF ENGINEERING	Excellent	NICE PROGRAMME
2	Hitesh Kumar	Academician	HDR LAW GROUP OF INDIA	Excellent	Best platform for knowledge
3	Sabanayagam .D	Academician	Kings College of Engineering Punalkulam	Excellent	Nil
4	Vijayasekar	Student	Dr.G.U.Pope college of Engineering, Sawyerpuram	Good	No
5	Kailashkumar	Industrialist	Kings College of engineering	Excellent	No
6	Jayaraj.B	Student	Kings College of Engineering	Excellent	No
7	Jerome	Student	Kings College of engineering	Good	It's good
8	Dhanasekar	Student	Kings College Of Engineering	Excellent	Good
9	Vignesh	Student	Kings College of Engineering	Excellent	No
10	MIDHUN KUMAR	Student	Kings College of engineering	Excellent	Excellent performance I get more idea
11	Pradheesh	Student	Kings College Of Engineering	Good	Good
12	AYYAPPAN	Student	KINGS COLLEGE OF ENGINEERING	Excellent	No
13	KEERTHI GOPAL	Student	Kings college of engineering	Excellent	Improve my knowledge so thank you

14	Gowthaman R	Student	Kings college of engineering	Good	Good
15	Surya S	Student	kings college of engineering	Good	Good
16	Tamilarasan S	Student	Kings College of Engineering	Good	Good
17	Akash R	Student	Kings College of Engineering	Excellent	Good
18	Birthivaraj.D	Student	Kings College of engineering	Excellent	No
19	Samuel S	Student	Kings college of engineering	Good	Super
20	MAHESWARAN M	Student	Kings College of engineering	Good	Good
21	Akashraja D	Student	Kings College of engineering	Good	It is very useful for me that I hope I gain a lots of knowledge from that Thank you for giving this greatest opportunity
22	Yageshwaran.J	Student	Kings college of engineering	Good	No
23	Abimanyu M	Student	Kings college of engineering	Excellent	Nice program
24	E.Arulselvam	Student	Kings College of Engineering	Good	good
25	Venkatesh A	Student	Kings College of Engineering	Excellent	Wonderful session.
26	Ramkumar M	Student	kings college of Engineering	Excellent	Good...
27	Akash B	Student	Kings College Of Enguneering	Excellent	Excellent
28	Rajadurai. R	Student	Kings college of engineering	Good	Very good
29	Ranjith P	Student	Kings college of engineering	Excellent	No
30	RAMANAN V	Student	Kings College of engineering	Excellent	No
31	Krithick Roshan S	Student	Kings college of engineering	Excellent	Good
32	Akash.B	Student	Kings College of engineering	Excellent	This program was very useful
33	Karthikeyan S. R.	Academician	Kings College of Engg	Excellent	Good

34	Nelson Raja. S	Academician	Kings College of Engineering-Punalkulam	Excellent	Nil
35	SANJEEV KUMAR G	Academician	GOVT DEGREE COLLEGE BASOHLI J&K UT	Excellent	Excellent Webinar
36	RAJADURAI. R	Academician	Kings college of engineering	Excellent	—
37	VANJINATHAN A	Student	Kings college of engineering	Good	Good
38	SAKTHIVEL .M	Academician	Kings college of Engineering	Excellent	Nice
39	JOE CECIL T	Industrialist	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY	Good	GOOD
40	Venkatesh E	Student	KCE	Excellent	Good
41	BALAJI D	Academician	Kings College of engineering	Excellent	Keep it up
42	Vigneshwaran J	Student	Kings College of engineering	Excellent	No
43	Sanjay kumar S	Student	Kings College of engineering	Good	Nothing
44	S.MOHAMED HALITH	Student	KINGS COLLEGE OF ENGINEERING	Good	--
45	JAYAPRAKASH R	Student	KINGS COLLEGE OF ENGINEERING	Excellent	Good
46	Chanra priya	Student	Kings College of engineering	Excellent	Nil
47	Regubalan K	Academician	Kings college of Engineering	Excellent	Nil
48	ALEX R	Academician	Kings college of Engineering	Excellent	Good
49	VASANTH K	Student	Kings college of engineering	Excellent	Good
50	AKESH SATHIYA A	Student	KINGS COLLEGE OF ENGINEERING	Excellent	No
51	KARTHIKEYAN K	Student	KINGS COLLEGE OF ENGINEERING	Excellent	No
52	Abirami U	Student	King of college of engineering	Excellent	Excellent
53	Shantharaman. P.P.	Academician	Kings College of Engineering	Excellent	Nice session
54	BALAGANESH S.	Academician	Kings college of engineering	Good	Nil
55	AGILAN H.	Academician	Kings college of engineering	Excellent	Good
56	Santhosh G	Student	Kings College of engineering	Excellent	Good

57	Dr.T.Pushparaj	Academician	Kings College of Engineering	Excellent	No
58	Maran R	Student	Kings College of engineering	Good	Good
59	Misfar M	Student	Kings College of engineering	Excellent	Nothing
60	Mohamed Rilwan R	Student	Kings College of engineering	Excellent	--
61	Pravenkumar M	Student	Kings College of engineering	Excellent	Nice session
62	Rajesh N	Student	Kings College of engineering	Excellent	Good
63	Ramprasath R	Student	Kings College of engineering	Excellent	--
64	Sakthivel E	Student	Kings College of engineering	Good	Good session
65	Samikannan M	Student	Kings College of engineering	Good	Good
66	Santhosh R	Student	Kings College of engineering	Good	No
67	Santhoshkumar C	Student	Kings College of engineering	Excellent	No
68	Shanmugabharathi S	Student	Kings College of engineering	Excellent	Good
69	Srikumar S	Student	Kings College of engineering	Excellent	Good
70	Subash P	Student	KCE	Excellent	Good
71	Sulthan abdul kadher R	Student	Kings College of engineering	Excellent	Good
72	Thangapandiyam S	Student	Kings College of engineering	Good	Good
73	Vasanth M	Student	Kings College of engineering	Excellent	Good
74	Vimalraj P	Student	Kings College of engineering	Excellent	No
75	Vivek A	Student	Kings College of engineering	Excellent	Nice session
76	Vivek K	Student	Kings College of engineering	Excellent	No
77	Balaji S	Student	Kings College of engineering	Excellent	No
78	Harish ragavendra M	Student	Kings College of engineering	Good	--
79	Jahanraj J	Student	Kings College of engineering	Excellent	No
80	Kabil V	Student	Kings College of engineering	Excellent	--

81	Kabilan G	Student	Kings College of engineering	Excellent	Wonderful session
82	Kabilan M	Student	Kings College of engineering	Excellent	Nice session
83	Keerthivasan R	Student	Kings College of engineering	Excellent	--
84	Lenin kumar S	Student	Kings College of engineering	Good	Good

Mr.N.Magesh

Mr.R.Shankar

Coordinator

Dr.T.Pushparaj

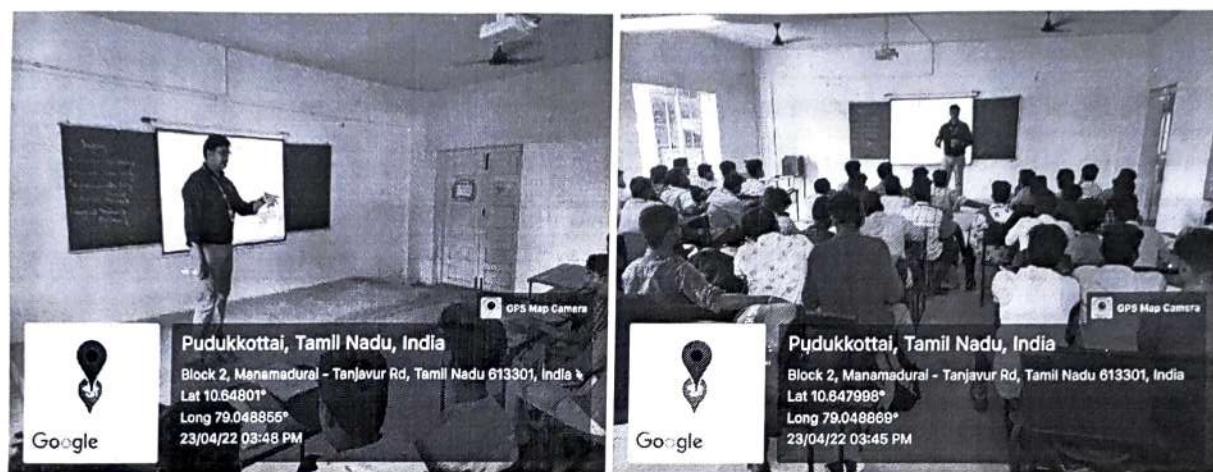
HoD/Mech.

Dr.J.Arputha Vijaya Selvi

Principal

Department of Mechanical Engineering
Academic year 2021-22 (EVEN)
Career Guidance Program Report

Date & time : 23.04.2022 & 03.25 pm
Venue : Department ICT Classroom
Topic : Career Guidance Program
Resource person : Mr.S.Sabanayagam, AP/Mechanical



Snapshots of the session

A career guidance along with higher study initiative event was organized by Department of Mechanical Engineering, Kings College of Engineering, Punalkulam. The main focus of the event was II Year A & B students of Mechanical Engineering. Totally 70 students attended the program. The event was intimated to the beneficiaries through circular & WhatsApp. The program was conducted on 23/04/2022 at Mechanical ICT classroom 03.25 PM. Mr. S. Sabanayagam, AP/Mechanical presented the career guidance and the opportunities available in the society along with possible ways that a Mechanical Engineering graduate will have in their hand.

After the session, Feedback was obtained from the beneficiaries and the responses along with event screenshots were provided for the reference.

Chapters Discussed:

- Opportunities after Graduation
- Entrepreneurship
- Higher study initiatives
- Competitive Exams

Outcomes:

Upon listing of this event, the participants can able to

- Know the various opportunities regarding mechanical engineering.
- Become an entrepreneur by engaging themselves in innovative ideas.
- To participate in competitive exams and go for higher education.

References:

1. <https://files.eric.ed.gov/fulltext/EJ1086214.pdf>.
2. Increasing students' career readiness through career guidance: measuring the impact with a validated measure by Vanessa Dodd, Jill Hanson & Tristram Hooley
3. Career Guidance and Student Counselling by Radhika Kapur

Feedback Sample

 KINGS  Department of Mechanical Engineering Academic year 2021-22 Even Career guidance programme on 23.4.2022 Feedback from students					
Sno	Description	Very good	Good	Fair	Need to Improve
1	Voice of the Speaker	✓			
2	Content of the session	✓			
3	Video quality		✓		
4	Overall feedback of the session		✓		

 KINGS  Department of Mechanical Engineering Academic year 2021-22 Even Career guidance programme on 23.4.2022 Feedback from students					
Sno	Description	Very good	Good	Fair	Need to Improve
1	Voice of the Speaker	✓			
2	Content of the session	✓			
3	Video quality	✓			
4	Overall feedback of the session	✓			

 KINGS  Department of Mechanical Engineering Academic year 2021-22 Even Career guidance programme on 23.4.2022 Feedback from students					
Sno	Description	Very good	Good	Fair	Need to Improve
1	Voice of the Speaker	✓			
2	Content of the session		✓		
3	Video quality				
4	Overall feedback of the session				


25/4/22
Staff i/c

T. P. Srinivas
HoD/Mech 26/4/22



**Department of Mechanical Engineering
Academic year 2021-22 (EVEN)**

Circular

22.04.2022

This is to inform you that there will be a Career Guidance Program going to be conducted by our Department on 23.04.2022 at 3.25 pm about future goals of budding Engineers by Mr.S.Sabanayagam, AP/Mechanical at Department ICT Classroom. All the II Year A & B students are instructed to utilize the session and communicate your queries.

T. Prabhakaran
HoD/Mech & 22/4/22



Department of Mechanical Engineering

National Conference on

Energy and Manufacturing Scenario -2022

NCEMS-22 Report / Even 2021-22

The department of Mechanical Engineering organized a National Conference on Energy and Manufacturing Scenario - 2022 on 9th June 2022.

CONFERENCE OBJECTIVE:

The conference aims at bringing researchers, academicians, practicing engineers and industrialists to a common platform which provides a national forum for researchers to exchange ideas in recent advances on various aspects of theories, analysis, experimentation and computational methods in engineering. Papers are invited from Post Graduate students / Researchers / Practicing Engineers and Research Personnel.

CONFERENCE THEME:

MANUFACTURING

- RPT / FEA
- Unconventional Machining Processes
- Welding & Casting
- Nano Technology
- Materials-Composites
- CAD / CAM / CIM
- Advanced Manufacturing Techniques
- Lean Manufacturing/ANN

ENERGY

- Thermal Engineering
- Renewable Energy Management
- Solar Energy
- Wind Energy
- Advanced Heat Transfer
- Tidal Energy
- Energy Storage Technologies
- Biomass Gasification

ADVISORY COMMITTEE	TECHNICAL COMMITTEE
<ul style="list-style-type: none"> ➤ Dr.K.R.Balasubramanian, NIT, Trichy. ➤ Dr.A.Mani, IIT, Chennai. ➤ Dr.K.Panneerselvam, NIT, Trichy. ➤ Dr.S.R.Pandiyam, IIITDM, Kanchipuram. ➤ Dr.V.Balasubramaniam, Annamalai University, Chidambaram. ➤ Dr.S.Sivasankar, GCE, Thanjavur. ➤ Dr.T.Sekar, GCE, Salem. ➤ Dr.G.Rajamohan, SASTRA, Thanjavur. ➤ Dr.S.Chockalingam, EGSPEC, Nagapattinam. ➤ Dr.N.Baskar, SCE, Trichy. ➤ Dr.P.K.Srividhya, PMIST, Thanjavur. ➤ Dr.M.Ravichandran, KRCE, Trichy. ➤ Dr.K.Balasubramaniam, Bharath University, Chennai. ➤ Dr.A.Palanisamy, SEC, Erode. ➤ Dr.T.Rajeshkanna, AAMEC, Kovilvenni. ➤ Dr.T.Balamurugan, AEC, Kumbakonam. ➤ Dr.M.Thilak, SRM-TRPEC, Trichy. ➤ Dr.M.Suresh, SSNCE, Chennai. 	<ul style="list-style-type: none"> ➤ Dr.K.Srinivasareddy, IIT, Chennai. ➤ Dr.K.Senthilkumaran, IIITDM, Kanchipuram. ➤ Dr.J.Jerald, NIT, Trichy. ➤ Dr.D.Leninsingaravelu, NIT, Trichy. ➤ Dr.U.Natarajan, ACTECH, Karaikudi ➤ Dr.S.Periyasamy, GCT, Ciombatore. ➤ Dr. N.Senthilkumar, NIT, Pudhuchery. ➤ Dr.K.Kannan, AAMEC, Kovilvenni. ➤ Dr.D.Sreenivasan, KRCE, Trichy. ➤ Dr.A.Naveen Sait, MIETEC, Trichy. ➤ Dr.S.Jaisankar, SLCET, Thanjavur. ➤ Dr.M.Prabhakar, SRM-TRPEC, Trichy. ➤ Dr.D.Prakash, SASTRA, Thanjavur. ➤ Dr.G.Elatharasan, UCE, AU Pattukottai. ➤ Dr.A.Mercy Vasan, SCE, Trichy. ➤ Dr.S.Krishnamohan, EGSPEC, Nagapattinam. ➤ Dr.C.G.Saravanan, Annamalai University, Chidambaram. ➤ Dr.R.Ganesh, PITS, Thanjavur. ➤ Dr.B.Sureshkumar, KRCT, Trichy.

The conference brochure was designed and circulated through Social Medias like E-mail, Whatsapp and Twitter to various colleges. 16 papers were selected by technical committee and the authors were informed the selection of their paper through mail.

NCEMS 2022 (09.06.2022):

The inaugural function was started at 09.45 am. Mr.S.Desikan, AP/Mech welcomed the gathering. He invited Organizing chair of NCEMS-2022 to deliver welcome address. Dr.T.Pushparaj welcomed the Chief Guest, Secretary, Principal, Vice Principal and participants from various engineering colleges. Mr.S.Sabanayagam AP/Mech introduced the Chief Guest Dr.D.Jeyasimman, PMIST, Vallam. Dr.S.Sivakumar, Vice Principal delivered the presidential address to gathering and also insisted the participants for the importance and effective use of the NCEMS-2022. Dr.D.Jeyasimman, Chief guest delivered the Keynote address. He delivered about the recent advances in Industry 4.0.

The technical session was started at 11.15 am. Dr.T.Pushparaj and Dr.P.P.Shantharaman had acted as a jury for the technical session I and II. The evaluation based on the presentation, concept and implementation and the answers given to the queries. Each team had 10 minutes (presentation – 08 minutes & query – 2 minutes) to present their papers. After the session, the evaluation sheet was collected from the juries and evaluated the quality of the articles and presentations.

The valedictory function was started at 03.30 PM. Mr.R.Shankar, AP/Mech conveyed the sincere gratitude to Secretary, Principal, Vice-Principal and all the faculty members, KingsCollege of Engineering for making this Event a grand success.

POST CONFERENCE WORK:

The participants were asked to submit the feedback about conference. Certificates were distributed to the participants based on their active participation in the conference.

CONFERENCE AGENDA:

Inauguration		VENUE : Chera Hall
10.00 am	Prayer song	
10.05 am	Welcome address – Dr.T.Pushparaj, HOD/ Mech	
10.10 am	Introduction of Chief Guest – Dr.D.Jeyasimman by Mr.S.Sabanayagam, AP/Mech	
10.15 am	Lamp lighting, Proceeding release and Shawl honoring ceremony	
10.20 am	Presidential address by Dr.S.Sivakumar, Vice Principal	
10.25 am	Keynote Address by Dr.D.Jeyasimman, chief guest	
10.45 am	Tea Break	
11.00 am	Presentation Session – I	
1.00 pm	Lunch Break	
1.45 pm	Presentation Session - II	
3.10 pm	Tea Break	
Valedictory		
3.30 pm	Conference Report by – Mr.H.Agilan, AP/Mech	
3.45 pm	Vote of Thanks – Mr.R.Shankar, AP/Mech	

CONFERENCE INVITATION:**KINGS**COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.A NAAC Accredited Institution
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi09th
JUNE
2022**DEPARTMENT OF MECHANICAL
ENGINEERING**

PROUDLY PRESENTS

NATIONAL LEVEL CONFERENCE ON

Energy and Manufacturing**Scenario 2022***Key note address*

Dr.D.Jeyasimman, ME., Ph.D.,

Associate Professor,

Department of Mechanical Engineering,

Periyar Maniammai Institute of

Science & Technology - Vallam



S. Desikan, AP/Mech,

M. Aswin, AP/Mech,

Coordinators

Dr.T.Pushparaj, ME., Ph.D.,

HoD/MECH

Dr.J.Arputha Vijaya Selvi, ME., Ph.D.,

Principal

Website: <https://kingsengg.edu.in/>

*For further details, please contact: 63803 56560

Registration fee
UG / PG student
(Rs.250/Head)
Faculty/Industrial persons
(Rs.750/Head)

Important dates to remember

Submission of abstract 20.05.2022

Notification of Acceptance 23.05.2022

Submission of full paper 25.05.2022

Conference Date 09.06.2022

SAMPLE CERTIFICATE:**KINGS**COLLEGE OF ENGINEERING
Affiliated to Anna University, Chennai.A NAAC Accredited Institution
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi**Certificate of Participation**

This is to certify that _____ of _____,
from _____ has actively participated in the
National Conference on "Energy and Manufacturing Scenario – 2022",
organized by Department of Mechanical Engineering, Kings College of
Engineering, Punalkulam, Near Thanjavur on 9th June 2022.

Organizing Secretary

Convener

Principal

Glimpses of NCEMS' 22:



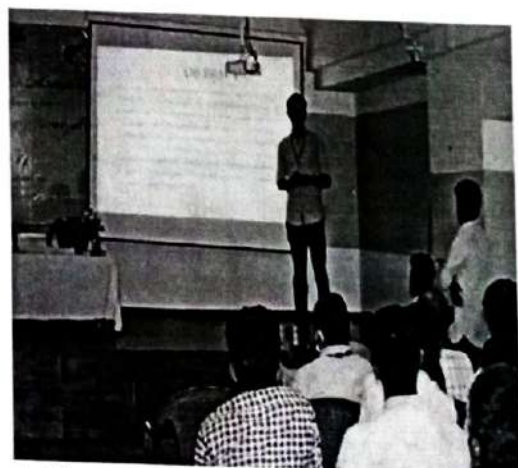
Delegates releasing conference proceedings



Mr.S.Sabanayagam introducing Chief guest



Dr.D.Jeyasimman delivering keynote address



Students' presentation

SP - 16.6.22
Organizing Secretary

Mr.S.Desikan

T. Pushparaj
Organizing Chair 17/6/22

Dr.T.Pushparaj

J. Arputha Vijaya Selvi
17/6/2022

Principal

Dr.J.Arputha Vijaya Selvi



3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

Sl. No.	Date	Details	Beneficiaries	Page Number
S&H				
1	25-06-2022	e-International Conference on "Recent Trends in Smart Materials"	64	1
2	24-12-2021	Intra Department Paper Presentation on various titles	30	6
3	10.02.2022	Intra Department Paper Presentation on Life Through Chemistry	44	8
4	30.03.2022	Paper Presentation on Advanced Construction Techniques, Green Building and Intelligent Transportation System"	18	14
5	28-02-2022	Sir C.V Raman's Science Expo-2022	30	15
6	18-05-2022	Mini Project Expo-2022	44	19
7	03.06.2022	Mini Project Expo	18	24
8	07-11-2021	Sir C V Raman Memorial Science online Quiz	72	28
9	22.12.2021	Srinivasa Ramanujan memorial - Quiz	50	31



Department of Physics and Chemistry

e - International Conference on Recent Trends in Smart Materials
(ICRTSM-2022)

Report

Date : 25.06.2022

Venue : Department of Chemistry

Department of physics and Chemistry of Kings College of Engineering organised e - International Conference on "Recent Trends in Smart Materials (e-ICRTSM 2022)" on 25th June 2022 (Online mode- Google meet platform). The conference chair Dr.V.Suresh Kumar, HoD / S & H welcomed the gathering. Dr.R.Rajendran, Secretary, delivered the presidential address, Dr. J. Arputha Vijaya Selvi, Principal delivered the felicitation address and Mr.S.Ambalatharasu, AP/Physics and, Dr.P.Saravanan, AP/Chemistry introduced the chief guests.

Dr.A.Kathalingam, Professor, Dongguk University, Seoul, South Korea delivered the inaugural address and Dr. H. C. Ananda Murthy, Professor, Adama Science and Technology University, Adama, Ethiopia, delivered the keynote address.

The hard and soft copy of Conference proceedings were released by the Principal and received by the conference chair Dr.V.Sureshkumar.

Dr.A.Kathalingam has delivered invited lecture on "Recent Developments in Advanced Nanomaterials for Energy Storage Applications" and Dr. H. C. Ananda Murthy has delivered lecture on "Application of smart materials in various fields"

Research papers from various fields were presented by participants in the Technical session I and II. Mrs.S.Anuradha, AP/Physics acted as chair person for technical session I and Dr. S.Udayakumar, AP/Chemistry acted as a chair person for technical session II.

In the valedictory function, the organising secretary Dr.P.Saravanan presented the conference report. Finally Mrs. S. Anuradha, AP/ Physics has delivered the vote of thanks. Near about 46 research papers were presented and 50 participants participated.

Department of Physics and Chemistry
e - International Conference on Recent Trends in Smart Materials
(ICRTSM-2022)
Report

25.06.2022



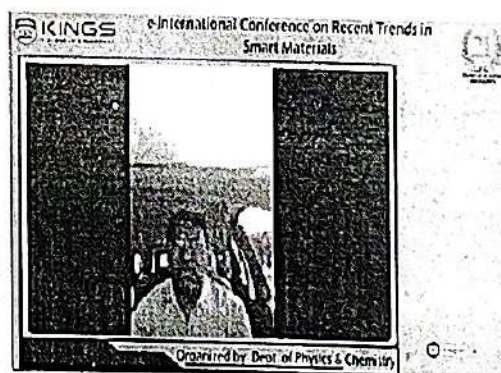
**Presidential address by Secretary
Dr.R.Rajendran**



**Felicitation address by Principal
Dr.J.ArputhaVijaya Selvi**



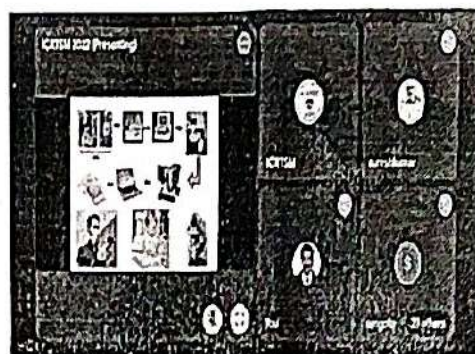
**Releasing the Hard copy of
Conference Proceedings**



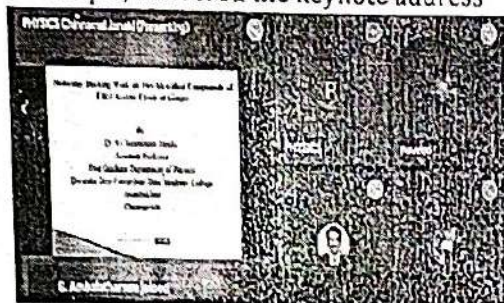
**Inaugural address by
Dr.A.Kathalingam
Professor, Dongguk University, Seoul,
South Korea**



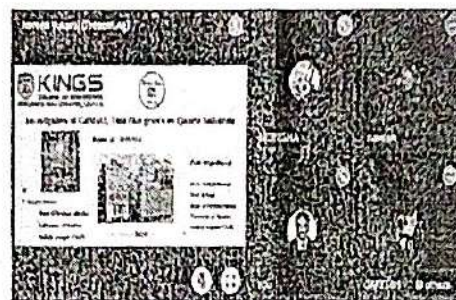
Dr. H. C. Ananda Murthy, Professor, Adama Science and Technology University, Adama, Ethiopia, delivered the keynote address



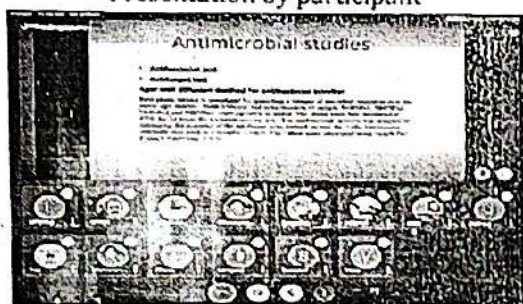
Invited lecture by Dr. A. Kathalingam



Presentation by participant



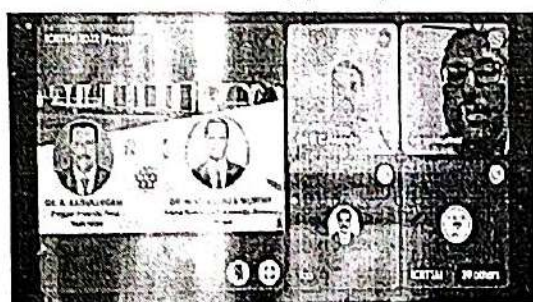
Presentation by participant



Presentation by participant



Valedictory function



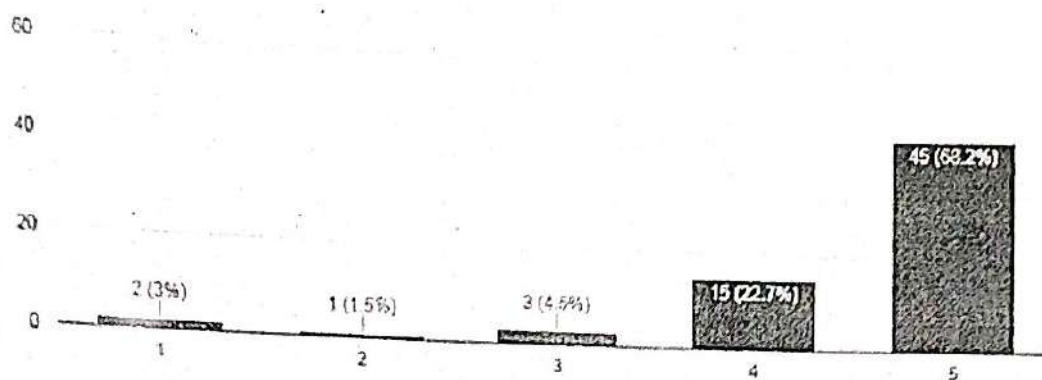
Conference Chair
Dr. V. Sureshkumar

Principal

Feedback Analysis

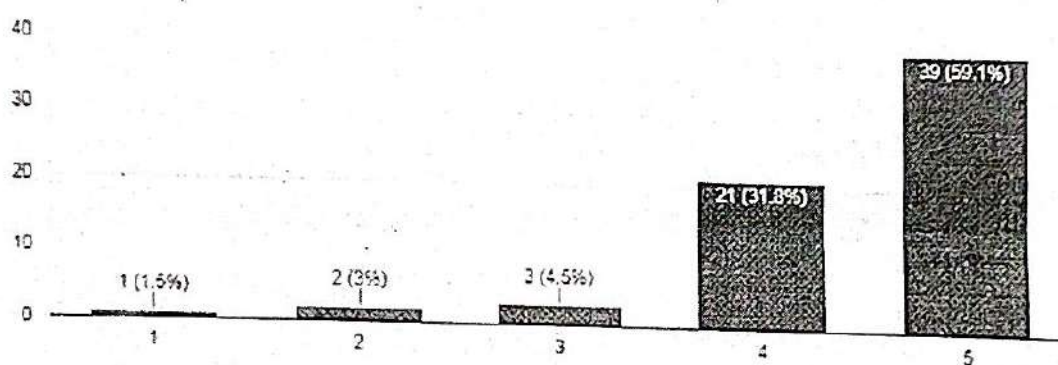
Overall feedback about the International Conference

66 responses



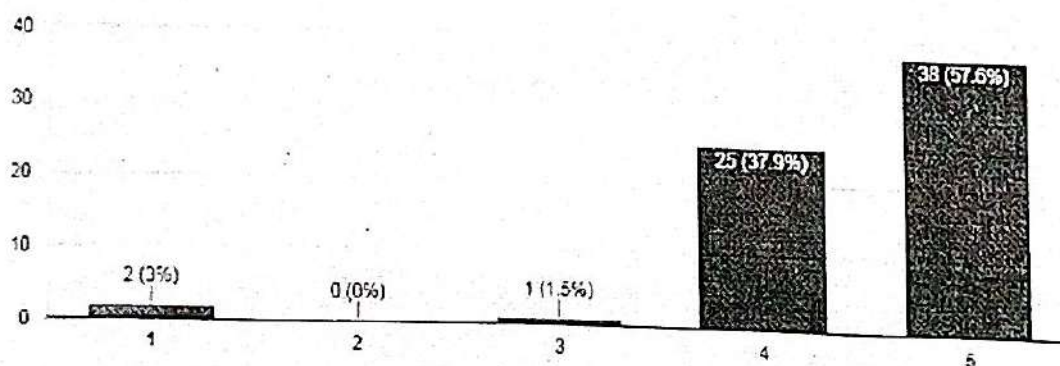
Content of the Conference?

66 responses



Resource person way of presentation?

66 responses





KINGS
COLLEGE OF ENGINEERING

Recognized under 2(f) & 12(B) of UGC

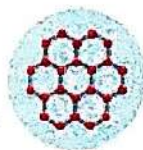
Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalkulam, Gandarvakottai (th), Near Thanjavur, Pudukkottai - 613303



e-International Conference on "Recent Trends in Smart Materials (ICRTSM - 2022)"



DR. A. KATHALINGAM
Dongguk University, Seoul,
South Korea



DR. H. C. ANANDA MURTHY
Adama Science and Technology University
Ethiopia

Organized by

Department of Physics and Chemistry

Dr. P. Saravanan, AP/Chemistry
Mr. S. Ambalatharasu, AP/Physics
Organizing Secretaries

Dr. V. Sureshkumar, HOD/S&H
Conference Chair

Dr. J. Arputha Vijaya Selvi
Principal

25 JUNE 2022

09:45 AM

Smart Classroom
Kings College of Engineering



Google Meet Platform
<https://meet.google.com/icb-izya-thd>

All are Invited

www.kingsengg.edu.in



DEPARTMENT OF HUMANITIES AND ENGLISH

DEPARTMENT OF ENGLISH

ACADEMI YEAR 2021-2022 (ODD SEMESTER)

**PAPER PRESENTATION PROGRAMME FOR I YEAR
REPORT**

28.12.2021

The students of First Year readily took up the initiative to participate in the Paper Presentation event, zeroed in on the grammar skills, held in the Smart Class I Year Block on 24.12.2021 and 27.12.2021. This presentation event strives to create a better ambience by inspiring and this event showcased the very essence of unbridled skills of the participants.

Paper Presentation Topics:

- Nuances of Clauses and its practical use in life.
- Implementation of Tense forms with regarding to the situation.
- Strategies for the concept of Active and Passive voices.
- Advantages of Direct and Indirect Speeches.
- Importance of Vocabularies to Improve Fluency

Venue: Smart Class Room, I Year Block

The Paper Presentation event hosted a total of 22 individuals from all the branches of engineering education. The panel of judges was the Head of H&S, the Head of Mathematics, and the faculty of English Department, and it ensured a fair, unbiased representation on appraising the potent of presenters. It was indeed a sea of brilliance, as the presenters came forward with incredible skills on presentation. Fielding question after question by the judges, the participants displayed their undying thirst for knowledge, whilst showcasing their immense interest and the astonishing amount of effort and research put into each of their individual presentations.

The event sparked up a new array of ideas in developing their ideas on the chosen topics. The participants felt such opportunities would be conducive for them to foster the creativity in learning grammar skills and its application in our daily life will prove beneficial for building a healthy educational profile for budding engineers.

The winners of the Presentation are:

First Place : **M. ROOHI SHIFA- I CSE**

Second Place: **P.A. BHARATHI- I CSE**

Third Place : **V.KRISHNAMOORTHY- I ECE**

Glimpses of the Event



The inaugural of the paper presentation event



Pageant of the faculty members and the participants



Dr.V. Sureshkumar addresses the gathering of faculty of I year Departments and the presenters




Ardent pose of Faculty Members while evaluating the presentation of students

PRESENTATION OF I YEAR STUDENTS




 HoD / S&H


 Principal
 PRINCIPAL
 Kings College of Engineering,
 PUNALKULAM - 613 303.

07.02.2022

From

The HoD
Department of Science and Humanities
Kings College of Engineering
Punalkulam

To

The Principal
Kings College of Engineering
Punalkulam

Respected Madam,


Sub: Requesting permission to organize intra department paper presentation - reg;

Department of chemistry ^s planned to organize an Intra department paper presentation for all the first year students of our college on 10.02.22 (Thursday), between 2.00 to 4.00pm.

Kindly give permission to organize the same.

Thanking You

Yours faithfully


(Dr. V. Suresh Kumar)

J. Praveen
08/2/2022



Department of Science and Humanities
ACADEMIC YEAR 2021 -2022(ODD SEM)

07.02.2022

Circular

Department of chemistry planned to organize an **Intra Department paper presentation** for all the first year students of our college on 10.02.22 (Thursday), between 2.00 to 4.00pm. Interested students are asked to enroll their name and submit PPT to Dr.S.Udayakumar, & Dr.P,Saravanan, AP III, Department of Chemistry on or before 9.02.2022. Selected papers only allowed to present during the presentation.

Venue: Block IV Smart Class Room

Theme: Life through Chemistry

GUIDELINES FOR PAPER PRESENTATION

- Students should hand over the Soft copy of PPT during the registration
- Team size : Two Students, Time: 10 min
- Expert committee will be award the marks
- Certificates will be issued to participants those who got first 2 places.
- Best paper will be honored by gift.

1.
2.
Incharge

7/2/2022
HoD/S & H

CSG -

ECG -

EEG -

EEG

MECH -

Department of Science and Humanities
Academic Year 2021-22 / ODD Semester

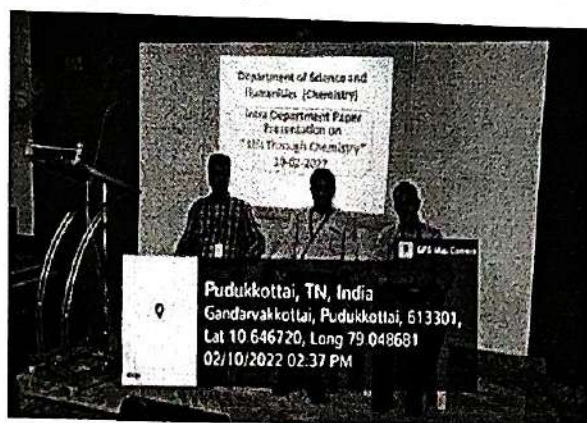
**Report of "Intra Department Paper Presentation
on Life Through Chemistry"**

Date : 10.02.2022

Venue : Smart class Room

The Department of Chemistry, Kings College of Engineering organised "Intra Department Paper Presentation" on 10th February 2022. Dr.S.Udayakumar, AP Gr.III / Chemistry welcomed the gathering. The programme was inaugurated by Dr.V.Suresh Kumar, HoD / S&H. In his inaugural address he appreciated the students for their active participation, also he encouraged the students to participate in the events organized by other colleges. Finally Dr.P.Saravanan AP Gr III / Chemistry delivered the vote of thanks.

In this programme, 22 teams (44 first year students) from various departments ~~were~~ enthusiastically participated. Out of 22 teams, two teams were selected for first two positions. The winners were appreciated by giving certificates on 11.02.2022 (Friday) SCC.



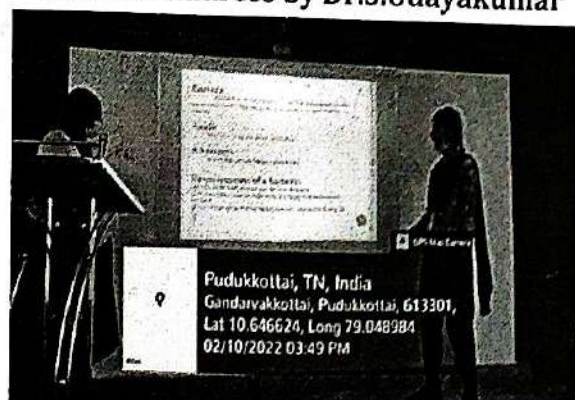
Inauguration



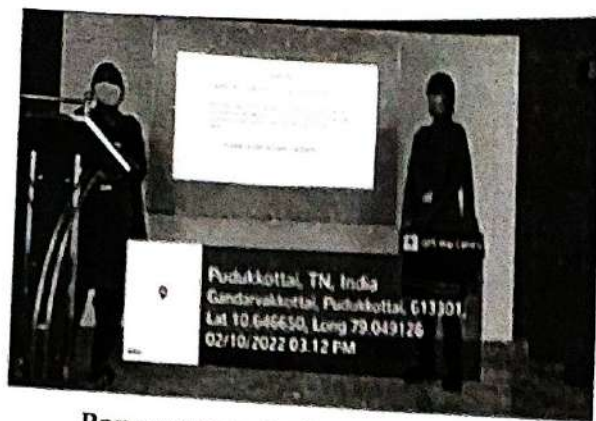
Welcome address by Dr.S.Udayakumar



Felicitation by Dr.V.Sureshkumar HoD S&H



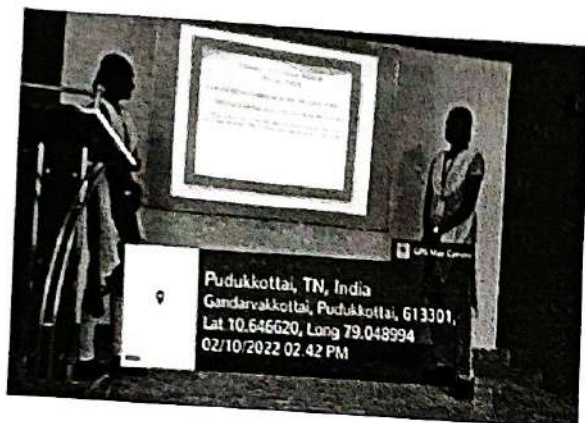
Paper presentation by students



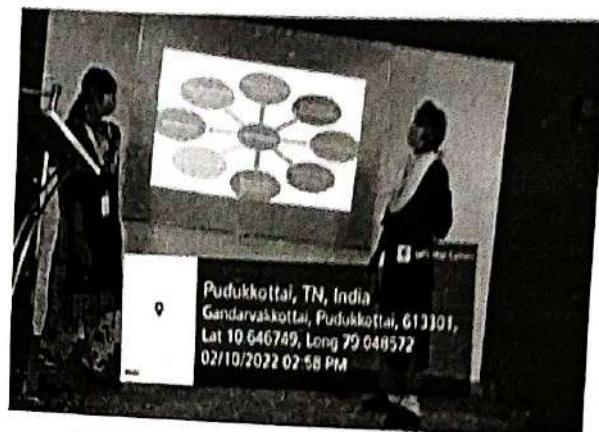
Paper presentation by students



Paper presentation by students



Paper presentation by students



Paper presentation by students



Distribution of certificates on 11.02.2022 (Friday) SCC

1. *[Signature]* 12/2/22
2. *[Signature]* 12/2/22
Programme Incharges

[Signature] 12/2/2022
HoD/ S&H

[Signature] 12/2/2022
Principal

Department of Science and Humanities

Academic Year 2021-22 / Odd Semester

Intra Department Paper Presentation
"Life through Chemistry"

Organized by Department of Chemistry on 10-02-2020

Programme Incharge : Dr.P.Udayakumar, AP/ Chemistry Dr.P.Saravanan, AP/ Chemistry

Team No.	Name of the participant (s)	Dept.	Content of the paper (10)	Presentation (10)	Interaction (10)	Total (30)	Position
1	NAVINIYAA. GV AKLYA.J	CIVIL	8	6	5	19	
2	MOHAN . S VIJAY .S	CIVIL	8	7	4	19	
3	NITHYASHRI B M SIVADHARANI M	CSE	8	8	5	22	III
4	ROOHI SHIFA M BHARATHI P A	CSE	9	9	9	27	I
5	SHARMIKA R ROOBIGA R	CSE	8	7	6	21	
6	DHARANI R KEERTHANA J	CSE	7	6	5	18	
7	SOWMIYA P J GAYATHIRI S	CSE	7	6	4	17	
8	NAVEEN G MURUGANANTHAM P	CSE	7	6	5	18	
9	SRIRAM R PRASANNA R	CSE	7	5	4	16	
10	KUMARESAN K P MOHAMED ASICK A	CSE	6	5	4	15	
11	AAKASH S SURENDRAN V	CSE	6	6	4	16	
12	SARAVANAN K JEEVESH P S	CSE	6	5	4	15	
13	PRAKASH M MANIBHARATHI V S	CSE	7	5	4	16	

Team No.	Name of the participant (s)	Dept.	Content of the paper (10)	Presentation (10)	Interaction (10)	Total (30)	Position
14	HARI PRASATH S MONESHWARAN S	CSE	5	5	3	13	
15	SWATHI V SNEHARAJ	ECE	8	8	7	23	II
16	JAYA PRASAD P KRISHNAMOORTHY V	ECE	8	6	5	19	
17	THIRUNITHI K NITHISH DEVI K	ECE	8	7	5	20	
18	YAMUNA D PANDIMEENA K	ECE	7	6	4	17	
19	GAYATHRI K C SUJITHA S	EEE	7	5	4	16	
20	VIJAY V YUVARAJ A	ECE	4	3	4	11	
21	SHANMUGAESWARAN S SIVANANTHAM S	EEE	5	3	3	11	
22	RUTHRAN K SARAVANAKUMAR M	EEE	5	5	3	13	

1. *[Signature]* 12/2/22
 2. *[Signature]* 12/2/22
 Programme Incharges

[Signature] 12/2/2022
 HoD/ S&H



ISTE STUDENT CHAPTER (TN 217)
ACADEMIC YEAR 2021-22 (EVEN)
Paper Presentation Report

The ISTE Student Chapter, Kings College of Engineering, Organized a competition on Paper Presentation on the topics

- **Advanced Construction Techniques**
- **Green Building**
- **Intelligent Transportation System**

On 30.03.2022 between 1.30pm – 3.30pm at Smart Class for the ISTE student members of Civil Engineering Department. 18 students actively participated in this competition. The following students are the prize winners.

POSITION	CLASS	NAME OF THE STUDENT
FIRST	IV CIVIL	NANDHINI.R RAHINI.S
SECOND	IV CIVIL	PADMA REKA.R JAYASHREE.S
THIRD	II CIVIL	BHARATH.G JOSHUVA.M



Students actively presenting the Paper Presentation

DEPT CO-ORDINATOR

ISTE CO-ORDINATOR
 31/3/22

PRINCIPAL
 04/4/2022



Academic Year – 2021-22-ODD Semester

NATIONAL SCIENCE DAY

DEPARTMENT OF SCIENCE AND HUMANITIES

&

RESEARCH AND DEVELOPMENT SECTION

Sir C.V. Raman's Science Expo –REPORT

Theme: Integrated Approach in Science and Technology for a Sustainable Future

Every year National Science day was celebrated on 24th February to the commemorate the invention of Raman's Effect. In this regard, the Department of S&H and Research & Development section of our college jointly organized "Sir.C.V.Raman Science Expo'22" on 28.02.2022. Our college students exhibited their innovative ideas through their project.

Expo was conducted under various sub themes from the theme of "Integrated Approach in Science and Technology for a Sustainable Future". Dr.R.Rajendran, Secretary launched and led the science expo. Dr.J.Arputha Vijaya Selvi, Principal, presided Dr.V.Sureshkumar, HoD/S&H, and Dr.P.P.Shantharaman, Convener/DRC, felicitated the expo.

More than 50 students participated and showcased their innovative creations. The winners were appreciated with Cash award and Certificates. It was stoically decided to take the platform of intelligence to the level of grandeur in future. The arrangements for the expo were made by Dr.R.Suresh, Assistant Professor /S&H and Mr.T.Pasupathi, Assistant Professor/ECE.

Outcomes:

- Instilled scientific attitude in the young generation to make them realize the interdependence of science, technology, and society.
- Provided an opportunity for students to apply the scientific method to conduct independent research.
- Promoted creative thinking and manipulative skills among students through self devised science projects or models.



KINGS
COLLEGE OF ENGINEERING
NAAC Accredited & ISO Certified Institution
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalakulam, Gandarvakottai Taluk, Pudukkottai Dist. - 613 303.



IEEE
MADRAS SECTION
STB16621
INSTITUTION'S
INNOVATION
COUNCIL
Ministry of Education

SIR C.V. RAMAN'S SCIENCE EXPO'22

Jointly organized by
R&D Section and Department of Science & Humanities

Themes
Sources of Energy & Energy Saving
Global Warming
5G Technology
Pollution Control
Evolution of Vehicles
Modern Materials in Engineering
Robotics (AI)



**NATIONAL
SCIENCE DAY**
28th February, 2022

Registration Fee: Rs. 100/team



To register
Scan QR code



Prizes
I Prize - Rs. 1000/-
II Prize - Rs. 500/-

Coordinators
Dr. R. Suresh, AP/Maths
Mr. T. Pasupathi, AP/ECE

Conveners
Dr. V. Sureshkumar, HOD/S&H
Dr.P.P.Shantharaman, Assoc. Prof/Mech

Dr. J. Arputha Vijaya Selvi
Principal

Brochure

Sir C.V.RAMAN'S SCIENCE EXPO'22 – 28.02.2022



Our Secretary launched and led the Science Expo



Our Principal Presided the Expo



Students Demonstrated their project to our Secretary



Dr.V.Sureshkumar,HoD/S&H and
Dr.P.P.Shantharaman,DRC/Convener visited the Expo



Students Demonstrated their project to our Principal



Students explained their project to our Dignitaries



Students Received Cash award of Rs.1000 for FIRST prize in Project Expo from our Principal



Students Received Cash award of Rs. 500 and Rs.300 for II and III Prizes Respectively

தஞ்சாவூர் அருகே கிங்ஸ் பொறியியல் கல்லூரியில் தேசிய அறிவியல் தின நிகழ்ச்சி

தஞ்சை மார்.2-

தஞ்சை ய
அடுத்துள்ள புனல்குளம்
கிங்ஸ் பொறியியல்
கல்லூரியில்
தேசிய அறிவியல்
தினத்தையொட்டி சர்.
சி.வி ராமன் அறிவியல்
கண்காட்சி - 2022
நடைபெற்றது. கல்லூரி
செயலாளர் ராஜேந்திரன்
அறிவியல் கண்காட்சியை
ஆரம்பித்து வைத்து
தலைமை வகித்தார்,
கல்லூரி முதல்வர்
அற்புத விஜய செல்வி
முன்னிலை வகித்தார்,
கிங்ஸ் பொறியியல்
கல்லூரி மாணவர்கள்
தங்கள் படைப்பாற்றலை
ஆய்வுகள் மூலம்
வெளிப்படுத்தி




02.03.22 Page-2

இருந்தனர், மாணவர்கள்
மற்றும் பேராசிரியர்கள்
அனைவரும் அறிவியல்
கண்காட்சியை
பார்வையிட்டனர்.

கண்காட்சியின்
முடிவில் சிறந்த
ஆய்வுகளுக்கு பரிசுகள்

மற்றும் சான்றிதழ்கள்
வழங்கப்பட்டது, அறிவியல்
கண்காட்சிக்கான
ஏற்பாடுகளை முதலாம்
ஆண்டுதுறையும் ஆராய்ச்சி
மற்றும் மேம்பாட்டு
துறையும் இணைந்து
செய்திருந்தனர்.


HoD / S&H


Principal
PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.



Department of Science and Humanities

ACADEMIC YEAR 2021 -2022(EVEN SEM)

18.05.2022

Circular

We are planned to organize **Mini Project Expo** for the first year students of our college on 23.05.22 (Monday). Interested students are asked to enroll their name to Dr.S.Udayakumar, AP-III/Department of Chemistry on or before 20.05.22.

Venue: Physics Lab

Theme: 1.Innovations in Science & Technology

GUIDELINES FOR PAPER PRESENTATION

- Project expo- Experiment demo only practical and clear Explanation Expected(with Chart)
- Team size : Four Students
- Duration : 1.30 to 3.30 PM
- Expert committee will inspect and award Marks
- Certificates will be issued to participants those who got first 2 places

1. 18/5/22
2. 18/5/22
Incharges

18/5/22
HoD/S & H

ECE
CSE 19/5/22
CIVIL 19/5/22
EEE 19/5/22
MECH 19/5/22



Department of Science and Humanities

Academic Year 2021-22/ Even Semester

23-05-2022

Mini Project Expo -Innovations in Science & Technology

Report

Venue : Physics Lab


Department of Chemistry, Kings College of Engineering organized a Mini Project Expo for first year B.E students on 23rd Monday 2022 in the area of "Innovations in Science and Technology". Dr. S. SivaKumar, Vice Principal, inaugurated the Mini Project Expo and delivered the importance of the Project Expo. About 10 Projects were displayed in this expo. Dr. S. SivaKumar, Vice Principal and Dr.V.Sureshkumar, HoD/ S&H were acted as juries, based on the score given by the juries the winners are short listed and given below.

Winners

S.No	Name of the student	Class	Title of the mini project	RANK
1	JANARTHANAN P	I CSE	Students data conversion in to QR Code	I
2	JAYA PRASAD P PUNNIYAMOORTHY C M	I ECE	Voice control Robot	II

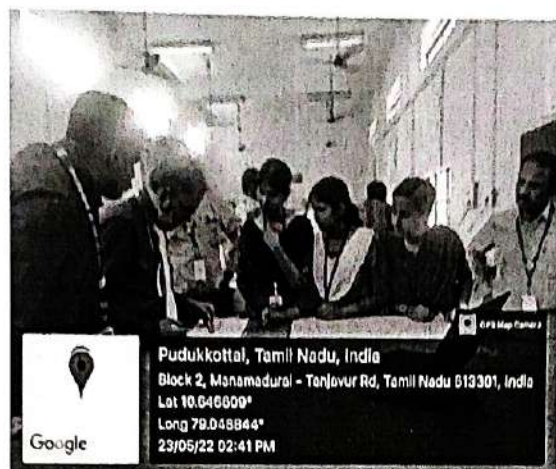
By this Mini Project Expo the students gained knowledge about innovations and advancements in science and technology. Finally the students expressed that, this type of Project expo was useful for improving their practical skills and also useful to do major project in next level.

The Mini Project Expo arrangement was made by the Convener Dr.S.Udayakumar, AP, Department of Chemistry.

 Convener 30/5/22

 30/5/22
HoD/S&H

 30/5/2022
PRINCIPAL



Students explain their projects to Dr.S.Sivakumar, Vice Principal



Students explain their projects to Dr.V.Sureshkumar, HoD S&H



Juries asking questions about the project



Students answering the questions raised by juries



Students explain their projects to convener Dr.S.Udayakumar AP/Chemistry



Department of Science and Humanities

Academic Year 2021-22/ Even Semester

23-05-2022

Mini Project Expo -Innovations in Science & Technology

Organized by Department of Chemistry

Participant List

Team No.	Name of the Students	Dept.	Signature
1	KRISHNAMOORTHY V PRITHISH M SAJEEVAN M	I ECE	V. Prithish M. Prithish S. Sajeevan
2	JAYA PRASAD P PUNNIAMOORTHY C M		For. Prithish Prithish
3	SWATHI V ENIYARASI P KAUSHIKA CHAND S		V. Swathi P. Eniyarasi S. Kaushika
4	THIRUNITHI K DHARSHINI K GOWSIKA M		K. Thirunithi K. Dharshini M. Gowrika
5	HARINILAKSHMI V SNEHARAJ RENUGA DEVI S, Nithish, Devik		V. Harinilakshmi S. Sneharaj S. Renugadevi
6	KUMARESAN K P MANOJ M MOHAMED ASICK A SUJITH V	I CSE	Kumaresan M. Manoj A. Mohamed Asick V. Sujith
7	JANARTHANAN P		P. Janarthanan
8	VIJAY S MOHAN S T. TAMILARASAN	I CIVIL	V. Vijay T. Mohan
9	RUTHRAN K VIJAY V SIVANANTHAM S ABIBHARATHI A	I EEE	K. Ruthran V. Vijay
10	GAYATHRI K C VAISHNAVI V		Gayathri K. C. Vaishnavi V

Coordinator 23/5/22

HoD S&H 23/5/22



Department of Science and Humanities

Academic Year 2021-22/ Even Semester

23-05-2022

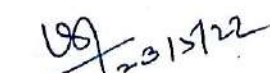
Mini Project Expo -Innovations in Science & Technology

Organized by Department of Chemistry

Score Sheet

Team No.	Name of the Students	Dept.	Theme(10)	Novelty(15)	Presentation(25)	Total(50)
1	KRISHNAMOORTHY V PRITHISH M SAJJEEDAN M	I ECE	8	12	20	40
2	JAYA PRASAD P PUNNIAMOORTHY C M		9	15	23	47 - II
3	SWATHI V ENIYARASI P KAUSHIKA CHAND S		7	11	20	38
4	THIRUNITHI K DHARSHINI K GOWSIKA M		8	12	22	42
5	HARINILAKSHMI V SNEHARAJ RENUGA DEVI S		8	12	21	41
6	KUMARESAN K P MANOJ M MOHAMED ASICK A SUJITH V	I CSE	8	13	23	44
7	JANARTHANAN P		10	14	24	48 - I
8	VIJAY S TAMILARASAN MOHAN S	I CIVIL	8	13	22	43
9	RUTHRAN K VIJAY V SIVANANTHAM S ABIBHARATHI A	I EEE	8	12	22	42
10	GAYATHRI K C VAISHNAVI V		8	13	23	44


Coordinator


HoD S&H


Vice Principal



ISTE STUDENTS CHAPTER (TN 217)

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

MINI PROJECT EXPO - REPORT

The ISTE Students Chapter (TN 217), Kings College of Engineering organized a **Mini Project Expo** on 03.06.22 between 11.10am - 12.30pm at Mechanical ICT class room (206) for the ISTE student members of Mechanical Department. Mr.S.Desikan, AP/MECH has delivered the welcome address. 21 students have actively participated in this competition. Dr. P.P.Shantharaman, Asso. Prof/MECH and Mr. R. Shankar AP/MECH had acted as juries for the event. Mr.S.Nelson Raja AP/MECH has delivered the vote of thanks.

LIST OF PROJECTS: The following projects were presented in the project Expo

Sl.No	Name of the students	Year	Project title
1.	R.Ramprasath A.Vivek	II-MECH(B)	Design and Fabrication of Bending Machine.
2.	S.Shanmugabharathi A.Saravanan	II-MECH(B)	Design and Fabrication of Solar Vehicle.
3.	S.Srikumar M.Pravin	II-MECH(B)	Design and Fabrication of Slider Crank Mechanism.
4.	A.Aathibubsh J.Akash	III-MECH	Design and Fabrication of Automatic Escalator.
5.	G.S.Sakthi Ganesh K.Ramprasad	II-MECH(A)	Design and Fabrication of 4-Wheel Drive Vehicle.
6.	K.R.Ashokkumar M.Veeraguru	III-MECH	Design and Fabrication of Automatic Water Sprayer.
7.	D.Hariharan R.Kishore	III-MECH	Design and Fabrication of Weight Lifting Machine.
8.	A.Barath Babu M.Hariharan	III-MECH	Design and Fabrication of Mini Lathe Machine.
9.	P.Subash Sulthan Abdul Kadhar	II-MECH(B)	Design and Fabrication of Quick Return Mechanism.
10.	R.Santhosh	II-MECH(A)	Design and Fabrication of Pressing Machine.
11.	B.Aravindan S.Praveenkumar	III-MECH	Design and Fabrication of Rack and Pinion Mechanism.

Prize winners

Sl.No	Name of the students	Year	Position
1.	A.Aathibubsh J.Akash	III-MECH	I
2.	G.S.Sakthi Ganesh K.Ramprasad	II-MECH(A)	II
3.	K.R.Ashokkumar M.Veeraguru	III-MECH	III

OUTCOMES:

- Understand, plan and execute a mini project with team.
- An ability to communicate effectively with a range of audiences.
- Students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology.
- Prepare a technical report based on the mini project.
- Deliver technical seminar based on the mini project work carried out.



Mr.S.Desikan AP/Mech delivering the welcome address



Dr.T.Pushparaj HOD/Mech enlightened the importance of project expo



Mr.S.Nelson Raja AP/Mech delivering the vote of thanks



Students actively explain their projects to the juries



Dr.T.Pushparaj HoD/Mech appreciated and distributed the cash award and certificates to winners



Sample Certificates

S.N. Raja
11/06/22

Mr. S.Nelson Raja
Dept. ISTE Co-ordinator

T. Gnanajeya
11/6/22

Mrs. T. Gnanajeya
ISTE Co-ordinator

J. Arputha Vijaya Selvi
14/6/2022

Dr. J. Arputha Vijaya Selvi
Principal



DEPARTMENT OF SCIENCE AND HUMANITIES
Academic Year 2021-22(Odd Semester)

07.11.2021

Sir C V Raman Memorial Science online Quiz

Department of Science and Humanities (Physics) has organized SIR C.V.RAMAN MEMORIAL SCIENCE ONLINE QUIZ for all first year students from 07-11-2021 to 09-11-2021. This quiz was very informative and knowledge enriching competition for the participants. The quiz was conducted for 100 marks and 72 participants attended. E-Certificates were issued to all participants.

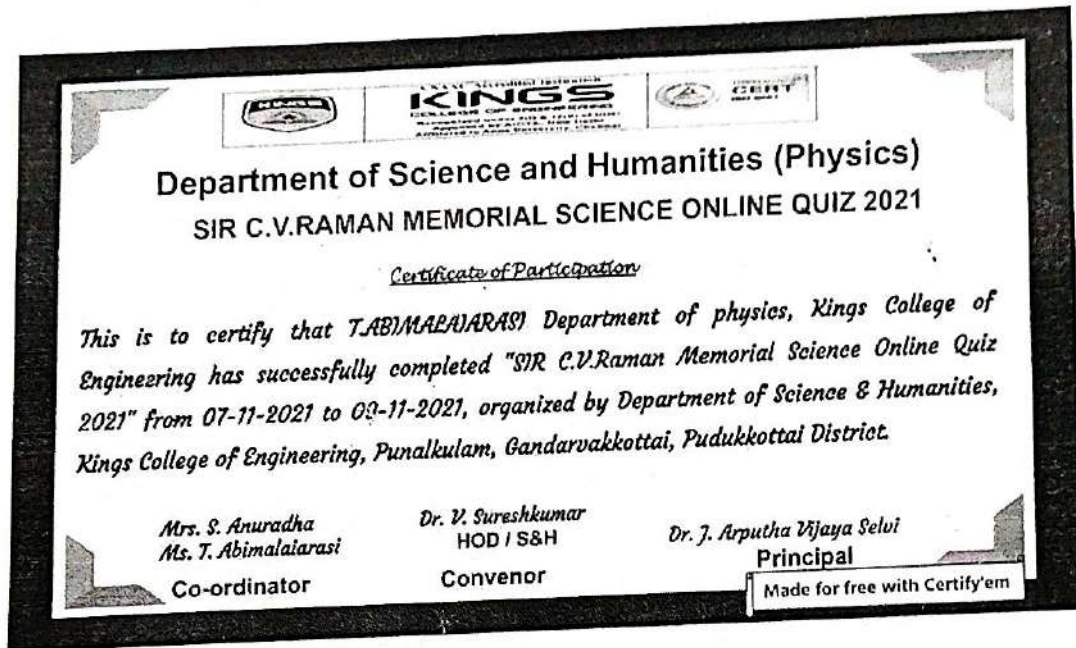
Details of the Participants

Name	Branch	Name of the College
Vishal.K	CSE	Kings
Kumaresan K P	CSE	King's College of engineering
Dharu	CSE	King's College of engineering.
D.Maheshwari	CSE	Kings college of engineering punalkulam
M.Sivadharani -Student	CSE	Kings College of engineering
V.Krishnamoorthy	ECE	Kings College Of Engineering
Joan	ECE	Kings College
Mr.D.Maheswaran	ECE	Kings College of Engineering
Jayaprasad P	ECE	Kings College of engeneering Punalkulam thanjavur
Mr. N.RAJA / ASSISTANT PROFESSOR	PHYSICS	Anjalai Ammal Mahalingam Engineering College
Mr. V Sanjay	ECE	Kings
S Arun	ECE	Kings Collage
Nivas	MECH	Kings
Assistant	CIVIL	Kings college of engineering
R.Aswinkumar	PHYSICS	Science
Ruthran	EEE	Kings College of engineering
Abibharathi	EEE	King's college
Mr. C Yogesh	EEE	King's College Of Engineering
Dr Revathi	EEE	King's College of engineering
Mr.Sivanesan	EEE	Kings College of engineering
Ms.Gayathri K C	EEE	Kings college of engineering

Mr.K Gokul	EEE	King's College of engineering
Mr.S Shanmugaeswaran	EEE	Kings
Ms. Meena	EEE	Kings college of engineering
Mr.S Karthikeyan	EEE	Kings College of engineering
Mr P.Milton Infant Rai Be(Eee)	EEE	Kings college of engineering
Mr.S Shanmugaeswaran	EEE	Kings College of engineering
Mr.V.Vijay	EEE	Kings College of Engineering
Mr. C Yogesh	EEE	Kings College of engineering
Mr. P. Akash	EEE	kings college of engineering
Mr Thavatheesh	EEE	Kings college of engineering
P.Dhinakaran	MECH	Kings
R.Elanthendral	MECH	Kings
Abibharathi	EEE	Kings College
Thavatheesh S	EEE	Kings College Of Engineering,Punalkulam
Mr.G Suriya	EEE	Kings College Of Engineering,Punalkulam
Mr.R.Jegadeesan Eee	EEE	Kings college of engineering
Baskar	CIVIL	Anna University
S. Gopinath	EEE	Kings College of engineering
Saravanan	MECH	Kings engineering colleges
J.Dhesingh	EEE	Kings engineering colleges
Mr.K Gokul	CIVIL	Kings engineering colleges
Mr.D Nirmal	MECH	Kings college of engineering
Jayaraman Arumugam	ECE	KINGS
Vasikaran.C	ECE	KINGS
Mrs.Anuradha	CSE	Kings
Ms.T.Nattar Selvi	CSE	Government Engineering College, Sengipatti
Ms.S.Priyadharshini Asst.professor	PHYSICS	Queens college of arts and science for women
B.M.Nithyashri	CSE	Kings college of engineering
Mrs. Anuratha	CSE	Kings
Ms:P.J.Sowmiya	CSE	Kings College Of Engineering
Mr yuvaraj	ECE	King colleges punnakulam
Mr Hari haran	ECE	Kings college punnakulam
Mr raj kumar.	ECE	Kings College punnakulam
Sneharaj	ECE	Kings College of engineering
P. Sudharsan	ECE	Kings College
Ms.V.HariniLakshmi	ECE	Kings College of engineering
ARIVAZHAGAN	B. E ECE	Kings College of engineering
Eniyarasi .p	ECE	Kings college of engineering
Mrs V.Harini	CSE	Kings college of engineering
S.Gayathiri student	CSE	Kings college of engineering
Ms. K. Pandi meena	ECE	Kings College Thanjavur
S. Aswin	ECE	Kings college of engineering
Mr. P Mosikkeeran	ECE	Kings College of Engineering, Pudukkottai

Yaseen	ECE	Kings College of engineering
Mukilvannan M	ECE	Kings College
Mrs.s.anuradha,Mrs.T.abimalaiarasi	ECE	Kings college of engineering,punalkulam.
Mr.P.Muruganantham	CSE	Kings college of Engineering
M.Indrani	CSE	Kings College of engineering
Manikandan.S	ECE	Kings Collage Punalkulam

Certificate - Sample copy:



S. Anuradha
T. Abimalaiarasi
CO-ORDINATORS
 Mrs.S.Anuradha
 Ms.T.Abimalaiarasi

V. Sureshkumar
CONVENOR
 Dr.V.Sureshkumar

J. Arputha Vijaya Selvi
PRINCIPAL
 Dr.J.Arputha Vijaya Selvi

20.12.2021

CIRCULAR

National Mathematics day will be celebrated for the 134th birthday of Srinivasa Ramanujan on 22.12.2021. Department of Mathematics of our college is going to organize a Quiz competition exclusively for the First year students on 22.12.2021. Interested students are informed to enroll their name to your corresponding class coordinator on or before 21.12.2021.

Topic: Aptitude, Reasoning, Matrices.

Date: 22.12.2021 Venue: Smart Classroom(I year) Time: 02.00pm – 03.00pm

Guidelines

- Team event
- 2 participants per team
- There are three rounds, like preliminary, first and second round.

Preliminary Round

1. Each team would be asked one question.
2. Time limit – 10 seconds.
3. If a team cannot answer the question, then the question would be forwarded to the next team.
4. Only 7 Teams would be selected for the first round.

First Round

1. Each team would be asked 1 question.
2. Time limit – 10 seconds.
3. If a team cannot answer the questions, then the question would be forwarded to the next team.
4. Only 5 Teams would be selected for second round.

Second Round

1. Each team would be asked 2 questions.
2. Time limit – 10 seconds.
3. In case of tie between 2 or more teams, further 1 question would be asked for final selection.
4. Only 3 Teams would be selected for prize.

1.Dr.G.SHANKARAKALIDOSS

2.Dr.G.JEYAKRISHNAN

EVENT COORDINATORS

COORDINATOR

PRINCIPAL

Circulated to:

- To be read in all first year classes.

**KINGS**KINGDOM OF KNOWLEDGE
KINGDOM OF SKILLS
KINGDOM OF INNOVATION**CERT**
1571 0901**DEPARTMENT OF MATHEMATICS****1 YEAR STUDENTS PARTICIPATING THE QUIZ COMPETITION ON 22.12.21**


S.NO.	STUDENTS NAME	BRANCH
1.	TAMILARASAN.V	CIVIL
2.	VENKAT.D	
3.	NAAVINIYAA.G.V	
4.	AGALYA.J	
5.	MOHAN.S	
6.	VIJAY.S	
7.	SIVADHARANI.M	CSE
8.	NITHASRI.B.M	
9.	NAVEEN.G	
10.	MURUGANANTHAM.P	
11.	SHALINI.K	
12.	ROCHISHIFA.M	
13.	HARIPRASATH.S	
14.	JEEVA.R	
15.	GOWRISHANGARI.SONMIA P.J	
16.	KEERTHANA.J	
17.	KUMARESAN.P	
18.	VISHAL.K	
19.	VENKATESH.B	
20.	MANIBHARATHI.V.S	
21.	KEERTHIKA.B	ECE
22.	YAMUNA.B	
23.	KRISHNAMOORTHY.V	
24.	SAJEEVAN.S	
25.	RANICHANDRA.V	
26.	SWATHI.V	
27.	THIRUNITHI.K	
28.	VADIVU.G	
29.	ASWIN.S	
30.	VASIKARAN.C	
31.	GOWSIKA.N	
32.	MADHUMITHA.S	EEE
33.	HARISHMA.R	
34.	SUJITHA.S	
35.	VIJAY.V	
36.	RUTHRAN.K	
37.	VIDHYA.M	
38.	THUSARI.S	

39.	VEERAKUMAR.R	MECH
40.	MANIKANDAN.R	
41.	MUGESHKUMAR.R	
42.	MADHAN.R	
43.	PONNARASAN.S	
44.	MANIRAJ.D	
45.	PERARIVALAN.R	
46.	NIRMAL.D	
47.	SANTHOSH.R	
48.	ELANTHENDRAL.R	
49.	SASIKUMAR.A	
50.	DINESH.B	

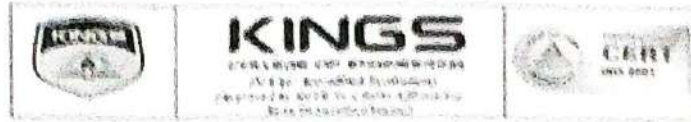
Note: kindly permit the above students to participate the quiz competition on 22.12.21
at Smart class room.

Time: 02.00 pm – 3.00pm


22/12/21
EVENT CO ORDINATOR


22/12/21
CO ORDINATOR/ MATHEMATICS


22/12/21
HOD/S&H



DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
ATTENDANCE SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	SIGNATURE
1	D. Venkatesh Babu T. Jeyarajaseelan	Civil	T. Jeyarajaseelan
2	G.V. Naavinigaa J. AKALYA	Civil	G.V. Naavinigaa J. Akalya
3	S. Vijay S. MOHAN	Civil	S. Vijay S. Mohan
4	M. Sivadharani B.M. Nithyashree	CSE CSE	M. Sivadharani B.M. Nithyashree
5	G. Naveen P. Muruganantham	CSE CSE	G. Naveen P. Muruganantham
6	M. Roohi Shifa K. Shalini	CSE	M. Roohi Shifa K. Shalini
7	S. Hariprasath Jeeva.R.	CSE	S. Hariprasath Jeeva.R.
8	J. Keerthana P.J. Sowmiya	CSE	J. Keerthana P.J. Sowmiya
9	Kumaresan K.P Vishal.K	CSE	Kumaresan Vishal.K
10	Venkatesh.B Manibharathi.V.S	CSE	V.B. V.S. Manibharathi

(35) II

(33) I



DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
ATTENDANCE SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	SIGNATURE
11	D. Yamuna P. Keedhika	ECE	D. Yamuna P. Keedhika
12	V. Krishnamoorthy M. Sajjivan	ECE	V. Krishnamoorthy M. Sajjivan
13	V. Sreethi V. Rani Chandola	ECE	V. Sreethi V. Rani Chandola
14	M. G. Vadivu K. Thirunithi	ECE	M. G. Vadivu K. Thirunithi
15	VASIKARAN.C GURIYA PRAKASH.M	ECE	V. Vasikaran G. Guruya
16	M. Grewsika S. Madhumitha	ECE	M. Grewsika S. Madhumitha
17	S. Sujitha R. Houshma	EEE	S. Sujitha R. Houshma
18	K. Ruttiran V. Vijay	EEE	K. Ruttiran V. Vijay
19	S. THUSARI M. VIDHYA	EEE	S. Thussari M. Vidhya
20	R. VEERA KUMAR R. MANIKANDAN	MECH	R. Veerakumar R. Manikandan

(20) III

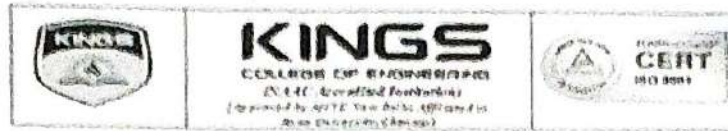


DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
ATTENDANCE SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	SIGNATURE
21	R. MUKESH KUMAR R. MADHAN	MECH MECH	R. Mukesh R. Madhan
22	S. PONNARASAN D. MANIRAJ	MECH	S. Ponnarasan D. Maniraj
23	D. NIRMAL R. PERARIVALAN	MECH	D. Nirmal R. Perarivalan
24	A. SASIKUMAR B. DINESH	MECH	A. Sasikumar B. Dinesh
25	R. SANTHOSH R. ELANTHENDRAL	MECH	R. Santhosh R. Elanthendral



DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
SCORING SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	MARKS			POSITION
			ROUND 1	ROUND 2	ROUND 3	
1	D. VENKATACHALAM	CIVIL	0			
	T. TAMILARASAN					
2	G. V. NAVINIYAA	CIVIL	0			
	J. AKALYA					
3	S. VIJAY	CIVIL	0			
	S. MOHAN					
4	M. SIVADHARANI	CSE	0			
	B. M. NITHYASHRI					
5	G. NAVEEN	CSE	0			
	P. MURUGANANTHAM					
6	M. ROOHISHIFA	CSE	0 (10)	10+5	0	(25) II
	K. SHALINI					
7	S. HARI PRASATH	CSE	0			
	R. JEEVA					
8	J. KEERTHANA	CSE	0			
	P. J. SOWMIYA					
9	K. P. KUMARASAN	CSE	10	10	10 +3	(33) I
	K. VISHAL					

Adnan G.P.

EVENT COORDINATORS



DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
SCORING SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	MARKS			POSITION
			ROUND 1	ROUND 2	ROUND 3	
10	B. VENKATESH	CSE	0			
	V.S. MANIBHARATHI					
11	D. VANUNA	ECE	0			
	P. KEERTHIKA					
12	V. KRISHNAMOORTHY	ECE	10	0	0	10
	M. SAJJEEVAN					
13	V. SWATHI	ECE	0			
	V. RANI CHANDRA					
14	M.G. VADIVU	ECE	0			
	K. THIRUNITHI					
15	C. VASIKARAN	ECE	0			
	M. SURIYA PRAKASH					
16	M. GOWSIKA	ECE	10	0 (3)	0	(13)
	S. NADHUMITHA					
17	S. SUJITHA	EEE	0			
	R. HARISHMA					
18	K. RUTHRAN	EEE	10	10	0	(20)
	V. VIJAY					

III

GPR
GPR

EVENT COORDINATORS



DEPARTMENT OF MATHEMATICS
QUIZ COMPETITION
SCORING SHEET

DATE : 22.12.21

VENUE : SMART CLASS ROOM

TEAM NO.	STUDENT NAME	CLASS	MARKS			POSITION
			ROUND 1	ROUND 2	ROUND 3	
19	S. THUSARI	EEE	0			
	M. VIDHYA					
20	R. VEERA KUMAR	MECH	10	0	—	10
	R. MANIKANDAN					
21	R. MURESH KUMAR	MECH	0			
	R. MADHAN					
22	S. PONNARASAN	MECH	0			
	D. MANIRAJ					
23	D. NIRMAL	MECH	0			
	R. PERARIVARAN					
24	A. SASIKUNAN	MECH	10	(3) 0	0	13
	B. DINESH					
25	R. SANTHOSH	MECH	0			
	R. ELANTHENDRAL					

[Signature]
EVENT COORDINATORS



DEPARTMENT OF MATHEMATICS
ACADEMIC YEAR 2021-2022 (ODD SEMESTER)

Quiz Competition Report

24.12.2021

In view of 134th Birthday of Srinivasa Ramanujan, National Mathematics Day was celebrated by Department of Mathematics on 22.12.2021. Marking this occasion, a Quiz competition was organized at Smart Classroom between 02.00pm. and 03.00pm. A total number of 25 teams, paired in two, enthusiastically participated in the competition held in three rounds that were sequentially hosted by Dr.G.Shankarakalidoss, AP/Mathematics. Earlier, the event, presided by Dr.V.Sureshkumar, HEAD, S&H, was welcomed by Mrs.T.Gnanajeya, Coordinator/Mathematics, and effusively thanked by Dr.G.Jeyakrishnan, AP/Mathematics.

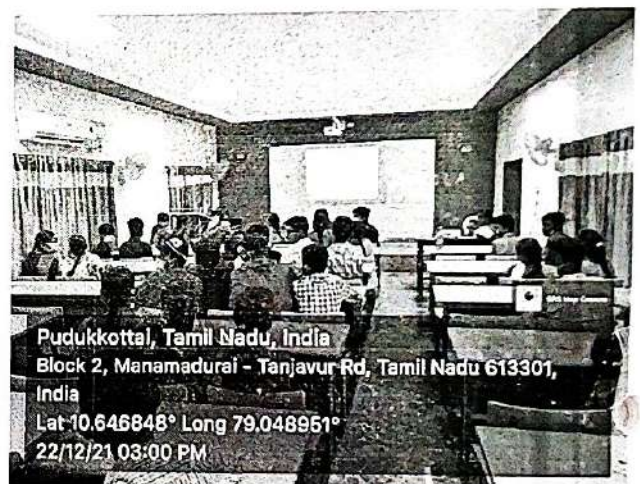
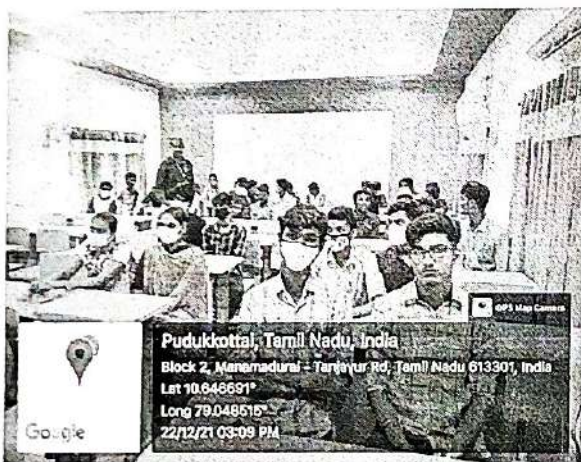
The winners of the Quiz are:

POSITION	CLASS	NAME OF THE STUDENT
FIRST	ICSE	Kumaresan. K.P Vishal.K
SECOND	I CSE	Roohishifa.M Shalini.K
THIRD	I EEE	Ruthran.K Vijay.V

The main objective of the programe is to educate the students on Aptitude and Reasoning ability that are essentially conducive for facing interviews successfully.



Quiz competition inaugurated for I year Students on Aptitude, Reasoning, Basic Mathematics



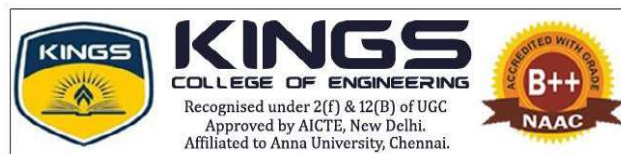
Students are enthusiastically participated in the Quiz Team members are seriously discussing the answers

1. Dr. G. SHANKARAKALIDOS
2. Dr. G. JEYAKRISHNAN
EVENT COORDINATORS

P. L. [Signature]
COORDINATOR 24/12/21

[Signature] 24/12/21
HoD / S&H

J. [Signature]
24/12/2021
PRINCIPAL



3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

Sl. No.	Date	Details	Beneficiaries	Page No.
R & D Section				
1	15.09.21	National Level Webinar on "Advanced Materials for Engineers"	183	2
2	28.02.22	Sir C.V.Raman's Science Expo	50	8
3	26.04.22	Seminar on "World Intellectual Property Day"	220	11
4	15.06.22	Kings Project Expo-2022	250	15



RESEARCH AND DEVELOPMENT SECTION

ACADEMIC YEAR 2021-22 / ODD SEMESTER

WEBINAR REPORT


The Research and Development section had organized a National level webinar through online mode on “**Advanced Materials for Engineers**” on **15.09.2021** at **10.30 a.m. to 11.30 a.m.** Welcome address was given by **Dr. R. Suresh**, Assistant Professor / Mathematics, Kings College of Engineering.

Resource person **Dr. M. Ravichandran**, Professor, Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, Samayapuram, was introduced by **Mr. S. Sabanayagam**, Assistant Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on “**Advanced Materials for Engineers**”. In his lecture, he explained about the various concepts of recent Engineering Materials and Evolution of Engineering Materials and its application on various areas such as Manufacturing, Powder Metallurgy and Composites which has wide area of applications.

In this webinar, **183** participants from **17** colleges have registered from various institutions. Among these, **114** participants from various Engineering College, polytechnic college and Arts College have attended the webinar. Vote of thanks was given by **Mr. S. Sabanayagam**, AP/Mechanical. Kings College of Engineering.

All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

Webinar Brochure




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KINGS


COLLEGE OF ENGINEERING

Recognized under 2013-1203 of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



A National Level Webinar on
Advanced Materials
for Engineers

Organized by
Research & Development Section



Dr. M. Ravichandran, M. Tech, PhD
 Professor
 Mechanical Engineering
 K. Ramakrishnan College of Engineering
 Samayapuram, Trichy

On Engineer's Day @ 10:30 am
15/09/2021

Registration Link: <https://forms.gle/TJqmrK17299Mp24y8>

Co-ordinators


Mr. S. Sabanayagam
 AP/Mechanical
Dr. R. Suresh
 AP/Mathematics


Convener


Dr. P. P. Shanatharaman
 Asso. Prof/Mechanical

Principal

Dr. J. Arputha Vijaya Selvi
 Principal


<https://www.facebook.com/KingsCollegeofEngineering/>


https://www.youtube.com/channel/UCQv_w8H7yF1-NegzArbX00csw



Participation Certificate – Sample Copy



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Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



CERTIFICATE OF PARTICIPATION

This is to Certify that

has participated in the webinar on “*Advanced Materials for Engineers*”,
 organized by Research & Development Section,
 Kings College of Engineering, Punalikulam, on 15-09-2021.

Mr. S. Sabanayagam
 AP/Mechanical
Dr. R. Suresh
 AP/Mathematics

Co-ordinators

Dr. P. P. Shanatharaman
 Asso. Prof/Mechanical

Convener

Dr. Arputha Vijaya Selvi

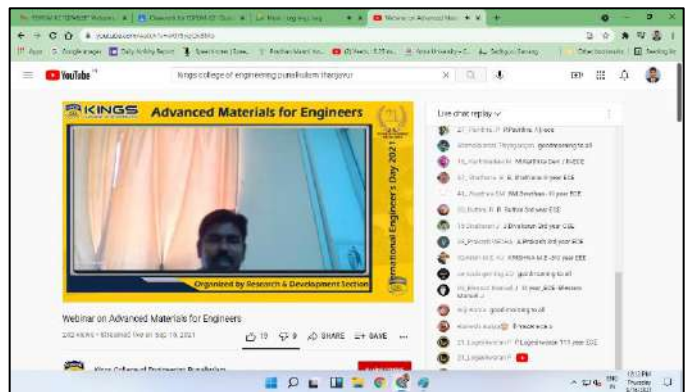
Principal

List of Attended Participants

S.No	Name of Institute/Organization	Number of participants
1	AAA College of Engineering and Technology	2
2	AAMEC, KOVILVENNI-614403	4
3	Annamalai University	1
4	Arasu Engineering College	6
5	Chendhuran College of Engineering and Technology	1
6	Chennai Institute of Technology, Kundrathur	2
7	Department of Education, Gujarat University	1
8	HDR LAW GROUP OF INDIA	1
9	K. RAMAKRISHNAN COLLEGE OF ENGINEERING (Anna University)	1
10	Kings College of Engineering	64
11	Mahath Amma Institute of Engineering and Technology	1
12	MIET ENGINEERING COLLEGE	1
13	SAL COLLEGE OF ENGINEERING	9
14	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	2
15	SRM Institute of Science and Technology - Kattankulathur, Tamilnadu - 603203	2
16	St. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY	3
17	Thamirabharani Engineering College	1
Total		114

Good

Screenshots



Feedback questions and responses

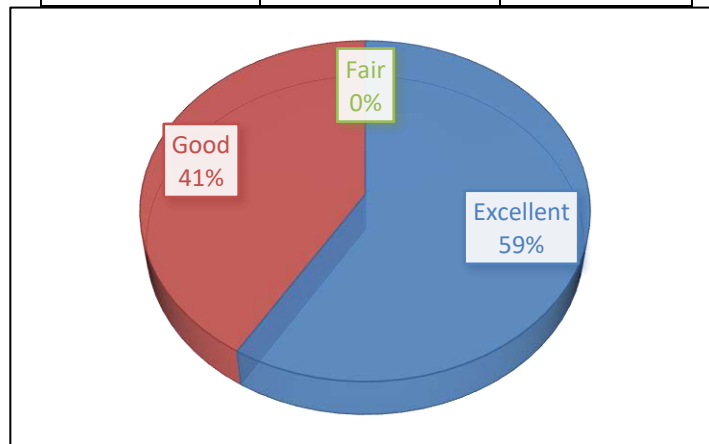
1. Content of the Program?

Excellent	Good	Fair
79	35	0



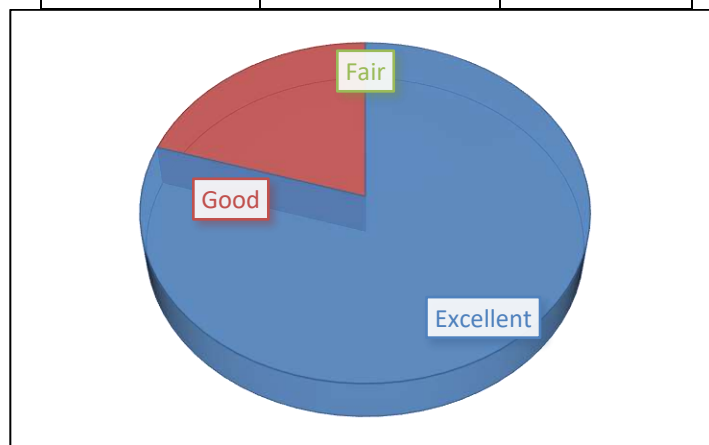
2. Quality of Audio/Video Streaming?

Excellent	Good	Fair
67	47	0



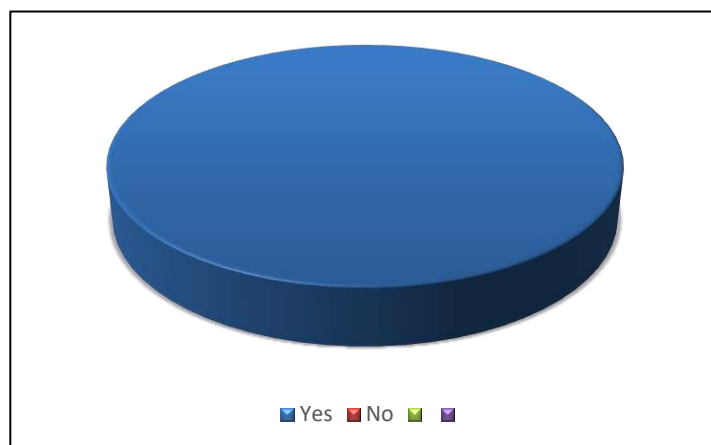
3. Way of Presentation?

Excellent	Good	Fair
91	23	0



4. Are you interested in future webinars in Kings?

Yes	No
114	0



S. S. Sabanayagam
16/9/21

Staff in-charge
(Mr.S.Sabanayagam)

P. P. Shantharaman
16/9/21

R&D Convener
(Dr.P.P.Shantharaman)

J. Arputha Vijaya Selvi
16/9/2021

Principal
(Dr.J.Arputha Vijaya Selvi)



NATIONAL SCIENCE DAY 2021

NATIONAL SCIENCE DAY CONTEST REPORT

R&D Section, Department of Science and Humanities and IEEE section of our college jointly organize contest for National Science Day on 28.02.2021 from 10.00a.m to 11.00a.m. This contest consists of 20 questions (100 Marks). Certificate issued to the students who have secured minimum of 50% . Nearly 150 students participated in this contest. Out of 150 students, 106 students received E-Certificates for secured the mark 50% or more. Students are very much interested to answer the science related questions and puzzles. They also asked to conduct these kinds of Quiz-contest in future. Top 2 students were honored by our Principal.

National Science Day Contest - Highlights

1. Top 2 Students details

STUDENT NAME	YEAR	BRANCH	MARK	POSITION
M.KARTHIKA	I	CSE	100 / 100	FIRST
E.SNEHA	I	CSE	100 / 100	SECOND

2. Students participation (Department wise)

BRANCH	PARTICIPATION COUNT
CIVIL	7
CSE	49
ECE	25
EEE	21
MECH	47
PG-VLSI	1
TOTAL	150

KINGS R&D

KINGS
COLLEGE OF ENGINEERING

NAAC Accredited & ISO Certified Institution
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalkulam, Gandarvakottai Taluk, Pudukkottai Dist. - 613 303.

IEEE
MADRAS SECTION
STB16621

NATIONAL SCIENCE DAY
ONLINE CONTEST
28TH FEBRUARY, 2021,
10:00 A.M. TO 11:00 A.M.

Scan here to join the Contest

Jointly organized by
R&D Section and Department of Science & Humanities

Coordinators
Dr. R. Suresh, AP/Maths
Mr. J. Niranjan Samuel, JRF/R&D

Convener
Dr. P. P. Shantharaman
Assoc. Prof/Mech

Dr. J. Arputha Vijaya Selvi
Principal

BROCHURE – NATIONAL SCIENCE DAY 2021



Certificate – Sample copy

Dr. R. Suresh
Mr. J. Niranjana Samuel
Coordinators

Dr. P. P. Shantharaman
Convener

PRINCIPAL



RESEARCH AND DEVELOPMENT SECTION AND INSTITUTION'S INNOVATION CELL

WEBINAR REPORT

Research and Development section in association with IEEE STB 16621 and Institution's Innovation Council has organized a seminar on **"World Intellectual Property Day"** on 26th April, 2022.


Beneficiaries : Students, Research scholars and Faculty
Session : 11.00 A.M to 12.30.P.M
Venue : Online (Google meet)
Resource Person : Dr. R.Valli
Head (R&D)
Manakula Vinayagar Institute of Technology, Pondicherry.

The objective of this webinar is to impart in depth knowledge on Patents, trademarks and copyrights. Mrs.D.R.Saranya, Assistant Professor/ Department of CSE, Kings College of Engineering welcomed the participants and Ms.K.Elakkiya, Assistant Professor/ Department of Civil Engineering, Kings College of Engineering introduced the resource person. The resource person had given the lecture on Intellectual Property Rights. Vote of thanks was given by Mr.R.Sundaramoorthy, IIC Vice President, Assistant Professor/ Department of EEE, Kings College of Engineering.

In this lecture, he clearly explained about patent, copyright, geographical indication, trade Mark, invention and innovation. Her lecture clearly depicted how to patenting our invention. She also explained some problem statement.

In this webinar, 220 participants registered from various institutions participated. Participants queries were addressed by the resource person at the end of the session. Feedback was collected from all the participants through Google forms and E-certificate were provided to all the participants through email.



WEBINAR BROCHURE



KINGS
COLLEGE OF ENGINEERING


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Punakkulam, Gandarvakkottai Taluk, Near Thanjavur,
Pudukkottai Dt. - 613303 www.kingsengg.edu.in

21 Years of Academic Excellence
21 YEARS OF ACADEMIC EXCELLENCE
BETTER STUDY, BETTER SUCCESS


Seminar on
“World Intellectual Property Day”
 Organized by R&D Section
 (Hybrid Mode)

|| Date: 26th April, 2022 || Day: Tuesday ||
 Time: 11.00 a.m(IST)




Dr.R.Valli,
 Head (R&D),
 Manakula Vinayagar Institute of Technology,
 Pondicherry.


Registration Link: <https://tinyurl.com/WIP-2022>




Mrs.D.R.Saranya, AP/CSE
Ms.K.Elakkiya, AP/CIVIL
 Coordinators



Dr.P.P.Shantharaman
 Convener

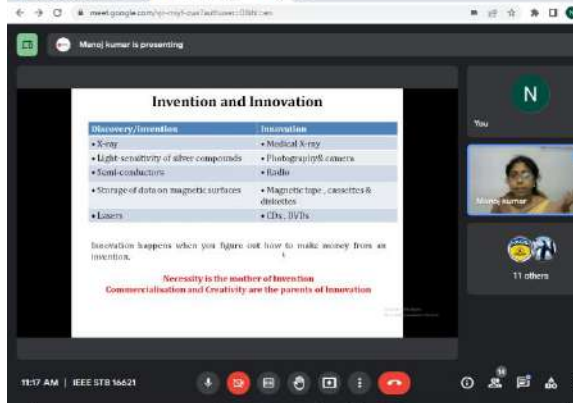


Mr.R.Sundramoorthy
 IIC Vice President



Dr.J.Arputha Vijaya Selvi,
 IIC President / Principal

SCREENSHOT / SMART CLASSROOM - GEOTAG PHOTOGRAPH



Discovery/Invention	Innovation
• X-ray	• Medical X-ray
• Light sensitivity of silver compounds	• Photography camera
• Semi-conductors	• Radio
• Storage of data on magnetic surfaces	• Magnetic tape, cassettes & diskettes
• Lasers	• CDs, DVDs

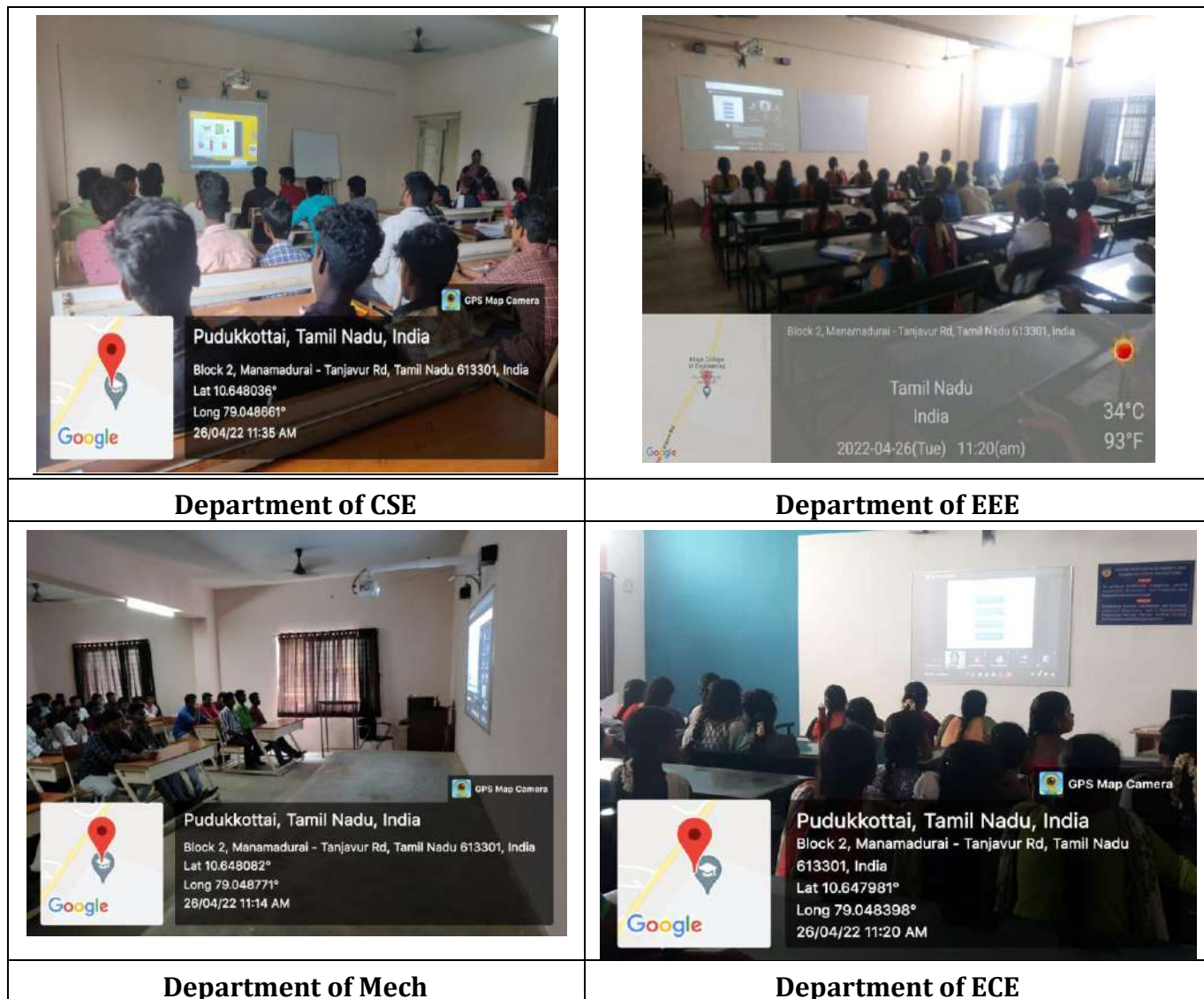
Innovation happens when you figure out how to make money from an invention.

Necessity is the mother of Invention
 Commercialisation and Creativity are the parents of Innovation

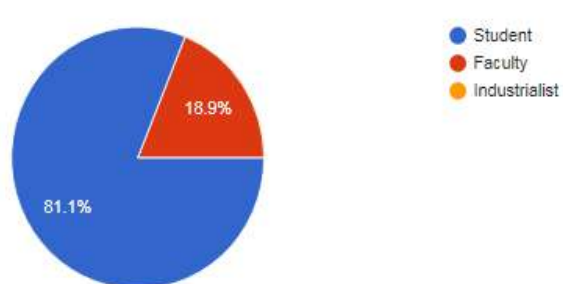
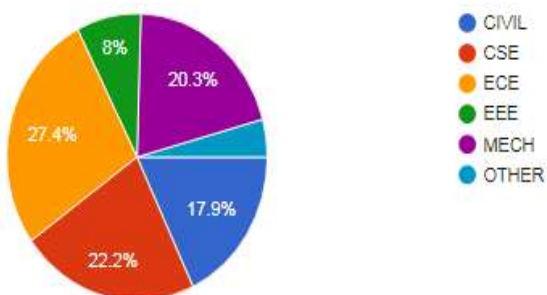
Snapshot of Presentation



Department of Civil

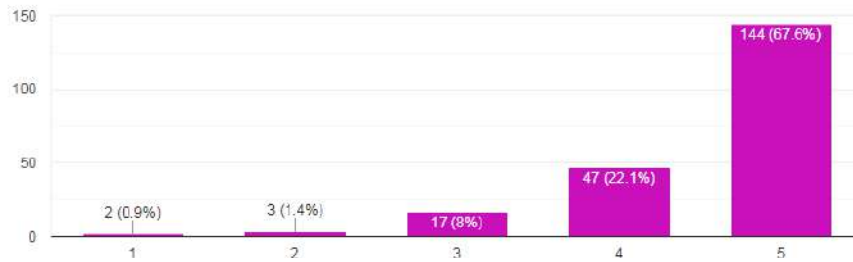


DETAILS OF PARTICIPANTS



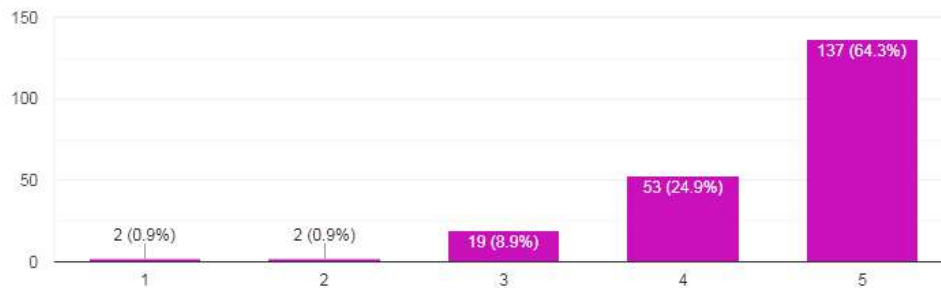
How satisfied were you with the webinar?

213 responses



How satisfied were you with the session content?

213 responses



SAMPLE CERTIFICATE



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Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalkulam, Gandarvakottai (tk), Near Thanjavur, Pudukkottai - 613303



CERTIFICATE

of participation

This is to certify that Mr. /Ms. S. R. KARTHIKEYAN

of EEE attended the Seminar on World Intellectual Property Day 2022

organized by R&D Section, Kings College of Engineering, Pudukkottai on

26.04.2022.

Ms. K. Elakkiya
Mrs. D.R. Saranya
Coordinators

Dr. P P Shantharaman
DRC Convenor

Dr. J. Arputha Vijaya Selvi
Principal

K. Elakkiya
6/5/22
Coordinator

Mrs.D.R.Saranya
Ms.K.Elakkiya

P.P. Shantharaman
6/5/22
Convenor

Dr.P.P.Shantharaman

J. Arputha Vijaya Selvi
10/5/2022
Principal

Dr.J.Arputha Vijaya Selvi



KINGS Project Expo' 22

organized by

R&D Section

in association with

IEEE Student Branch 16621

&

Institution's Innovation Council

Kings College of Engineering

on

15.06.2022

KINGS PROJECT EXPO' 22

Research and Development Section, Kings College of Engineering in association with IEEE STB organized Kings Project Expo'22 on 15th June, 2022. **Dr.P P. Shantharaman**, ASP/MECH and DRC Convener delivered welcome address. **Mr. S. Sabanayagam**, AP/MECH introduced the resource person.



Dr. P.P. Shantharaman, ASP/MECH delivering welcome address



Mr. S. Sabanayagam, AP/MECH introduced the resource person



Lighting of the ceremonial lamp by the dignitaries and participants



Dr. J. Arputha Vijaya Selvi, Principal delivered presidential address. In her presidential, she emphasized that final year project is the best guide to your career path and helps in landing on the dream jobs as because of this the curriculum itself has given more weightage for the project work. The skills learnt during four years of core engineering is applied to develop a real-life product. Since the real-life products needs ideas, brainstorming, optimization and execution. **Dr. S. Sivakumar**, Vice Principal offered felicitation.



Dr. J. Arputha Vijaya Selvi, Principal delivering presidential address



Dr. D. Kumar, Professor, PMIST, Thanjavur delivering keynote address

Dr. D. Kumar, Professor, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur delivered keynote address and inaugurated the expo. Dr. D. Kumar and Dr. R. Rajendran, Secretary, Kings College of Engineering visited the venue where projects were showcased. A total of 57 projects were showcased and reviewed by a panel of juries on various criteria.



Projects displayed at the Project Expo'22

Best project from each stream were shortlisted and awarded with cash prize and certificates.

Dept.	Name of the Participant	Title of the Project
Civil	Dulasiram S Sriram M C Abinaya N Maharish H	Creating Model and Explained Features of Burj Al-Arab, Dubai, UAE

CSE	Sindhu R Abinaya N Priyadharshini M	Multilevel Password Authentication Using Bio-Metric Verification For Smart ATM
ECE	Shobiga P Priyadharshini S Vinotha M Aparnaa S	Automatic Insulin Injector For Diabetic Patients
EEE	Mohamed Halith S Jayaprakash R Jagadeshwaran S Raguraman R	Wireless charging for Electric Vehicles
MECH	Vengatesh R Abinash B Jayaraj B Vigneshwaran K	Solar Power Industrial Trolley



Mr. T. Pasupathi, AP/ECE summarizing the expo



Dr. J. Arputha Vijaya Selvi delivering special address



Distribution of Certificates



Organizing Team

All the arrangements were made by Research and Development Section of the institute.



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IEEE
MADRAS SECTION
STB16621

KINGS PROJECT EXPO'22

Organized by
Research & Development Section
15.06.2022

Call for
Projects

CIVIL

Fibre Reinforced Concrete
Load Deformation Behaviour
Flood Forecasting
GIS & Remote sensing
Ozonation for Colour Removal
Riverbank Filtration
Earthquake Geotechnical Engineering
Ground Improvement
Safety & Accidental analysis
Intelligent transport systems

CSE/IT

Natural Computation
Computational Game theory
Continuous & Realtime Computation
Distributed Algorithms
Design & Analysis of Algorithms
Inspiration of Biological Computing
Nature Inspired Computing
Model theory for Computation
Information & Common, Complexity
Graph Algorithms

ECE

Modeling & Simulation
Antennas & Microwave Engineering
ASICs/SOC/NOC
Biomedical Engineering
Embedded System & VLSI Design
Image/Signal Processing
MEMS & Piezo system Integration
Optimization Techniques
Terrestrial & Space Optical Networks
Wireless/FSO

EEE

Renewable Energy – Green Energy
Biomedical Instrumentation
Power Electronics
Modern Power Systems
Smart Grids
VLSI in Power Electronic Systems
Embedded Systems
Electrical Machines and Drives
Control System & Instrumentation
Internet of Things

MECH

Renewable Energy Technology
Production & Energy Management
Robotics & Industrial Automation
CAD/CAM
Materials
Manufacturing
Safety Engineering
Nano composites & Characterization
Design & Analysis
MEMS

Registration Link: <https://forms.gle/N654a5op5GrMojfQ7>

Or
Scan QR



Important Dates

Submission of Abstract : 10.06.2022

Acceptance Notification : 13.06.2022

Last Date for Early Registration : 14.06.2022

DRC Members:

Ms. K. Elakkiya - 6388745484

Ms. D. R. Saranya - 9600997555

Mr. T. Pasupathi - 9894104645

Dr. P. Narasimman - 9894479763

Mr. S. Sabanayagam - 9448228702

Dr. R. Suresh - 9942258585

Student Members:

Mr. M. Aravindh - 9789364974

Mr. B. Gunaseelan - 9791722966

Ms. A. Serika - 7824968714

Mr. A. Akesh Sathya - 9150506473

Mr. J. Vigneshwaran - 9003727576

Website: <http://kingseng.edu.in/> YouTube: https://www.youtube.com/channel/UCy_wHZYT-Nxx4rbXBiciaw

Facebook: <https://www.facebook.com/kingsCollegeofEngineering/>

Dr. R. Rajendran
Secretary

Dr. J. Arputha Vijaya Selvi
Principal

Dr. S. Sivakumar
Vice-Principal

Dr. P. P. Shantharaman
DRC Convenor

Mr. S. Sabanayagam, AP/MECH
Mr. J. Niranjan Samuel, JRF R&D
Coordinators

Event Poster



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IEEE
MADRAS SECTION



ISTE



INSTITUTION'S
INNOVATION
COUNCIL
(Affiliated to Anna University)

KINGS PROJECT EXPO'22

15.06.2022 | WEDNESDAY | 10:00 A.M.

Organised by
Research and Development Section

Chief Guest



Dr. D. Kumar
Professor/ECE
Periyar Maniammai Institute of Science & Technology
Vallam, Thanjavur

All are Invited

Mr. S. Sabanayagam, AP/MECH
Mr. J. Niranjan Samuel, JRF/R&D

Dr. P. P. Shantharaman
DRC Convenor

Dr. J. Arputha Vijaya Selvi
Principal

Expo Invitation

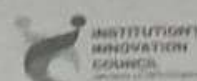
INSTITUTIONS INNOVATION COUNCIL (IIC)

ACADEMIC YEAR 2021-2022

S.No	Date	Details	No.of. Beneficiaries
1.	12.10.21	Webinar on Future of Innovation in India	222
2.	12.10.21	Webinar on Intellectual Property Rights	222
3.	25.10.21	Impact of Entrepreneur in Higher Education Institution	202
4.	25.10.21	Webinar on Start up to IPR	202
5.	2.12.2021	My Story-Motivational session by successful Innovators	72
6.	6.12.2021	Session on Problem Solving and Ideation Workshop	97
7.	5.2.2022	Workshop on Entrepreneurship skill, Attitude and Behavior development.	175
8.	5.2.2022	Expert talk on "Process of Innovation, development Technology ReadinessLevel (TRL) commercialization of lab technologies& tech transfer	175
9.	26.2.2022	Workshop on Design Thinking, Critical thinking and Innovation Design.	175
10.	21.3.2022	Smart India Internal Hackathon-2022	78
11.	13.5.2022	Webinar on "Introduction about IPCS, Awareness on Digital Marketing and Benefits	52
12.	17.6.2022	Session on "How to plan for Start-up and legal & Ethical Steps"	65
13.	25.6.2022	Workshop on Prototype/Process Design and Development - Prototyping	52



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



ACADEMIC YEAR 2021-22(ODD SEMESTER)

MoE'S Sponsored Impact Lecture series-I

On

"FUTURE OF INNOVATION IN INDIA AND INTELLECTUAL PROPERTY RIGHTS (IPR)"

12.10.2021

IIC ID:IC201810951

REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized Impact lecture series-I webinar on "Future of Innovation in India and Intellectual Property Rights" sponsored by MoE's Innovation cell on 12.10.2021.

Objective:

The main objective of this webinar series:

- To provide ideas of future innovation in various fields and Patent Rights.
- It provides a platform for the teaching faculties and students to upgrade and know about the Innovation and skills.
- In addition, this programme will help to improve the student's ability in carrying out how to build Product through simple innovation and convert to Patent rights to bring up professional discussions.

Speaker details:

Session 1: Session on "Future of Innovation in India" by
Mr.K.Amirtha Ganesh, Director, Armada Industrial Automation, Thanjavur

Session 2: Session on "Intellectual Property Rights" by
Dr.Y.Thiagarajan
Associate Professor &HOD/EEE
Chirst College of Engineering and Technology,
Puducherry

President:

Dr.J.Arputha vijaya selvi, Principal, KCE

Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Convener

Mr.R.Balakrishnan, Assistant Professor / ECE

Session 2: Session on "Intellectual Property Rights "by

Dr.Y.Thiagarajan

Associate Professor &HOD/EEE

Chirst College of Engineering and Technology,
Puducherry

The session was started by 2.30 p.m through Google Meet and YouTube platform. Introduction about the resource person was delivered by G.Latchayasri, IV/ECE, IIC Student Member. Initailly, resource person thanked Management, Principal, IIC Coordinators and student members. In the initial part of his lecture, he has started general Introduction about Intellectual Property Rights (IPR) such as necessity of Property Rights, Progress of nation towards Innovations, Patent, and Produce and prosper. He mentioned about increasing role, world Economy (The Paradigm shift) and Importance of science & technology. He has shared knowledge about the Eco system and various terminologies used in the IPR such as Intellect (Power of mind), Property (generally refers to something that can be traded) Intellect Property (refers to the ideas and creation of the mind having commercial values) and Intellect Property Rights (refers to legal rights associated with Intellectual Property).He has clearly explained the benefits of IPR such as lucrative, key business asset, Incentives for the creator and Economic growth. He mentioned the methodologies of patent rights which means through contribution, hardwork, and creation. All these three things if implemented in a systematic way would fetch patent from Government of India. Then he talked about different examples of IPR.

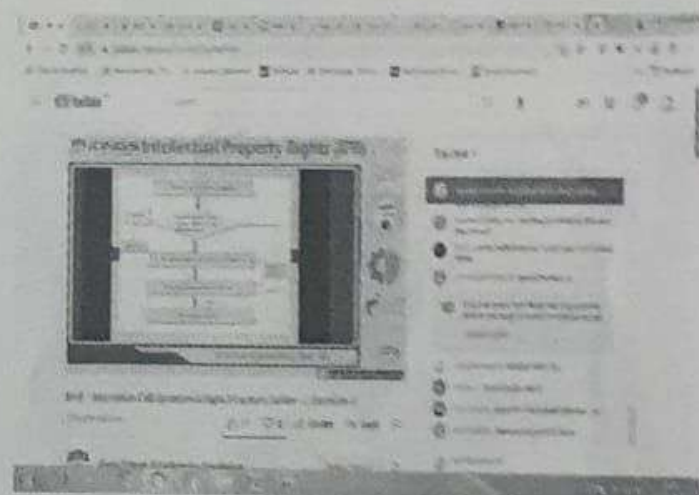
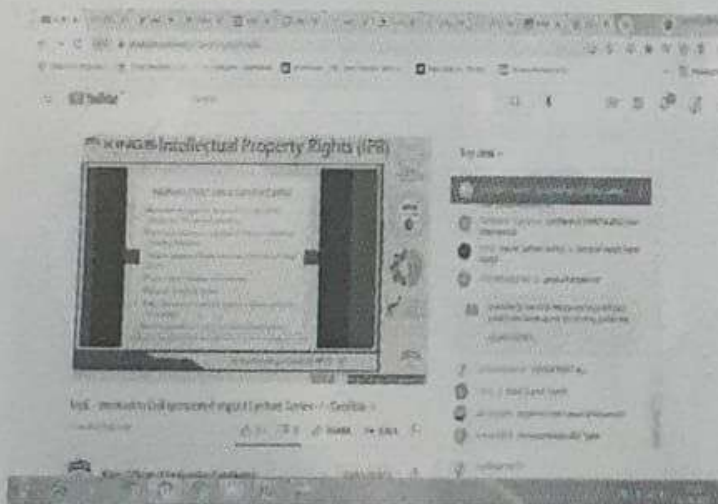
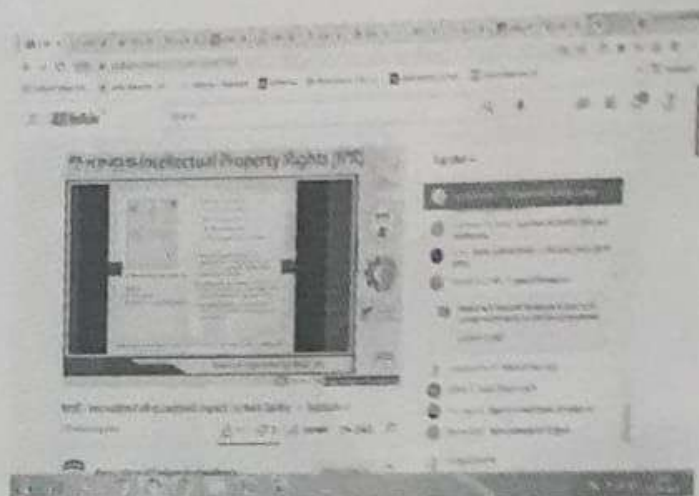
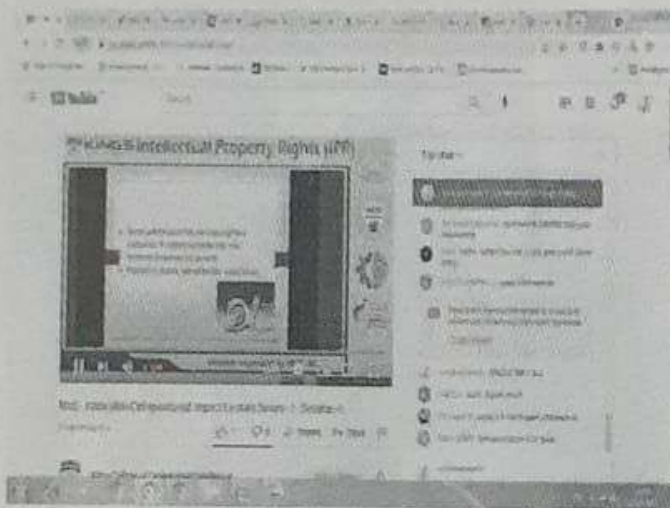
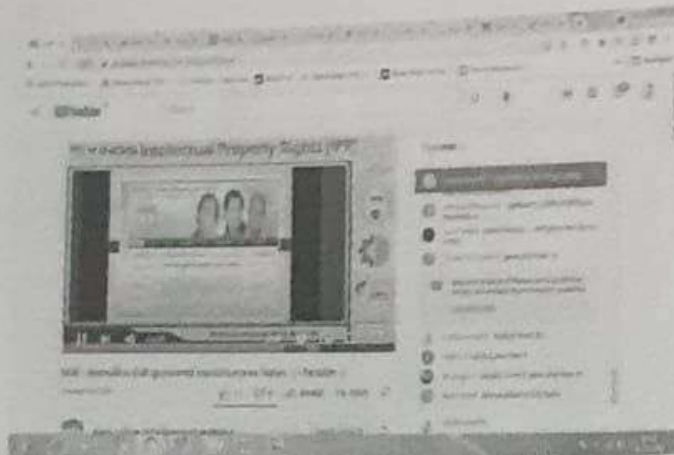
He also shared about copy rights with suitable examples such as literary, films, dramatic, musical, sound recording, artistic and procedure, registration, penalty (section 63 & section 63A) and duration for copy rights. Then he started to present about patents with suitable definition and types of patents such as Patent Inventions and Non Patentable Inventions. He also explained about Patent life cycle such as Idea, Basic research, understand the economic importance, prior art research, patent filing, and patent prosecution. The complete procedure explained by flowchart which represents patent process and timeline was highly informative. The session was very useful and the participants have interacted with the resource person.

Benefits In terms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted and gained knowledge about Innovation and Patent Rights skills set through practical concepts and examples.
- Programme helped to initiate simple Innovations and how to convert to Patents.
- Portrays the accelerated learning curve for students in involving innovation and Intellectual Property Rights through practical examples.
- It helps to gain new experiences, train students brain to handle a wide range of Challenges and concentrate through Innovation.

Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.



K. Shan
2/11/2021
IIC Member

P. Parvathy
2/11/2021
Vice President-IIC & AP/EEE

J. Praveen
2/11/2021
President-IIC & Principal

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



ACADEMIC YEAR 2021-22(ODD SEMESTER)

MoE'S Sponsored Impact Lecture series-II

On

"STARTUP TO IPR AND IMPACT OF ENTREPRENEUR IN HIGHER EDUCATION
INSTITUTION"

25.10.2021

IIC ID:IC201810951

REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized Impact lecture series-II webinar on "STARTUP TO IPR AND IMPACT OF ENTREPRENEUR IN HIGHER EDUCATION INSTITUTION" sponsored by MoE's Innovation cell on 25.10.2021.

Objective:

The main objective of this webinar series:

- To give ideas of Startup, IPR and Impact of Entrepreneur in Education Institution.
- It provides a platform for the teaching faculties and students to upgrade and know about the Startup and Patent Rights skills.
- In addition, this programme will help to improve the student's ability in carrying out how to build startup and convert to Patent rights to bring up professional discussions.

Speaker details:

Session 1: Session on ""Impact of Entrepreneur in Higher Education Institution"" by
Dr.V.Badrinath
Dean, School of Training & Placement
SASTRA University, Thanjavur

Session 2: Session on ""Startup to IPR"" by
Dr.Chitra Arvind
Partner, LEX IP CARE LLP
Chennai

President:

Dr.J.Arputha vijaya selvi, Principal, KCE

Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Convener

Mr.R.Balakrishnan, Assistant Professor / ECE

Members

Mr.R.Shankar, Assistant Professor / MECH

Dr.K.Sudhakar, Assistant Professor / T&P

Mr.J.Niranjana Samuel, JRF/R&D.

Programme Type: Webinar on Startup to IPR and Impact of Entrepreneur in Higher Education Institution

Promotion in social media: Facebook and Instagram

Inaugural Session:

Inaugural session was started through Google Meet(online) and streamed through YouTube by 2.20 P.M presided over by Dr.J.ArputhaVijaya Selvi, IIC President, Head of the Institution. The dignitaries during the online inaugural session were all the IIC Program Coordinators and IIC faculty and student Members. The program was started with Welcome address delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE. Introduction about Impact lecture series delivered by Mr.R.Shankar AP/Mechanical and Resource Person Introduction given by S.Aparnaa, IV/ECE, IIC Student Member

Participants:

External :17 Internal :185 Total : 202

Session 1: Session on "Impact of Entrepreneur in Higher Education Institution"" by

Dr.V.Badrinath

Dean, School of Training & Placement

SASTRA University, Thanjavur

The session was started by 2.30 P.M through Google Meet and YouTube platform. Before starting the session, Resource person thanked Management, Principal, IIC Coordinators and members of Kings College of Engineering. In his initial part of the session, he started about general introduction about role of Entrepreneur and Myths about Entrepreneurship. Then he started to explain about qualities and skills required for Entrepreneur. He pointed out Dr.AP.J.Abdulkalam success journey about dream to Innovation. He explained in detail about business Idea and shared about his own experience through success story of various persons. He pointed out top millionaires in world and suggested strong points related to success. He also interacted the audience in between the sessions.

He shared knowledge about achievers in Entrepreneur field by examples and also explained basics of Entrepreneur skills through his practical exposure. Through demonstrated pictures of different Entrepreneurs, he has given idea about how to become an Entrepreneur?. He shared the knowledge about simple tips about Entrepreneur. He has given an idea about scope of Entrepreneurship and practical examples such as 3D printing facility, Digitalization, Virtual reality lab. He pointed out that subsidies provided by the Government. The entire session was interactive through snapshots pictures and practical examples. The session was very informative and the participants have interacted with the resource person. The feedbacks from the participants were collected.

Session 2: Session on “Startup to IPR” by

Dr.Chitra Arvind

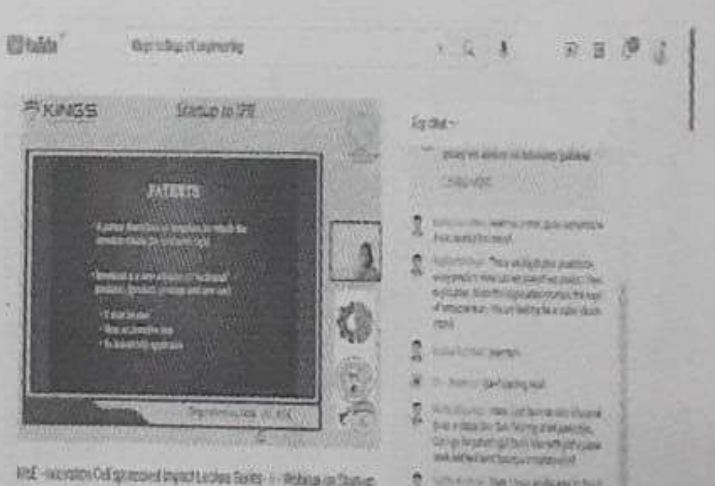
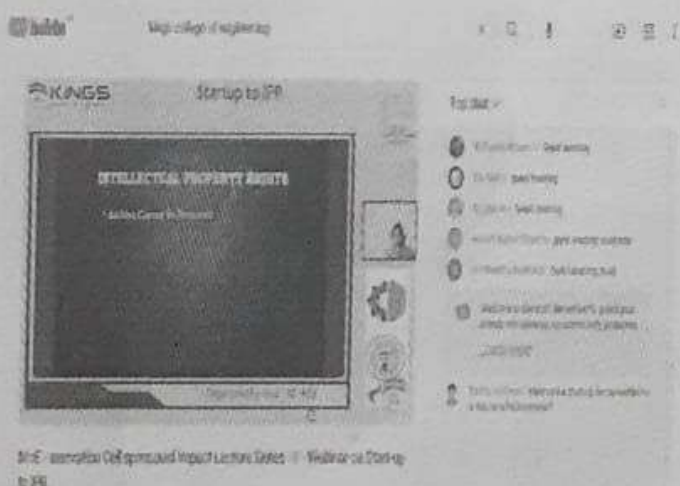
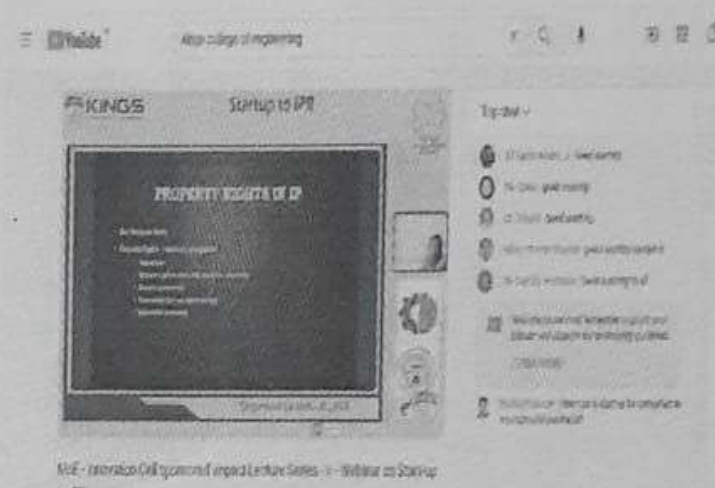
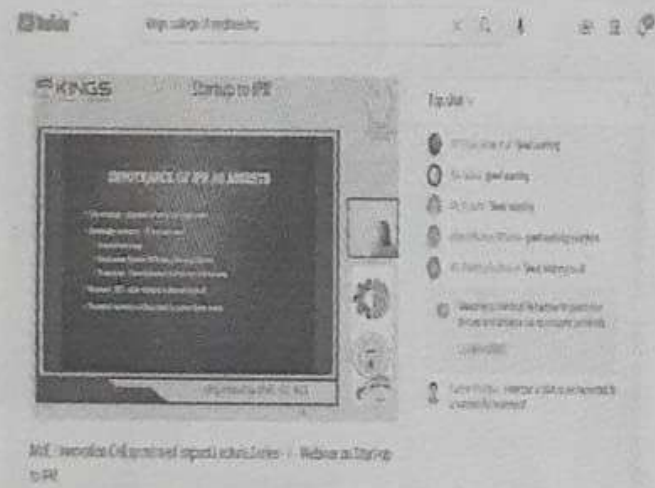
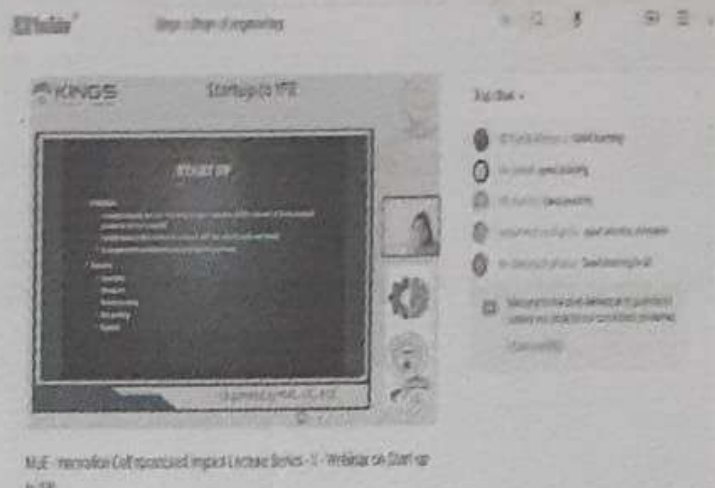
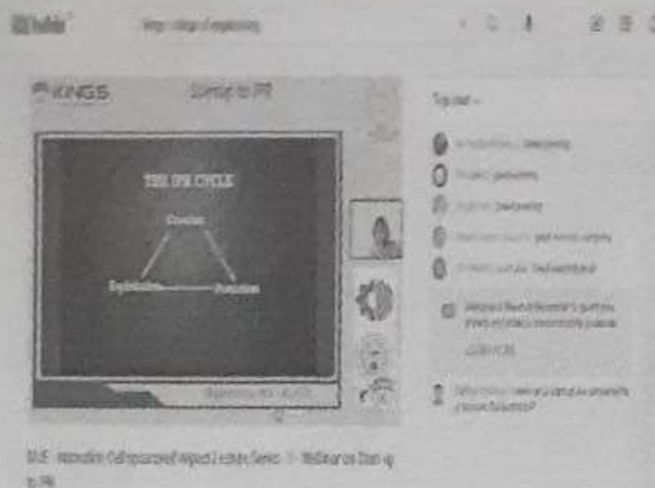
Partner, LEX IP CARE LLP

Chennai

The session was started by 4.00 p.m through Google Meet and YouTube platform. Introduction about the resource person was delivered by S.Aparnaa, IV/ECE, IIC Student Member. Initially, resource person thanked Management, Principal, IIC Coordinators and student members. In the initial part of her lecture, she has started general Introduction about startup definition (A Young company born out of a desire to solve a problem, fulfill a demand, or bring a unique product or service to market) which is nothing but an organization has an Innovation and pointed out three components such as new business, Innovation technology and passion to perform. She pointed out an examples OLA and Uber(Disruption in taxi services)and explained clearly about startup features such as Innovative, Disruptive, and Problem solving, fast growing and scalable.

She started to explain about The IPR Cycle such as Creation, Exploitation and Protection. Then she explained about Intellectual Property Rights (IPR) such as necessity of Property Rights, Progress of nation towards Innovations and Patent. She also shared about copy rights with suitable examples such as literary, films, musical, sound recording, registration and duration for copy rights. Then she started to present about patents with suitable definition and types of patents such as Patent Inventions and Non Patentable Inventions. she also explained about Patent life cycle such as Idea, Basic research, understand the economic importance, prior art research, patent filing, patent prosecution .she has clearly explained the benefits of IPR and procedure for patents to apply. Then she talked about different examples of IPR. The session was very informative and the participants have interacted with the resource person.

Session -II Photographs



R. S. Sankar
2/11/2020
IIC Member

P. S. Sankar
2/11/2020
Vice President-IIC & AP/EEE

J. S. Sankar
2/11/2020
President-IIC & Principal

Members

Mr.R.Shankar, Assistant Professor / MECH
Mr.J.Niranjana Samuel, JRF/R&D.

Programme Type: Webinar on Future of Innovation and Intellectual Patent Rights(IPR)

Promotion in social media: Facebook and Instagram

Inaugural Session:

Inaugural session was started through Google Meet(online) and streamed through YouTube by 10.20 A.M presided over by Dr.J.ArputhaVijaya Selvi, IIC President, Head of the Institution. The dignitaries during the online inaugural session were all the IIC Program Coordinators and IIC faculty and student Members. The program was started with Welcome address delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE. Introduction about Impact lecture series delivered by Mr.R.Shankar AP/Mechanical and Resource Person Introduction given by G.Latchayasri, IV/ECE, IIC Student Member

Participants:

External :27 Internal :195 Total : 222

**Session 1: Session on "Future of Innovation in India" by
Mr.K.Amirtha Ganesh, Director, Armada Industrial Automation
Thanjavur**

The session was started by 10.30 A.M through Google Meet and YouTube platform. Before starting the session, Resource person thanked Management, Principal, IIC Coordinators and members of Kings College of Engineering. In his initial part of the session, he started about general introduction about Innovations which help to catch the career and difference between Invention and Innovation with plenty of examples. He shared knowledge about start up and Innovation by practical examples and also explained basics of research and patents through his practical exposure. Then he explained about different types of Innovations made recently in India particularly recently available in the market and how to develop a simple product. He briefly explained about his career and innovations developed recently in different sectors such as Agriculture, Defence applications, Women safety and medical applications. Through demonstrated pictures of Defense field he has given idea about how to start the innovation and products. He shared the knowledge about product development and Entrepreneur. He has given an idea about how to start the Innovation and startup. The entire session was interactive through snapshots pictures and live examples. The session was very informative and the participants have interacted with the resource person. The feedbacks from the participants were collected.

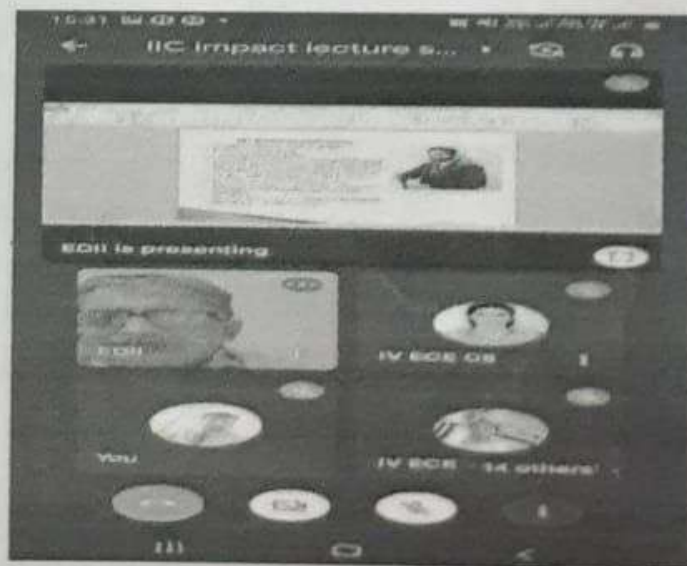
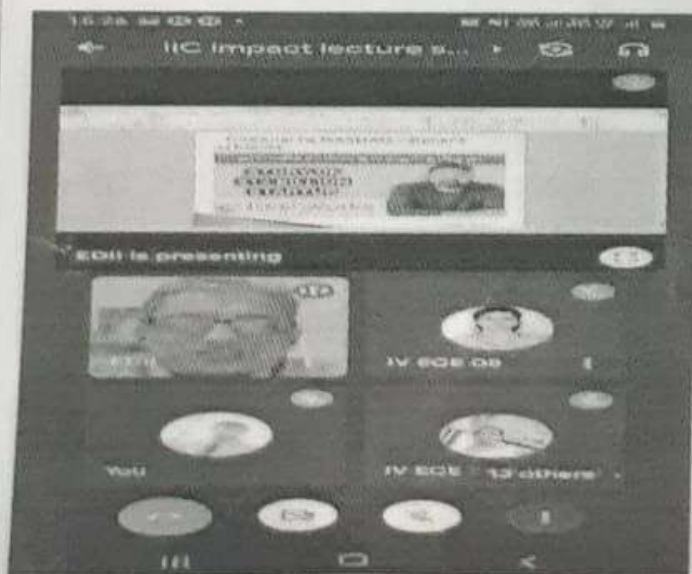
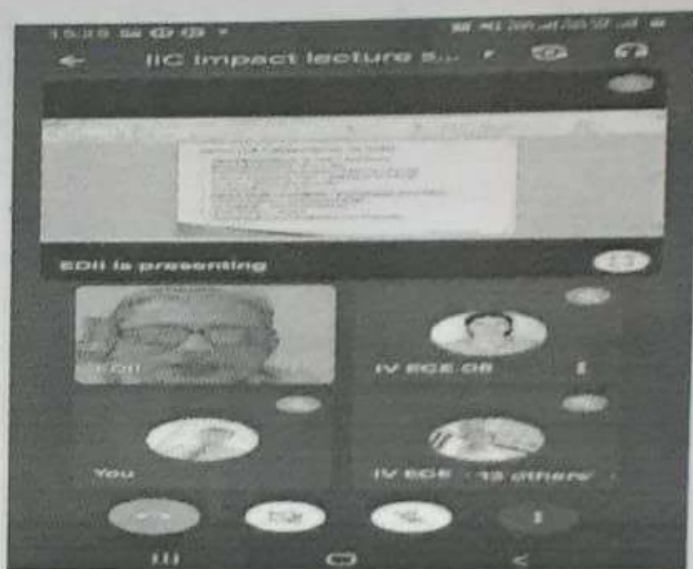
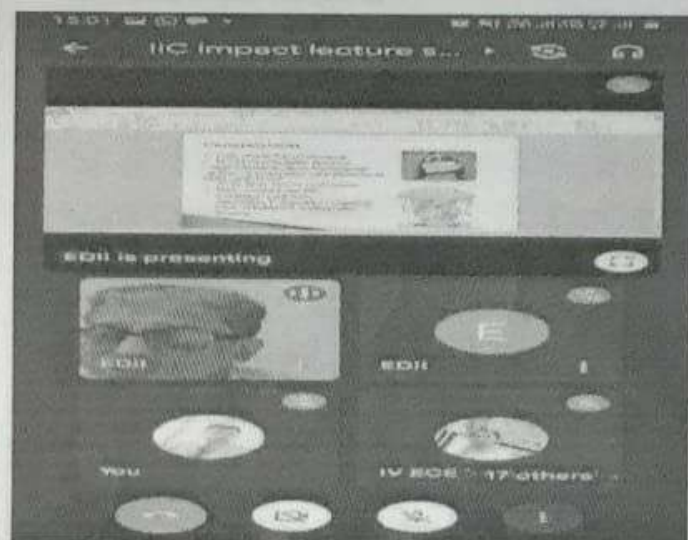
Benefits Intermis of Learning/Skills/Knowledge obtained:

- All the participants have benefitted and gained knowledge about startup and Patent Rights skills set through practical concepts and examples.
- Programme helped to initiate simple Product development and how to convert to Patents.
- Portrays the accelerated learning curve for students in involving innovation and Intellectual Property Rights through practical examples.
- It helps to gain new experiences, train students brain to handle a wide range of Challenges and concentrate through Innovation.

Valedictory Function:

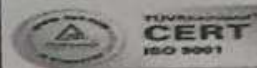
The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

Session -I Photographs





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ACADEMIC YEAR 2021-22 (ODD SEMESTER)



WORKSHOP
On

"PROBLEM SOLVING AND IDEATION"

6.12.2021

REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized workshop on "PROBLEM SOLVING AND IDEATION on 6.12.2021.

Objective:

The main objective of this webinar is to provide ideas of create complex components using Die casting and Injection mold process.

Resource persons:

Mr.M.P.Muralidharan
Production Designer
Husky Injection Mold
Chengalpat.

President:

Dr.J.Arputha vijaya selvi,Principal,KCE

Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Convenor

Mr.R.Balakrishnan, Assistant Professor / ECE

IIC member & Coordinator

Mr.R.Shankar, Assistant Professor / MECH

Quarter series-I

Programme Type: Workshop session

Promotion in social media: YouTube

Workshop Summary


This report provides a brief summary of the lecture on **“PROBLEM SOLVING AND IDEATION”** organized by Institutions Innovation Cell on **6.12.2021** at **10 am to 11 am** through Kings - YouTube channel. 97 participants registered and attended the programme.

The session was started by 10.00 a.m. Introduction about the resource person was delivered by **Mr.R.Shankar**, Assistant Professor/ Mechanical department & IIC Member. The lecture was delivered by **Mr.M.P.Muralidharan**, Production Designer, Husky Injection Mold, Chengalpat. He has explained the benefits of using die casting and injection molding in automotive industry. Most of the participants who attended the workshop were Students and Faculty. The lecture provided an interactive atmosphere between the resource person and the participants.

Vote of thanks was given by **Mr.R.Shankar**, Assistant Professor, Department of Mechanical Engineering, Kings College of Engineering. End of the session, all attended participants gave their feedback and E-certificate has been sent to them through email.

Benefits Intermis of Learning/Skills/Knowledge obtained:

- Programme helped to initiate how to make the complex shapes within closer tolerances than many other mass production processes.
- It helps to gain the ideas, how to create objects using pressurized molten metal.
- Lecture helps to know the different materials which is used in injection molding

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Workshop
Organized by
Institution's Innovation Council

INSTITUTION'S
INNOVATION
COUNCIL


Session
on
PROBLEM SOLVING AND IDEATION



Registration link : <https://forms.gle/CNqQwPEynMJA3RUQ9>

Date : 06.12.2021
Time : 10.00 am to 11.00 am
E-Certificate will be provided to all participants

Resource Person:
Mr.M.P.Muralidharan
Production Designer
Husky Injection Mold
Chengalpat.



Mr.R.Shankar, AP/MECH
Mr.J.Niranjani Samuel, JRF/RE&D
IIC Member & Coordinator

Mr.R.Balakrishnan, AP/ECE
IIC Convener

Mr.R.Sundara Moorthy
IIC Vice President

Dr.S.M.Uma
Startup Cell Coordinator

Dr.J.Arputha Vijaya Selvi
IIC President & Principal

Certificate of Participation

This is to certify that S.Nelson Raja, Assistant Professor, from Kings College of Engineering-Thanjavur has actively participated in the workshop on **"PROBLEM SOLVING AND IDEATION"** organized by Institutions Innovation Council, Kings College of Engineering, Pudukkottai on 6th December 2021.

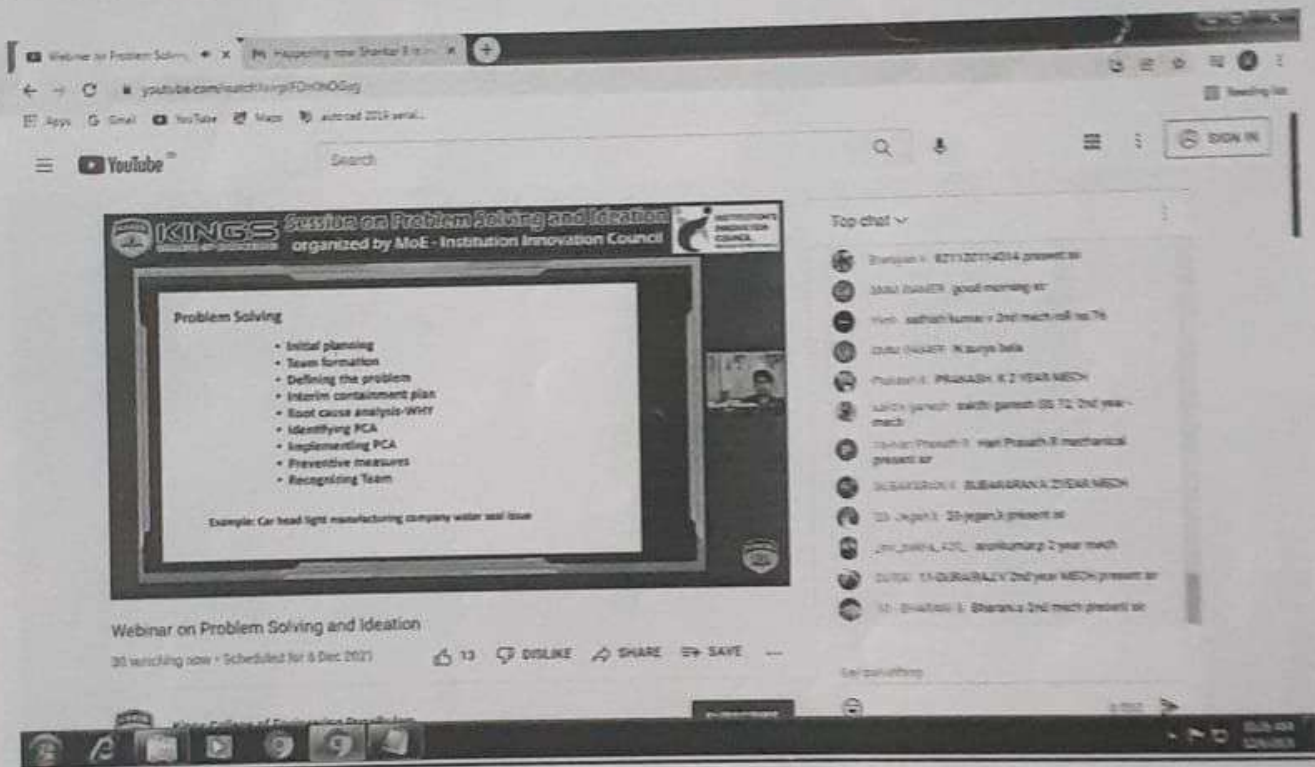
Mr. R. Shankar, AP/MECH.
IIC Member & Coordinator

Mr. R. Sundramoorthi, AP/EEE
IIC Vice President

Dr.J. Arputha Vijaya Selvi
Principal

Certificate -Sample copy

Event Photographs



Resource person Mr.M.P. Muralidharan delivering the lecture on problem solving and ideation

R. Shankar
12/12/21
Coordinator & IIC Member

S. Sundramoorthi
12/12/2021
Vice President-IIC & AP/EEE

J. Arputha Vijaya Selvi
12/12/2021
President-IIC & Principal



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ACADEMIC YEAR 2021-22(ODD SEMESTER)

WEBINAR

On

"Expert Talk on Process of Innovation, development and Technology Readiness level (TRL) Commercialization of Lab technologies & tech transfer"

5.2.2022

IIC ID: IC201810951

REPORT

Institution's Innovation Council (IIC) organized webinar on "Process of Innovation, development and Technology Readiness level (TRL) Commercialization of Lab technologies & tech transfer" on 05.02.2022.

Objective:

The main objective of this webinar series:

- To give ideas on Process of Innovation and technology development in Industry 4.0.
- It provides a platform for the teaching faculties and students to upgrade and know about the development and Technology.
- In addition, this programme will help to understand about technology transfer between Industry 3.0 and Industry 4.0.

Speaker details:

"Expert Talk on Process of Innovation, development and Technology Readiness level (TRL) Commercialization of Lab technologies & tech transfer" by

Mr.M.Avinash

Head, Customer success& Implementation

Think 7 Business Systems Pvt Ltd

Bangalore

President:

Dr.J.Arputha vijaya selvi,Principal, KCE

Vice- President &Coordinator

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Members

Mr.R.Shankar, Assistant Professor / MECH

Mr.J.Niranjan Samuel, JRF/R&D.

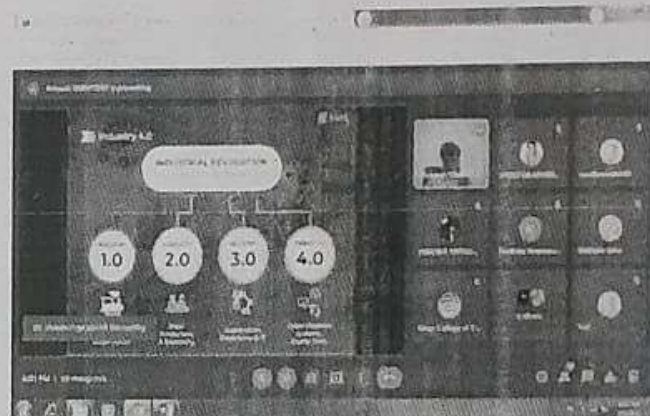
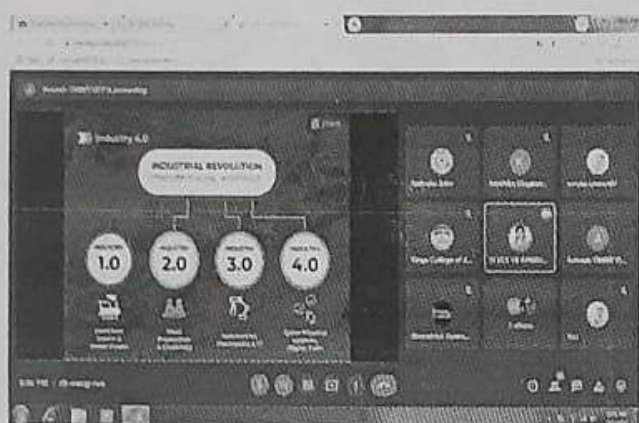
Benefits In terms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted and gained knowledge about importance of Industry Requirements and Process of Innovation.
- Programme helped to adapt new technologies in IoT and Sales Marketing.
- Portrays the accelerated learning curve for students in involving different technologies associated with Industry 3.0 and Industry 4.0.

Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

Session Photographs:



R. Sundaramoorthi
22/02/2022
Vice President-IIC& AP/EEE

J. Murali
22/2/2022
President-IIC&Principal



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**INSTITUTION'S
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ACADEMIC YEAR 2021-22(ODD SEMESTER)
WEBINAR
On
" Design Thinking, Critical thinking and Innovation Design"

26.2.2022

IIC ID: IC201810951

REPORT

Institution's Innovation Council (IIC) organized webinar on "Design Thinking, Critical thinking and Innovation Design" on 26.02.2022.

Objective:

The main objective of this webinar series:

- To give ideas on design thinking, Critical thinking of Innovative Projects.
- It provides a platform for the students to upgrade and know about the recent development and Technology.
- In addition, this programme will help to understand about technology transfer in Industry

Speaker details:

"Design Thinking, Critical thinking and Innovation Design" by
Dr.P.Narasimman
Assistant Professor
Department of EEE
Kings College of Engineering

President:

Dr.J.Arputha vijaya selvi, Principal, KCE

Vice- President &Coordinator

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Members

Mr.R.Shankar, Assistant Professor / MECH

Mr.J.Niranjana Samuel, JRF/R&D.

Programme Type: Webinar on "Design Thinking, Critical thinking and Innovation Design"

Promotion in social media: Facebook

Programme Type: Expert Talk on Process of Innovation, development and Technology
Readiness level (TRL) Commercialization of Lab technologies & tech transfer

Promotion in social media: Facebook and Instagram

Participants:

External: Nil Internal :175 Total : 175

Session details: "Expert Talk on Process of Innovation, development and Technology
Readiness level (TRL) Commercialization of Lab technologies & tech transfer" by

Mr.M.Avinash

Head, Customer success& Implementation

Think 7 Business Systems Pvt Ltd

Bangalore

The session was started by 5.30 p.m through Google Meet and YouTube platform. Welcome address was delivered by Mr.R.Sundaramoorthi, AP/EEE,IIC/Vice President. Introduction about the resource person was delivered by Ms.K.Aparnaa,IIC Student Member. Initially, Mr.M.Avinash, Whole hearted thanks to Management,Principal,Coordinators and student members. In the initial part of his lecture, he has started general Introduction about Importance of Process of Innovation. Then he started to explain about Industry 2.0, Industry 3.0 and Industry 4.0.

He shared knowledge about how development and technology associated with software Industry. In Industry 1.0, Machines, steam and water power involved under manually. That means Industry 1.0, no automation involved. In Industry 2.0, Mass Production and Electricity developed. Here mechanically automated process also done by using simple components. In the next revolution Industry 3.0 which involves Automation, Electronics and Information technology developed. In addition, software such as CNC& PLC and mechanical drives control used. Industry 4.0 deals with Cyber Physical systems and Digital twin technology. In Industry 4.0,all machineries controlled through Internet of Things (IoT) and Gateway. Here Communication faster compared to all the other Industry 1.0,2.0 and 3.0. He gave plenty of examples such as mechanical automation and manufacturing technology associated with Industry 3.0 and Industry 4.0. He pointed out various role of Industry 4.0. He also shared the scope of current job requirement and future development in Industry.

He mentioned about Innovation in Industry through different practical Examples. He broadly explained about how Industry 4.0 which helpful in the development of Innovation. He has shared knowledge about the importance of Industry requirements such as sales, Product development, Production, quality and also organization requirements.

Participants:

External: Nil Internal:127/Total :127

Session details: "Design Thinking, Critical thinking and Innovation Design" by

Dr.P.Narasimman
Assistant Professor
Department of EEE
Kings College of Engineering

The session was started by 12.30 p.m through Google Meet and YouTube platform. Welcome address was delivered by G.Latchayasri, IIC Student Member. Introduction about the resource person was delivered by Ms.K.Aparnaa,IIC Student Member. In the initial part of his lecture, he has started general Introduction about Importance of design of Projects. Then he started to explain about Industry Projects and design factors. He shared his research experience and different tools are used in Prototype design and process design in order to develop the prototype. He shared knowledge about how development and technology associated with software Industry and broadly given the agenda such as Introduction about prototype, free software's available to develop a prototype, basic circuit designing, software and applications etc. He clearly explained from basics of prototype through some practical examples such as Multilevel Inverter, UPS Design etc. In addition with, other practical examples were also given such as agriculture field and Military applications. He has given plenty of problems and solutions in order to get product through flowchart. Finally he has mentioned that general Instructions and guidelines for Project design and how to convert prototype to patterns. The session was very informative and the participants have interacted with the resource person.

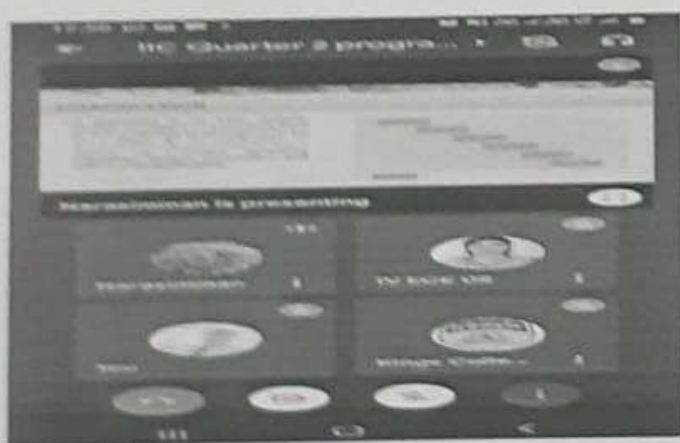
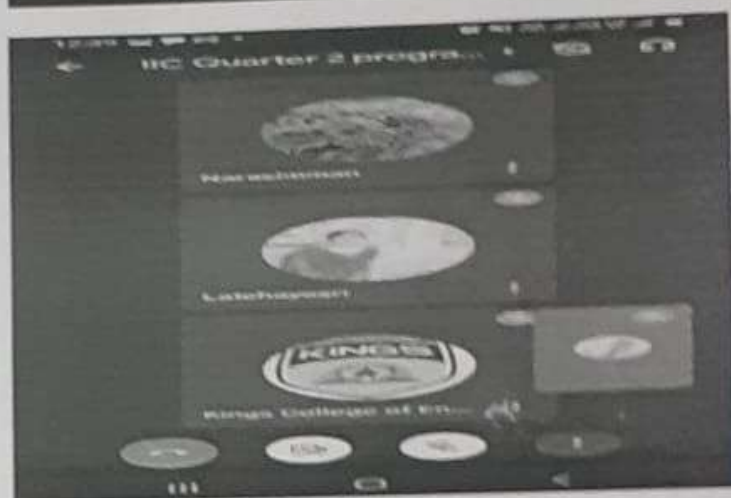
Benefits In terms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted about product design and methodology.
- Webinar helped to initiate how to get develop Product through design concepts.
- Portrays the accelerated learning curve for students in involving Product development

Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

Session Photographs:



Infantino
Vice President-IIC & AP/EEE
11/03/2022

J. M. H. 11/3/2022
President-IIC & Principal



ACADEMIC YEAR 2021-22(EVEN SEMESTER) SMART INDIA INTERNAL HACKATHON 2022-REPORT

Session Details:

Title of the Session : Smart India Internal Hackathon-2022

Date : 21.3.2022

Duration : 11 AM TO 3.30 PM

Activity/Category : Internal

Nature of the Session : Physical Mode

Facebook link for the event organized: Facebook/Kings College of Engineering

- Theme :Problem Statements from SIH 2022
- Agriculture,FoodTech&Rural Development
- Renewable /Sustainable Energy
- Smart Automation
- Smart Vehicles
- Block chain and Cyber security

Speaker Details:

Name:Dr.J.Arputha Vijaya Selvi

Designation: Principal/IC President

Organization: Kings College of Engineering

Name:Dr.S.Sivakumar

Designation: VicePrincipal

Organization: Kings College of Engineering

Jury Details

- Mr.M.Arjun, AP/CIVIL -arunkumar.civil@kingsengg.edu.in
- Dr.S.M.Dina/HOD/CSE -dindase@kingsengg.edu.in
- Mr.T.Pasupathi,AP/ECE-pasupathi.ece@kingsengg.edu.in
- Dr.P.Narasimman,AP/EEE-narasimman.eee@kingsengg.edu.in
- Mr.R.Shankar,AP/MECH-shankar.mech@kingsengg.edu.in

Programme Report:

Objective:

- To enhance the knowledge of students and motivate them to compete in the global competitive engineering field.
- To showcase the research talents, innovativeness, and creativity among the students.
- It provides a platform for the students to upgrade and know about the development and Technology.
- To provide a forum for sharing new design and alternative technologies and to promote a vibrant interactive environment leading to exchange of new research ideas.

Institution's Innovation Council (IIC) of Kings College of Engineering organized Smart India Internal Hackathon-2022 on 21.3.2022 at Pallava Hall. A total of 13 teams (78 Members) were actively presented their ideas. Each team consists of six members and different themes are selected from the Smart India Hackathon 2022 Portal. The session was started by 11.30 A.M with Tamil Thaaai Vaazthu .Welcome address was delivered by Mr.R.Sundaramoorthi,AP/EEE,IIC/Vice President.

Presidential Address was delivered by Dr.J.ArputhaVijayaSelvi, Principal, IIC Vice President. During Presidential address, she pointed out Role of Innovation in Institution, recent trends in Engineering and current scenario of Engineering students minds. She also motivated to create vibrant research activities and participate more techno fest competitions. Special Address was delivered by Dr.S.Sivakumar, VicePrincipal. During his speech, he mentioned about over all idea of Smart India Hackathon 2022 and problems statements described in the websites. He interacted with all the students and motivated them for Smart India Hackathon Event. Presentation started by 12.15 p.m as per schedule circulated in Agenda. Instructions and Guidelines about presentation acknowledged. The following department teams were participated.

SL.NO	DEPARTMENT	NO OF TEAMS	SECTOR
1	CIVIL	02	• Agriculture,FoodTech&Rural Development
2	CSE	03	• Block chain and Cyber security
3	ECE	04	• Smart Automation
4	EEE	02	• Smart Vehicles
5	MECH	02	• Renewable /Sustainable Energy
TOTAL :13(78 Members)			

Valedictory Function:

The shortlisted teams were declared. Evaluation made based on the following criteria :-(a)Problem Evaluation-5 Marks(b)Description-5 Marks (c)Presentation-10 Marks (d)Queries-5Marks.A total of 25 marks allotted for each presentation.Over all eight hardware teams and two software teams were identified. Three teams are nominated as waiting list category.

The feedbacks from the participants were collected. Mr.R.Shankar, IIC Member delivered the vote of thanks.

Outcome of the activity:

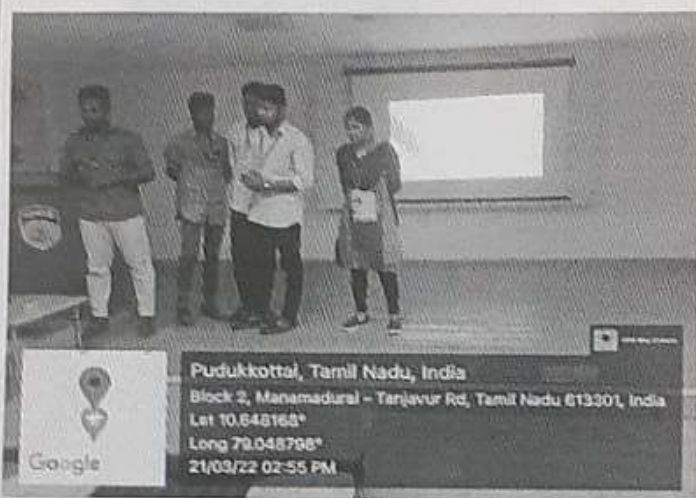
- All the participants have benefitted and gained knowledge about Problem statements and finding solutions.
- Programme helped to adapt new technologies in all the sectors.
- Portrays the accelerated learning curve for students in involving different technologies associated with different Industries and funding Agencies.



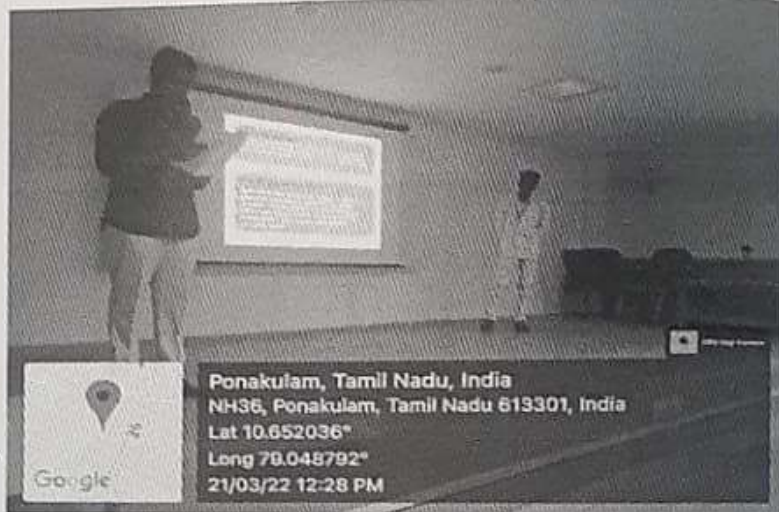
ECE Branch students Exhibiting Idea



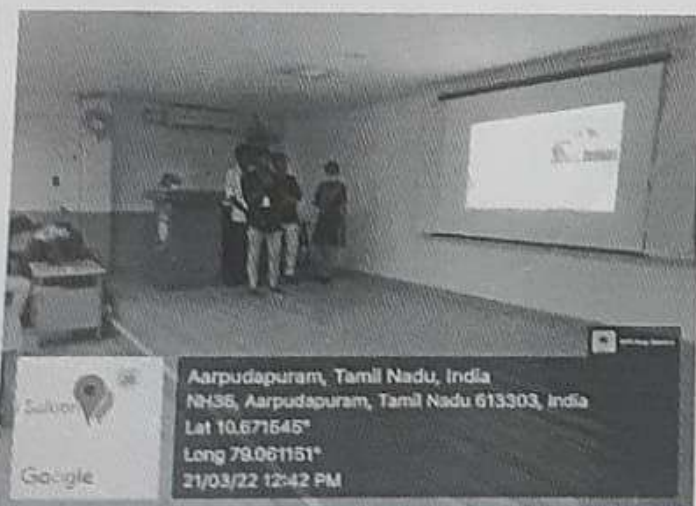
ECE Branch students Exhibiting Idea



EEE Branch students Exhibiting Idea



Civil Branch students Exhibiting Idea



Mechanical Branch students Exhibiting Idea



Mechanical Branch students Exhibiting Idea

A. Rajan
30/3/22
IIC Members

Sulaiman
30/03/2022
Vice President, IIC

J. Muthu
30/3/2022
Principal/President, IIC



3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

IEEE SB				
S. No	Date	Name of the Activity	No. of Beneficiaries	Page No.
1	28.06.21 to 09.07.21	Online Skill Course	100	4
2	15.09.2021	Seminar on Tinker CAD	10	4
3	24.09.2021	Seminar on Next Generation Wireless Communication Challenges and Issues	31	4
4	24.09.2021	Symposium CISABZ'21	68	5
5	24.09.2021	Symposium eBlast'21	204	5
6	27.09.2021	Talk on Competitive Swarm Optimizer and its Application in Optimal DG Planning in Distribution Network	08	6
7	29.09.2021	Webinar on Introduction and Interfacing of Sensors with Raspberry Pi	63	7
8	16.09.2021	seminar on Goal setting	81	7
9	05.10.2021	Webinar on IEEE Awards & Scholarships	130	8
10	10.10.2021	Electronic Art 2.0	21	8
11	09.10.2021	Paper Presentation	16	8
12	09.10.2021	Webinar on Internet of Energy	40	9
13	11.10.2021	Webinar on Importance of Girls' Education	45	10
14	15.10.2021	Seminar on Energy Management System	41	10
15	28.10.2021	Symposium ENIGMA 2k21"	48	11
16	31.10.2021	Webinar on Project Based Learning	45	11
17	08.11.2021 09.11.2021	FDP on Smart Grid-Trends and Future Perspective	85	12
18	13.11.2021	Webinar on Know about Overseas Recruitment and Studies	385	13
19	15.11.2021	Technical Puzzles	50	14
20	17.11.2021	Seminar on Personality Development - Leadership qualities and Effective Learning Practices	09	14
21	17.11.2021	IEEE Student Membership Awareness and Benefits	60	15

22	17.11.2021	Seminar on Generation of Power using Gravity	41	15
23	30.11.2021	Student Activity Committee meet	20	15
24	01.12.2021	Technical Quiz – Electronics	40	16
25	08.12.2021	Seminar on Optimal Installation of Multiple DG Units Using Competitive Swarm Optimizer (CSO) Algorithm	41	16
26	08.12.2021	Seminar on Distributed Energy Trading in Smart Grid Over Directed Communication Network	40	17
27	16.12.2021	Seminar on Design of higher order tip-tilt mitigation system using wavefrontsensorless Adaptive optics system in Terrestrial Free Space Optical Communication	11	17
28	21.12.2021	Seminar on Programme on Energy Conservation	40	18
29	24.12.2021	Workshop on Skill sets for Electronics Engineers in Core Field	45	18
30	30.12.2021	Seminar on Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo Search optimization algorithm for wireless sensor networks	12	19
31	08.01.2022	Seminar on 'Write-on'	32	19
32	12.01.2022	Awareness Talk on 'Empowering Youth as a Promising Leader'	100	19
33	25.01.2022	Talk on Literacy and Life Skills for Women	98	20
34	31.01.2022	Lecture on "IoT based Application in Healthcare Devices".	13	20
35	01.02.2022	Circuit Debugging	50	21
36	11.02.2022	Preparatory Workshop and Meeting for NBA	68	22
37	12.02.2022	Webinar on "Women and Adolescent Health"	198	22
38	14.02.2022	Session on "Handling Stakeholders with Care"	25	23
39	16.02.2022 & 17.02.2022	Two day FDP on "Integrating PCE skills into Classroom Teaching"	60	23
40	16.02.2022 to 25.02.2022	Winter Crash Course on Embedded C Programming	23	24
41	26.02.2022	Faculty Development Programme on "Moodle Learning Management System"	74	24

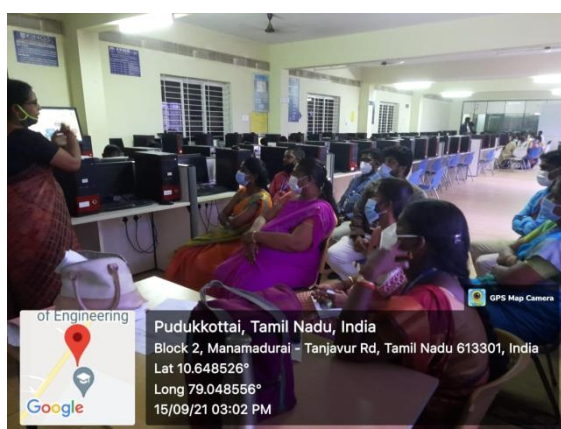
42	28.02.2022	National Science Day'2022	40	25
43	04.03.2022	Awareness on Energy Audit	50	26
44	08.03.2022	Talk by Successful Women Entrepreneur	55	26
45	18.03.2022	Preparedness towards Core Opportunities	52	26
46	25.03.2022	Seminar on Smart Grid - Revolutionizing our Energy Future	08	27
47	25.03.2022	Webinar on How to approach Corporate Companies for Jobs	45	27
48	28.04.2022	Seminar on PI Controlling of Air Conditioning System	07	28
49	26.04.2022	Seminar on "Intellectual Property Rights"	220	28
50	29.04.2022	Seminar on Internet of Federated Things	08	29
51	22.04.2022	Seminar on IOT in Agriculture Applications using Wireless Sensor Network	12	30
52	29.04.2022	Mini Project Expo	42	30
53	09.05.2022	Seminar on Evaluation of Electric Vehicles, Future Challenges & Opportunities	167	31
51	02.06.2022	Seminar on Implementation of fruit quality classification application using AI Algorithm	10	32
52	10.06.2022	National Conference on Communication, Networking and Intelligence (NCCNI'22)	52	33
53	10.06.2022	National Conference on Flourishing Areas in Electrical and Electronics Engineering (NACOFEE'22)	72	33
54	10.06.2022	National Conference on Recent Advancements in Computers & Communication Technologies (NCRACCT'22)	48	34
55	15.06.2022	Kings Project Expo'22	200	35



IEEE SB Kings College of Engineering, Punalkulam

September, 2021

Department of CSE and IEEE Student Branch STB 16621 jointly organized a seminar. Ms.S.Puvaneswari AP/CSE handled the session in the topic of “IoT application using Tinkercad”. She described the procedure to create a workspace in that website. Tinkercad is a freeware website which is used to provide a platform to develop an IoT project. It allows the user to create 3D designs, new circuit designs. It consists of various components and simulates the functionalities of real sensors such as vibration sensor, thermal sensor and so on. To develop an IoT project, the website offers two kinds of coding Methods. First method contains the blocks. The blocks will be placed where it is required and executed when the project is started. Second type of coding follows the c++ syntax. It contains setup function and loop function. Based on the requirement, the number of functions varied. During the session, the following three simulation were demonstrated: Glowing an LED bulb, Glowing an LED bulb using Arduino kit and Displaying the meter reading using vibration sensor.



Department of EEE and IEEE Student Branch STB 16621 jointly organized a seminar on “Next Generation Wireless Communication Challenges and Issues” for faculty of EEE on 24.09.2021. Mrs. P. Thirumagal, AP/EEE delivered lecture. In her lecture, she briefed on the challenges involved in optimizing the performance in the face of constraints on communication bandwidth, congestion, and contention for communication resources, delay, jitter, noise, fading, and the management of signal transmission power.



The Department of Computer Science & Engineering & IEEE Student Branch 16621 jointly organized a National Level Technical E-Symposium on 24th September 2021. Ms.J.Gayathri, IV CSE, IEEE student member welcomed the gathering. Dr.S.M.Uma HOD/CSE delivered the welcome address. Dr.J.Arputha Vijaya Selvi, Principal delivered inaugural address and also insisted the participants to make this symposium effectively. Ms.S.Puvaneswari AP/CSE, introduced the Chief Guest. Dr.P.Arockiya Mary, Asso. Prof/IT, V.S.B Engineering College, Karur, delivered Keynote address on Deep Learning. She illustrated the difference between Artificial Intelligence, Machine Learning and Deep Learning. She explained the basics of deep learning concepts and also described how Deep Learning is used in various industries. She concluded her keynote address by listing various types of software that supports smart environment. At the end of inaugural function, Ms.T.R.Dharshini from IV CSE, thanked the gathering. 16 papers were accepted for presentation during the technical session. Mr.S.Rajaraman, Ms.R.Suganthalakshmi, Ms.B.Sangeetha and Mr.M.Arun from CSE acted as Juries. The evaluation based on the presentation, concept and implementation. Other technical events such as Code cracking, Technical Quiz and Photography Event were also conducted through online mode.

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Department of Computer Science and Engineering

WIN PRIZES
1st Prize
2nd Prize
3rd Prize

Events
Paper Presentation
Code Cracking
Technical Quiz
Photography

CISABZ'21
on 24th September-2021

Paper Presentation Topics
• Big Data / Data Mining
• Artificial Intelligence
• IoT
• Cyber Security
• Android
• Cloud Computing
• Any Emerging trends in IT

Last Date for Paper Submission: 20.09.2021
Last Date for Registration: 18.09.2021
Date of Information: 21.09.2021

Registration Link: <https://tinyurl.com/CISABZ21>

Contact us
Staff Coordinator : 99438 96178
Student Coordinators : 97885 12640
97917 22966

Send your Papers to cisabz2021@gmail.com

Student Coordinators
Mr.E.Haribaran, i/c
Ms.J.Gayathri, i/c

Staff Coordinator
Mrs.S.Puvaneswari
AP/CSE

Convener
Dr.S.M.Uma
HOD-CSE

Patron
Dr.J.Arputha Vijaya Selvi
Principal

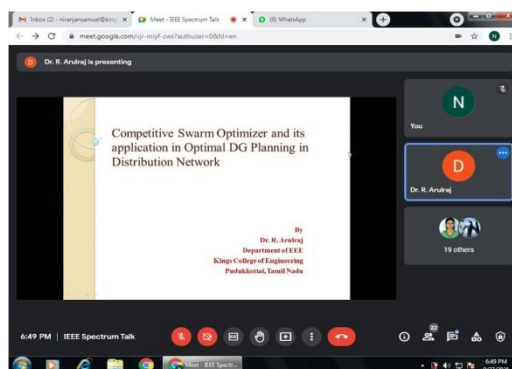
<https://www.facebook.com/KingsCollegeofEngineering/>
Kings College of Engineering Ponakulam

Department of Electronics and Communication Engineering & IEEE Student Branch 16621 jointly organized a National level Technical Symposium “eBLAST-2k21” on 24th September 2021. Mrs. D.Vennila, AP/ECE coordinator of the symposium welcomed

the gathering. Mrs. N.Mangaiyarkarasi, Convener and Head of the department offered Felicitation. Dr.J.Arputha vijaya selvi, Principal delivered Presidential Address. Ms.G.LatchayaSri, IV year ECE introduced the chief guest Dr. Chitra Valavan. In her inaugural address, Dr. Chitra Valavan, gave an overview on Nano technology, Robotics and its Automation, Intelligent sensors and Wireless Sensor Networks, MEMS and Telehealth (Wireless Health care monitoring) with an interactive presentation. While concluding, she shared some videos with real time examples for Augmented and Virtual Reality. Ms.D.Sarika, IV year ECE, introduced guest of honor, Er.J.Mahesh. He gave a wonderful talk about the mobile manufacturing Technology and also he provided tricks and tips in hardware field. At last he shared his work experience with the participants. Finally, Mr.P.Rajapirian, AP/ECE, coordinator of this symposium proposed vote of thanks with the words. Thus the Inaugural session ended successfully. 42 papers were presented during the technical session. Other technical events such as Circuit debugging, photography and Connection were organized virtually.



IEEE Student Branch STB 16621 organized Spectrum Talk on Competitive Swarm Optimizer and its application in Optimal DG Planning in Distribution Network on 27.09.2021 for IEEE student members. Ms. S. Aparnaa, Chairman- STB 16621, welcomed the gathering and introduced the resource person. Dr.R.Arulraj, AP/EEE interacted with the students about that use of Optimization algorithms and its applications in planning distribution network. During the session he motivated the students to develop and apply optimization algorithms in real time application in their field of interest. This session was very interactive. Ms. P Shobiga, III year ECE proposed vote of thanks.



Department of Electronics and communication Engineering and IEEE Student branch jointly organized a webinar on Introduction and Interfacing of Sensors with Raspberry on 29-09-2021. Total of 74 candidates registered and 63 participants attended the webinar through Google Platform. Ms. Swati Sharma, IoT Embedded Engineer, Valuecon Pvt Ltd Ghaziabad, Uttar Pradesh was the resource person. Ms.K.Gayathiri, Third year ECE welcomed the gathering and introduced the resource person. Ms.Swati Sharma, in her lecture briefed on the following during her presentation. Unique features and application of raspberry Pi, List of GPIO pins, Description of DHT11, Ultrasonic sensor, PIR sensor, Vibration sensor, Interfacing of the above sensors with Raspberry Pi, Real time Image processing using Raspberry Pi and Image recognition application using Raspberry Pi. Also she interacted with the students and clarified their doubts regarding issues in the interfacing. Mr. S. Ramarajan, AP/ECE, proposed vote of thanks.



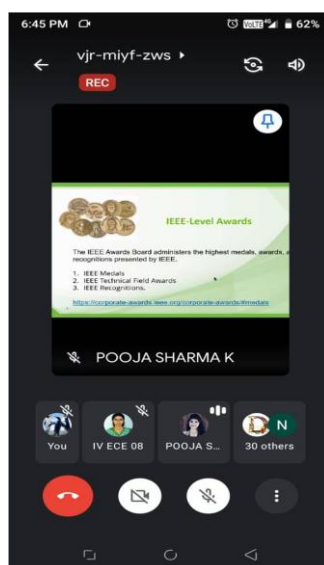
Department of ECE in association with IEEE STB 16621 organized a seminar on Goal setting for students and how the internship helps them to achieve their Goal on 16.09.2021. Mr. Leo Fernandez, Vice President- Industry University Linkage & Mr.K.Dinesh Kumar, Head, Software Engineering Department, KIRIROM Institute of Technology, Cambodia was the Resource persons. Mrs.U.Jeyamalar AP/ECE delivered welcomes address. Mr.K.Dinesh Kumar, Head, Software Engineering Dept., KIRIROM Institute of Technology, delivered a talk on **“Goal Setting for the Students”**. In his speech he explained how a student must set goal for their bright full future; he shared the challenges experienced in his own life. Mr. Leo Fernandez, Vice President-IUL, KIRIROM Institute of Technology, delivered speech on **“How Internship Students to achieve their Goal”**, in his speech he briefed on Internship and its importance, also he explained how internship help the students to choose their carrier. He shared the experiences from his institute KIRIROM Institute of Technology, Cambodia. Finally Ms.G.Latchayasri, IV year Student, delivered the vote of thanks. Totally 81 students from ECE department were participated in the webinar.



October, 2021

1. Webinar on IEEE Awards & Scholarships

IEEE student branch of KCE organized IEEE Day Celebration and a Webinar on IEEE Awards & Scholarships on 05th October 2021, 1302 IEEE student members actively participated in this event. Ms. S. Aparnaa, IEEE SB Chair, KCE welcomed the gathering. Ms. G. Divya bharathi, Student member IEEE introduced the resource person to the gathering. Ms. Pooja Sharma, Committee member, IEEE MAS Young Professionals 2021 gave a talk on IEEE Awards & Scholarships. In her lecture, she shared what is IEEE, benefits of being a IEEE volunteer, types of IEEE awards, how to crack the awards and scholarships opportunities. Participants clarified their doubts with the resource person. Ms. S. Aparnaa, IEEE SB Chair proposed vote of thanks. Group photos are taken and submitted to the IEEE day Photo contest. The programme was coordinated by Mr. T. Pasupathi, AP/ECE and Mr. J. Niranjan Samuel, JRF/R&D.



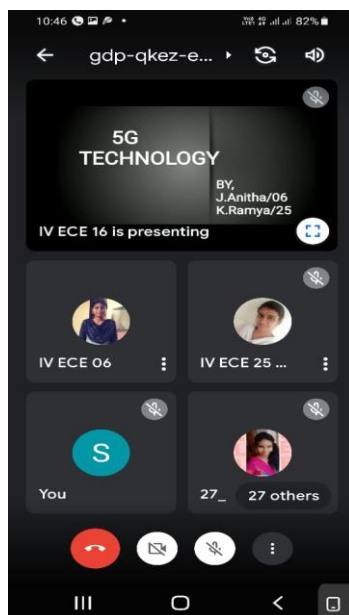
2. Electronic Art

As a part of IEEE Day Celebration, IEEE student branch of KCE organized “**Electronic Art (design contest using electronic components)**” during 27th September, 2021 to 10th October, 2021. The main objective of the programme is to build creativity among the participants. The participants should create an art using electronic components (R, L and C) and the same is received through Google form. 21 entries were received from various institutions of our region. The programme was coordinated by Mr. T. Pasupathi, AP/ECE and Mr. J. Niranjan Samuel, JRF/R&D.



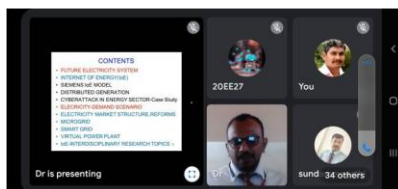
3. Paper Presentation

Department of Electronics and Communication Engineering and IEEE STB 16621 jointly organized an Intra Department Paper Presentation on the theme “**Recent Trends in Electronics and Communication Engineering**” on 09th October, 2021. 8 batches of students presented their papers on the theme. Mr. S. Ramarajan, AP/ECE and Mr. T. Pasupathi, AP/ECE acted as juries. The programme was coordinated by Mr. S. Sivakumar, AP/ECE.



4. Webinar on Internet of Energy

Department of Electrical & Electronics Engineering and IEEE STB 16621 jointly organized a webinar on “**Internet of Energy**” on 09.10.2021 between 11.00 a.m. and 12.00p.m. Mr.R.Sundaramoorthi, AP/EEE welcomed the participants. Mr.J.Arokiaraj, AP/EEE introduced the resource person. **Dr. T.Suresh Padmanabhan**, Professor/EEE, EGS Pillay Engineering College briefed about Energy scenario, basics of Internet of Things, types of Energy, Elements of IoT and current research areas in Internet of Energy. In addition, he conducted a quiz and activity session during the presentation. At the end he gave ideas for implementing Internet of Things (IoT) in distributed energy systems to optimize the efficiency of energy infrastructure and reduce wastage. At the end of the session, participants interacted with the resource person and clarified their doubts. 92 participants participated and got benefitted. The programme was coordinated by Mr.R.Sundaramoorthi, AP/EEE.

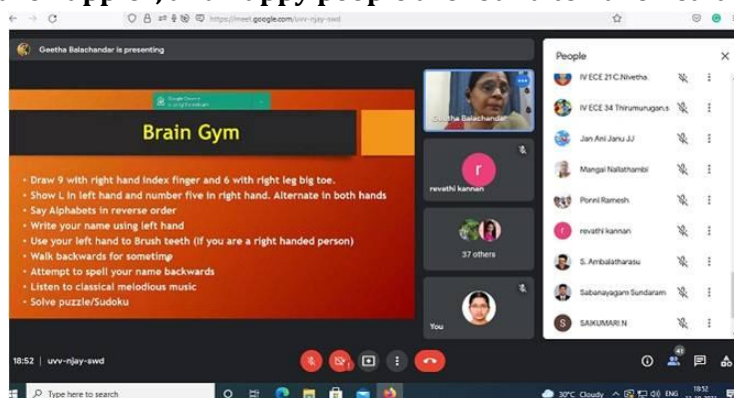


5. Webinar on Importance of Girls' Education

A webinar on “**Importance of Girls Education**” was jointly organized by Women’s Cell, POSH Cell and IEEE Student Branch on 11th October 2021 between 6.00 p.m. and 07.00 p.m. **Dr.Geetha Balachandar**, Associate Professor, Department of Mathematics, RMK College of Engineering Chennai was the resource person.

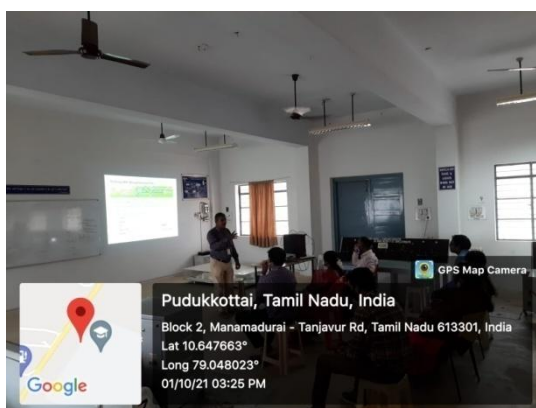
In her lecture, she explained that educating girls saves lives and builds stronger families, communities and economics. She also illustrated the importance of good academic performance and explained self learning –tools for students. She insisted to practice **Brain gym** regularly. By practicing this kind of activity, students can improve their self confidence and gain self esteem. She also interpreted the challenges faced by students and suggested ways to overcome them.

She motivated the students to know about subconscious mind and to practice yoga. She exemplified the need of the sleep and healthy food. Finally she concluded “**people with healthy habits are happier, and happy people are found to have healthier habits**”.



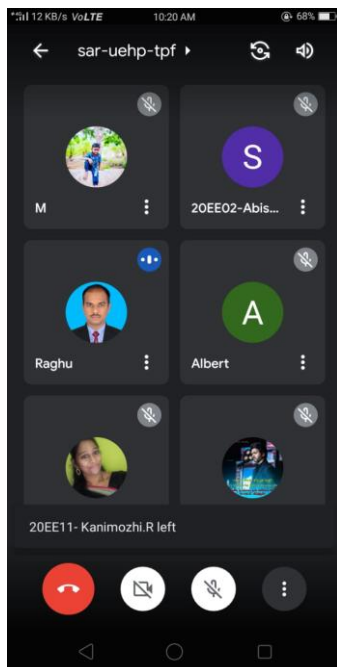
6. Seminar on Energy Management System

Department of Electrical & Electronics Engineering and IEEE STB 16621 jointly organised a seminar on **Energy Management System Using Renewable Energy System** on 01st October, 2021. Mr. J. Arokkiaraj, AP/EEE delivered lecture. In his lecture, he briefed on EMS, concept of energy management. Also he briefed Why EMS is important, How it Helps, Benefits, Advantages and Applications of EMS.



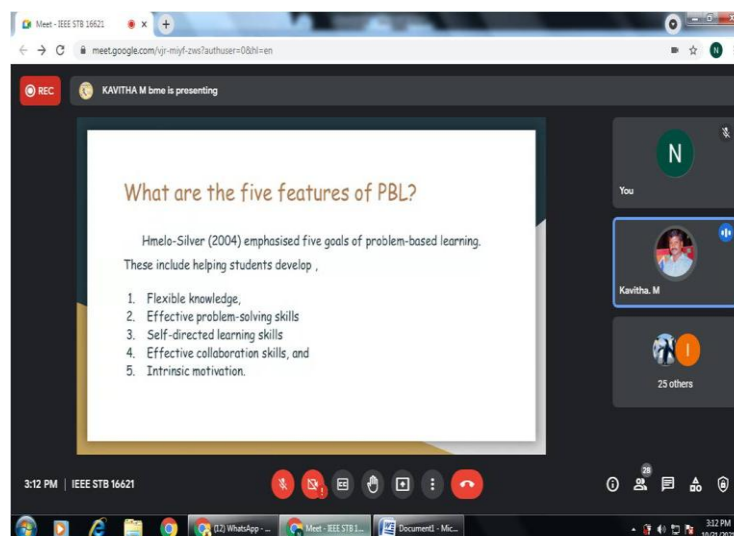
7. Symposium

Department of Electrical & Electronics Engineering and IEEE STB 16621 jointly organised National level Technical Symposium titled “**ENIGMA 2k21**” on 28th October 2021. Mrs.P.Thirumagal/AP EEE, welcomed the participants on the stream. The Symposium was inaugurated by **Mr.R.Raghuraman**, Assistant Professor, CK college of Engineering and Technology, Cuddalore and 17 papers were presented. Other technical events viz. Technical Quiz, Puzzles, Connection was also conducted. The Symposium ended with Vote of Thanks by Ms.C.Senthamilarasi, AP/EEE.



8. Webinar on Project based Learning

IEEE STB 16621 and Innovation Cell have jointly organized a webinar on “**Project Based Learning**” on 31st October, 2021 between 03: 00 p.m. and 04:00 p.m. **Ms.M.Kavitha**, Public Speaker was the resource person. The objective of the webinar is to impart in depth knowledge on Project Based Learning to the participants. Ms.S.Anusuya, II Year ECE Student welcomed the participants and introduced the resource person. In her lecture, she introduced the basic concepts of electronics projects, explored the hardware details and working principle of electronics project. She also provided a virtual demonstration of the projects. In this webinar, 35 participants participated and got benefitted. Ms. S. Aparna, IV year ECE student proposed vote of thanks. At the end of the session participants queries were addressed by the resource person. The programme was coordinated by Dr. P. Narasimman, AP/EEE & Mr. T. Pasupathi, AP/ECE.



November, 2021

1. FDP on Smart Grid- Trends And Future Perspective

Department of Electrical and Electronics Engineering organized an IEEE MAS sponsored Faculty Development Program on “Smart Grid- Trends and Future Perspective” on 08th and 09th November, 2021. **Dr.M.Meenalochani**, coordinator welcomed the dignitaries and participants. **Dr.J.Arputha Vijaya Selvi**, Principal of KCE delivered the Presidential Address. In her address, she highlighted the importance of smart grid and the role of smart grid in India. **Dr.N.Kumarappan**, Chair, IEEE Madras Section delivered inaugural address. In his address, he appreciated Kings College of Engineering for organizing such a program and welcomed all the enthusiastic participants. He explained the emergence of different types of electric grids such as micro grids, nano grids, super grids and gave an introduction to smart grid technology. He also stated that success of an FDP lies in the dissemination of knowledge gained by faculty to their students in an efficient manner. Session-I was handed by **Dr.M.Venkatakirthiga**, Associate Professor/EEE, NIT, Trichy. She gave an introduction to distributed generation and microgrids. Also she detailed about the architecture and modes of operation of microgrids. She lectured on the concepts of smart grid, its components and a brief introduction to electric vehicles. Session-II was handled by **Dr.M.Meenalochani**, AP/EEE, Kings College of Engineering. She gave an overview of human intelligence and the concepts of AI. She highlighted the real time examples of AI applications used in websites such as Amazon, Facebook, Netflix etc. where the AI based systems give recommendations to human beings based on their search. Then, she briefed her lecture on different AI techniques such as Artificial Neural Networks, fuzzy logic, computer vision, machine learning, deep learning etc. and detailed on fuzzy logic. She explained in detail about the basics of fuzzy logic, difference between fuzzy and conventional Boolean logic and the similarity between fuzzy logic and human reasoning. Finally, she concluded with the advantages and applications of fuzzy logic in real time.

Session 3 was handled by Dr.R.Arulraj, AP/EEE, Kings College of Engineering. He lectured on the basics of optimization and how to solve any optimization problem. He explained real time applications of optimization problems and the methods for solving those problems. He detailed on the terminology in optimization such as objective function, decision variables, constraints etc. with examples. He provided an in-depth knowledge on formation of objective function for any optimization problem. He gave an introduction to genetic algorithm for solving an optimization problem. Session 4 was handled by was Dr.N.Kumarappan, Chair, IEEE MAS and Professor/EEE, Annamalai University. He delivered his lecture on grid to vehicle integration using hybrid optimization techniques. He clearly explained the bidirectional transfer of power in interconnected systems. The participants were taught about the basics of hybrid optimization algorithm used for vehicle to grid power transfer. The hybrid algorithm utilizes the benefits of Tabu search as well as binary Particle Swarm Optimization. The algorithm aims to reduce the operating cost and emissions and increase the reserving capacity of the vehicle. Mr.T.Pasupathi, AP/ECE and IEEE SB In-charge, delivered Vote of thanks.



2. Webinar on Know about Overseas Recruitment and Studies

A Webinar on **Know about Overseas Recruitment and Studies** was jointly organized by Alumni Association and IEEE Student Branch 16621 on 13-11-2021, to motivate the students towards overseas placement, studies and recent openings in overseas job market. **Mrs.Jayasree Varadharajan**, PG Scholar, Satellite Data Science from University of Leicester, England (U.K.) was the resource person, an alumna of PG VLSI Design 2012-14 Batch. Mr.P.RajaPirian, Vice President, Alumni Association welcomed the resource person and participants. Ms.G.DhivyaBharathi, IV year Computer Science and Engineering student and IEEE Student Member introduced the resource person. She initiated her lecture, why overseas job and what are the benefits of overseas studies, she explained the expectations from fresher's for overseas recruitments and how internship helps to achieve overseas job. She elaborated the necessity of language proficiency tests like IELTS Academic, TOFEL, PTE Academic and GRE. She also explained how students have to choose their career and gave guidelines for availing scholarships provided by Universities. She listed top 10 study destinations in the world and concluded with UK education system and the procedure to get admitted. During the interaction session, many participants clarified their queries. Totally 90 students participated in the webinar. **Mr.P.Raja Pirian**, delivered the vote of thanks.



3. Technical Puzzles – Electrical Engineering

Department of Electrical and Electronics Engineering and IEEE STB 16621 jointly organized **Connection** for first year students to build their practical knowledge in the field of Electrical Engineering on 15.11.2021. The event was useful to the participants in knowing about words related to Electrical Engineering through a picture. As we naturally remember visual cues better than words, the participants would have gained more knowledge. **Dr.M.Meenalochani**, AP/EEE coordinated the event.



4. Seminar on Personality Development - Leadership qualities and Effective Learning Practices

Department of Electronics and Communication Engineering and IEEE Student Branch 16621 jointly organized a seminar on **Personality Development - Leadership qualities and Effective Learning Practices** on 17.11.2021. **Mr. P. Raja Pirian**, AP/ECE delivered lecture. In his lecture, he briefed on leadership qualities, leadership skills and negative effects of social media. He concluded his lecture with the saying, Good Personality arises from a healthy body and healthy mind and it is possible through several paths: paths of service, intellectual analysis and devotion or meditation.



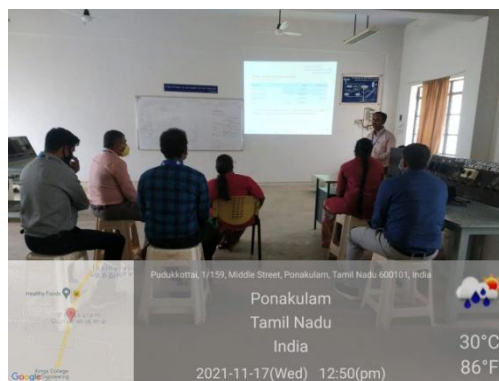
5. Awareness talk about IEEE Student Membership Awareness and Benefits

Department of Computer Science and Engineering and IEEE SBC 16621 had organized awareness talk on “**IEEE Student Membership Awareness and Benefits**” on 17.11.2021. Mr. S. Puvaneswari, AP/CSE delivered the talk. In her lecture, she listed the benefits of IEEE Student and how students can enrich their knowledge through IEEE. This event gave information about how to get Network with other technology professionals and create a group to share and collaborate on recent technological developments. **Mrs. R. Suganthalakshmi**, AP/CSE coordinated the event.



6. Seminar on Generation of Power using Gravity

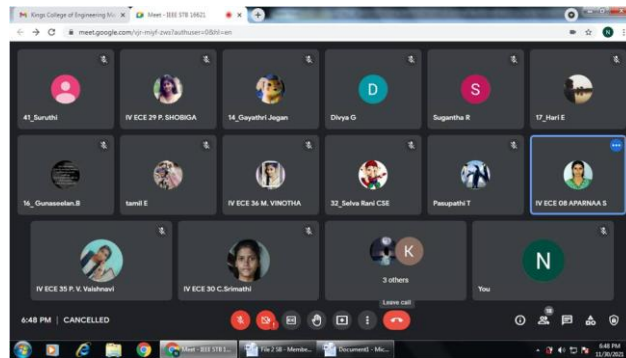
Department of EEE and IEEE STB 16621 jointly organized a Seminar on **Generation of Power using Gravity** on 17.11.2021. **Mr. S. R. Karthikeyan**, AP/EEE delivered lecture. In his lecture, he discussed merits and demerits of various renewable energies and also explained the importance of gravity based power generator. He pointed out the recent research about gravity based power generation in the name of perpetual motion. In his presentation, he listed that as per the statistics of Ministry of Power, Government of India, as on 14.03.2021, 53% of coal and 24.5% of renewable energy sources are used for power generation. Also, he presented the merits of gravitational based power generation system and gravitational energy is uniform, continuous and independent of atmospheric conditions and geometrical areas.



7. Student Activity Committee meet

IEEE SB organized **Student Activity Committee meet** on 30th November, 2021 from 06.30 p.m. to 07.30 p.m. Ms. S. Aparnaa, Chairman welcomed the gathering and deliberated the Agenda. In this meeting, IEEE members discussed about the events to be organized and shared their views for the upcoming year.

Mr. T. Pasupathi, AP/ECE and incharge of SBC-16621 insisted members to participate in other SB's and section events and to work on projects and scientific papers. Around 20 participants participated in the meeting. Ms. S. Aparnaa coordinated the meet.



December, 2021

1. IEEE Student Branch organized Technical Quiz Series – 02 “**Electronics**” on 01st December, 2021 in Physical mode. This contest was conducted to test the understanding of the student in core subjects. There were totally two rounds, one is preliminary round with twenty five sets of multiple choice questions and three teams were selected for final round. Final round was a Circuit Debugging Round. Appreciation certificates were provided to the top performers. The event was coordinated by Mr. T. Pasupathi, AP/ECE & Mr. S. Sivakumar, AP/ECE.



2. Department of EEE & IEEE STB jointly organized Internal Seminar on “Optimal Installation of Multiple DG Units Using Competitive Swarm Optimizer (CSO) Algorithm” for faculty members on 08.12.2021. **Dr. R. Arulraj**, AP/EEE, KCE delivered lecture. In his presentation, he discussed the importance of evolutionary algorithm in the field of Power System Engineering. He explained the importance of Competitive Swarm Optimizer algorithm which is an enhanced and modified version of Particle Swarm Optimization algorithm. He pointed out the drawbacks and weakness in Particle Swarm Optimization algorithm and how it is eliminated in the improved version of Competitive Swarm Optimizer algorithm while solving large scale optimization problems. Finally he demonstrated the application of Competitive Swarm Optimizer algorithm in solving large scale optimization problems in different Engineering domains. At the end of the session faculties asked questions regarding implementation of Competitive Swarm Optimizer algorithm in different areas of Power Engineering

and also expressed their willingness to publish research papers using Competitive Swarm Optimizer algorithm in near future.



3. Internal seminar for the faculty of Electrical and Electronics Engineering Department was conducted on 08.12.2021 from 3.30 P.M to 4.30 P.M in Electrical Machines Lab. Dr. A. Albert Martin Ruban, Professor/EEE delivered the lecture on the topic **“Distributed Energy Trading in Smart Grid Over Directed Communication Network”**. He explained about distributed solution for energy trading in smart grid with voltage and congestion management. He also presented about the energy trading formulated with a distributed consensus algorithm to optimize both generation and demand-side cost functions based on incremental cost. The paper is mainly focused on an efficient consensus based distributed ET algorithm and it was designed over the least number of directed communication links considering voltage and congestion management. The effectiveness of the ET algorithm was justified through Simulations in IEEE 14, 39 and 69-bussystems.



4. Internal seminar for the faculty of Electronics and Communication Engineering Department was conducted on 16.12.2021 from 3.00 P.M to 4.00 P.M in ECE Smart Classroom. Mr. T. Pasupathi, AP/ECE delivered the lecture on the topic **Design of higher order tip-tilt mitigation system using wavefront sensorless Adaptive optics system in Terrestrial Free Space Optical Communication**. In his presentation he briefed the introduction, features and applications of Free Space Optical Communication system. Also he explained the design of FSOC transmitter, receiver and the challenges faced during the design of FSOC system.



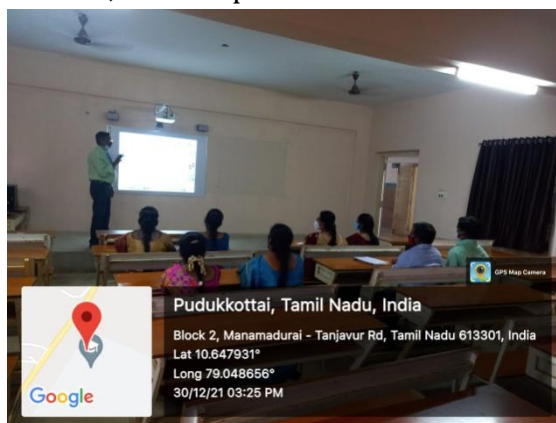
5. As a part of Energy Conservation week, IEEE student branch of KCE organized a programme on **Energy Conservation** on 21st December, 2021 between 11:00 a.m. and 12:00 noon in hybrid mode at ECE Smart classroom. **Mr. S. Alexander**, Assistant Engineer, Tamil Nadu Public Works Department, Thanjavur was the resource person. **Mr. T. Pasupathi**, AP/ECE & Incharge IEEE STB 16621 welcomed and introduced the resource person. Mr. S. Alexander, in his lecture briefed about the strategies involved in effective utilization of electrical energy. Also he discussed on energy conservation from electrical perspective, power factor calculation and correction techniques. While concluding his lecture he listed the features of APFC panel. Mr. Thirumurugan, IV year ECE student proposed vote of thanks. 36 students participated and got benefitted. The event was coordinated by Mr. T. Pasupathi, AP/ECE & Mr. J. Niranjana Samuel, JRF/ECE-R&D.



6. Department of Electronics and Communication Engineering, has organized a one day workshop titled "**Skill Sets for Electronics Engineers in Core Field**" on 24th December 2021. Totally 80 students have enthusiastically participated in this workshop. **Ms. G. Latchayashri**, student of final ECE, welcomed the gathering **Mrs.N.Mangaiyarkarasi**, HOD/ECE delivered the felicitation address and emphasized that, this workshop will provide more knowledge about the various technical skills and the future scope for electronics engineers. **Ms.K.Gayathri**, student of third ECE introduced the chief guest. **Mr.S.Dinesh Sundar**, Alumni of Kings, Software Developer, VVDN Technologies, Gurugram, Haryana was the resource person. In his lecture, he gave an overview about the various technical skills and various job opportunities in embedded systems. How to get prepared for the interview? To face the interview, what are the main technical skills and languages needed? What are the companies available to work in our core field? What are the opportunities and ways to Electronics core Industry?. Finally he told that, many vacancies are there in the core sector. Finally, Event coordinator Mr.P.Rajapirian, AP/ECE delivered the vote of thanks.



7. Department of Computer Science & Engineering and IEEE Student Branch jointly organized internal staff seminar on 30.12.2021 from 3.15 p.m. to 3.45 p.m. at Smart Classroom. Dr.D.Sivakumar, AP/CSE delivered lecture on the topic **“Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo Search optimization algorithm for wireless sensor networks”**. He explained how the cuckoo behaved in real time likewise the cluster head will be chosen. The node which has the high energy becomes the cluster head. To choose the node as cluster head, various parameters will be considered.



January, 2022

1. Write-on

NDLI Club & IEEE Student Branch jointly organized **‘Write-on’** during 02nd January, 2022 to 08th January, 2022. The topics given for the contest are Power Scenario in Tamil Nadu-2021, Water Crisis in Tamil Nadu and Solution, Industrial Development in Tamil Nadu and Human Resource Development Initiatives in Tamil Nadu. 32 students participated and submitted their presentations through Google forms. The programme was coordinated by Dr. S. Sivakumar, Advisor / IEEE STB, KCE & Mr. J. Srinivasan, Librarian.

2. Awareness Talk on **Empowering Youth as a Promising Leader**

On 12th January on the birthday of Swami Vivekananda, as a mark of befitting respect to Swami Vivekananda, YRC, RRC & IEEE STB of our college, jointly organized an Awareness Talk on **‘Empowering Youth as a Promising Leader’**. The event began with the welcome address by Mrs.T.Gnanajeya, Academic Coordinator. This was followed by a speech from Dr.S.Sivakumar, Vice Principal / Advisor – IEEE STB and Dr.J.Arputha Vijaya Selvi, Principal & IEEE SBC elucidated the importance of Swami Vivekananda’s teachings in the fast paced

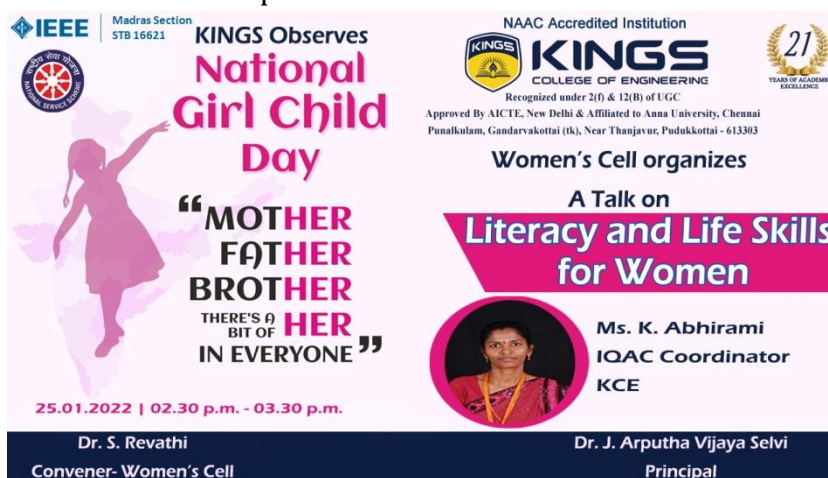
life of today's youth. **Mr.B.Ashvanth**, Technology Analyst, Infosys, Treasurer, IEEE Madras Young Professionals, delivered lecture on '**Empowering Youth as a Promising Leader**'. The Guest was introduced to the participants by Mr.G.Dinesh, YRC/RRC Coordinator. Mr.B.Ashvanth discussed the meaning of real success which is attained only when we do something meaningful in our lives and derive pleasure from deeds and not just money. In this context he also talked of social entrepreneurship and gave several examples as well. His talk was interesting filled with real examples. Mr.P.Jaya Prasad, YRC Volunteer, delivered vote of thanks.



3. Talk on Literacy and Life Skills for Women

National Girl Child Day is observed on 24th January every year, in this context a talk on **Literacy and Life Skills for Women** was organized on 25th January, 2022.

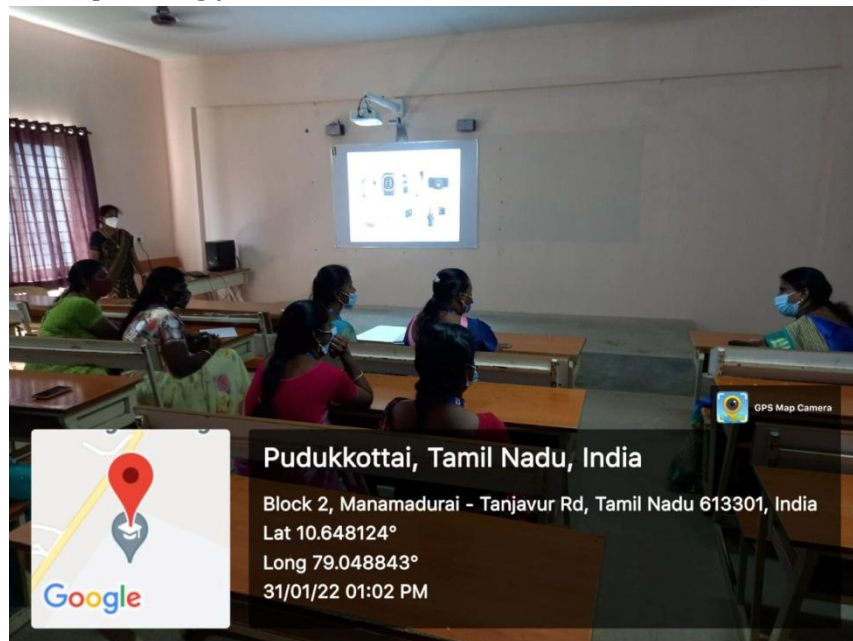
Dr. S. Revathi, convener/Women's Cell welcomed the gathering and introduced the resource person. Ms. K. Abhirami, IQAC coordinator, KCE delivered lecture. In her lecture, she highlighted the "FIRST WOMEN" in various fields and "WOMEN WHO CHANGED THE FACE OF INDIA". While concluding she stressed on the "Women Empowerment" and participants were motivated for better aspirations.



4. Seminar on IoT based Application in Healthcare Devices

Department of Computer Science & Engineering and STB 16621 jointly organized a seminar for faculty of CSE department on 31.1.2022. Ms.R.Shanthi, AP/CSE

delivered lecture on “IoT based Application in Healthcare Devices”. She explained the architecture of HIoT and technologies involved in HIoT. She described the services and the applications of HIoT. She concluded the seminar with challenges and issues in HIoT technologies to provide smart healthcare application in upcoming years.



February, 2022

1. Circuit Debugging

Department of Electronics and Communication Engineering and IEEE STB 16621 organized Circuit Debugging through Google forms. This contest was conducted to test the understanding of the student in core subjects. There were twenty five multiple choice questions. Mr. S. Santhosh, Kongu Engineering College secured first position, Ms. R. Jothika, Kings College of Engineering secured second position and Ms. K. jeyasri, Sri Bharathi Engineering College for Women secured third position. The event was coordinated by Mr. P. Raja Pirian, AP/ECE, Mr. S. Sivakumar, AP/ECE and Ms. S. Aparnaa, SB Chairman, STB 16221. 50 students participated and got benefitted.



2. Preparatory Workshop and Meeting for NBA

IEEE STB organized a “Preparatory Workshop and Meeting for NBA” under the aegis of AICTE Margadarshan scheme by experts from its mentor institute NIT, Trichy. For the Preparatory workshop, expert team members Dr.M.Venkatakirithiga, Associate Professor, Dept. of EEE, Dr.M.Brindha, Assistant Professor, Dept. of CSE, Dr.G.Lakshmi Narayanan, Professor, Dept. of ECE, Dr.R.K.Kavitha, Assistant Professor, Dept. of ECE, Dr.T.Ramesh, Associate Professor, Dept. of Mechanical Engineering and Dr.N.Siva Shanmugam, Associate Professor, Dept. of Mechanical Engineering addressed each group. During the workshop, experts highlighted on NBA criterionwise strengthening aspects. Meeting the criterion parameters, filewise suggestions were also made programmewise by the expert team criterionwise strengthening aspects to meet NBA accreditation leading to improvement in respective academic process. **Dr.J.Arputha Vijaya Selvi**, Principal & IEEE SBC, KCE offered felicitations. **Dr.S.Sivakumar**, Vice-Principal, HODs and faculty members participated in the programme. Department HoDs, IQAC Coordinator, IQAC member of the department and staff members attended the workshop and audit session.

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21 YEARS OF ACADEMIC EXCELLENCE

IEEE

Madras Section STB 16621

INSTITUTION'S INNOVATION COUNCIL

Preparatory Workshop and Meeting for NBA
under the Aegis of AICTE, Margadarshan Scheme, NIT, Tiruchirappalli
11.02.2022 (Friday) 10.00 a.m. - 04.00 p.m.

Expert Team Members:

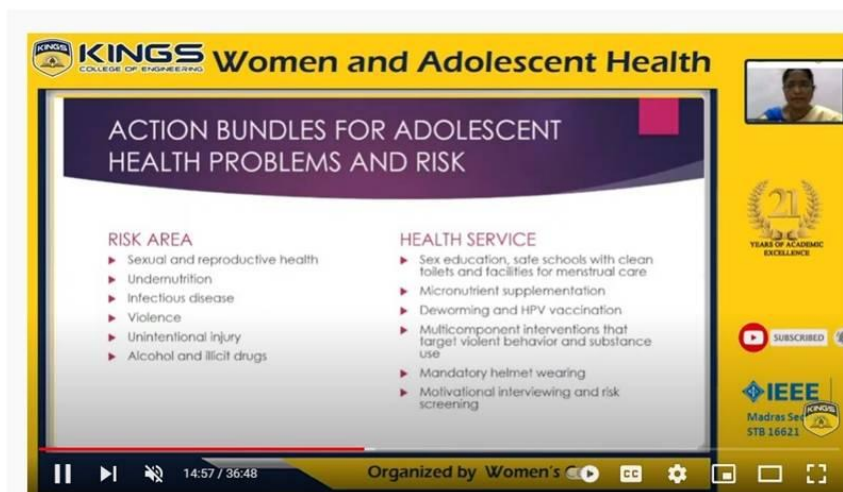
- Dr.G.Lakshmi Narayanan
Professor/ECE
- Dr.R.K.Kavitha
AP/ECE
- Dr.T.Ramesh
Assoc. Prof./MECH
- Dr.N.Siva Shanmugam
Assoc. Prof./MECH
- Dr.M.Brindha
AP/CSE
- Dr.M.Venkatakirithiga
Assoc. Prof./EEE

Coordinators:
Ms. K. Abhirami, IQAC Coordinator / Dr. M. Meenalochani, AP/EEE

Principal:
Dr. J. Arputha Vijaya Selvi

3. Women and Adolescent Health

Women's Cell and IEEE STB 16621 organized a webinar on “**Women and Adolescent Health**” 12th February 2022. Dr. S. Revathi, convener women's cell welcomed and introduced the resource person. **Dr.S.Jesintha**, Paediatrician, Thanjavur was the resource person and explained about health, Positive health, Action Bundles for adolescent health problems and risk, adolescent screening recommendations and healthy development of adolescent. This webinar created awareness among the students on adolescent health problem, risks and interventions to prevent high-risk behaviors and promote adolescent health.



4. Handling Customers with Care

The Department of Training and Placement and IEEE STB 16621 jointly organized a session "**Handling Stakeholders with Care**" on 14th February 2022 for imparting knowledge to the staff members in order to help them to develop professional attitudes needed for dealing with institute stakeholders. Dr. K. Sudhakar and Mr. B. Sureshbabu spoke on the significance of attitude when dealing with stakeholders to make them satisfied. Dr.K. Sudhakar urged the participants to follow the rules and regulations of our institute to serve stakeholders properly. Similarly, Mr. B Sureshbabu pointed out the need for non-teaching employees to develop their skills and attitudes to provide service to stakeholders to the best of their abilities. Finally, participants interacted effectively with resource persons and feedback was collected.



5. Integrating PCE Activity in Classroom Teaching

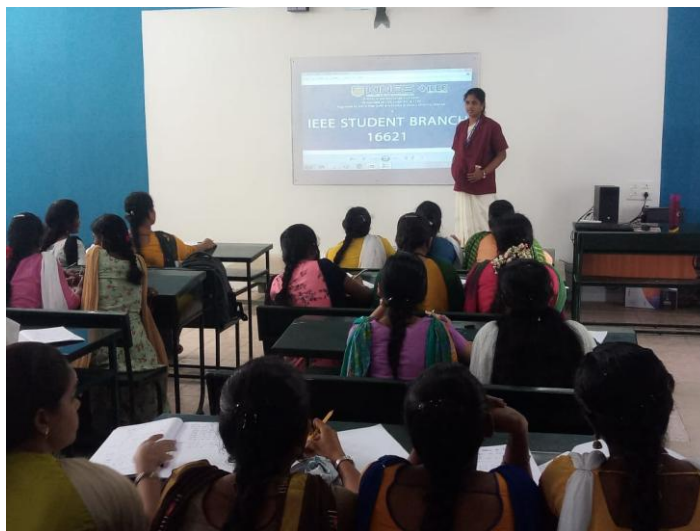
Two day FDP on "Integrating PCE skills into Classroom Teaching" was jointly organized by IEEE STB 16621 and IQAC, KCE on 16th and 17th February, 2022. Ms.K.Abhirami, IQAC Coordinator welcomed the gathering and briefed on the objective of the FDP. Dr. J. Arputha Vijaya Selvi, Principal and SBC- IEEE STB presided over the FDP and delivered inaugural address. Dr.S.Sivakumar, Vice Principal and Advisor/IEEE STB delivered special address. Demonstration on "KAHOOT APP" was given by Mr.M.ASWIN, AP/MECH. Various team activities such as mind mapping, brain storming and Rapid fire session were organized.

Mrs.K.Abhirami, delivered lecture on PCE skills. Later, Mrs.R.Sugantha lakshmi, AP/CSE explained about Quizalize software, Mr.K.Arun, AP/CIVIL explained about J Cross software and Mrs.D.Vennila, AP/ECE explained about EDMODO software. During the FDP Dr.J.Arputha Vijaya Selvi, Principal and Dr.S.Sivakumar, Vice Principal interacted with the faculty members. Mrs.K.Abhirami concluded the FDP with her closing remarks. At the end of the FDP, certificates were issued to all the participants. Best team - Runner up, Best team – Winners and Best Performer Award were issued.



6. Winter Crash Course

Department of Electronics and Communication Engineering and IEEE STB 16621 organized 30 hours Winter Crash Course on **Embedded C Programming** from 16.02.2022 to 25.02.2022 in offline mode. Sessions were handled by Mr. T. Jeyaseelan, AP/ECE, Mr. T. Pasupathi, AP/ECE and Mr. P. Rajasekar, V3 Technologies, Thanjavur. During the course hands-on-session was provided by V3 Technologies.



7. FDP on Moodle Learning Management System

Internal Quality Assurance Cell & IEEE STB organized Faculty Development Programme on **“Moodle Learning Management System”** in Association with IIT Bombay sponsored by MHRD enhancing FOSS skills of our faculty members was organized on 26.02.2022. Moodle is a learning platform designed to provide

educators, administrators and learners with a **single robust, secure and integrated system** to create personalised learning environments. Moodle delivers a powerful set of learner-centric tools and collaborative learning environments that empower both teaching and learning. Total of 74 faculty members participated in the FDP and got benefitted.



8. National Science Day Celebrations

In view of National Science Day'2022, R&D Section in association with Department of Science & Humanities, IEEE Student Branch and MoE – IIC organized **Sir C.V. Raman Science Expo 2022** on 28.02.2022. Dr. R. Rajendran, Secretary inaugurated the expo in the presence of Dr. J. Arputha Vijaya Selvi, Principal & IEEE SBC 16621. More than 10 models were exhibited by the students. A panel of juries evaluated the exhibits on various criteria. Faculty and students visited the expo and gained knowledge. Best three projects were awarded with cash prize and certificates. Participation certificate was provided to all participants. Dr. R. Suresh, AP/Mathematics and Mr. T. Pasupathi, AP/ECE coordinated the event.



1. Awareness on Energy Audit

Energy Club in association with IEEE STB 16621 organized an Awareness Programme on Energy Audit on 04th March, 2022. Dr. S. Sivakumar, Vice Principal & Advisor IEEE STB 16621 delivered welcome address and introduced the resource person. Dr. S. Sivarasu, Lead Auditor, Ram Kalam – Centre for Energy Consultancy & Training, Coimbatore delivered lecture. In his lecture, he briefed on predicting the energy consumption, need for energy audit and its advantages and preventive measures to reduce energy consumption. At the end of his lecture, a few case studies were discussed. The event was coordinated by Mr. J. Arokkiaraj, AP/EEE.



2. Talk on Successful Women Entrepreneur

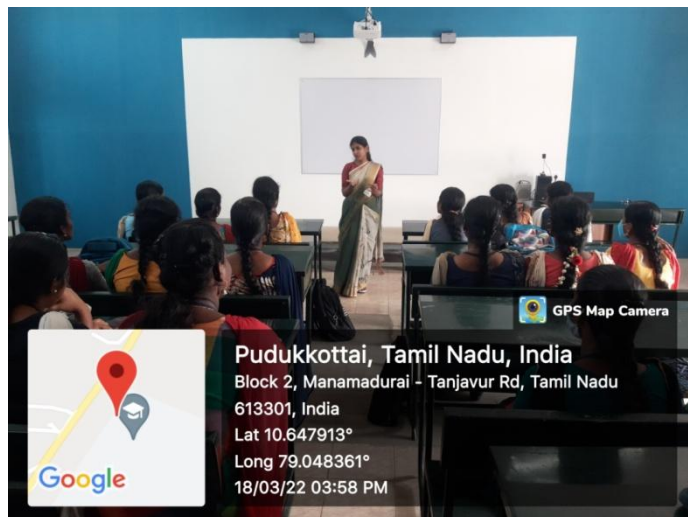
Women's Cell in association with IEEE STB 16621 organized a guest lecture on **"Successful Women Entrepreneur"** on 08th March 2022. **Mrs. Rajeswari Ravikumar, Suga Diet Natural Foods, Thiruvaiyaru** was the resource person. In her lecture, she explained that reading books apart from subject will help to overcome negative comments from our society. Confidence is very essential to become successful person in any field. Dr. J. Arputha Vijaya Selvi, Principal and IEEE STB SBC presided over the function and delivered presidential address.



3. Alumni Talk on Preparedness towards Core Opportunities

Department of ECE in association with IEEE STB 16621 organized an Alumni Talk on 18th March, 2022. Mr. S. Aparnaa, IEEE Student Branch Chairman

delivered welcome address and introduced the resource person. Ms. L. Mowli, Director, Taste of English, Thanjavur was the resource person. In her lecture, she briefed on Scope in the Job market viz. Competitive Exams, MNC Banks, Corporates, Entrepreneurship, Personal Branding etc and certification courses for enhancing resumes. Also she gave general Tips on Life and Savings and Self Introduction Hacks. The programme was coordinated by Mr. S. Sivakumar, AP/ECE.



4. Seminar on Smart Grids

Department of Electrical and Electronics Engineering in association with IEEE STB 16621 organized a seminar on Smart Grid - Revolutionizing our Energy Future. In his lecture, he addressed on the Smart Grid, Smart Grid – Basic Concepts, Smart Grid Attributes, Advanced Metering Infrastructure and Advanced Components and Subsystems. While concluding his presentation, he briefed on the Future Electric Grid.



5. Webinar on How to approach Corporate Companies for Jobs

Department of Training and Placement in association with IEEE STB 16621 and IIC organized a webinar on How to Approach Corporate for Jobs on 25th March, 2022. Dr. Girish Jakhotiya, Chief Consultant, Jakhotiya & Associates and Former Professor, JBIMS, Mumbai was the resource person. Dr. S. Sivakumar, Vice Principal & Advisor IEEE STB 16621 delivered welcome address and introduced the resource person. Dr. Girish in his lecture briefed on Communication, establishing network with domain experts, gain problem

solving and analytical skills. Mr. B. Suresh Babu, AP/T&P delivered vote of thanks.



April, 2022

1. Seminar on PI Controlling of Air Conditioning System

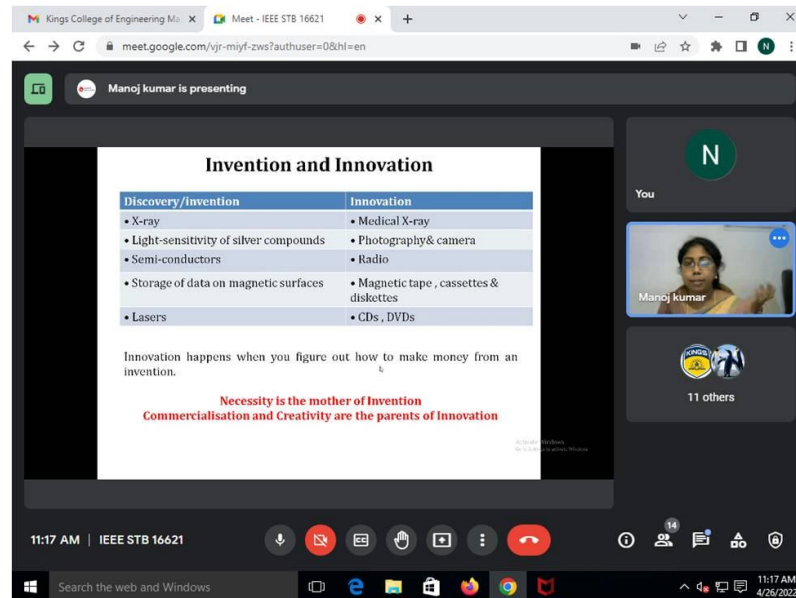
Department of Electrical and Electronics Engineering in association with IEEE STB 16621 organized a seminar on **PI Controlling of Air Conditioning System** on 28.04.2022. Mr.S.R.Karthikeyan, AP/EEE delivered lecture. In his lecture, he briefed on the development of a new adaptive PI controller for use in HVAC systems. Also, he described that process of HVAC control can be described as a first order plus dead time model. A kind of arithmetic of Recursive Least Squares (RLS) with exponential forgetting combined with model matching of a zero frequency method is adopted to estimate the model's parameters while the system remained in closed loop. A simple tuning formula for a PI controller with robustness based on the estimated parameters is used to adjust the controller's parameters automatically while under closed loop.



2. Seminar on Intellectual Property Day

Research and Development section in association with IEEE STB 16621 and Institution's Innovation Council has organized a seminar on **"World Intellectual Property Day"** on 26th April, 2022. The objective of this webinar is to impart in depth knowledge on Patents, trademarks and copyrights. Mrs.D.R.Saranya, AP/CSE, KCE welcomed the participants and Ms.K.Elakkiya, AP /Civil Engineering, KCE introduced the resource person. In this lecture, she clearly

explained about patent, types of patent and the difference between patent and copyright. Her lecture clearly depicted how to identify problems, idea/solution for a problem and the methodology of developing a product/service for the problem. She also explained how to patent the developed product/service. In this seminar, 220 participants from various Institutions including the internal participants participated and got benefitted. Participant's queries were addressed by the resource person at the end of the session.



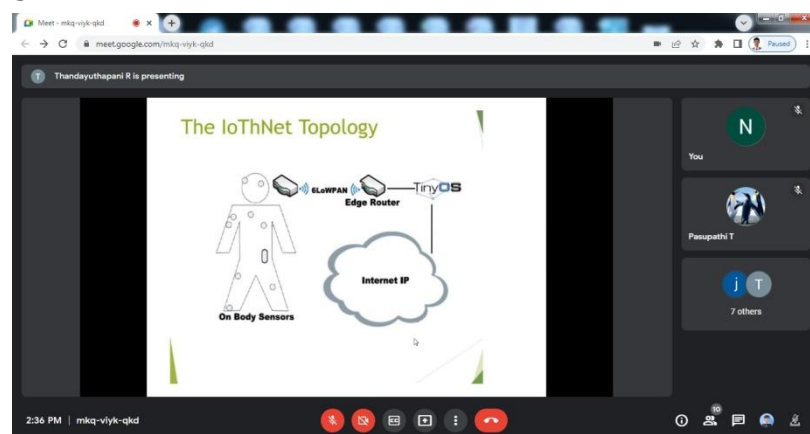
3. Seminar on Internet of Federated Things

Department of Electrical and Electronics Engineering in association with IEEE STB 16621 organized a seminar on 29.04.22. Dr.M.Meenalochani, AP/EEE delivered lecture. In her lecture, she illustrated that Unmanned Aerial Vehicles (UAVs) have recently received significant attention by the civilian and military community, mostly due to the fast growth of UAV technologies supported by wireless communications and networking. Also, UAVs can be used to improve the efficiency and performance of the Internet of Things (IoT) in terms of connectivity, coverage, reliability, stability, etc. In particular, to support IoT applications in an efficient manner, UAVs should be organized as a Flying Ad-hoc NETwork (FANET). FANET is a subclass of Mobile Ad-hoc Network (MANET) where nodes are Unmanned Artifact Systems (UAS). However, the deployment of UAVs in IoT is limited by several constraints, such as limited resource capacity of UAVs and ground devices, signal collision and interference, intermittent availability of the IoT infrastructure, etc.



4. Seminar on IOT in Agriculture Applications using Wireless Sensor Network

Department of Electronics and Communication Engineering in association with IEEE STB 16621 organized a seminar on **IOT in Agriculture Applications using Wireless Sensor Network** on 22.04.2022. Mr. R. Thandayuthapani, AP/ECE delivered lecture. In his lecture, he briefed that Internet of Things (IoT) is a potential technology which provide quality service using sensors and devices in the health and environment sectors. This seminar aims to apply optimization algorithms for optimizing IoT-based network deployment through the use of wireless sensor networks (WSNs). In his presentation, in the first part WSN deployment research studies in health and environment applications are reviewed including fire monitoring, precise agriculture, telemonitoring, smart home, and hospital. In the second part, the WSN deployment process is modeled to optimize the lifetime of sensors. Finally the performances of the algorithms are compared for the evaluation of WSN deployment in health and environment applications.



5. Mini Project Expo

Department of Computer Science and Engineering in association with IEEE STB 16621, Coding Club and Multimedia Club organized Mini Project Expo on 29.04.2022. The main objective of the expo was to create the awareness among the students about software projects. 20 projects were exhibited in the expo. The contest was inaugurated by Dr. J. Arputha Vijaya Selvi, Principal / IEEE Student Branch Counselor and Dr. S. Sivakumar, Vice Principal / Advisor – STB, KCE. The exhibits were evaluated by three member panel and marks were awarded based on various criterions. First Prize was won by M. Suriya Prakash

and Mr. S. Ajay for the project titled **“Gate Pass for Academic Management System”**, second prize was won by Mr. D. Deepak kumar and Mr. G. Krishna kumar for the project titled **“Attendance Management System”** and third prize was won by Mr. A. Mohammed Asick and Mr. K.P. Kumaresan for the project titled **“Kings Restaurant”**. The event was coordinated by Mr. S. Rajarajan, AP/CSE and Mr. M. Arun, AP/CSE.



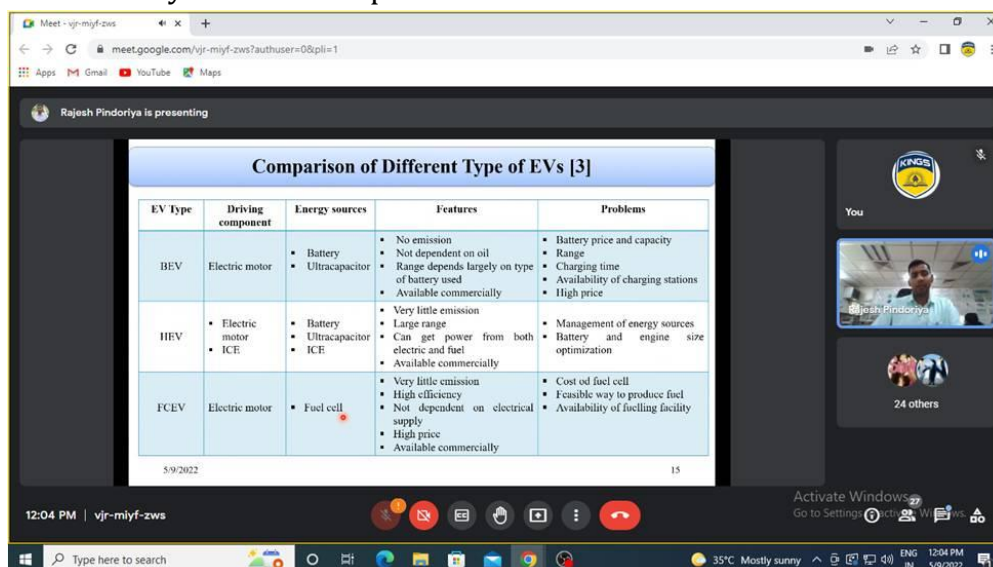
May, 2022

1. Expert Talk on Seminar on Evaluation of Electric Vehicles, Future Challenges & Opportunities

Research and Development section in association with IEEE STB 16621 has organized an Expert talk on **“Evaluation of Electric Vehicles, Future Challenges & Opportunities”** on 09th May, 2022 in view of National Technology day. The objective of this talk is to impart in depth knowledge on Electric Vehicles, Challenges during the design and Opportunities. Ms.S.Aparnaa, Final Year ECE / IEEE SB Chairman welcomed the participants and Ms.K.Gayathri, Third year ECE / SM IEEE introduced the resource person. **Dr. Rajesh M. Pindoriya**, Project Engineer at IIT Mandi, India, delivered lecture. In his lecture, he covered the following topics,

- Working of Electric Vehicle
- Electric Vehicle hardware - Fundamentals of motor components and its functioning,
- Communication and coordination
- Electric vehicle supply equipment (EVSE) standards
- EV battery and fire safety standards
- Installation and EV equipment issues
- Practical Demonstration of EV charging components, motor
- Challenges & Opportunities in EV sector

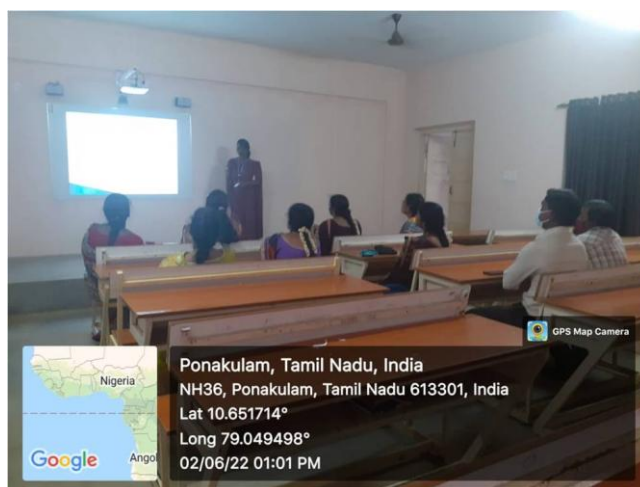
In this seminar, 167 participants from various Institutions including the internal participants participated and got benefitted. Participant's queries were addressed by the resource person at the end of the session.



June, 2022

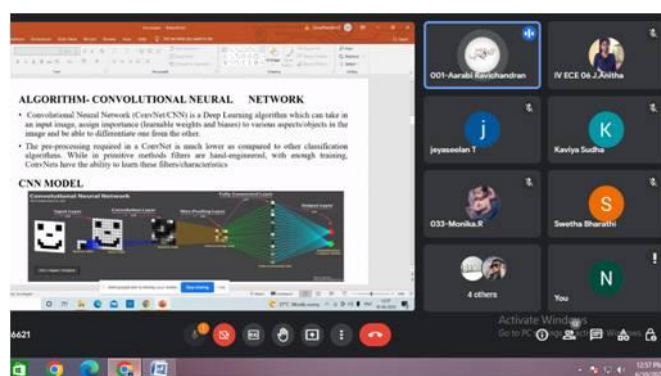
1. Seminar on Implementation of fruit quality classification application using AI Algorithm

Department of Computer Science & Engineering and IEEE Student Branch of jointly organized internal staff seminar on 02.6.2022. **Ms.S.Priyadhashini**, AP/CSE delivered lecture on the topic **"Implementation of Fruit Quality Classification Application using AI Algorithm"**. She explained the current issues to detect the quality of a fruit. She described an algorithm called **"You only look once - (YOLO)-V3"** which is used to track the quality of a fruit by tracking the image, size, height and size of a fruit. She concluded the seminar that the authors applied the Tiny - YOLO neural network model to perform object detection and compared several other models in terms of structural performance.



2. National Conference on Communication, Networking and Intelligence (NCCNI'22)

The Department of Electronics and Communication Engineering in association with IEEE STB 16621 organized National Conference on **Communication, Networking and Intelligence (NCCNI'22)** on 10th June 2022. **Mrs.N.Mangaiyarkarasi**, Head of the Department, Electronics and Communication Engineering delivered welcome address. **Mr.T.Pasupathi**, organizing secretary introduced the Chief Guest. Conference proceedings were released by Chief Guest. **Dr. Joe Louis Paul**, Assistant Professor/Information Technology, SSN College of Engineering, Chennai was the chief guest and delivered lecture on the theme of **“Living and Computing on the Edge – An Overview of Federated Learning”**. 26 papers were presented during the technical session Mr. T. Jayaseelan and Mr. P. Raja Pirian acted as juries for the presentation.



3. National Conference on Flourishing Areas in Electrical and Electronics Engineering (NACOFEE'22)

Department of Electrical and Electronics Engineering in association with IEEE STB 16621 organised National level Conference titled **NACOFEE'22** on 10th June 2022. Dr.A.Albert Martin Ruban, HOD/EEE & Convenor of NACOFEE'22 delivered welcome address. The Presidential address was delivered by Dr.J.ArputhaVijayaSelvi, the Principal & IEEE SBC, KCE. Dr.P.RAJA, Associate Professor, Department of EEE, NIT, Trichy, was the chief guest and delivered the keynote address. In his address, he lauded the Management and the academic administration of the institute for hosting a National Conference. He insisted that Electrical Engineering is a prestigious branch and also a toughest branch. He also gave a presentation on how electrical engineering has flourished over the areas and gave a deeper insight on the importance of automation in electrical engineering. Further, he demonstrated the importance of artificial intelligence and machine learning in the domain of Electrical Engineering. It was an educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics. A total of 36 papers were presented during the conference .



4. National Conference on Recent Advancements in Computers & Communication Technologies (NCRACCT'22)

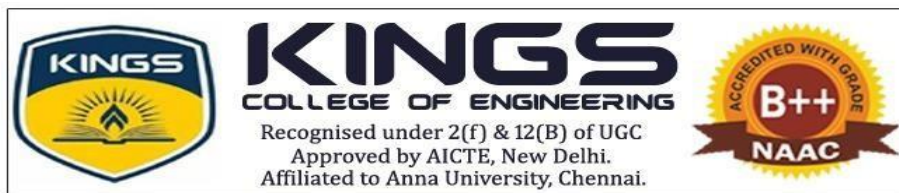
The Department of Computer Science & Engineering in association with IEEE STB 16621 organized National Conference on **Recent Advancements in Computers & Communication Technologies** (NCRACCT'22) on 10th June 2022. **Dr.S.M.Uma**, Head of the Department welcomed the gathering. Ms.R.Suganthalakshmi, AP/CSE spoke on the conference highlights and Ms.G.Chandra Praba, AP/CSE introduced the chief guest. Proceedings of the Conference were released by the chief guest and the first copy was received by our Principal. **Ms.G.Archana**, Application Developer, Accenture, Chennai delivered keynote address on “**Career Exploration for Budding Engineers**”. She highlighted on the essential skills that a student should possess for a better career and also she spotted the current industry expectations and the trending job profiles. She shared the interview process involved in various industries and also revealed the tips and tricks for clearing the interviews. She suggested the websites that are useful for interview preparation and also highlighted the importance of creating effective resume. At the end of inaugural function, Ms.G.Chandra Praba, AP/CSE, proposed vote of thanks. 24 papers were presented during the technical session Dr.S.M.Uma, Ms.K.Abhirami, Mr.S.Rajaraman, Ms.S.Puvaneswari acted as a Jury for the presentation. The evaluation was based on the presentation, concept and implementation and the answers given to the queries. After the technical session, the participants shared their feedback about the conference. Certificates were distributed to the participants.



5. KINGS Project Expo' 22

Research and Development Section, Kings College of Engineering in association with IEEE STB organized Kings Project Expo'22 on 15th June, 2022. **Dr. D. Kumar**, Professor, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur delivered keynote address and inaugurated the expo. Dr. J. Arputha Vijaya Selvi, Principal delivered Presidential Address. Dr. S. Sivakumar, Vice Principal offered felicitations. Dr. D. Kumar and Dr. R. Rajendran, Secretary, Kings College of Engineering visited the labs where projects were showcased. A total of 57 projects were showcased and were reviewed by a panel of juries on various criteria and the best project from each stream were shortlisted and awarded with cash prize and certificates. All the arrangements were made by Research and Development Section of the institute.





**ENTREPRENEURSHIP DEVELOPMENT CELL
for 2021 - 2022**

S.No	Date	Details	No. of Beneficiaries	Page No.
1.	05.02.2022	Workshop on Entrepreneurship Skills, Attitude and Behaviour and Development	76	2
2.	23.03.2022	Awareness Programme on Business Plan Preparation	150	4
3.	24.03.2022	Workshop on Entrepreneurship Courses	150	5
4.	24.03.2022	Workshop on Design Thinking	150	6
5.	25.03.2022	Workshop on Intellectual Property Rights		7
6.	28.03.2022	Product showcase summit	150	9
7.	16.12.2021	Awareness Programme on TNSI 2021 for II nd , III rd and IV Year students	425	11
8.	17.12.2021	Orientation Programme on One Million Idea awareness programme for II nd , III rd and IV Year students		
9.	18.12.2021	Awareness Programme on TNSI 2021 & Orientation Programme on One Million Idea awareness programme for I st Year students		



ANNAAC Accredited Institution
KINGS
COLLEGE OF ENGINEERING
Recognized under 2(B) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



ACADEMIC YEAR 2021-22(EVEN SEMESTER) 07.02.2022
ONLINE WEBINAR

On

**"WORKSHOP ON ENTREPRENEURSHIP SKILLS, ATTITUDE AND
BEHAVIOUR AND DEVELOPMENT"**

05.02.2022

REPORT

Entrepreneurship Development Cell and Institution's Innovation Council (IIC) of Kings College of Engineering organized a webinar on "Workshop on Entrepreneurship, Attitude and Behaviour and Development" 05.02.2022.

Objective:

In this webinar, the main objective is to motivate people for entrepreneurship and to make them a successful entrepreneur by providing input about the basic skills to be possessed by them. It provides a platform for the students to upgrade and know about the Entrepreneur skills. In addition, this programme will help them to improve their behavior required to proceed their enterprise in a successful way.

Resource person:

Mr. R. Venkatesh, Head, Care School of Business, Trichy.

Participants:

ED Cell and IIC Members - 76

Inaugural Session:

Inaugural session was started through Google Meet(online) by 02.55 p.m. presided over by Dr.J.ArputhaVijaya Selvi, President,Head of the Institution. The dignitaries during the online inaugural session were all the IIC Program Coordinators and IIC Members. The program was started with Welcome address and Introduction about the Resource Persons delivered by Mr.E.Hariharan, Student Head, ED Cell.

Highlights of the Session:

In his presentation, the resource person introduced the concept of entrepreneurship. He also discussed skills required to maximize the capabilities of an entrepreneur in order to maximize the capabilities to sustain their business. He also explained clearly what attitude an entrepreneur should develop within themselves. He also discussed how to adapt to the changing environment. During the session, the participants actively interacted with the resource person.

Benefits Interns of Learning/Skills/Knowledge obtained:

- Identification of opportunities in entrepreneurship.
- All participants gained a better understanding of entrepreneur skills.
- It helps students gain new experiences and trains them to handle a wide range of challenges.

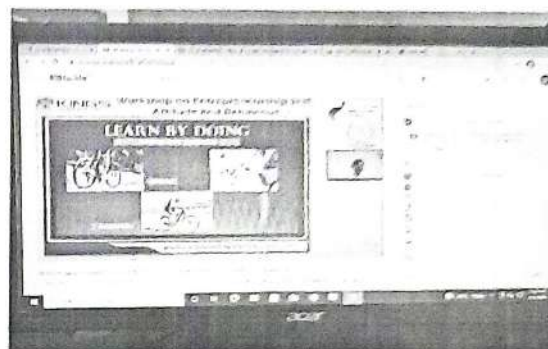
Valedictory Function:

Vote Thanks was delivered by Mr. D. Mounish Rajiah - IV ECE, Student Head / ED Cell.

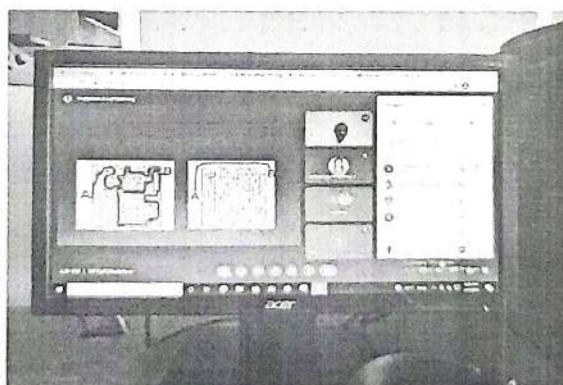
Event Photographs



Event Photograph-1



Event Photograph-2



Event Photograph-3

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Coordinator - ED Cell

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Vice President-IIC & AP/EEE

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President-IIC & Principal

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

Workshop on Business Plan Preparation

Activity Report

Entrepreneurship Development Cell and IIC of our college organized a Workshop on Business Plan Preparation on 23.03.2022, Mr. P. Saravanan, Assistant Professor, Gnanam School of Business, Sengipatti, Thanjavur, was invited as resource person. He delivered the speech and gave away hands on experience to the students in the topics given below:

The session started with company summary which is related to the nature of the business venture and the vision about the market and also the procedures to be followed for the registration and incorporation of a company.

He described the product or services through which the entrepreneurs can meet out the requirements of the customers.

He explained about the market analysis which includes the various types of business, market conditions and the competitors available in the market.

He narrated about the strategic position of a business venture, i.e., What do they have to do for the target market, and what makes the venture the best and how can they improve and maintain the loyal customer base and etc.,

He described about the organization of the business, and the key members of the management team.

Lastly, he briefed about the importance of knowing the preparation and calculation of Profit and Loss, Cash flow tables and preparation of balance sheet, sales forecast, business ratios, break-even analysis and etc.,



Mr. P. Saravanan, Assistant Professor, Gnanam School of Business, Sengipatti, Thanjavur delivering lecture



Mr. P. Saravanan during activities session

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29/3/2022
Coordinator ED Cell

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Vice President-IIC& AP/EEE

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29/3/2022
President-IIC&Principal

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

Workshop on Entrepreneurship Courses

Activity Report

Entrepreneurship Development Cell organized a Workshop on Entrepreneurship Courses for the ED Cell members on 24.03.2022 (Forenoon). Dr. B.P Upendra Roy, Business Consultant, Propelld – The Future of Education Financing, Tiruchirappalli was the resource person.


Resource person elucidated the courses available for the entrepreneurs and he listed the courses objectives and benefits.



Dr. B.P Upendra Roy, Business Consultant,
Propelld delivering lecture



A view of the participants


Coordinator ED Cell


Vice President-IIC & AP/EEE


President-IIC & Principal

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

Workshop on Design Thinking

Activity Report

Entrepreneurship Development Cell and IIC of our college organized a Workshop on Design Thinking on 24.03.2022. Mr. S. Riyasdeen, Founder & CEO, Spezar Tech Pvt., Ltd., Thanjavur, was invited as resource person.

Resource person started with general introduction about design process of successful Innovators. During the session he explained about thinking capabilities and various design process. Then he has given complete overview of critical thinking abilities and how to develop simple design to get patents. He also briefed about how to design simple product and that can be used in research applications. During the session, the participants actively interacted with the resource person.



Mr. S. Riyasdeen, Founder & CEO, Spezar Tech Pvt., Ltd., Thanjavur delivering lecture

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Coordinator ED Cell

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Vice President-IIC & AP/EEE

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29/3/2022
President-IIC & Principal

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

Workshop on Intellectual Property Rights

Activity Report

Entrepreneurship Development Cell and IIC of our college organized a Workshop on Intellectual Property Rights on 25.03.2022. Mr. B. Narasimman, Patent Holder – Drone Technology, Proprietor, Aathiyam Automation, Thanjavur, was invited as Resource Person. He delivered about the basics of Intellectual Property Rights and narrated the guidelines to be followed while applying for IPR.

He described about the law governing Intellectual Property Rights, Types of Intellectual Property Rights and he explained how he got the patent rights for his product, the role of statutory and judicial frame work in protecting the rights. He listed the stages involved in registration process to get Patent, Copyright or Trademark.

He also explained the Patent Act, Copyright Act and Trademark Act in detail.

Student participants actively interacted with the resource person and got benefited.



Mr. B. Narasimman and Dr. K. Suthakar on the dias



Mr. B. Narasimman delivering lecture

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29/3/2022
Coordinator ED Cell

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29/3/2022
Vice President-IIC & AP/EEE

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29/3/2022
President-IIC & Principal

ACADEMIC YEAR 2021-22(EVEN SEMESTER)

Product Showcase Summit

Activity Report

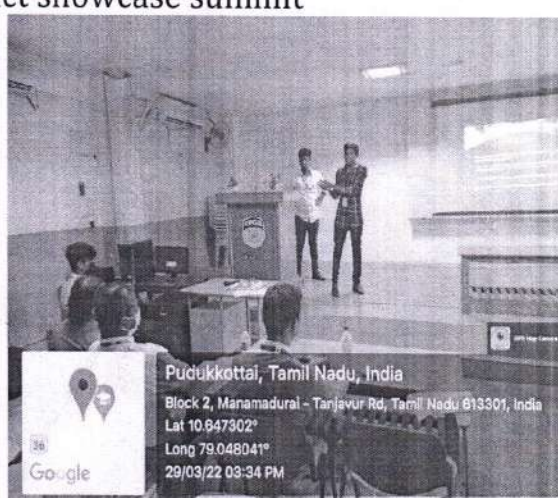
Entrepreneurship Development Cell and IIC of our college organized a product showcase summit on 28.03.2022 (Afternoon) for our college students (Tamil Nadu Student Innovators 2021 participants).

As a whole 8 teams participated in the summit and explained about their innovative ideas and the proto type model of their products to the panel of juries from our college.

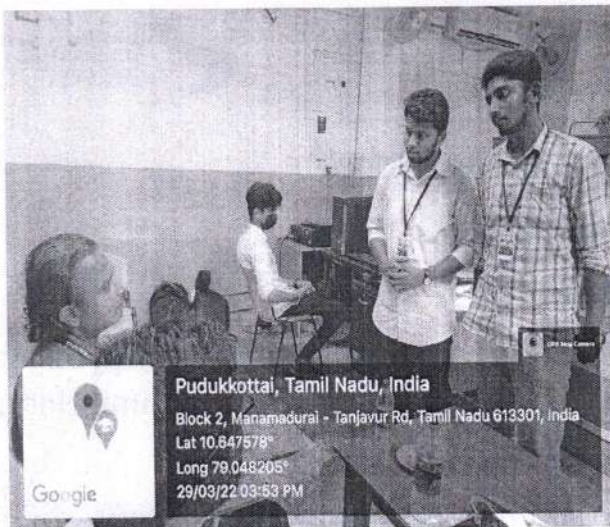
Based on the marks awarded by the Juries best idea was selected as the winner and Runners.



Students during product showcase summit



Students during product showcase summit



Students during product showcase summit

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Coordinator ED Cell

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29/3/2022
Vice President-IIC& AP/EEE

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29/3/2022
President-IIC&Principal



ACADEMIC YEAR 2021-22(EVEN SEMESTER) 20.12.2021

ONLINE WEBINAR

On

"Awareness Programme on TNSI 2021 and One Million Idea"

16/12/2021 to 18/12/2021

REPORT

Entrepreneurship Development Cell of Kings College of Engineering organized a webinar on Awareness Programme on TNSI 2021 and One Million Idea" 16/12/2021 to 18/12/2021.

Objective:

The main aim of the webinar is to create awareness about Tamil Nadu Student Innovators 2021 and One Million Idea concept introduced by the Entrepreneurship Development and Innovation Institute, Tamil Nadu.

Resource person:

Mr. M. Martin, Field Coordinator, EDIITN - SASTRA University, Thanjavur.

Participants:

II, III and Final Year students of all discipline = 425 participants

Inaugural Session:

Inaugural session was started through Google Meet(online) by 05.59 p.m. presided over by Dr. J. Arputha Vijaya Selvi, President, Head of the Institution. The program was started with Welcome address and Introduction about the Resource Persons delivered by Mr. S. Aparnaa, Member, and ED Cell. The programme was scheduled for 3 days with a different set of batch of students from 16/12/2021 to 18/12/2021.

Session highlights: (Awareness Programme on TNSI 2021)

It began with an overview of different initiatives taken by Tamil Nadu Government (TNSI(Tamil Nadu Student Innovators - 2021) to draw out innovative ideas from students who are pursuing Technical (Engineering & Polytechnic) and Art & Science. Also, he explained the objective behind the launching of the contest. Resource person described the stages of selecting the best ideas given by the students. He listed the prizes announced by the Government for those who will win the contest.

Session highlights: (Awareness Programme on One Million Idea)

In this session, resource person explained the theme behind "One Million Ideas" initiatives taken by the Entrepreneurship Development Innovation Institute, Government of India and Tamil Nadu State Government to promote innovation culture into various educational Institutions like State and Central Universities, Government Aided Educational Institutions, Self Financing Institutions and etc., He listed the benefits of the programme. Also, tips on how to register in the web portal. The resource person explained the Innovation Voucher Programme (IVP). The program was eagerly attended by all participants, who gained new knowledge from it.

Benefits Interns of Learning/Skills/Knowledge obtained:

- The students are aware of TNSI 2021 and know about the registration process.
- Various schemes provided by the State and Central Governments to promote innovation among students.
- Learned about the Innovation Voucher Programme.

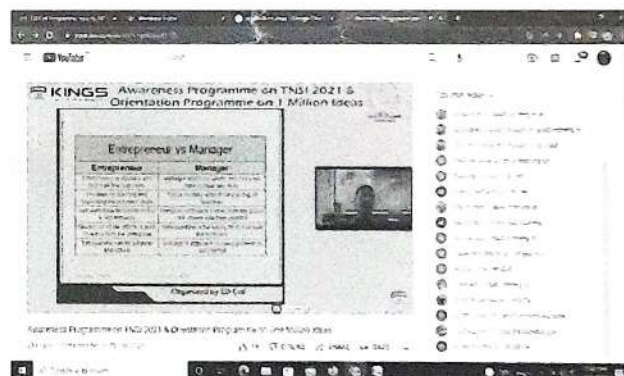
Valedictory Function:

Finally, vote of thanks was given by Dr. K. Sudhakar, Coordinator, ED Cell.

Event Photographs



Event Photograph-1



Event Photograph-2



Event Photograph-3

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Coordinator - ED Cell

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Vice President-IIC & AP/EEE

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President-IIC & Principal