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**CRITERION: 3.2.2** 











Kings College of Engineering (C-25038)











# **INDEX**

# **CRITERION: 3.2.2**

# Number of workshops/seminars conducted on Research Methodology, IPR and entrepreneurship during the last five years (5)

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# INDEX CRITERION: 3.2.2 DEPARTMENT OF CIVIL ENGINEERING

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	concrete, environmental and geotechnical	75
	engineering"	
	Project Expo'18	83
	One day National Level workshop on	0=
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2010 2017	National Conference on "Emerging Trends and	0.0
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#### **Organizing Committe**

Chief Patron

Dr.R.Rajendran, Ph.D.,

Secretary, RET

Mr.T.R.S. Muthukumaar, MBA.,

Chief Executive Officer

Patron

Dr.J.Arputha Vijaya Selvi, M.E., PhD.,

Principal

Co-Patron

Dr.S.Sivakumar, M.E., PhD.,

Vice Principal

Conference Chair

Ms.R.Revathi, M.Tech.,

HOD / CIVIL

**Organizing Secretaries** 

Ms.T.Bhuvaneswari, M.Tech.,

AP/CIVIL

9994961305

Mr.R.Sundharam, M.E.,

AP/CIVIL

9790001058

Staff Coordinators

Dr.R.Saravanan, PhD., Prof./CIVIL

Mr.S.Kamaraj, M.Tech., AP/CIVIL

Mr.K.Arun, M.Tech., AP/CIVIL

Mr.K.Ranjith, M.E., AP/CIVIL

Ms.V.Ishwarya, M.Tech., AP/CIVIL

Ms.D.Shrividhya, M.E., AP/CIVIL

Mr.M.Balaji, M.E., AP / CIVIL

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Prof. G.Elangovan, UCE, Pattukkottai.

Prof. G.Venkatesan, BIT, Trichy.

Prof. G.Elangovan, UCE, Thirukkuvalai.

Prof. S.Senthamil Kumar, PMU, Thanjavur.

**Technical Committee** 

Prof.G.Saranathan, SASTRA, Thanjavur

Prof. N.Suresh Kumar, AAMEC, Thanjavur

Prof. S.Sivakumar, EGS Pillai EC, Nagapattinam

Registration Fee For ISTE Members:

UG/PG students

:Rs.200/-

Faculty Members/Research Scholars: Rs. 500/-

Industrialists :Rs. 800/-

For Non-ISTE Members:

UG students :Rs. 300/-

PG Students : Rs. 500

Faculty Members/Research Scholars: Rs. 750/-

Industrialists :Rs.1000/-

Payment mode:

Online (G pay) 9790001058

**Important Dates** 

Submission of Full Paper : 12.03.2021

Notification of Acceptance : 14.03.2021 Last date for registration : 16.03.2021

Contact Address

Organizing Secretary,

Department of Civil Engineering,

Kings College of Engineering, Punalkulam,

Thanjavur - 613 303, Tamil Nadu, India

E-mail: nconcivil2021@gmajl.com



#### ISTE TAMILNADU SECTION SPONSORED



**E-NATIONAL CONFERENCE** 

ON

EMERGING TRENDS AND ADVANCED
TECHNOLOGIES IN CIVIL ENGINEERING
(NC-ETATCE)

th 19 March 2021



Organized

by

Department of Civil Engineering

KINGS COLLEGE OF ENGINEERING

A NAAC ACCREDITED INSTITUTION

Recognized under 2(f) & 12(B) of UGC

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

imiated to Aima University, Chemi

www.kingsindia.net

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#### About the Institution:

Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor underprivileged students. KCE is approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institution was established in the year 2001 on sprawling campus of around 50 acres on the Thanjavur -Pudukkottai Highway and run by Raj Educational Trust (RET), Chennai. The Institution offers five UG and four PG programmes and certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

#### About the Department:

The Department of Civil Engineering was established in the year 2010, offers 4 years UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in Structural Engineering, Soil Mechanics, Foundation Engineering, Environmental Engineering, Architecture, Surveying and Remote Sensing & GIS. The Civil Engineering Association organizes various activities and events to

unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving industry - institute interaction, research & development and services to society etc.

#### About the Conference:

The conference aims to provide a platform for academicians, researchers, scientists, industry experts and architects to exchange the ideas on the latest advances in Civil Engineering. The conference focuses on collaborative R & D works and new projects with end results of sharing knowledge among the participants. Conference will bring together renowned speakers and researchers, across the globe and it will be most exciting and memorable scientific event filled with much enlightening interactive sessions.



#### Conference Theme:

- Recent innovation in the field of Civil
  Engineering
- · GPS Surveys: Static, Differential & Real Time
- Structural Engineering
- · Water Resource Engineering
- Environmental Engineering
- · Geotechnical Engineering
- · GIS and Remote Sensing Applications
- · Behaviour of fiber reinforced concrete
- Load deformation behaviour of confined concrete.
- · Transport and traffic modelling
- · Pavement materials Characterisation
- Construction Management
- Coastal Engineering
- Earthquake Engineering
- Advanced Surveying
- · Construction Materials
- · Tunnel Engineering
- · Architectural Engineering

#### Paper format:

Full Paper not exceeding 5 pages should be submitted in IEEE format (soft copy in MS-Word as E-mail attachment).

#### Journal Details:

Selected papers will be published in International Journal of Advanced Research in Basic Engineering Sciences and Technology [IJARBEST] (ISSN (Online): 2456-5717 ) (Google Scholar Indexed Journal)

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#### DEPARTMENT OF CIVIL ENGINEERING

# e- NATIONAL CONFERENCE ON EMERGING TRENDS AND ADVANCED TECHNOLOGIES IN CIVIL ENGINEERING (NC - ETATCE'21) CONFERENCE REPORT

Online mode: YouTube live stream (<a href="https://youtu.be/Zb32cyut4F0">https://youtu.be/Zb32cyut4F0</a>)
Google meet (<a href="https://meet.google.com/zcn-hjao-mot">https://meet.google.com/zcn-hjao-mot</a>)

#### **OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day National level Conference titled **NC – ETATCE** on **19**<sup>th</sup> **March 2021**.

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. This conference provides opportunities for academicians and participants to exchange new ideas and uphold experiences face to face, to establish constructions or research relations and to find global partners for future collaboration.

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

- Recent innovation in the field of Civil Engineering
- GPS Surveys: Static, Differential & Real Time
- Structural Engineering
- Water Resource Engineering
- Environmental Engineering
- Geotechnical Engineering
- GIS and Remote Sensing Applications
- Behaviour of fiber reinforced concrete
- Load deformation behaviour of confined concrete.
- Transport and traffic modelling
- Pavement materials Characterisation
- Construction Management
- Coastal Engineering

- Earthquake Engineering
- Advanced Surveying
- Construction Materials
- Tunnel Engineering
- Architectural Engineering

#### **INAUGURAL SESSION**

The Conference was inaugurated by the Chief Guest Er.R.Ramachandran, Superintendent Engineer (Rtd) PWD, Government of Tamil Nadu.



#### **WELCOME ADDRESS**

The welcome address was given by Mr.R.Sundaram, Organizing Secretary of NC-ETATCE'21. 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.



#### PRESIDENTIAL ADDRESS

Dr.J.Arputha Vijaya Selvi, Principal of our college delivered the Presidential address. She highlighted the environmental impact due to cement manufacturing process and our responsibility to reduce the CO emission. She also briefed a few points about various alternative trends in Construction industry - (BIPV); Building-integrated photovoltaics are photovoltaic materials that are used to replace the conventional building materials in parts of the building envelope.



#### **CONFERENCE THEME**

Mrs.R.Revathi, HOD/Civil & Convenor of NC-ETATCE'21 portrayed the conference theme in a detailed manner. She also applicated the academicians and participants from various institutions for their positive response to this conference. Then the Chief Guest was introduced by



Ms.T.Bhuvaneswari, Organizing Secretary of NC- ETATCE'21. 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.

#### **KEYNOTE ADDRESS**

Er.R.Ramachandran, Superintendent Engineer (Rtd) PWD Government of Tamilnadu 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 Civil Engineering is a prestigious branch and also a toughest branch. It was an educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.

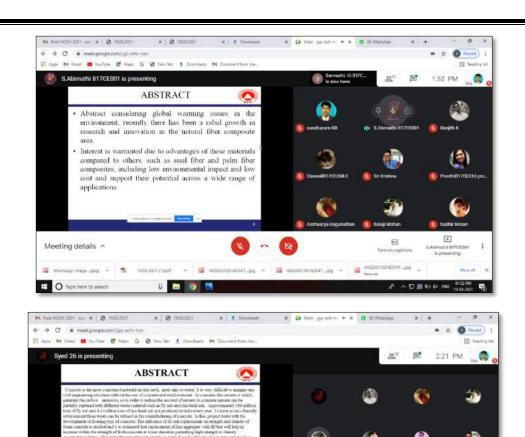




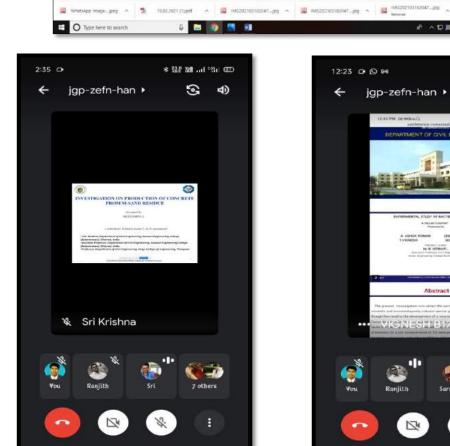


#### **TECHNICAL SESSION**

The technical session started in an impressive manner, where participants eagerly presented their papers in various domains. The selected papers will be published in the journal **IJARBEST.** 



**R** - **R** 



Meeting details ^



Turn on captions

**Technical Session - Student Presentation** 

#### **PARTICIPANT DETAILS:**

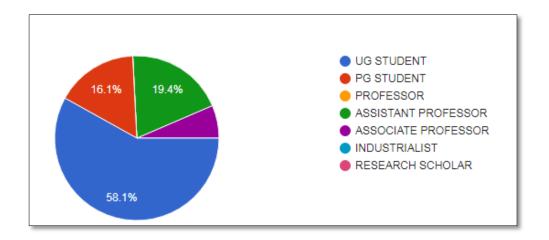
TOTAL PAPERS- **36**EXTERNAL - 30
INTERNAL- 6

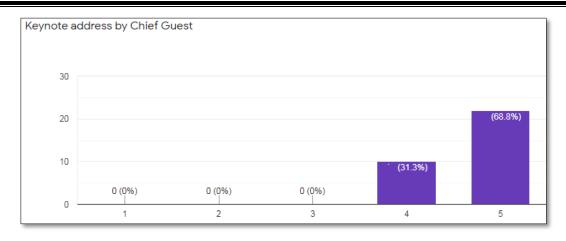
#### **VALEDICTORY SESSION**

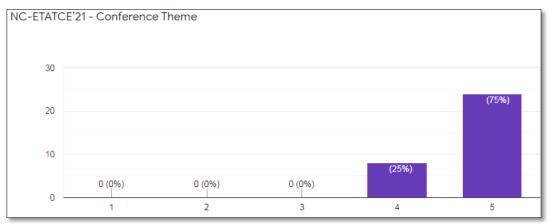
The valedictory session was conducted in the evening. The Conference ended with a vote of thanks delivered by Mr.M.Balaji, Assistant Professor who expressed his sincere thanks to the delegates for spending their precious time for the occasion. He heartily thanked the Management, Principal, all the faculty & Staff members and the students. He also appreciated the students for their passionate efforts with which they carried out the difficult task of making the Conference a grand success.

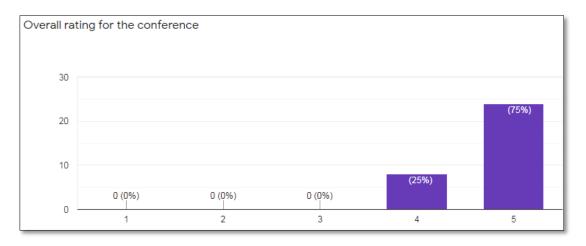
#### **Feedback from the participants:**

FULL NAME WITH INITI			How was NC-ET	TAT Over:	all rat General Feedback and suggestions
		U	5	5	5 Good
R. POOVADHARANI	Saranathan college of Engineering	Experimental investigation on concret		5	4 Its good
G SIVA	Arasu engineering college	EXPERIMENTAL INVESTIGATION ON	5	4	4 Very good
Charulatha. S	Saranathan College of engineering	EXPERIMENTAL STUDY ON CONCRE		5	5 It was good and informative
S.S.Soumiya	Saranathan college of engineering	Experimental study of concrete block v		5	5 It was good and informative
Kadhiresan.B	E.G.S.Pillay Engineering College	Assessment of Air quality in and arous	5	5	5 Good. The E-Conference is very much usefull for my carrier. I am tankfull for all.
DINESH KUMAR R	Easwari Engineering College (Auto	INVESTIGATION ON PRODUCTION O		4	4 Good
SRIKRISHNA L	Easwari Engineering College, Ram	Investigation on Production of Concre		5	5 Very good opportunity for me to participate in this conference
Arunachalam, S, Ajith, S	Arasu Engineering college	Experimental study on floating compo	5	5	5 Good presentation
S.SHYAM SUNDAR	EGS PILLAY ENGINEERING COLLE	A positive approach on the reduction of		5	4 Nice
Saranya.B	Arasu Engineering College	Study experiment fiber concrete using	5	5	5 Conference was excellent
VIJAY.R	ARASU ENGINEERING COLLEGE	EXPERIMENTAL INVESTIGATION ON	5	4	4 Good
Arunachalam, S	Arasu Engineering college	Experimental Study on Floating Comp	5	5	5 Good presentation
Kadhiresan.B	E.G.S.Pillay Engineering College	Assessment of Air quality in and arous	5	5	5 Good. The E-Conference is very much usefull for my carrier. I am tankfull for all.
AJITH S	Arasu engineering college	Experimental study on floating compo		5	5 Good
A. SYED AHAMED	ARASU ENGINEERING COLLEGE	Experimental study on floating compo	5	5	5 Good
Shyam Sundar.S	E.G.S.Pillay Engineering College	Assessment of Air quality in and aroun	5	5	5 The E-conference is very use full for all.
L.NEERKAMALI	Saranathan college of engineering,	Experimental investigation on concret	5	4	5 It was a nice platform to gain knowledgethankyou for this opportunity
VENKATESAN G	SARANATHAN COLLEGE OF ENGI	Experimental Study on Concrete with	5	5	5 GOOD
VENKATESAN G	SARANATHAN COLLEGE OF ENGI	Experimental Investigation on Concre	5	4	5 Good
NAVEEN.R	MAILAM ENGINEERING COLLEGE	Investigation of ground water quality in	5	5	5 Good
ASHOK KUMAR A	Arasu engineering college	Experimental study on Bacterial concr	5	5	5 Very usefull
Hari Prasad K	Mailam engineering college	Investigation of ground water quality in	5	5	5 Really a nice experience
T. VIGNESH	ARASU ENGINEERING COLLEGE	Experimental study of bacterial concre	4	4	5 Very use full lecture
Dr. P. RAMAMOORTHY		Investigation of Groundwater Quality in		5	5 All sessions are informative and useful
G.SARMATHI	Arasu engineering college	The study experiment on fibre concret		5	5 Super
N. Joe Daniel	Mailam engineering	Underground water quality check for d	5	5	5 Thanks for good program
SARMATHI.G	Arasu engineering college	Study of experiment on combined fibre	5	5	5 Super
					· ·









**CONFERENCE COORDINATOR** 

**HOD/CIVIL** 

**PRINCIPAL** 

#### R. RAMACHANDRAN

Ph: 9791392098 Email: ayyarama@gmail.com

QUALIFICATION B. E (Civil), M.C.A.,

DESIGNATION Superintend Engineer (Rtd.) **Public Works Department** DEPARTMENT

Government of Tamil Nadu

3, VIP Colony, Jeya Nagar, RESIDENCE :

Tirunelveli.

#### **CLASSES HANDLED:**

✓ Anna Institute of Management, Chennai.

- ✓ Irrigation Management Institute, Trichy.
- ✓ PSG College of Technology, Coimbatore.
- ✓ Thiagarajar Engineering College, Madurai.
- ✓ Dr.Sivanthi Aditanar College of Engineering, Tiruchendur.
- ✓ Vickram College of Engineering, Madurai.
- ✓ Uttaram College of Engineering, Madurai.
- ✓ KLN College of Engineering, Madurai.
- ✓ Kamarajar College of Engineering, Virudhunagar.
- ✓ Andal College of Engineering, Thanjavur.
- ✓ PWD Staff Training Institute: Madurai, Trichy and Chennai.

#### CLASSES AT COLLECTOR OFFICE:

Tirunelveli, Tuticorin, Kanchipuram, Tirupur, Sivagangai, Madurai, Thanjavur, Salem, Villupuram and Coimbatore.

#### **TECHNICAL SUBJECTS:**

- ✓ Disaster management
- ✓ Earthquake management
- ✓ Flood management
- ✓ Drought management
- ✓ Water resources
- ✓ Irrigation structures
- ✓ Flood damaged Buildings.
- ✓ Foundation Failure and Remedies.

#### MANAGEMENT SUBJECTS:

- ✓ Human Resources Development
- ✓ Employment skills
- ✓ Leadership
- ✓ Motivation
- ✓ Memory improvement
- ✓ Art of learning
- ✓ Decision making
- ✓ Personality development







# DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2020-2021/ODD

21/07/2020

#### **ALUMNI TALK - WEBINAR REPORT**

You Tube Live Stream: https://youtu.be/ixMXeUHD8vI

#### **Background & Objective**

Department of Civil Engineering had organized an Alumni Talk for our Students. The purpose of this Webinar is to equip the students in Transportation Engineering.

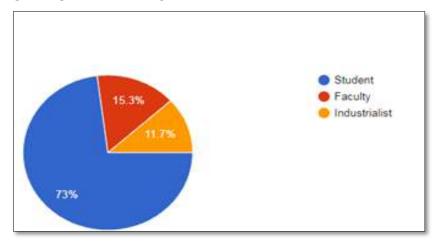
#### **Webinar Session**

A Webinar was organized by Department of Civil Engineering on 20<sup>th</sup> July, 2020 at 10:30PM. The webinar was presided over by **Ms.R.Revathi**, **HoD**., Department of Civil Engineering. Mr.R.Sundharam, Coordinator of this Webinar delivered the welcome address and Ms.M.Priya, Coordinator of this Webinar introduced our Beloved Alumni.

**Er.M.John Finney, Asst. Traffic Engineer** delivered his Alumni talk on "**Introduction to transportation engineering with case study**". **111** participants were eagerly participated in the live webinar.

#### <u>Outcome</u>

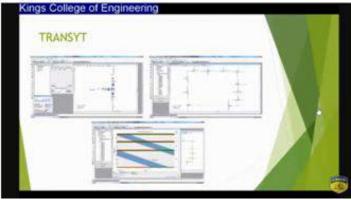
The Seminar clearly highlighted the Branches in Transportation Engineering, Signal Coordination, Optimistic traffic signals, TRANSYT software and so on. Students got an idea in various methods which can be implemented. Finally, students raised their questions and discussions were made. Students shared their views regarding seminar and gave their feedback.



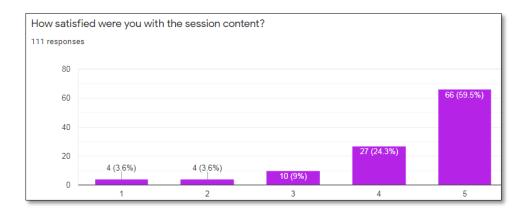
### Alumni talk by Er.M.John Finney







#### **FEEDBACK**



	J	К	L	М	N	0
1	How satisfied were you v	How satisfied were you v	What were your key take aways from this event?	Any additional comments	Would you like to particip	ate in our future webinars'
9	5	5	Gained some knowledge about transportation.	Precise content delivery	Yes	
10	5	5	Traffic design software	Overall session is good	Yes	
11	5	5	Lot of things	Wonderful presentation,	Yes	
12	4	4	Planning, Management of facilities for transportation	No	Yes	
13	4	4	Yes	No	Yes	
14	5	4	Case study was good to understand.	Good effort	No	
15	1	1	Pavement, traffic engineering	Presentation is good	Yes	
16	5	5	Alumni talk	Informative presentation	Yes	
17	5	5	Nill	Very Useful in this webina	Yes	
18	4	4	Idea About Planning Road construction	Such a great pleasure in	Yes	
19	1	5	Important of alumni	Very nice	Yes	
20	5	5	Good	Excellent session	Yes	
21	5	5	Transport	Traffic	Yes	
22	4	4	Traffic systems	Give some more minute:	Yes	
23	4	5	Nothing	It'is really good	Yes	
24	5	5	Case study was useful	Nice presentation and ca	Yes	

### JOHN FINNEY. M

M.E., Transportation Engineering, College of Engineering Guindy, Anna University, Chennai.

- 97 LIC Colony West Extension, Medical College Road, Thanjavur, Tamilnadu. 613007
- $\boxtimes christian john finney @\,gmail.com$
- **\( +91 94898 07877**



#### **OBJECTIVE**

A talented, optimistic person with the desire to work in an organization where I can enhance my Skills to meet the professional goals and objectives with integrity and zest.

# **EDUCATIONAL QUALIFICATION**

COURSE	NAME OF INSTITUTION	YEAR OF PASSING	CGPA/%
M.E., Transportation Engineering	College of Engineering Guindy, Anna University, Chennai.	2018	8.38
B.E., Civil Engineering	Kings College of Engineering Punalkulam.	2016	8.55
12 <sup>th</sup> Std. – State Board Examination	Don Bosco Matriculation Higher Secondary School, Thanjavur.	2012	77.50 %
10 <sup>th</sup> Std. – Matric Board Examination	Don Bosco Matriculation Higher Secondary School, Thanjavur.	2010	78.20 %

# TECHNICAL SKILLS

- Simulation Software:
  - **VISSIM**
- Signal Optimisation Software: **TRANSYT**

# AREA OF INTEREST

- Traffic Engineering and Planning
- Signal Coordination
- Intelligent Transportation System (ITS)
- Road Safety

# **WORK EXPERIENCE**

- Working as Asst. Traffic Engineer at DataCorp Traffic Private Ltd., Banglore, India from 19<sup>th</sup> June 2018 till Date.
- Worked on Data Analysis and Documentation for Various Projects with RITES Ltd., Delhi.





# DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2020-2021/ODD INTERNATIONAL WEBINAR REPORT

17/07/2020

## You Tube Live Stream: https://youtu.be/ZiDHcKgrIZ8

#### **Background & Objective**

Department of Civil Engineering had organized an International webinar for the students and faculties. The purpose of this Webinar is to equip the students in Environmental Engineering.

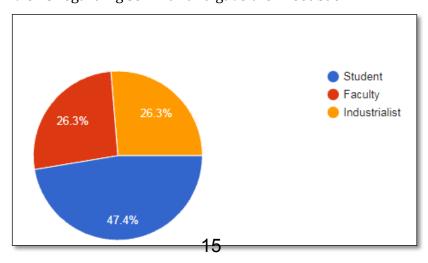
#### **Webinar Session**

An International Webinar was organized by the Department of Civil Engineering on 16<sup>th</sup> July, 2020 at 04:00PM. The webinar was presided over by **Ms.R.Revathi, HoD.**, Department of Civil Engineering. Mr.R.Elwin Guru Chanth, Coordinator of this Webinar delivered the welcome address and introduced our Beloved Chief Guest.

**Er.A.Mohamed Mansoor, Environmental Engineer** delivered his webinar talk on "Navigating Environmental Management in the construction". 132 Students were eagerly participated in the live webinar.

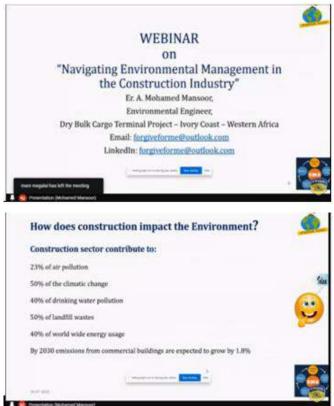
#### **Outcome**

The Seminar clearly highlighted the Environmental Management in Construction Industry, Environmental aspects and impacts, and different Environmental Plan. Students got an idea in various plans which can be implemented. Finally, students raised their questions and discussions were made. Students shared their views regarding seminar and gave their feedback.



#### Webinar talk by Er.A.Mohamed Mansoor





#### **FEEDBACK**

What were your key take aways from this event?

Environmental is for all the living organisms who lives in the world. don't spoil our environment.

Its useful for our environmental engineering subject

1. Environment monetring

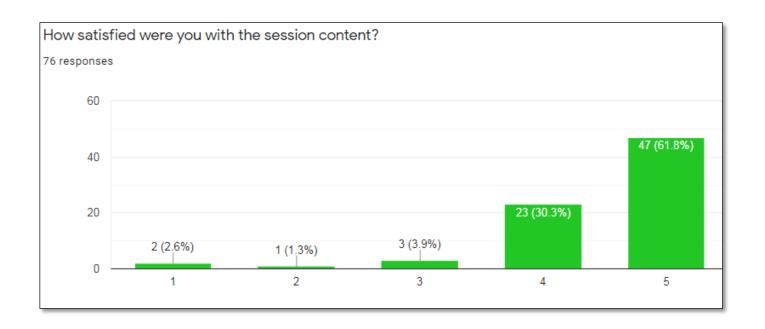
About environmental management in construction

Lots of information... different between the Environmental Engineering and Environmental management...and also EIA...

Learned a lot regarding waste management treatment methods

waste utilization

I got awareness how to navigate environment in construction industry.



HOD/CIVIL PRINCIPAL

# A MOHAMED MANSOOR ENVIRONMENTAL ENGINEER

Active Associate member of IRED Institute of Research Engineers & Doctors

AFCONS OVERSEAS 01 BP – 2205, Cornice Sanpedro, Ivory Coast. T: +91 95976 87284 W: +91 95976 87284

mansoorhaffila@gmail.com



#### PERSONAL STATMENT

A bright degree qualified professional with basic civil engineering together with masters in Environmental Engineering, and has a proactive approach along with an ability to adapt to changing scenarios with *Nine + Years of experience*. Acting in a professional and responsible way at all times, and can maintain excellent working relations with clients, site engineers, site managers, sub-contractors, suppliers and the general public. The extensive experience allows me to structure and priorities work effectively through close cooperation with other team members. And now looking for a suitable position with a company that offers excellent career development opportunities by stimulating engineering challenges.

#### AREAS OF EXPERTISE

#### **ENGINEERING**

- Implementation of 14001:2015 & 45001:2018 Standard requirements.
- Waste Management
- Environmental compliance Contract / Local National Law / Other requirements
- Flood risk, drainage, water supply and sanitation.
- All Environmental Monitoring's
- Knowledge of relevant international Environmental codes.
- Collecting information, investigating options and devising solutions.
- Verifying the work of others & carrying out feasibility studies.
- Ability to think methodically, to design, plan and manage projects.

#### **PERSONAL**

- Detail conscious with an ability to study the minute aspects of any project.
- Ability to transfer skills from one sector to another.
- Making judgments and solving problems.
- Strategic thinker with the ability to execute effectively. Able to work under pressure.
- Negotiating, supervisory and leadership skills with the ability to delegate.

#### **EDUCATIONAL QUALIFICATION**

DEGREE	COURSE	EDUCATIONAL INSTITUTION	BOARD / UNIVERSITY	YEAR PASSED	AGGREGATE
Master of Engineering	Environmental Engineering	MAM College of Engineering	Anna University	2014	8.1 Out of 10
Bachelors of Engineering	Civil Engineering	MIET Engineering College	Anna University	2011	71.1 %

#### OTHER CERTIFICATION:

- IOSH Managing Safely
- Diploma in Offshore Safety Management







# DEPARTMENT OF CIVIL ENGINEERING WEBINAR REPORT - THE GIS: AN INDUSTRIAL PERSPECTIVE

**DATE: 27.07.2020** 

#### **BACKGROUND & OBJECTIVE:**

Department of Civil Engineering, Kings College of Engineering organized a webinar "THE GIS: AN INDUSTRIAL PERSPECTIVE" for Faculty, Students & Industrial persons on 27.07.2020. The main objective of this webinar is to elaborate about the Geographic Information system in both academic and industrial perspective. Mr.K.Arun, AP/civil and Ms.K.Bhavarohini, AP/civil were the organizers of the webinar.

#### **WEBINAR DETAILS:**

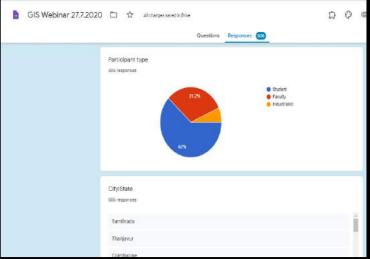
Ms.R.Revathi, Hod/Civil delivered the welcome speech and Mr.K.Arun, AP/Civil, introduced about the chief guest. **Dr.V.Rajesh Kumar**, Chief Engineering Manager (Geospatial Technologies) L & T Construction, Chennai, is the resource person for the webinar. He delivered about the Geographic Information system and its impact in the Industrial sector. The webinar was directly live streamed in our college YOUTUBE channel. Ms.K.Bhavarohini, AP/civil proposed the vote of thanks.

#### **OUTCOME:**

An overwhelming response has been received for the webinar from various educational institutions and industrial persons. Around **256** participants attended the webinar through the YouTube streaming. The chief guest also answered the queries raised by the participants in the chat box at the end of the webinar. The participants gave very good feedback for the flawless conduct and for the chief guest presentation.

## **SOME GLIMPSES OF THE WEBINAR**









**HoD/CIVIL** 

**Dr. V. Rajesh Kumar is a** Competent Civil Engineer with an eventful versatile career comprising both Academic and Administrative experiences of more than 19 years studded with professional brilliance in executing and commissioning multi-faceted projects with professional competencies in mobilizing and judiciously managing resources with structured inputs in the domains of teaching, research, industry and administration to ensure accomplishments.

#### Scholastic Portfolio

PhD from SASTRA University: 2010

MTech Remote Sensing from College of Engineering, Guindy-Anna University, 2000

BE Civil Engineering from RVS College of Engineering and Tech, Dindigul, 1999 with University 3<sup>rd</sup> Rank.

GATE scorer – 1999 with 84.9 percentile.

#### Career

Has hold all the responsibilities from Lecturer to Principal at various Engineering Colleges The Then Dean & Professor, School of Civil Engineering, Lovely Professional University, Punjab Now as Chief Engineering Manager and Head, Geospatial Technologies, Water and Effluent Treatment IC, L&T, Chennai

#### **Publications/Research**

Books:1

**Research Works: Conferences: 33; Edited Books: 3**; Journals: 28

**Sponsored Projects: 3** 

Awards: Best Educationalist Award, Rajiv Gandhi Education Excellence Award, Best Influencer Award

Fellowships: Summer research fellowship at National Institute of Oceanography, Goa.

### **Memberships**

#### **Academics**

- Chairman, Board of Studies, Civil Engineering, Lovely Professional University, Punjab (2016-18)
- ➤ Industrial Member, BoS, Civil Engineering, S.A College of Engineering, Chennai (Since 2020)
- Member of Board of Studies of fire and safety, Alagappa University, Karaikudi (2011-2013)
- ➤ Member of Board of Studies, Pondicherry University (2013-2016)

#### **Professional**

- ➤ Life member in Indian Society of Technical Education (LM 32183)
- ➤ Life member in Indian Society of Remote Sensing (L2318)
  - ➤ Life Member in the Indian Society of Geomatics (ISG-L 911)

Page | 1

# One Day Workshop on "Planning and Drafting of Approval Drawing" REGISTRATION FORM

NAME

YEAR

COLLEGE

ADDRESS

CONTACT NO:

EMAIL ID :

Date

Signature of the Applicant

#### REGISTRATION FEE

UG students

: Rs. 200/-

PG students

: Rs. 250/-

#### SPONSORING CERTIFICATE

This is to certify that Mr./Ms.

department is

of

being sponsored for attending the one day workshop on "Planning and Drafting of Approval Drawing" organized by Department of Civil Engineering, Kings College of Engineering on 13th February, 2020.

Date & Seal

Signature of sponsoring authority

#### **Organizing Committee**

Chief Patron
Dr.R.Rajendran
Secretary, Raj Educational Trust
Mr. T.R.S. Muthukumaar
CEO

#### Patron

Dr. J.Arputha Vijaya Selvi Principal

#### Co-Patron

Dr. S. Sivakumar Vice Principal

#### Resource Person

Ms.R.Revathi HOD/CIVIL

#### Organizer

Ms.M.Priya AP/CIVIL

Phone: +91-9500817096

#### Contact Us:

The Head Of the Department,
Department of Civil Engineering,
Kings College of Engineering,
Punalkulam,
Thanjavur - 613 303,
Tamil Nadu, INDIA.



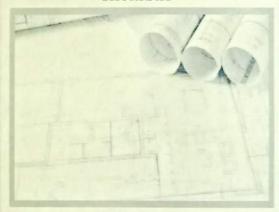
One Day Workshop

OI

"Planning and Drafting of Approval Drawing"

13.02.2020

THURSDAY



Organized by

Department of Civil Engineering

#### About the Institution:

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 (AICTE), New Delhi and is affiliated to Anna University, Chennai.

The Institution was established in the year 2001 on a sprawling campus of around 50 acres on the Thanjavur – Pudukkottai Highway and run by Raj Educational Trust(RET), Chennai.

The Institution offers five UG and four PG programmes and certified with ISO 9001: 2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-



### **About the Department:**

The Department of Civil Engineering was established in the year 2010 and offers 4 years UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of Structural Engineering, Soil Mechanics, Foundation Engineering, Environmental Engineering, Transportation Engineering, Surveying and Remote Sensing & GIS.

The Civil Engineering Association (FOCUS - Federation of Civil Uncharted Structures) organises various activities and events to unfold the prospects of Civil Engineering in the present day world.

The department has been engaged in various activities involving industry-institute interaction, visit to construction companies and factories under FVFS scheme, research and development, and services to society etc.

#### **About the Workshop:**

A civil drawing or an approval drawing, is a type of technical drawing that shows information about grading, landscaping, or other site details. These drawings are intended to give a clear picture of all things in a construction site to a civil engineer. Approval Drawing Workshop is broadly concerned with the Planning and Drafting of the drawing using AUTO CADD.

As a Civil Engineering student it is essential to be well versed in Planning and usage of software for drafting purposes. This workshop provides a platform for the UG/PG students to enhance themselves in hands on training.

#### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from the New Bus Stand on Thanjavur – Pudukkottai National Highway.







#### DEPARTMENT OF CIVIL ENGINEERING

# REPORT ONE DAY WORKSHOP ON "PLANNING AND DRAFTING OF APPROVAL DRAWING"

Venue: CHERA HALL, Kings College of Engineering Date: 13.02.2020

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day workshop on "PLANNING AND DRAFTING OF APPROVAL DRAWING" for civil engineering students on 13.02.2020. Engineering students are lagging on practical exposure in preparing the approval drawing, hence it is planned to conduct the workshop in this arena to develop their soft skills.

#### **INAUGURAL SESSION**

The workshop was inaugurated by the Vice-Principal, Dr.S.SIVAKUMAR and the Resource person was Mrs.R.Revathi/HOD-Civil. Vice-Principal graced the occasion as chief guest and delivered the presidential address. In his address, he elucidated the rising technology and various opportunities in civil Engineering field. He also insisted the importance of non renewable resources such as sand and water. He also briefed the importance of Civil Engineering in various aspects. Finally while concluding, he encouraged the participants to make use of the college infra structure during the practical sessions. Vice-Principal was felicitated by Mr.R.Sundharam, A.P/Civil & Resource Person was Felicitated by Mr. K.Arun, A.P/Civil & Ms.M.Priya, A.P/Civil. 69 participants from various Engineering colleges participated in the workshop.





**Welcome Address** 

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Inaugural Address









Felicitation

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**Resource Person Address** 

#### **WORKSHOP SESSIONS:-**

Session I & Session II was handled by Mrs.R.Revathi, HOD/Civil. She presented about the Approval Drawing preparation procedure, Unit conversion used in Site, Planning of building components using bubble diagram. First she explained the aspects of planning process using PPT & white board, and after that she accompanied the participants to the practical sessions using free hand sketching. Session II was organised in IT-Block, CADD lab. Planning using Auto-CADD Software with PPT presentation has been made by Mrs.R.Revathi, HOD/Civil. A residential approval plan was issued in the workshop kit.





Session I- Chera Hall, Session II-CADD Lab





#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening which was graced by the civil department students and staffs. The session started with the sparkling speech from Mr.K.Arun, Asst.Proff/Civil who highlighted the civil engineering career opportunities. Next was the feedback session, in which the external participants gave their valuable feedbacks. Finally the participants were awarded with a certificate as an appreciation of their efforts during the workshop.





Feedback session & Vote Of Thanks









**Certificate Distribution** 

27

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## **PARTICIPANTS DETAILS:**

S.NO	COLLEGE NAME	TOTAL STUDENT S
1	St.Joseph's College of Engineering & Technology	03
2	M.I.E.T Engineering College, Trichy	05
3	P.R Engineering College	10
4	Sir Issac Newton College of Engineering & Technology	10
5	University College Of Engineering, Rajamadam	06
6	University College Of Engineering, Thirukkuvalai	04
7	Government College Of Engineering, Sengipatti	01
8	Sri Bharathi Engineering College For Women	04
9	As-salam College Of Engineering	05
10	E.G.S Pillay Engineering College	14
11	A.R.J college of Engineering & Technology	05
12	PRIST University	02
TOTA	L	69

## **OUTCOME:**

Students gave very good feedback at the end of the workshop. Most of the students showed interest to participate in the upcoming workshops. The Participants database was collected in the registration form.

COORDINATOR HOD/CIVIL

# One Day Workshop on "Column Marking & Total Station" REGISTRATION FORM

NAME :

YEAR

COLLEGE

ADDRESS :

CONTACT NO:

EMAIL ID :

Date

Signature of the Applicant

REGISTRATION FEE

Rs. 150/-

#### SPONSORING CERTIFICATE

This is to certify that Mr./Ms.\_\_\_

\_\_department is ding the one day

being sponsored for attending the one day workshop on "Column marking and total station" organized by Department of Civil Engineering, Kings College of Engineering on 6th March, 2020.

Date & Seal

Signature of sponsoring authority

#### Organizing Committee

Chief Patron
Dr.R.Rajendran
Secretary, Raj Educational Trust
Mr. T.R.S. Muthukumaar
CEO

#### Patron

Dr. J.Arputha Vijaya Selvi Principal

Co-Patron

Dr. S. Sivakumar Vice Principal

Organizer

Mr.K.Arun AP/CIVIL

Phone: +91-9944688536

Mr.S.R.Elwin Guru Chanth

AP/CIVIL

Phone: +91-9524302420

#### Contact Us:

The Head Of the Department,
Department of Civil Engineering,
Kings College of Engineering,
Punalkulam,
Thanjavur - 613 303,
Tamil Nadu, INDIA.



One Day Workshop

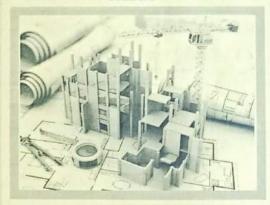
on

"Column Marking & Total Station"

**EXCLUSIVELY FOR DIPLOMA STUDENTS** 

06.03.2020

FRIDAY



Organized by

Department of Civil Engineering

#### About the Institution:

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 (AICTE), New Delhi and is affiliated to Anna University, Chennai.

The Institution was established in the year 2001 on a sprawling campus of around 50 acres on the Thanjavur — Pudukkottai Highway and run by Raj Educational Trust(RET), Chennai.

The Institution offers five UG and four PG programmes and certified with ISO 9001: 2008. The state of the art teaching methodologies are used to impart high quality education to the students including elearning.



### out the Department :

The Department of Civil Engineering was established in the year 2010 and offers 4 years UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of Structural Engineering, Soil Mechanics, Foundation Engineering, Environmental Engineering, Transportation Engineering, Surveying and Remote Sensing & GIS.

The Civil Engineering Association (FOCUS -Federation of Civil Uncharted Structures) organises various activities and events to unfold the prospects of Civil Engineering in the present day world.

The department has been engaged in various activities involving industry-institute interaction, visit to construction companies and factories under FVFS scheme, research and development, and services to society etc.

#### About the Workshop:

The main objective of this workshop is to enrich the diploma students by providing a handful of experience in column marking and total station. Since column marking is the foremost activity in site execution it will be very much useful and informative for the polytechnic students to enrich themselves.

Total station is the modern equipment used in advanced surveying. Hence hands-on training in total station will add a bonus point for guaranteed jobs.

The workshop will be of two session in which the first session covers column marking in site and second session covers total station.

#### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from the New Bus Stand on Thanjavur – Pudukkottai National Highway.







#### DEPARTMENT OF CIVIL ENGINEERING

#### **REPORT**

ONE DAY WORKSHOP ON "COLUMN MARKING & TOTAL STATION" - For Diploma Students

Venue: CHERA HALL, Kings College of Engineering Date: 06.03.2020

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day workshop on "COLUMN MARKING & TOTAL STATION" for diploma civil students on 06.03.2020. An overwhelming response was received from the polytechnic colleges and students showed tremendous interest to attend the workshop. The main aim of the workshop was to bring the diploma students to our college campus, so that they can get hands-on training in Total Station.

#### **INAUGURAL SESSION**

Mr.S.R.Elwin Guru Chanth, AP/Civil welcomed the gathering. The workshop was inaugurated by the Vice Principal, Dr.S.Sivakumar. He graced the occasion as chief guest and delivered the inaugural address. In her address, he elucidated the rising technology and various opportunities in civil Engineering field. Vice Principal also briefed the importance of Civil Engineering in various aspects. Finally while concluding, he encouraged the participants to make use of the college infra structure during the practical sessions.





#### **WORKSHOP SESSIONS:-**

The Session I was handled by Mr.K.Arun, AP/Civil. He presented about the basic conversions and factors to be known by a Civil Engineering in construction site. He also detailed about measurements, Unit conversions and narrated the diagonal and right angle checking methods using thumb rule. The Session II was handled by Mrs.R.Revathi, HoD/Civil. She presented about the site marking as per the drawing. First she explained the aspects of site marking in white board, and after that she accompanied the participants to the site and handled practical sessions

on site marking. The Session III was handled by Mr.R.Sundharam, AP/Civil. He presented about the Total station and its functions. He briefed about the working principle behind total station and also stated the various uses of total station.

















#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening which was graced by the department staff members. The session started with the sparkling feedbacks from the external participants, in which the students gave their valuable feedbacks. Finally the participants were awarded with a certificate as an appreciation of their efforts during the workshop.





#### **OUTCOME:**

Students gained knowledge in Column marking & total station and also gave very good feedback at the end of the workshop. Most of the students showed interest to join Engineering.







# DEPARTMENT OF CIVIL ENGINEERING REPORT – DEPARTMENT PROJECT EXPO'2020

03.06.2020

#### **BACKGROUND & OBJECTIVE:**

Department of Civil Engineering, Kings College of Engineering organized the "**Department Project Expo'2020**" for IV year Civil Students on 03.06.2020. The main objective of this project expo is to provide a platform the students to present their 8<sup>th</sup> semester project work. Mr.K.Arun, AP/civil organized the project expo. Ms.R.Revathi, HoD/Civil & Ms.M.Priya, AP/civil were the Jury members for the project expo.

#### **EXPO DETAILS:**

11 batches participated in the Project expo. Students presented about their project through Google Meet. Each batch was given 15 minutes duration to explain their project. A Jury panel comprising of two senior faculty members evaluated the projects and gave feedback & valuable comments to the students. Based on the presentation, PPT content and outcome, marks were awarded by the Jury panel and 2 projects were selected for rewards.

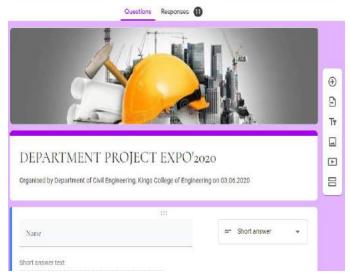
S No	Batch Members	Year/ Sem	Project Title	Category
1	V.VIJAY	IV / VIII	EXPERIMENTAL INVESTIGATION ON STRENGTH & STRUCTURAL PROPERTIES OF M40 GRADE CONCRETE USING RIVER SAND, M-SAND,DUNE SAND WITH CRUSHED STONE AGGREGATE	Innovative Project
2	D.ANUSIYA R.APURVA R.MAHASRI T.NANDHINI	IV / VIII	EXPERIMENTAL INVESTIGATION OF GREY WATER FROM VERMIFILTER AND NATURE MEDIUM	Best Project

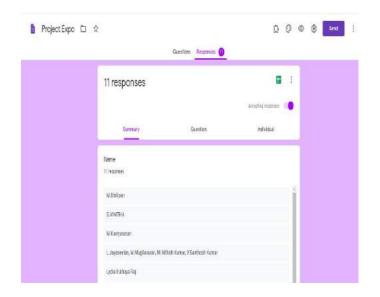
#### **OUTCOME:**

Final year students eagerly participated in the Project Expo'2020. Students gained knowledge about online presentation and got valuable feedback from the faculty members which will be very much useful for their viva voce examinations.

#### **SOME GLIMPSES OF THE PROJECT EXPO**













Name of the Event : GUEST LECTURE ON "PRESTRESSED CONCRETE STRUCTURES"

Name of the Dept. : CIVIL ENGINEERING

Number of Beneficiaries: 50 ( IV Yr CIVIL ENGG STUDENTS)

Name of the Resource Person: Mr.A.Belin Jude, AP/CIVIL, M.I.E.T College of Engg, Trichy

Date : 16.08.2019

#### **Photos:**





Chief Guest Felicitated by Mr.K.Arun, AP/Civil

**Guest Lecture Session** 



**Chief Guest Interaction with students** 

Name of the Event : **GUEST LECTURE ON " FOUNDATION ENGINEERING"** 

Name of the Dept. : CIVIL ENGINEERING

Number of Beneficiaries : 35 ( III Yr CIVIL ENGG STUDENTS)

Name of the Resource Person: Ms.T.Mohana Shankari, HoD/CIVIL, AEC, KUMBAKONAM

Date : 16.08.2019

#### **Photos**:





Chief Guest Felicitated by Ms.R.Revathi, HoD/Civil

**Guest Lecture Session** 



**Chief Guest Interaction with students** 

Name of the Event : GUEST LECTURE ON "FLUID MACHANICS"

Name of the Dept. : CIVIL ENGINEERING

Number of Beneficiaries : 25 ( II Yr CIVIL ENGG STUDENTS)

Name of the Resource Person: Mr.M.Senthamizhan, AP/CIVIL, ACGCET, KARAIKUDI

Date : 16.08.2019

#### **Photos**:





Chief Guest Felicitated by Mr.R.Sundharam, AP/Civil

**Guest Lecture Session** 



**Chief Guest Interaction with students** 







# Department of Civil Engineering **Academic Year 2019-2020 (Even Semester)**

Name of the Event : **GUEST LECTURE ON "HIGHWAY ENGINEERING"** 

Name of the Dept. : CIVIL ENGINEERING

Number of Beneficiaries : **35 (III Yr CIVIL ENGG STUDENTS)** 

Name of the Resource Person : Mr.M.SENTHAMIZHAN, AP/CIVIL,

ALAGAPPA CHETTIYAR GOVT.COLLEGE OF

ENGINEERING & TECHNOLOGY,

KARAIKUDI

Date : 21.02.2020

Photos:







Felicitation by Mr.K.Ranjith, AP/Civil





**Guest Lecture Session** 

Page 41 or 747







# **Department of Civil Engineering**

Name of the Event : **GUEST LECTURE ON " SOIL MECHANICS"** 

Name of the Dept. : CIVIL ENGINEERING

Number of Beneficiaries : 26 ( II Yr CIVIL ENGG STUDENTS)

Name of the Resource Person : Mr.K.SHAKTHI MURUGAN,

AP/CIVIL, AAMEC, KOVILVENI

Date : **07.02.2020** 

Photos:





Chief Guest Honured by Mr.R.Sundharam, AP/Civil

Felicitation by Ms.R.Revathi, HOD/Civil



**Guest Lecture Session** 

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# DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2018-2019 (EVEN SEMESTER) Guest Lecture on Soil Mechanics - REPORT

Date: 15st FEB 2019 Time: 10:00 - 04:30pm

#### **Background & Objective**

Department of Civil Engineering has organised a one day Guest lecture on Soil Mechanics for 2<sup>nd</sup> year students. Mrs.T.Mohana Sankari AP/Civil from Arasu Engineering college, Kumbakonam was the resource person. Mr.K.Ranjith AP/Civil organised the event and Mrs.R.Revathi HOD/Civil delivered the welcome address. The topic was related to the student's curriculum.





#### **GUEST LECTURE SESSION**

#### **Outcome**

The Guest lecture was very useful to the students, since the resource person highlighted the importance of Soil Mechanics in a detailed manner. Around 40 students of 2<sup>nd</sup> year Civil Engineering were benefited through this guest lecture.

STAFF INCHARGE HOD/CIVIL PRINCIPAL

# **Chief Patron**

Dr.R.Rajendran Secretary Mr. T.R.S. Muthukumaar CEO

#### Patron

Dr. J.Arputha Vijaya Selvi Principal

### Co-Patron

Dr. S. Sivakumar Vice Principal

### Convener

Mrs.R.Revathi HOD / CIVIL

# **Organizing Secretaries**

Mr.R.Sundharam Mr. S.R.Elwin Guru Chanth AP/CIVIL

# **Workshop Content**

This Workshop will be of two sessions

SESSION 1: Advanced Surveying

SESSION 2: Field Work

# Eligibility

Students studying Diploma in Civil Engineering

Registration fees: Rs. 150/-

#### Contact Us:

Department of Civil
Engineering,
Kings College of Engineering,
Punalkulam,
Thanjavur - 613 303,
Tamil Nadu,
India.

Phone: +91-9790001058, +91-9524302420



ONE DAY WORKSHOP

ON

"ADVANCED SURVEYING

AND

FIELD WORK"

05 th March 2019

**Organized** 

by

Department of Civil Engineering Kings College of Engineering

> Punalkulam, Thanjavur - 613 303.

#### About the Institution:

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 approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institution was established in the year 2001 on sprawling campus of around 60 acres on the Thanjavur - Pudukkottai Highway and run by Raj Educational Trust (RET), Chennai. The Institution offers Five UG and four PG programmes and certified with ISO 9001:2008 and NAAC accreditation. The state of the art teaching methodologies is used to impart high quality education to the students including e-learning.

#### **About the Department:**

The Department of Civil Engineering was established in the year 2010, offering UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of Structural, Soil Mechanics, Foundation Engineering,

Environmental Engineering, Architecture, Surveying and Remote Sensing & GIS. The Civil Engineering Association organizes various activities and events to unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving industry - institute interaction, research and development, development of students and services to society etc.

#### About the Workshop:

The main objective of this workshop is to enrich the diploma students by providing handful of practical experiences in surveying and total station. Since surveying and total station are the most valuable topics in civil engineering. The workshop will be of two sessions in which the first session covers the field surveying and the second session covers the total station.





(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

# Department of Civil Engineering ONE DAY WORKSHOP ON "ADVANCED SURVEYING AND FIELD WORK"

#### REGISTRATION FORM

NAME:
YEAR:
COLLEGE:
ADDRESS:
CONTACT NO:
EMAIL ID:







#### DEPARTMENT OF CIVIL ENGINEERING

#### ONE DAY WORKSHOP ON

#### "ADVANCED SURVEYING & FIELD WORK"

Venue: CHERA HALL, Kings College of Engineering Date: 05.03.2019

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day workshop on "ADVANCED SURVEYING & FIELD WORK" for diploma civil students on 05.03.2019. It aims to provide a platform for the diploma students to acquire basic knowledge about surveying and total station. The workshop also focuses to carry out practical sessions in site marking and to extend hands-on experience in total station.

#### **INAUGURAL SESSION**

The workshop was inaugurated by the Secretary, Dr.R.Rajendran and presided by Dr.S.Sivakumar, Vice Principal. As every function starts in a auspicious way, the workshop was inaugurated with the prayer song. As many as 52 participants from various polytechnic colleges participated in the workshop. The welcome address was given by Mr.R.Sundharam, AP/Civil. He welcomed the Dignitaries on the dais, faculty members and the students from various polytechnic colleges across the state.



**Inaugural Session** 

#### PRESIDENTIAL ADDRESS

Dr.R,Rajendran, Secretary, Raj Educational trust graced the occasion as chief guest and delivered the presidential address. In his address, he elucidated the rising technology and various opportunities in civil Engineering field. He also insisted that the possibility is in every hand, the students have to make use of those various opportunities for their career. He also briefed the importance of Civil Engineering in various aspects. Finally while concluding, he encouraged the participants to make use of the college infra structure during the practical sessions.

#### **SESSION I**

The Session I was handled by Mrs.R.Revathi, HoD/Civil. She presented about the site marking as per the drawing. First she explained the aspects of site marking in white board, and after that she accompanied the participants to the site and handled practical sessions on site marking. A residential plan with centre line drawing was issued in the workshop kit. She briefed about the plan marking to be carried over at the site.



Session I handled by Mrs.R.Revathi, HOD/Civil

#### **SESSION II**

Session II was practically handled in the site. Students were provided a residential plan with centre line drawing. With the help of Pegs, Tape and line powder participants marked the plan in the site and their doubts were clarified. This Session also included TOTAl STATION which was handled by Mr.S.Kamaraj, AP/Civil. He briefed about the working principle behind total station and also stated the various uses of total station. With latest technologies the total station will play a major role in surveying and construction industry. Hence he insisted the participants to gain enough knowledge on total station. After that he guided the students to the site and handled practical session using total station. Students were given small assignments like horizontal measurement and area calculation using total station.









**Session II - Practical Session on Site Marking** 

#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening which was started with the feedback from the external participants. Finally the participants were awarded with a certificate as a appreciation of their efforts during the workshop. The Symposium ended with a vote of thanks delivered by Mr.S.R.Elwin Guru Chanth, 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 for making the workshop a grand success.



**Certificate Distribution in the Valedictory Session** 











WORKSHOP COORDINATOR HOD/CIVIL

VICE PRINCIPAL

**PRINCIPAL** 

#### **Chief Patron**

Dr.R.Rajendran Secretary

Mr. T.R.S. Muthukumaar CEO

#### Patron

Dr. J.Arputha Vijaya Selvi Principal

#### Co-Patron

Dr. S. Sivakumar Vice Principal

#### **Conference Chair**

Mrs.R.Revathi HOD / CIVIL

### **Organizing Secretaries**

Mr. K.Arun AP/CIVIL Mr. K.Ranjith AP/CIVIL

# **Important Dates:**

LAST DATE FOR MANUSCRIPT :28/02/2019

ACCEPTANCE NOTIFICATION :05/03/2019

LAST DATE FOR REGISTRATION: 08/03/2019

CONFERENCE DATE :16/03/2019

# **Registration Fee:**

UG STUDENTS / PG STUDENTS : RS. 300/-FACULTY / RESEARCH SCHOLARS : RS. 500/-

INDUSTRIALIST : RS. 1000/-

#### Contact Us:

ORGANIZING SECRETARIES
DEPARTMENT OF CIVIL ENGINEERING
KINGS COLLEGE OF ENGINEERING,
PUNALKULAM,

THANJAVUR - 613 303, TAMIL NADU, INDIA

E-mail: nconcivil19@kingsindia.net Phone: +91-9944688536, 9524514091



(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

National
Conference
on
Innovative Trends
and Advances in
Civil Engineering

16<sup>th</sup> March 2019

**NCITACE '19** 

Organized by
Department of Civil
Engineering



# About the Institution:

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 (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institution was established in the year 2001 on sprawling campus of around 60 acres on the Thanjavur - Pudukkottai Highway and run by Raj Educational Trust(RET), Chennai. The Institution offers Five UG and four PG programmes and certified with ISO 9001 :2008. The state of the art teaching methodologies are used to impart high quality education to the students including elearning.

# About the Department:

The Department of Civil Engineering was established in the year 2010, offering UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of Structural, Soil Mechanics, Foundation Engineering, Environmental Engineering, Architecture, Surveying and Remote Sensing & GIS.

The Civil Engineering Association organises varies activities and events to unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving industry-institute interaction, research and development, development of students and services to society etc.

# **About the Conference:**

The Conference aims to provide a platform for academicians, researchers, scientists, industry experts and architects to exchange the ideas on the latest advances in Civil Engineering. The conference focuses on collaborative R&D works and new projects with the end result of sharing knowledge among the participants.

# Conference Theme:

- · Innovative Trends in Civil Engineering
- · Advances 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

# Journal Publication:

Full paper not exceeding 5 pages should be submitted in IEEE format. Selected papers will be published in peer reviewed journals at additional cost based on the interest of the author.

# Advisory Committee:

Prof. G.Elangovan, UCE, Thirukkuvalai

Prof. K.Manjula, NIT, Trichy

Prof. G.Venkatesan, BIT, Trichy

Prof. G.Senthil Kumar, Annamalai University

Prof. R.Sivakumar, EGS Pillai, Nagai

Prof. S.Senthamil Kumar, PMU, Thanjavur Prof.

S.Vijaya Bhaskar, Saranathan College of Engg.,

Trichy

Prof. S.Senthamilan, ACTECH, Karaikudi

# **Technical Committee:**

Prof.K.Bhaskar, NIT, Trichy

Prof. R.Selvaraj, Senior Principal Scientist.

CSIR - CECRI

Prof. G.Elangovan, University College of

Engineering, Pattukkottai

Prof. S.Saranathan, SASTRA University,

Thanjavur

Prof. R.Saravanan, MIET, Trichy

Prof. P.Ellis Yogesh, EGS Pillai, Nagai

Prof. V.A.Shanmugavelu, PMU, Thanjavur





#### DEPARTMENT OF CIVIL ENGINEERING

# NATIONAL CONFERENCE ON INNOVATIVE TRENDS AND ADVANCES IN CIVIL ENGINEERING (NC-ITACE'19)- 16<sup>th</sup> MARCH 2019

Venue: CHERA HALL, Kings College of Engineering

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day National level Conference titled **NC-ITACE** on **16**<sup>th</sup> **March2019**.

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

- Innovative Trends in Civil Engineering
- Advances 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 provides opportunities for academicians and participants to exchange new ideas and uphold experiences face to face, to establish constructions or research relations and to find global partners for future collaboration. 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.K.BASKAR, Professor & Head, Department of Civil Engineering, NIT, Trichy. As every function starts in a auspicious way, the conference was inaugurated with the prayer song. Our vice Principal Dr.S.Sivakumar, also graced the inaugural

session.



**Inaugural Session** 

#### **WELCOME ADDRESS**

The welcome address was given by Mr.K.Ranjith, Organizing Secretary of NC-ITACE'19. He welcomed the Dignitaries on the dais, 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. Then the dignitaries were requested to light the lamp in order to begin the function in an auspicious manner.



Welcome Address



Lighting the Lamp

#### **HONOURING SESSION**

The chief guest was felicitated with shawl by Prof.Dr.S.Sivakumar,Vice Principal and memento as sign of remembrance by Mrs.R.Revathi, HOD/Civil.



Dr.K.Baskar felicitated by our vice Principal, Dr.S.Sivakumar

#### **CONFERENCE THEME & CHIEF GUEST INTRODUCTION**

Mrs.R.Revathi, HOD/Civil & Convenor of NC-ITACE'19 portrayed the conference theme in a detailed manner. She also applicated the academicians and participants from various institutions for their positive response to this conference. Then the Chief Guest was introduced by Mr.K.Arun, Organizing Secretary of NC-ITACE'19. 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.



Conference Theme by Mrs.R.Revathi, HOD/CIVIL



**Introduction of Chief Guest** 

#### PRESIDENTIAL ADDRESS & KEYNOTE ADDRESS

Dr.S.Sivakumar, Vice Principal of our college delivered the Presidential address. He highlighted the importance of Civil Engineering and the need for Civil Engineers in the near future. He also briefed a few points about various alternative trends in Construction industry. Mr.K.Baskar, Professor & Head, 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.K.Baskar, NIT, Trichy

#### **RELEASE OF PROCEEDINGS**

The Conference Proceedings was released by Dr.S.Sivakumar, Vice Principal of our college and received by the chief guest Mr.K.Baskar, Professor & Head, Department of Civil Engineering, NIT, Trichy and jointly felicitated by all the members present on the dais.



Proceedings was released by Vice 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. The selected papers will be published in the journal **IJARBEST.** 





**Technical Session - Student Presentation** 

#### **PARTICIPANT DETAILS:**

TOTAL PAPERS-51

EXTERNAL - 45

INTERNAL- 6

**EXTERNAL PARTICIPANTS-110** 

**INTERNAL PARTICIPANTS-30** 

#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening. The session started with certificate distribution and event feedback. The Conference ended with a vote of Thanks delivered by Selvan.S.Vasanth, of Final Year Civil Engineering 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 students for their passionate efforts with which they carried out the difficult task of making the Conference a grand success.

















CONFERENCE COORDINATOR HOD/CIVIL VP

**PRINCIPAL** 

# National Institute of Technology, Tiruchirappalli: CV of Dr. K. Baskar

#### **Curriculum Vitae**



Dr. K. Baskar is presently working as Professor in the Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, Tamilnadu, India. Obtained his B.E (1994) from Annamalai University and M.E (1996) from College of Engineering, Guindy Anna University, Chennai, and obtained his Ph.D. degree from National University of Singapore, Singapore. He obtained "First class with Distinction" grade for both UG and PG degrees. He has published 37 papers in refereed international journals (with SCI) and around 40 international conference papers (with Scopus). As per the Google scholar, he has 266 citations, h-index as 6 overall and i10-index as 4.

Joined as Directly recruited Assistant Professor (5<sup>th</sup> pay) during May 2007 at NIT Trichy and became Associate Professor during May 2010. He is part of administration from 2007 holding various positions such as Member, Estate Maintenance Committee (2008-2010), Estate Water Management Committee, Associate Dean, P&D (2012-2015), TEQIP Departmental Node (Since 2011), Associate Dean, Admin (IIITT(S)), and presently the Head of the Department of Civil Engineering and many more positions at Institute level and department level as detailed in the below attached resume.

At the institute level, he has taken active participation in many different infrastructural development projects such as SIF Lab (Sophisticate Instrument Facility Lab), Modification of BARN Hall, utilizations of waste water through proper distribution network for gardening purpose, de-silting of lake for proper water storage, renovation of Special Guest Rooms in New Guest house ground floor, development of heli-pad, new water distribution and drainage system in many places, installation of MIG aircraft, multipurpose auditorium covered pathways in ladies hostel and gents hostel zone, walker's friendly pathway in the main avenue road, and etc...

At the department level, he has modernized the structural engineering laboratory with purchase, installation and commissioning of 200 ton capacity column testing frame, 8m span flexural testing facility, 5 ton capacity cyclic load testing facility, new 100 ton UTM, 5 ton capacity Gantry Girder for large scale testing, 1D and 3D accelerometers, LVDTs, NI Data Acquisition system for high sampling rate for dynamic characterization of structural Elements. Presently, this structural engineering research lab is widely used by Ph.D. and PG students to the maximum extent.

He has been the program coordinator for M.Tech Structural Engineering. Curriculum and syllabus is updated very frequently through appropriate Board of Studies. He has guided 3 PhDs, 2 MS and 44 M.Tech. Thesis and, presently guiding 5 PhDs and 3 M.Tech Scholars. He has travelled many countries including South Korea, China, USA, Singapore, Malaysia, Japan, Australia, Vietnam and many universities abroad. He is a member of many professional bodies such as Institution of Engineers, Indian Association for Structural Engineering, Indian Association for Computational Mechanics, Indian Society for Wind Engineering, Indian Geotechnical Society and Indian Society for Technical Education.

# National Institute of Technology, Tiruchirappalli: CV of Dr. K. Baskar

1. Name: Dr. K. Baskar

2. **Designation:** Professor

3. **Office Address:** Department of Civil Engineering, NITT

4. **Telephone (Direct) (Optional):** 0431-2503161

**Telephone:** Extn (Optional): Extn:3161 **Mobile (Optional):** 9790180736

5. Email (Primary): <a href="mailto:kbaskar@nitt.edu">kbaskar@nitt.edu</a> Email (Secondary):

drkbaskar@yahoo.co.in

6. **Field(s) of Specialization:** Structural Engineering

(Area of specialization: Structural Dynamics, Finite Element Analysis, Earthquake Engineering, Steel, Steel-Concrete Composite Structures, Offshore

and coastal structural engineering/management)

#### 7. **Employment Profile**

Organization	Designation	From	To
National Institute of Technology, Trichy – 15. Department of Civil Engineering	Assistant Professor Associate Professor Professor	16.05 2007 16.05.2010 12.03.2018 onward	15.05.2010 11.03.2018
Sona College of Technology, Salem, India Dept. of Civil Engineering	Professor	Feb'06	15 <sup>th</sup> May 2007
University Technology Petronas, Malaysia	Adjunct Faculty	One semester	-
Perisai Petroleum Technology Bhd, Corro-Shield (M) Sdn Bhd, Malaysia	Manager, Research & Development Unit	Jan 2004	Jan 2006
Det Norske Veritas pte Ltd, Singapore	Industry/Structural Engineer	Jan 2002	Dec 2003
National University of Singapore, Singapore	Research Scholar/PhD Research student	June 1998	Dec. 2001
Larsen & Toubro Ltd, ECC-EDC Headquarters, Chennai, India	Design Engineer – Supervisory cadre – A	April 1996	May 1998

#### 8. Academic Qualifications (From UG degree onwards):

Degree	Discipline	Institution	Class/Division	Year of Passing
B.E.	Civil & Structural	Annamalai University, Annamalai Nagar, India	First class with Distinction (81%)	1994
M.E.	Structural Engg.	Anna University, Chennai, India	First class with Distinction (86%)	1996







#### **DEPARTMENT OF CIVIL ENGINEERING**

# ACADEMIC YEAR (2018 -2019) / Batch 2015-2019 PROJECT EXPO 2K19

25.03.2019

#### **REPORT**

- ➤ Project Expo for Final year civil students was conducted on 22.03.2019 for both the sections.
- ➤ The students presented about their Project in the form of Posters & Charts and displayed their sample specimens.
- Each batch was given 10 minutes duration to explain their project. Students explained their projects well & show caused their works in a better manner.
- ➤ A Jury panel comprising of two faculty members evaluated the projects and gave feedback and giving valuable comments about the projects.

#### **IURY MEMBERS:**

1) Mrs.R.Revathi, HOD/CIVIL & 2) Mr.S.Kamaraj, AP/CIVIL

S No	Batch Members	Year/ Sec	Project Title	Category
1	J.AKILAN S.AMAR SELVAN J.HARI HARAN RAGUL.V	IV / A	EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF CEMENT USING MEDICAL WASTE ASH	Innovative Project
2	K.ABARNA A.AISWARYA V.ANU RUTHRA ATCHAYA.A	IV / A	EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF COCUNUT FIBRES AND SEA SHELL IN ROOFING TILES	Best Project

S No	Batch Members	Year/ Sec	Project Title	Category
1	PAVITHRA.K RANJITHA.K RASIKA.K VINOTHA.S	IV / B	EXPERIMENTAL INVESTIGATION ON CARBON NANOTUBE CONCRETE	Innovative Project
2	SUGAPRIYA.B SUVETHA.P.S TAMIL ELAKKIYA.R VINOLIYA.P	IV / B	EXPERIMENTAL REPORT ON FLEXIBLE PAVEMENT BY USING HYDROPHOBIC SILICA, ZEOLITE AND STEEL MESH	Best Project

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 ${\it Students\ presentation\ during\ Project\ Expo\ 2K19}$ 

PROJECT COORDINATOR HOD VP

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### **PRINCIPAL**

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#### CHIEF PATRONS:

Dr.R.Rajendran Secretary Mr.T.R.S.Muthukumaar, MBA, CEO

#### **PATRONS:**

Dr. J. Arputha Vijaya Selvi Principal

#### **CO-PATRONS:**

Dr. S. Sivakumar Vice Principal

#### **ORGANIZING HEAD:**

Dr. R. Saravanan
Professor and Head
Department of Civil Engineering

#### **CO-PATRONS:**

Mr. K. Arun Assistant Professor/Civil

#### WORKSHOP CONTENT:

The workshop will be of two sessions:

SESSION I: Practical surveying.

SESSION II: Total Station.

#### ELIGIBILITY

The students studying Diploma in Civil Engineering and other interested Diploma students.



#### CONTACT

Mail ID: fsatscivil@kingsindia.net

Staff Coordinator: Mr. K. Arun - 9944688536

Student Coordinator: Mr. S. Vasanth – 7397136751



A NAAC Accredited Institution

WORKSHOP ON

# FUNDAMENTAL SURVEYING AND TOTAL STATION

Organized by

DEPARTMENT OF CIVIL ENGINEERING

EXCLUSIVE FOR DIPLOMA STUDENTS

16 FEB 2018



# **About the Institution**

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(AICTE).New Delhi and is affiliated with Anna University. Chennai This institution was established in the year 2001 on the sprawling campus of around 60 acres on the Thanjavur - Pudukkottai Highways and run by Raj Educational Trust (RET). Chennai. The Institution offers six UG and five PG programmes and certified with ISO 9001.2008. The state of art teaching methodologies is used to impart high quality education to the students including e-learning

# **About the Department**

The Department of Civil Engineering was established ion the year 2010, offering UC programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong strong research experience in various field of structural soil Mechanics, Foundation Engineering, Environmental Engineering, Architecture, surveying and Remote Sensing and GIS A faculty member had contribution to technical journals, conferences, R & D activities etc., in Civil Engineering The Civil Engineering Association organizes various activities and events, to unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving in industry - institute interaction, research and development of students and services to society etc.

# **About the Workshop**

The main objective of this workshop is to enrich the diploma students by providing a handful practical experience in surveying and Total station. Since surveying and Total station are most valuable topic in Civil Engineering, they add a bonus point for the guaranteed jobs The workshop will be of two session in which the first session covers the field surveying and second session covers the Total Station.





WORKSHOP ON
FUNDAMENTAL SURVEYING
AND TOTAL STATION

REGISTRATION FORM

NAME:

YEAR OF STUDY:

INSTITUTION:

ADDRESS:

CONTACT:

MAIL ID:







# ONE DAY WORKSHOP ON

#### "FUNDAMENTAL SURVEYING & TOTAL STATION"

Venue: CHERA HALL, Kings College of Engineering Date: 16.02.2018

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day workshop on "FUNDAMENTAL SURVEYING & TOTAL STATION" for diploma civil students on 16.02.2018. It aims to provide a platform for the diploma students to acquire basic knowledge about surveying and total station. The workshop also focuses to carry out practical sessions in site marking and to extend hands-on experience in total station.

#### **INAUGURAL SESSION**

The workshop was inaugurated by the Principal, Dr.J.Arputha Vijaya Selvi. As every function starts in a auspicious way, the workshop was inaugurated with the prayer song. As many as 209 participants from various polytechnic colleges participated in the workshop. The welcome address was given by Selvi.C.G.Nithya, of third year Civil Engineering. She welcomed the Dignitaries on the dais, faculty members and the students from various polytechnic colleges across the state. She also added that she is very much delighted to see more external participants from various reputed instituitions.





**Inaugural Session** 

#### **HONOURING SESSION**

The chief guest was felicitated by shawl and memento as sign of remembrance by Prof.Dr.R.Saravanan, HOD/Civil and Mrs.R.Revathi, AP/Civil.



Felicitating the Principal

#### **PRESIDENTIAL ADDRESS**

Dr.J.Arputha Vijaya Selvi, Principal graced the occasion as chief guest and delivered the presidential address. In her address, she elucidated the rising technology and various opportunities in civil Engineering field. She also insisted that the possibility is in every hand, the students have to make use of those various opportunities for their career. She also briefed the importance of Civil Engineering in various aspects. Finally while concluding, she encouraged the participants to make use of the college infra structure during the practical sessions.



Principal addressing the audience

#### **SESSION I**

The Session I was handled by Mr.K.Arun, AP/Civil. He presented about the Fundamental surveying and factors to be known by a Civil Engineering in construction site. He also detailed about measurements and Unit conversions. He also narrated the diagonal and right angle checking methods using thumb rule. Finally he finished the session by highlighting basic construction vastu for drawing plans.





Session I handled by Mr.K.Arun.AP/Civil

#### **SESSION II**

The Session II was handled by Mrs.R.Revathi, AP/Civil. She presented about the site marking as per the drawing. First she explained the aspects of site marking in white board, and after that she accompanied the participants to the site and handled practical sessions on site marking. A residential plan with centre line drawing was issued in the workshop kit. She briefed about the plan marking to be carried over at the site.





Session II handled by Mrs.R.Revathi, AP/Civil

#### **SESSION III**

Session III was practically handled in the site. Students were provided a residential plan with centre line drawing. With the help of Pegs, Tape and line powder participants marked the plan in the site and their doubts were clarified.









**Session III - Practical Session on Site Marking** 

#### **SESSION IV**

The Session IV was handled by Mr.R.Sundharam, AP/Civil. He presented about the Total station and its functions. He briefed about the working principle behind total station and also stated the various uses of total station. With latest technologies the total station will play a major role in surveying and construction industry. Hence he insisted the participants to gain enough knowledge on total station. After that he guided the students to the site and handled practical session using total station. Students were given small assignments like horizontal measurement and area calculation using total station.





Session IV handled by Mr.R.Sundharam, AP/Civil

#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening which was graced by the Vice Principal Dr.S.Sivakumar. The session started with the sparkling speech from Vice Principal, who highlighted the civil engineering career opportunities. Next was the feedback session, in which the external participants gave their valuable feedbacks. Finally the participants were awarded with a certificate as a appreciation of their efforts during the workshop. The Symposium ended with a vote of thanks delivered by Selvan.S.Vasanth of third Year Civil Engineering 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 lauded the participants for their passionate efforts with which they carried out the marvellous task of making the workshop a grand success.





Certificate Distribution in the Valedictory Session

66





































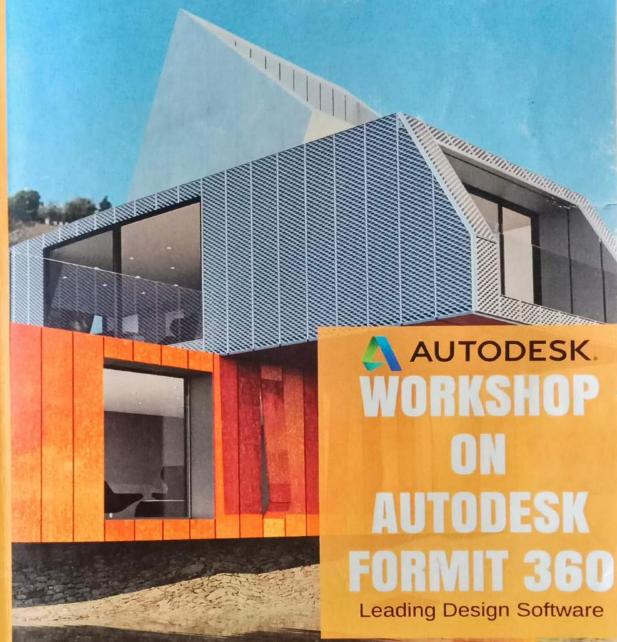
WORKSHOP COORDINATOR

HOD/CIVIL

J. Proposition 18



DEPARTMENT OF CIVIL ENGINEERING PROUDLY PRESENTS



M.P.SALAIMANIMAGUDAM



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# F AUTODESK FORMIT 360

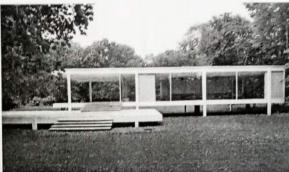
#### The FormIt 360 Primer

Version 0.1 July 13, 2016

#### **Building the Farnsworth House**

In this tutorial, we are going to build an entire historic modernist house in just under two hours!





#### Prerequisites for this Tutorial:

- Download Formit 360 for Windows from: http://formit360.autodesk.com/page/download
- Running FormIt 360 for Windows requires a subscription to FormIt 360 Pro, which can be purchased from: http://www.autodesk.com/store/products/formit-360-pro
- . Optionally, you can start a 30 day trial from the start up screen
- Revit 2016 or 2017. Note: this is only required for the section on Revit Interopability.

**Note:** If you cannot run FormIt 360 for Windows, the majority of the tutorial can be completed using the free Web version: http://formit360.autodesk.com/app

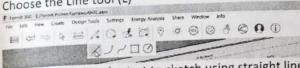
Page 2

© 2016 Autodesk

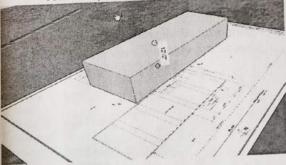
# 3D Sketching

Placing primitives is fine, but the real power of FormIt lies in the ability to sketch in 3D. You got a sneak peak at the placing printed by the snapping system when you used the Rotate tool in the last exercise. If you did not complete the last section, click the File > Open and choose farnsworth01.axm from the FormIt Primer folder

- 3D Sketching with lines 1. We are going to first Group the image plane. This will prevent sketched lines from "sticking" to it. Select the plane by double-clicking it, right-click and choose Group (G)
  - 2. Click the Pencil to open the Sketching Toolbar
  - 3. Choose the Line tool (L)



- You can immediately start to sketch using straight lines segments
  - a. The red, green and blue axes display to allow you to sketch in 3D without leaving the tool
  - b. The purple axis displays an axis relative to the lines you are currently drawing
  - c. Hold down the Shift key while dragging a line segment to lock to the current axis
- 5. Start with creating a rectangle on the ground plane
  - a. Click Settings > turn off Snap to Grid (S G)
  - b. With the Line tool, click on one corner of the imported sketch. Drag along to define one edge of the
  - c. Use the Tab key to input exact dimensions. Make the long side 77'-4 1/8" and the short side 28'-8"
  - d. Press Esc. You are back in Select mode. You can now select the top face and immediately pull the volume up 12'2"



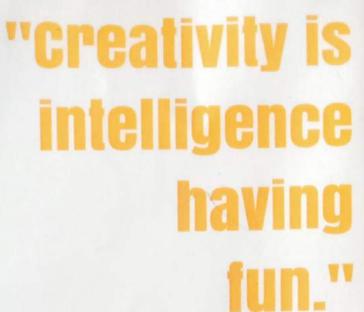
Note: the red and green axes keep you at 90 degrees. When you draw at an angle to the grid, a purple guide will allow you to stay 90 degrees relative to your current line.

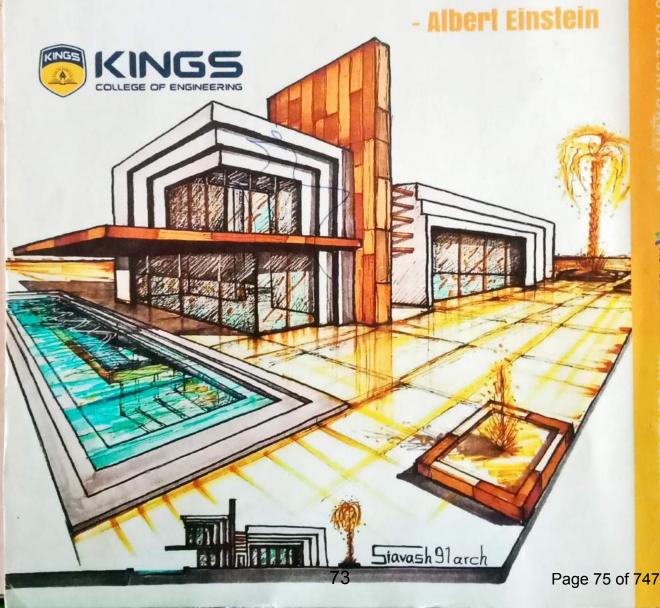
The following exercise is not critical to finishing the house. It will allow you to experiment with some of the other 3D Sketching tools.

- 1. Click to open the Sketching Toolbar
- 2. Select the Arc tool
  - a. Click to define the first and second point similar to the Line tool
  - b. The third drag defines the radius of the circle that defines the arc
  - c. Note: as with all sketching tools, you can use the red snap points to snap to other objects in the scene
- 3. Select the Spline tool
  - a. Click to define any number of points to dra a spline



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# Certificate of completion

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Name

AUTODESK FORMIT 360

Course Title

Autodesk BIM 360

Product

Rajesh Yadav

najesii radav

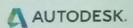
2018-02-19 8 hours

Instructor

Date Course Duration

Vinsys IT Services India Pvt Ltd

Autodesk Authorized Training Center.



# **Chief Patron**

Dr.R.Rajendran Secretary Mr.T.R.S.Muthukumaar, MBA, CEO

## **Patron**

Dr. J. Arputha Vijaya Selvi Principal.

## Co-Patron

Dr. S. Sivakumar, Vice Principal.

# **Conference Chair**

Dr. R. Saravanan HOD (CIVIL)

# Organizing Secretaries

Mr. R.Sundharam, AP/CIVIL Ms. S.Vanathi, AP/CIVIL

# Visit the Campus

Department of Civil Engineering Kings College of Engineering, Punalkulam, Thanjavur – 613 303, Tamil Nadu, INDIA www.kingsindia.net

# **Important Dates**

Submission of Full Paper : 26.02.2018

Notification of Acceptance: 06.03.2018

Last date for registration : 12.03.2018

Conference date : 21.03.2018

# **Registration Fee**

UG students/PG students : Rs. 300/-

Faculty /Research Scholars: Rs. 750/-

Industrialist : Rs. 1000/-

# For More Information



# National Conference on

Advanced Techniques in Concrete, Environmental and Geotechnical Engineering

21<sup>st</sup> MARCH 2018

# **NCON'2018**

Organized by

Department of Civil Engineering



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# "Creativity is intelligence having fun."

**ALBERT EINSTEIN** 

# Conference theme

- Recent innovation in the field of Civil Engineering
- Removal of Industrial effluent by advanced treatment method
- · GPS Surveys: Static, Differential & Real Time
- Water Resource Engineering
- Environmental Engineering
- Geotechnical Engineering
- GIS and Remote Sensing Applications
- Behaviour of fiber reinforced concrete
- Load deformation behaviour of confined concrete.
- Transport and traffic modelling
- Pavement materials Characterisation

## **About the Institution**

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 (AICTE), New Delhi and is affiliated with Anna University, Chennai. The Institution was established in the year 2001 on the sprawling campus of around 60 acres on the Thanjavur – Pudukkottai Highway and run by Raj Educational Trust (RET), Chennai. The Institution offers six UG and five PG programmes and certified with ISO 9001:2008. The state of the art teaching methodologies is used to impart high-quality education to the students including e-learning.

# **About the Department**

The Department of Civil Engineering was established in the year 2010, offering UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of Structural, Soil Mechanics, Foundation Engineering, Environmental Engineering, Architecture, Surveying and Remote Sensing & GIS. A faculty member had contribution to technical journals, conferences, R & D activities etc., in Civil Engineering. The Civil Engineering Association organizes various activities and events, to unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving industry- institute interaction, research and development, development of students and services to society etc.

### **About the Conference**

It aims to provide a platform for academics, 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.

# **Paper Format**

Full Paper not exceeding 5 pages should be submitted in IEEE double column format (soft copy in MS-Word as E-mail attachment). After acceptance, 2 hard copies of the paper along with Registration Fee in the form of Demand Draft should be submitted.

# **Advisory Committee**

Dr. G.Elangovan, Dean, UCE, Pattukkotai Dr.R.Manjula, Asst.Prof, NIT, Trichy. Dr.R.Saravanan, Asst.Prof, WRO Department, Anna Uinversity, Chennai

## **Technical Committee**

Dr.M.Sivaraja,

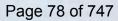
Principal, NSN College of Engineering, Karur

Dr.K.L.Muthuramu,

Principal, Shanmuganathan Engineering College Pudukkottai

Dr. R.Senthamil Kumar, Periyar Maniammai University, Vallam











#### DEPARTMENT OF CIVIL ENGINEERING

# NATIONAL CONFERENCE ON ADVANCED TECHNIQUES IN CONCRETE, ENVIRONMENTAL AND GEOTECHNICAL ENGINEERING (NC-ATCEGE'18)- 21st MARCH 2018

Venue: Chera hall, Kings College of Engineering Date: 21.03.2018

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised a One day National level Conference titled **NC-ATCEGE** on **21 March2018**.

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

- Recent innovation in the field of Civil Engineering
- Removal of Industrial Effluent by Advanced Treatment Method
- GPS Surveys: Static, Differential & Real Time
- Water Resource Engineering
- Environmental Engineering
- Geotechnical Engineering
- GIS and Remote Sensing Applications
- Behaviour of various advanced Concrete
- Load Deformation Behaviour of Confined Concrete.
- Transport and traffic modelling
- Pavement materials Characterisation

This conference provides opportunities for different areas delegates to exchange new ideas and application experiences face to face, to establish Constructions or research relations and to find global partners for future collaboration. The major goal and feature of the conference is to bring academic scientists, 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 at inaugural function, Dr.R.Selvaraj, Senior Principal Scientist, CSIR-CECRI, Karaikudi. As every function starts in a auspicious way, the conference was inaugurated with the prayer song. As many as 50 participants from various engineering colleges participated in the conference.



**Inaugural Session** 

#### **WELCOME SESSION**

The welcome address was given by Ms.D.Sharmila, Asst.Prof, and Department of Civil Engineering. She welcomed the Dignitaries on the dais, faculty members and the students from various colleges across the state. She also added that she is very much delighted to see more external participants from various reputed colleges.



Welcome Address

#### **HONOURING SESSION**

The chief guest was felicitated by shawl and memento as sign of remembrance by Prof.Dr.S.Sivakumar,Vice Principal.



Dr.R.Selvaraj receiving Shawl and memento from Dr.S.Sivakumar,Vice Principal.



Dr.S.Sivakumar receiving Shawl and memento from Dr.R.Saravanan,HOD/CIVIL

#### **INTRODUCING THE CHIEF GUEST**

The Chief Guest was introduced by Ms.S.Vanathi, Asst.Prof, Department of Civil Engineering, Organizing Secretary, and NC-ATCEGE'18. She elaborated the qualification and work experience of the chief guest. She also detailed about his conference publications and various responsibilities held by the chief guest.

#### **PRESIDENTIAL ADDRESS**

Dr.R.Selvaraj, Senior Principal Scientist, CSIR-CECRI, Karaikudi graced the occasion as chief guest and delivered the presidential address. In his address, he lauded the Management and the academic administration of the institute for hosting a National Conference every year. He explained about the rising technology in civil Engineering field. He insisted that the opportunity is in every hand, the students have to make use of those various opportunities for their career. He also briefed a few points in various alternative materials in Concrete. It was educative experience which offered the audience a rare opportunity to get a glimpse on the key note topics.



Chief Guest addressing the audience

#### **RELEASE OF PROCEEDINGS**

The Conference Proceedings was revealed by the chief guest Dr.R.Selvaraj and received by Dr.S.Sivakumar, Vice Principal, and jointly felicitated all the members present.



Proceedings was released by Chief Guest and received by HOD.

#### **EVENTS**

All the participants presented the papers in various domains. The selected papers will be published in **IJARBEST**.

#### **PARTICIPANT DETAILS:**

**TOTAL PAPERS-72** 

EXTERNAL -47

**INTERNAL-25** 

**EXTERNAL PARTICIPANTS-83** 

**INTERNAL PARTICIPANTS-58** 



Session- I Student Presentation



**Queries from Panel Members** 

#### **VALEDICTORY SESSION**

The valedictory session was conducted in the evening. The session started with certificate distribution. The Conference ended with a vote of Thanks delivered by Selvi.I.Lydia of Second Year Civil Engineering who expressed his 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 lauded the students for their passionate efforts with which they carried out the arduous task of making the Symposium a grand success.

## **SOME CHERISHING MOMENTS....**









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HOD/CIVIL

PRINCIPAL

J. 1000 [0]4/18.







#### **DEPARTMENT OF CIVIL ENGINEERING**

# ACADEMIC YEAR (2017 -2018) / Batch 2014-2018 PROJECT EXPO

22.03.2018

#### **REPORT**

- ➤ Project Expo for Final year civil students was conducted on 16.03.2018 for both the sections.
- ➤ The students presented about their Project in the form of Posters & Charts and displayed their sample specimens.
- ➤ Each batch was given 10 minutes duration to explain their project. Students explained their projects well & show caused their works in a better manner.
- ➤ A Jury panel comprising of two faculty members has been nominated by our HOD for Evaluation, feedbacks and giving valuable comments about the projects

#### **IURY MEMBERS:**

1) Mrs.R.Revathi & 2) Mr.G.Venkatesan

S No	Batch Members	Year/ Sec	Project Title	Position
1	A.Anand, R.Balakumaran, C.Harihara sudhan, P.Manikandan	IV / A	Utlization of waste plastic in manufacturing of sand plastic brick	I
2	L.Bharathi, A.Durgadevi, D.Kavipriya	IV / A	Experimental study on the partial replacement of coarse aggregate by cocunut shell and with additional of chicken feather in concrete	II

S No	Batch Members	Year/ Sec	Project Title	Position
1	M.P.Salai Maninagudam	IV / B	Design and Experimental optimisation of dynamic building skin by BIM	I
2	S.Karthik, K.Saravanan, A.Ajith, M.Ranjith Kumar	IV / B	Experimental investigation on concrete by partial replacement of cement by using GGBFS and added with humar hair	II









Students presentation during Project Expo

PROJECT COORDINATOR

HOD

**VICE PRINCIPAL** 

**PRINCIPAL** 







# DEPARTMENT OF CIVIL ENGINEERING ONE DAY NATIONAL LEVEL WORKSHOP

ON

#### ADVANCEMENT IN GEO-TECHNICAL ENGINEERING

Venue: Av Hall, Kings College of Engineering

Date: 17th August, 2016

#### **Background & Objective**

A National level Workshop on "Advancement in Geo-Technical Engineering" under Department of Civil Engineering was held on 28th March, 2016 at Kings College of Engineering. It aims to provide a platform for the students, who are good in academics, research on the latest advances in Civil Engineering.

In view to it, a perfect resource person was identified (Mr.S.Vijayabhaskaran – Associate Professor, Higher College of Engineering, Oman) and requested to give their presence in order to boom the interest of students towards research field.

#### Inaugural Session

On 17th August, 2016 by 10.45 am, the workshop has started with incantation given by P.Subasri Third Year Civil Engineering Students. Then the workshop officially inaugurated by following the below mentioned order and dignitaries present Chief Guest Mr.S.Vijayabhaskaran, Dr.R.Saravanan (HOD-CIVIL), Mr.A.Mohamed Mansoor (Workshop Coordinator) and Mr.K.Arun.

#### Welcome Session

In the welcome session, M.P SalaimaniMagudam Third Year, Student of Civil Engineering Department welcomed the gathering.

#### **Thematic Session**

In this Thematic Session, Mr.A.Mohamed Mansoor, Assistant Professor, Civil Engineering Department and Workshop Coordinator explained the theme of the workshop on "Advancement in Geo-Technical Engineering" which is most appropriate theme in today's global environment and also the suitable engineering practice should meet human needs.

#### **Introducing Session**

Then, the chief guest of the inaugural function, Mr.S.Vijayabhaskaran -Associate Professor, Higher College of Engineering, Oman, was introduced by Mr.K.Arun., Assistant Professor, Civil Engineering Department about his career track and the awards and achievements received by him. Also she pointed various post held by him.

#### **Honouring Session**

The chief guest was felicitated by shawl and memento as sign of remembrance by Dr.R.Saravanan (HOD-CIVIL).

#### **Leading Session**

Prominent Thinker **Dr.R.Saravanan**, **HOD** – **Civil** delivered the presidential speech. HOD appreciated the endeavours of the workshop chair, organizing members and their passion to organize the workshop. He also explained the importance of organizing workshop which will bring together the academic & research fraternity and such activities give a platform towards their research work.

#### **Inaugural Address**

Mr.S.Vijayabhaskaran -Associate Professor, Higher College of Engineering, Oman, graced the occasion as Chief Guest and delivered the inaugural address. He congratulated the management and organizing members for organizing workshop at grant level. He advised both students and faculties to give importance to experience learning instead of classroom teaching. Then he was followed by the invited talk after the tea break.

#### Valedictory Session

The workshop concluded with the valedictory programme. Dr.R.Saravanan, HOD – Civil & Chief Guest Mr.S.Vijayabhaskaran distributed the certificates and Dr.R.Saravanan, HOD – Civil highlighted that the talks delivered by Chief Guest contributed in making the event a great learning experience.

The Programme was wound up with vote of thanks delivered by **E.Bharathi**, Third Year, and Student of Civil Engineering Department who expressed her sincere gratitude to the esteemed Chief Guest for spending their precious time for the occasion. She heartily thanked the management, principal, HOD – Civil, all faculty & staff members and students were lauded for their fervent efforts with which they carried out the strenuous task of making the workshop a grand success.

#### **Participants Details**

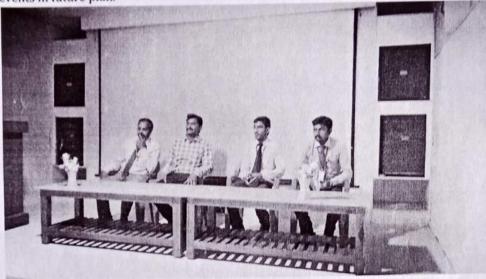
98 Internal Participants

09 External Participants

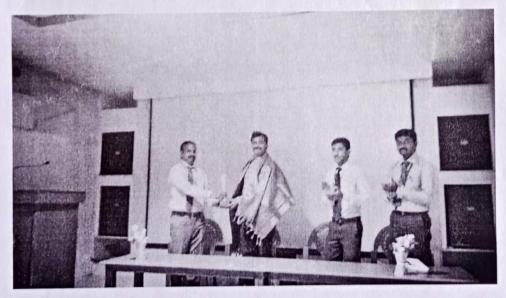
#### **Feedback Details**

Feedback for the programme has been collected from internal and external participants; the overall rating mentioned by the students is good. They mentioned to conduct some

events in future plan.

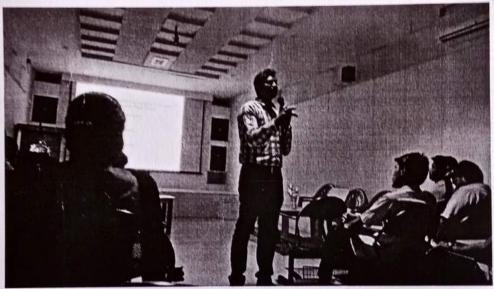


**Dias Members** 

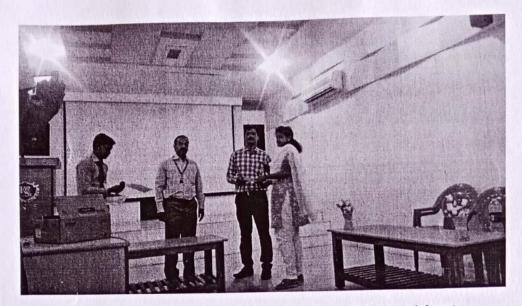


Dr.R.Saravanan HOD - CIVIL, Honouring the Chief Guest





Mr.S.Vijayabhaskar - Chief Guest, Handling the Session



Chief Guest, HOD - CIVIL, Distributing Certificates to the Participants

WORKSHOP COORDINATOR

(A) MOHAMED MANGOORI)

Enclosure & - Presentation details.

HOD-CIVIL

#### Patron

Dr. S. Durairaj B.E., M.E., Ph.D., PDF., BOYSCAST Fellow, Principal.

#### Co-Patron

Dr. J. Arputha Vijaya Selvi,

Dean, R & D.

Dr. S. Sivakumar,

Vice Principal.

#### Conference Chair

Dr. R. Saravanan B.E., M.E., Ph.D., HOD (CIVIL)

#### **Organizing Secretaries**

Mrs. R.Revathi, M.Tech., AP/CIVIL
Ms. T.Bhuvaneswari, M.Tech., AP/CIVIL

#### **Advisory Committee**

Prof. M.Sivaraja, NSN College of Engg., Karur

Prof. P.Anbazhagan, IISC, Banglore

Prof. G.Venkatesan, BIT, Trichy

Prof. G.Elangovan, UCE, Thirukkuvalai

Prof. R.Annadurai, SRM, Chennai

Prof. S.Ramana Gopal SSN, Kalavakkam

#### **Technical Committee**

Dr. Kushal. P. Singh, Principal Scientist, NGRI, Hvderabad

Prof. S. Mohan, IIT Madras

Prof. R.Manjula, NIT, Trichy

Prof. C. Sivapragasam, Kalasalingam University,

Srivilliputhur

Prof. R.Senthamil Kumar, PMU, Vallam

Prof. G.Elangovan, UCE, Pattukkotai

#### Registration Fee

UG students : Rs. 300/-

PG students/

Faculty Members/

Research Scholars : Rs. 500/-Industrialist : Rs. 1000/-

#### **Important Dates**

Submission of Full Paper : 05.12.2016

Notification of Acceptance : 09.12.2016

Last date for registration : 12.12.2016

#### **Contact Address**

Organizing Secretaries
Department of Civil Engineering
Kings College of Engineering, Punalkulam,
Thanjavur - 613 303, Tamil Nadu, INDIA
E-mail: ncetcce2016@gmail.com
Phone: +91-9894894647, 9994961305

www.ncetcce2016.wordpress.com

# National Conference on Emerging Trends and Challenges in Civil Engineering

29th December 2016

Organized by

Department of Civil Engineering





#### KINGS COLLEGE OF ENGINEERING

NAAC ACCREDITED INSTITUTION

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

www.kingsindia.net

#### About the Institution

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 (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institution was established in the year 2001 on sprawling campus of around 60 acres on the Thanjavur -Pudukkottai Highway and run by Raj Educational Trust (RET), Chennai. The Institution offers six UG and five PG programmes and certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

#### **About the Department**

The Department of Civil Engineering was established in the year 2010, offering UG programme. It is well equipped with research laboratories and has dedicated staff members. The faculty members of the department have strong research experience in various fields of

Foundation Structural. Soil Mechanics. Engineering, Engineering, Environmental Architecture, Surveying and Remote Sensing & GIS. A faculty member has contribution to technical journals, conferences, R & D activities etc., in Civil Engineering. The Civil Engineering Association organizes various activities and events, to unfold the prospects of Civil Engineering in the present day world. The department has been engaged in various activities involving industry - institute interaction, research and development, development of students and services to society etc.

#### **About the Conference**

It aims to provide a platform for academics, 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.

#### Conference theme

- Recent innovation in the field of Civil Engineering
- Removal of Industrial effluent by advanced treatment method

- GPS Surveys: Static, Differential & Real Time
- Water Resource Engineering
- Environmental Engineering
- Geotechnical Engineering
- GIS and Remote Sensing Applications
- Behaviour of fiber reinforced concrete
- Load deformation behaviour of confined concrete.
- Transport and traffic modelling
- · Pavement materials Characterisation

#### **Paper Format**

Full Paper not exceeding 5 pages should be submitted in IEEE double column format (soft copy in MS-Word as E-mail attachment). After acceptance, 2 hard copies of the paper along with Registration Fee in the form of Demand Draft should be submitted.

#### **Organizing Committee**

#### **Chief Patron**

Smt. Sharmila Rajaa B.E.,
Chief Financial Officer
Mr. T.R.S. Muthukumaar M.B.A.,
Chief Executive Officer







# **National Conference**

On

# Emerging Trends and Challenges in Civil Engineering

(NC-ETCCE -2016)

29th December, 2016

# **POST CONFERENCE REPORT**

SUBMITTED BY

Department of Civil Engineering
Kings College of Engineering
Punalkulam
Pudukkottai - 613 303
92

# KINGS COLLEGE OF ENGINEERING

# DEPARTMENT OF CIVIL ENGINEERING

National Conference on Emerging Trends and Challenges in Civil

Engineering

(NC-ETCCE -2016)

Venue: Chera hall, Kings College of Engineering

Date: 29-12-2016

#### **BACKGROUND & OBJECTIVE**

Department of Civil Engineering, Kings College of Engineering organised its Second National Conference titled *Emerging Trends and Challenges in Civil Engineering* on 29<sup>th</sup> December 2016.

It aims to provide a platform for academics, researchers, industry experts and architects to swap over their ideas on the emerging trends in Civil Engineering. The conference was well attended by eminent academicians, faculty members and students from reputed technical and educational institutions. The Conference focuses to collaborative R & D works and new projects with end results of sharing knowledge among the participants.

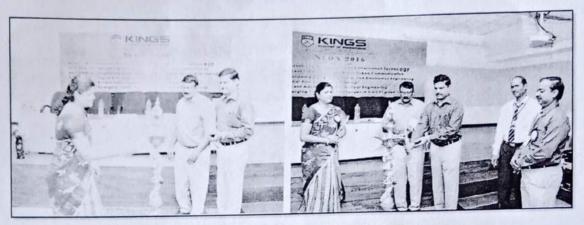
#### **INAUGURAL SESSION**

The conference was inaugurated by the Chief Guest at inaugural function, Prof. Dr.R.Manjula, National Institute of Technology, Trichy on 29th morning.



Dignitaries on the Dais.

As every auspicious function starts with a traditional way, light being the source of all transitions and transformations, the conference officially inaugurated by lighting of lamp of wisdom kuthuvillaku by the Chief Guest, Dr.S.Durairaj, Principal and Dr.R.Saravanan, Conference chair.



Lightning of Lamp by Chief Guest and Principal.

#### WELCOME SESSION

The welcome address was given by Conference Chair. He welcomes the gathering and explained the theme of the conference which is the most appropriate theme in today's environment.

#### HONOURING SESSION

The chief guest was felicitated by shawl and memento as sign of remembrance by Conference Chair along with dignitaries on the dais.



Dr.R.Manjula receiving a memento from Dr.R.Saravanan, Conference Chair.

#### LEADING SESSION

Dr.S.Durairaj, Principal delivered the presidential address. Principal appreciated the endeavours of the Conference Chair, Organizing secretaries and faculty members and their enthusiasm to organize the conference. He explained the importance of organizing such Conferences which will bring together the academic & research fraternity and such activities give a platform to present their research work. He advised the gathering to give more emphasis to the research towards sustainable concepts.



Principal Delivering the Presidential Address.

## INTRODUCING SESSION

Then the Chief Guest was introduced by Ms.T.Bhuvaneswari, Assistant Professor, Department of Civil Engineering and one of the Organizing secretary of the Conference about her career track and the awards and achievements received by her.



Ms.T.Bhuvaneswari, Assistant Professor, Civil Engineering, Introducing the Chief Guest. 97 of 747

#### INAUGURAL ADDRESS

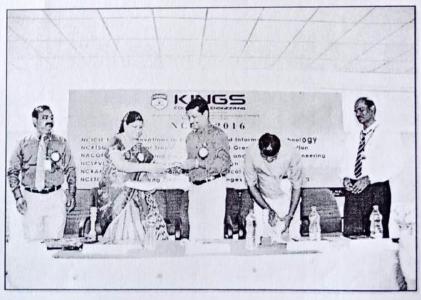
Dr.R.Manjula, NIT., Trichy graced the occasion as chief guest and delivered the inaugural address. In her inaugural address, she lauded the Management and the academic administration of the institute for hosting a national conference every year. She explained about the rising technology in network as well as in civil Engineering field. She insisted that the opportunity is in every hand, the students have to make use of those various opportunities for their career.

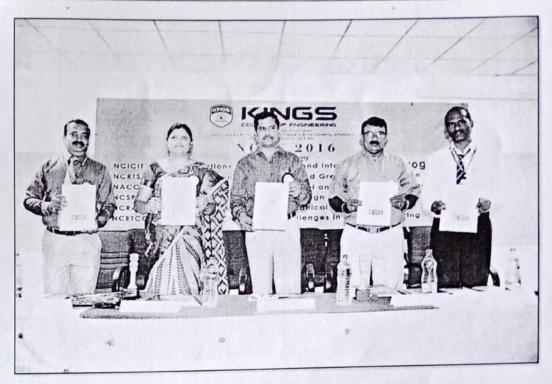


Chief Guest addressing the audience

#### RELEASE OF PROCEEDINGS

The conference proceedings was revealed by the chief guest and received by Principal and jointly felicitated all the guests present.

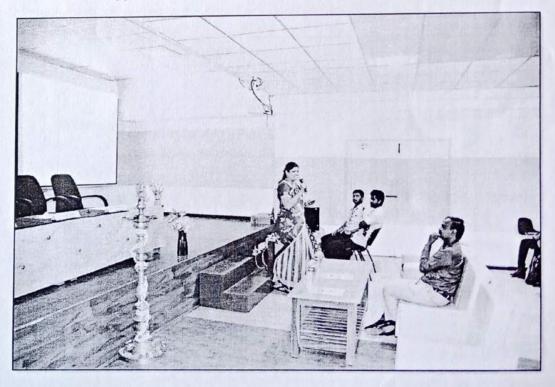




NC-ETCCE'16 Proceedings Release

# INVITED TALK BY THE CHIEF GUEST

The inauguration was followed by the Invited talk of Dr.R.Manjula on "Challenges in Disaster Management and Mitigation". It was an educative experience which offered the audience a rare opportunity to get a glimpse on Disaster management.



Invited Talk by to Chief Guest



Students examining the Chief Guest lecture

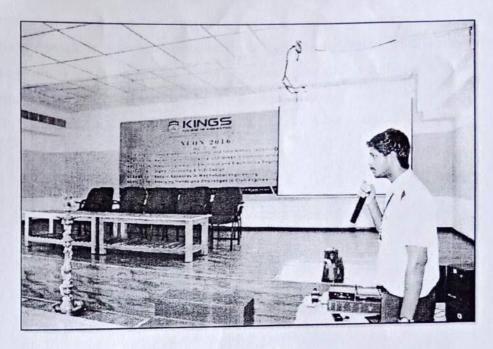
#### **TECHNICAL SESSION**

Then the first technical session started. Ms.K.Gowri Devi, Assistant Professor, Kings College of Engineering was the Chair person of the Session. Participants from Various Institution have presented their research papers. Some of the papers reflected brilliant ideas and effort. 9 Papers were presented in the First Technical Session.



A Technical Paper Being Presented.

In the afternoon, the second Technical session started and 15 papers were presented during that session.



A Technical Paper Being Presented

#### VALEDICTORY SESSION

During the valedictory program conducted in the evening, the Conference chair Dr.R.Saravanan delivered the Conference report and highlighted the fact that the talks delivered by the young researchers contributed in making the event a great learning experience and the certificates to the participants too were given away.



The Program was ended with a vote of Thanks delivered by Mrs.R.Revathi, Assistant Professor, Department of Civil Engineering and one of the Organizing secretary of the Conference 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 students were lauded for their passionate efforts with which they carried out the arduous task of making the Conference a grand success.



Organizing Secretary Mrs.R.Revathi delivered the Vote of Thanks

After the valedictory program, the conference came to an end, leaving fond memories in the minds of the guests and delegates and a great sense of satisfaction and accomplishment in all members of the faculty and staff and student volunteers who were associated with its preparation and organisation over a period of three months.

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ORGANIZING SECRETARIES

CONFERENCE CHAIR

PRINCIPAL

Dr. R. Manjula Assistant Professor, Civil Engineering Department, NIT Trichy

Qualification	University/ Board	Year of Passing	Performance	Percentage of Marks
S.S.L.C	Board of Sec. Edu, Tamil Nadu	Apr. 1992	First Class	87.00
H.S.C	Board of Hr. Sec. Edu. Tamil Nadu	Mar. 1994	First Class	79.40
B.E. (Civil)	MepcoSchlenk Engineering College, Sivakasi	May 1998	First Class (University 5 <sup>th</sup> Rank)	85.90
M. Tech (Water Resources Engineering and Management)	National Institute of Fechnology	December 2003	First class with Distinction (Class Topper)	9.81 CGPA
Ph.D (Ocean Engineering)	Indian Institute of Technology , Madras, Chennai	December 2013	First class with Distinction	9.0 CGPA (Course work)

Title of Ph.D thesis: Response of Slender vertical cylinder due to Breaking Wave Impact
Title of B.E Project: Design of cots and Apron industry using STAAD and Auto Cad.
Title of M.Tech Project: Identification of Artificial Recharge Zones using Integrated GIS
Core and Elective Courses at Ph.D:

Coastal Engineering

Non Linear Problems in ocean Engineering
Research Methodology
Port and Harbour Structures
Simulation Modelling in Water Resources

Electives at M. Tech Level

: Hydraulic Structures Computer Application GIS and remote sensing in water

Management

Environmental Impact Assessment

Electives at B.E level

: Material Science, Transportation Engineering and Management Hydrology

Experimental Stress Analysis







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# ACADEMIC YEAR 2020-2021 / ODD SEMESTER

## REPORT

Type of the Event

Webinar

2. Name of the Event

"How to stand out in a very competitive job market"

3. Objective

To make the students to know about the current

industry trends and expectations of the industry

4. Date & Duration

: 26.09.20 & One Day

Resource Person

Mr.K.Illakuvan

CRM - Front End Developer, Zoho Corp Pvt Ltd, Chennai

Mr.S.Srinath,

Technical Lead, TCS Chennai

6. Level of the Event

Department Level

7. Name of the organizer

R.Sugantha Lakshmi /CSE

8. Target Group

II, III & IV Year

9. Platform

Google Meet(https://meet.google.com/goh-utvi-ucy)

10. No of Participants

53

11. Outcome

Students acquired knowledge on

The current industry needs and expectations

· How to equip themselves for getting job in industry

How to prepare themselves for the interviews and areas of improvement for seeking july.

Co-ordinator

HOD/CSF

PRINCIPAL







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

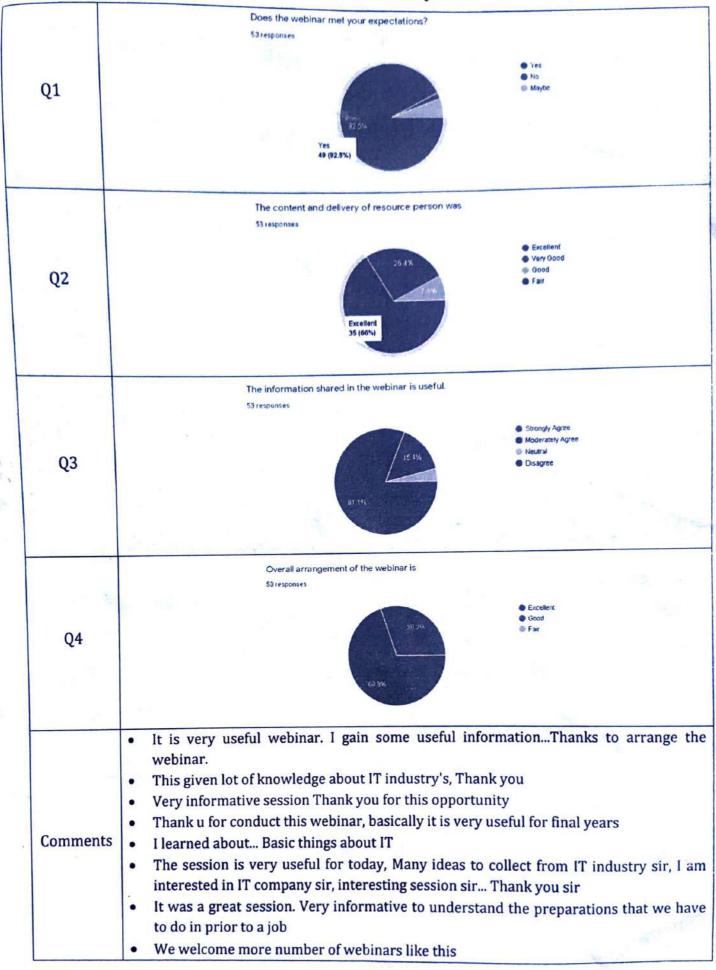
ACADEMIC YEAR 2020 -2021/ ODD SEMESTER



#### WEBINAR REPORT

A one day webinar titled "How to Stand-Out in a very Competitive Job Market" was organized on 26.09.2020 for our CSE students with an objective of making the students to get deeper into the current industry trends and expectations of the industry. Our Alumni Mr.K.Illakuvan, CRM - Front End Developer, Zoho Corp Pvt Ltd, Chennai and Mr.S.Srinath , Technical Lead, TCS Chennai handled the session. 53 students and the department staff members attended the session. Programme was coordinated by Ms.R.Sugantha Lakshmi AP/CSE. The webinar highlighted on the current industry needs , their expectations, job opportunities, equipping themselves for getting job in industry, preparing themselves for the interviews ,areas of improvement for seeking job ,improving communication skills .

# **Feedback Analysis**









#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### ACADEMIC YEAR 2020 - 2021 EVEN SEMESTER

#### Online Workshop on "IoT & its Application" on 21.05.2021

Department of Computer Science & Engineering and students branch of IEEE jointly organized an online workshop on "IoT & its Application" on 21.05.2021

#### OBJECTIVE

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

#### RESOURCE PERSON DETAILS

Dr.K.Santhi, M.E., Ph.D.,

Associate Professor / Dept of CSE,

Srinivasa Institute of Technology and Management Studies,

Chittoor, Andra Pradesh

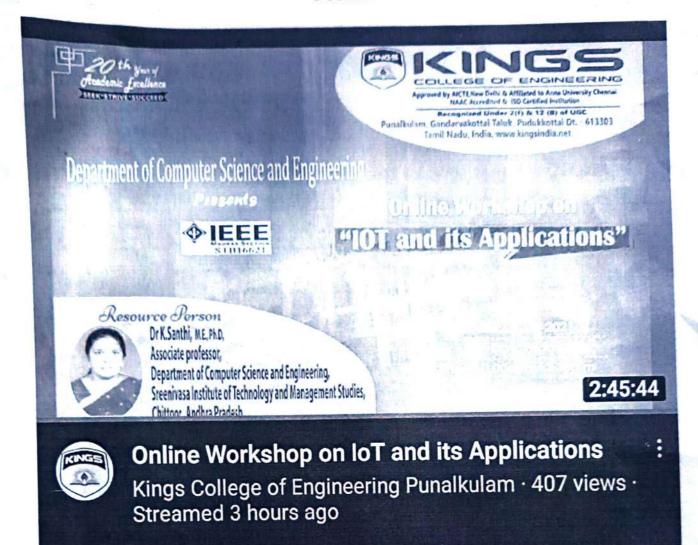
#### SESSION DETAILS

Dr.K.Santhi Asso.Prof/CSE handled the session in the topic of "IoT & its Applications". She explained the basic concepts of IoT and also listed down the types of sensors used in IoT projects. She demonstrated IoT projects such as Traffic Light Simulation, Glowing a bulb using timer. She used the website namely Tinkercad.com which is freeware for IoT Projects. Tinkercad.com provides a platform to develop or simulate IoT projects.

Totally 61 participants registered and actively participated in this online workshop. The session was broadcasted live in our college Youtube channel. The event was co-ordinated by Ms.S.Puvaneswari 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



# ANNEXURE - II

# REGISTRATION SUMMARY

College Name	Count
Roever Engineering College	1
Kings College of Engineering	48
Shree GK & CK Bosamia College, Jetpur	1
St. Thomas' College of Engineering & Technology	1
IDHAYA COLLEGE FOR WOMEN	1
Pondicherry University Community College	1
GOVT DEGREE COLLEGE BASOHLI, J&K	1
M/s Eduwell Academy / Chennai- 600 040	1
SRI RAMAKRISHNA INSTITUTE OF TECHNOLGY	1
University College of Engineering Thirukkuvalai	1
Tagore Engineering College	1
Hindusthan Institute of Technology	1
Government engineering college Dahod	1
Maxwell Matriculation Higher Secondary	
School,Thanjavur	1
Total	61

## ANNEXURE - III SAMPLE CERTIFICATE



#### Online Workshop on **IOT** and its Applications Organized by



# Department of Computer Science and Engineering

The second secon	
CERTIFICATE OF APPRECIATION	
Mr M Arun	of

This is to certify that Kings College of Engineering

has actively participated in the Online Workshop on"IOT and its Applications" organized by Department of Computer Science and Engineering, Kings College of Engineering, Pudukkottai on 21" May 2021.

Coordinator

Dr.S.M.Uma, Ph.D

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

Certificate Id: E5BSFE-CE000001

Made for free with Certify'em

# OUTCOME OF THE EVENT

- Understand about basic concepts of IoT
- Acquired skills to develop a IoT project in Tinkercad website
- Understand the functionalities of components of IoT
- Assist the students to develop project in this domain
- Acquired IoT based project implementation skills

(Ms.S.Puvaneswari AP / CSE)

Principal







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2020-2021 / EVEN SEMESTER REPORT

1. Type of the Event : Industry Expert Interaction session (Alumni)

2. Name of the Event : "Career Prospectus - A Step to Success"

3. Objective : To create awareness to the students about which area

has more career opportunities in their field, the skills

needed to become an entrepreneur and higher studies.

4. Date & Duration : 4.03.20 & One Day

5. Resource Person : Mr.J.D.Festus Devapriyan

Project Engineer, Wipro Ltd, Bangalore

Mr.S.Mohan Kumar

Managing Director, AltReKruit Solutions

6. Level of the Event : Department Level

7. Name of the organizer : R.Sugantha Lakshmi /CSE

8. Target Group : IV (CSE & ECE - FN), III CSE - AN

9. No of Participants : 90(IV - 51+III - 39)

10. Outcome

Students acquired knowledge on

- The current industry needs and expectations
- How to equip themselves for getting job in industry
- How to prepare themselves for the interviews and areas of improvement for seeking job.
- The booming areas which creates more job opportunities in their field.
- Initiatives to be made for becoming an entrepreneur.
- Pursuing higher studies

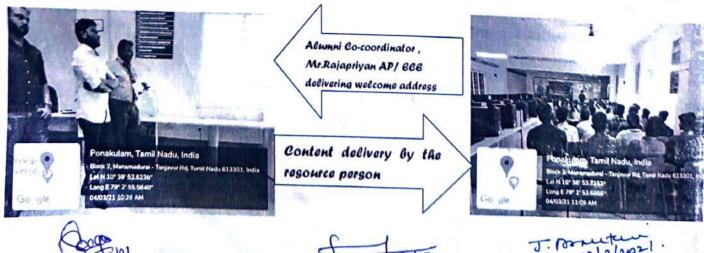


# (NAAC Accredited Institution) (Approved by AICTE, New Delhit Affiliated to Anno University, Chennal)



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2020 -2021/ EVEN SEMESTER INDUSTRY EXPERT INTERACTION SESSION (ALUMNI)

A one day industry expert interaction session titled "Career Prospectus" was organized on 04.03.2021 for our IV CSE, IV ECE and III CSE students with an objective of making the students to get deeper into the current industry trends, expectations of the industry and which area has more opportunities in their field. Our Alumni Mr.J.D.Festus Devapriyan, Project Engineer ,Wipro Ltd , Bangalore and Mr.S.Mohan Kumar , Managing Director, AltReKruit Solutions handled the session. Totally 90 students attended the session out of it 51 students are from the final year CSE & ECE in the Forenoon Session and 39 students are from III CSE in the Afternoon Session. The college Alumni Co-ordinator Mr.Rajapriyan, AP/ECE gave the welcome address and Mrs.R.Sugantha Lakshmi AP/CSE (Dept Alumni Co-ordinator) introduced the resource person to the gatherings. The session highlighted on the current industry needs, their expectations, job opportunities, equipping themselves for getting job in industry, preparing themselves for the interviews, the booming areas which creates more job opportunities in their field, initiatives to be made for becoming an entrepreneur, areas of improvement for seeking job, improving communication skills and pursuing higher studies.



PRINCIPAL







#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **ACADEMIC YEAR 2020-21 EVEN SEMESTER**

#### **CSE KCE ALUMNI SERIES REPORT**

#### OUR ALUMNI OUR PRIDE

21.6.2021

A three days CSE - ALUMNI WEBINAR SERIES on TECHNICAL AND GENERAL TOPICS was organized by the Department of CSE, Kings College of Engineering in the online mode (YouTube & Google Meet: Link https://meet.google.com/juv-buaj-rng) from 11.6.2021 to 13.6.2021 to the CSE department students with an objective to offer a better understanding and knowledge on current technologies, job opportunities, industry needs ,cracking competitive exams and career planning during this pandemic period. The sessions were handled by our beloved alumni's from various batches.

Date	Session	Topic	Name of the speaker	Designation & Organization	Location
11.6.2021 Friday	AN	REACT JS	Mr.Suresh	Senior Associate  Cognizant Technology  Solutions	Chennai
12.6.2021 Saturday	AN	Guidelines to crack competitive exams	Ms.Hazarath Begam	Deputy Collector	Thenkasi
13.6.2021 Sunday	FN	Bridging the gap between Engineering students and the Corporate	Mrs.Medona Joyce	Software Specialist Fidelity Information Services	Bangalore

Totally 75 of our CSE students registered for the alumni series. About 60 participants actively participated in every day sessions and expanded their knowledge on diverse topics. The session was broadcasted live in our college Youtube channel. The event was co-ordinated by Mrs.R.Sugantha Lakshmi 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. The participants appreciated our organization, our team work, the webinar sessions and also requested for similar kind of webinar sessions in the future also.

Note: The session details are attached in the following annexures,

Annexure I

Alumni Series Brochure

Annexure II

Alumni Series Summary

Annexure III

Day 1 Details

Annexure IV

Day 2 Details

Annexure V

Day 3 Details

Annexure VI

Sample Feedback

#### Annexure I - Alumni Series Brochure



Date: 12.6.2021 Timing: 05.00p.m to 06.00p.m

Date: 11.6.2021 Timing: 06.00p.m to 07.00p.m



Mr.SURESH, 2005-2009 Batch Cognizant Technology Solutions, Senior Associate, Chennai.

Topic - Reactis



Ms.HAZRATH BEGAM,
2009-2013 Batch
Deputy Collector,
Thenkasi.
Topic - Guidelines to crack competitive exams

Date: 13.6.2021 Timing: 11.00a.m to 12.00p.m



Mrs.MEDONA JOYCE,
2009-2013 Batch
Software Specialist,
Fidelity Information Services,
Bengaluru.
Topic - Bridging the gap between
EngineeringStudents and the Corporates

Mrs.R.Suganthalakshmi, AP/CSE Coordinator

46

Dr.S.M.Uma Convener

Dr.J.Arputha Vijaya Selvi Principal

Kings College of Engineering Punathal

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Annexure II - Alumni Series Summary

S.No	Session & Timings	Topic	No of students attended
11.6.2021 Friday	AN 6.00 p.m to 7.00 p.m	REACT IS	
12.6.2021 Saturday	AN 5.00 p.m to 6.00 p.m	Guidelines to crack competitive exams	73
13.6.2021 Sunday	FN 11.00 a.m to 12.00 p.m	Bridging the gap between Engineering students and the Corporate	67

#### Annexure III - Day 1 Details

The day 1 session of the program was handled by our alumni of 2005-2009 Batch, Mr. Suresh,



Mr.SURESH,
2005-2009 Batch
Day-1 Cognizant Technology Solutions,
Senior Associate,
Chennai.



Date: 11.6.2021 Inting: 06.00p.m to 07.00p.m

Mars II Suppositivation island, servine

Controlling

Con

Senior Associate, CTS, Chennai. Totally 64 participants attended the session on you tube channel. On Day 1 the CSE department HOD Dr.S.M.Uma welcomed the gathering and introduced our alumni to the students. The resource person briefed about the basic concepts, the life cycle, modules, working structure and hands on training on the REACT JS working environment. The participants gained knowledge on developing applications.

### Annexure IV - Day 2 Details

The session began with a welcome address and resource person introduction by our COE

Mr.K.Rajesh, AP/CSE. About 73 participants attended the Day 2 session on Google Meet. The Day 2 session of the program was handled by our alumni of 2009-2013 Batch, Ms.Hazrath Begam, Deputy Collector, Thenkasi to instill a basic knowledge of the necessary preparations: preexamination preparation, post-examination preparation, and final interview. Our renowned Alumni shared her own experience on cracking the competitive exams and also updated the Topic - Guidelines to crack competitive exams students about the tips and tricks for cracking the

Date: 12.6.2021 Timing: 05.00p.m to 06.00p.m



Ms.HAZRATH BEGAM, 2009-2013 Batch Deputy Collector,

exams. Also she shared about the syllabus, preparation method, breakup of the subject papers, and the cycle of the exams, from advertisements, to publication of results.

The students attended the session curiously and interacted with the resource person and got cleared their doubts. This session created awareness about competitive examinations among the students, and sustain interest in the respective field. This program also introduced the students to the nature of the different competitive examinations, syllabi, structure, and preparation for.

# Annexure V - Day 3 Details



Day-3 Date: 11.6 7021 Timing: 11,00k,m to 12,00k,m

Mrs.MEDONA JOYCE 2009-2013 Batch Software Specialist, delity Information Services Topic - Bridging the gap between EngineeringStudents and the Corporates



On day 3 , our alumni Mrs.Medona Joyce, Software Specialist, Fidelity information Sevices, Bengaluru presented her views through Google meet to the students about the industry needs and how to prepare themselves for the industry. Mrs.K.Abhirami AP/CSE , IQAC Head ,

welcomed the participants and introduced the resource person, alumni of 2009-2013 Batch also the King of Kings award winner of that batch to the students. She inculcated the ideas of entrepreneurship, innovative and technology, career and business growth, personal development. She gave an clear picture to every attendee about, how an graduating student will find their transition into industry roles smoother and make them skilled and job ready. Finally the series ended with the vote of thanks by the coordinator Mrs.R.Sugantha Lakshmi,AP/CSE.

### Annexure VI - Sample Feedback

#### Day 1 - REACT JS

- Very useful and informative session
- React JS was completely new to me. This webinar gave me an awareness on React JS. It
  was amazing
- Get More Knowledge
- Very useful class

## Day 2 - Guidelines to crack competitive exams

- Very informative
- It's very useful
- Motivating session
- Excellent
- Very very useful session mam.
- Thanks for giving such a wonderful session. It's very helpful to us.
- Very useful and informative session gain more knowledge about group exams
- Very useful class
- It was really an inspirational session. I was motivated a lot by her journey. And had an
  understanding on the procedures of Competitive exams.
- Well explained and more information to ready to prepare the group exams thank you mam
- Interesting session
- Gain knowledge

# Day 3 - Bridging the gap between Engineering students and the Corporate

- Thank you for your valuable information mam.
- Informative session
- Gain knowledge
- Very useful for our job opportunities
- Best platform for knowledge
- Thank you for your valuable suggestions
- Very informative session
- Interesting session
- It's very helpful for students thank you
- It was really an amazing session. She has enlightened us by her presentation. Very very useful session.

Co-ordinator

HOD/CSE 17 7 21 P

PRINCIPAL



#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **ACADEMIC YEAR 2020-21 EVEN SEMESTER**

#### WEBINAR REPORT

A one day webinar titled "Industry Ready Programming" was organized by the Department of CSE, Kings College of Engineering in the online mode (Google meet) on 19.6.2021 to the students of Computer Science and Engineering department with an objective to offer a better understanding of Data Science, Animation, and Machine Learning during this lockdown period. The session was handled by eminent resource person Dr.N.Siva Kumar, Ph.D., Assistant Professor, Department of Computer Science and Engg, Pondicherry Engineering College, Pondicherry. There are about 200 views in you tube. Students of II, III, IV CSE and Staff members actively participated in the session and gained knowledge in Industry Ready Programming. The event was co-ordinated by Mr.S.Rajarajan AP/CSE and Dr.D.Sivakumar under the guidance of Mrs.S.M.Uma, HoD/CSE and by the support of our principal Dr.J.Arputha Vijaya Selvi and the management.

Session through Google Meet



### Session through YouTube





# **Webinar Highlights**





Resource Person Dr.N.Siyakumar, Ph.D.,

Assistant Professor,
Department of Computer Science and Engg,
Pondicherry Engineering College,
Pondicherry.

Date: 19.06,2021 Day: Saturday Timing: 11.00a.m to 12.00 Noon

E-certificates will be provided

STAY HOME

Registration Link: https://forms.gle/dBVcnBgLDsvYSJPX7

Mr.S.Rajarajan, AP/CSE
Mr.S.Rajarajan, AP/CSE
Coordinators

https://www.facebook.com/RingsCollegen/Lagineer

Dr.S.M.Uma

Dr.J.Arputha Vijaya Selvi Principal

Fig. Kings College of Engineering Punalkulam

#### **WEBINAR BROCHURE**



Approved by AICTL New Delhi & ARRIllated to Anna University Chennal NAAC Accredited & ISO Certified Institution | Recognized Under 2(1) & 12 (II) of USC Pursofiluriers, General arcyclustrical Tallula, Paedichibertral Dr. 613303

Webinar on Industry Ready Programming

Department of Computer Science and Engineering
In association with R&D

CERTIFICATE OF PARTICIPATION

This is to certify that \_\_\_\_\_\_ S.NIVETHITHA
Kings college of engineering

has actively participated in the Online webinar on "Industry Ready Programming" organized by Department of Computer Science and Engineering, Kings College of Engineering, Pudukkottai on 19<sup>th</sup> June-2021.

Dr.D.SivaKumar, AP/CSE Mr.S.Rajarajan, AP/CSE Coordinators Certificate Id: A2IC88-CE000044 Dr.S.M.Uma, Ph.D

Dr.J.Arputha Vijaya Selvi, Ph.D

Made for free with Certify'em

SAMPLE CERTIFICATE

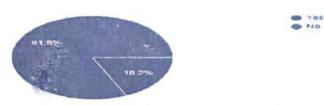
Coordinator

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17 / 106

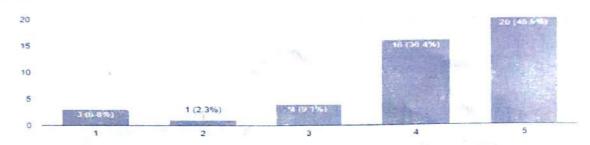
# Feedback Sample

Did you have any issues registering for or attending this event?



How satisfied were you with the speaker and session at our event?





Is there anything else you would like us to know?

44 tesponaes

This Webinar on 19-06-2021 Topic Entitled on 'Industry Ready Programming' Organized & Conducted By Kings College of Engineering- Punalkulam' is an Excellent in All Respects & in All Aspects......

ds

gw

Good

it's very useful for me

Thanks for webinar session. It's very useful Session

Lot

NO

nothing

Coordinator

Conver

Principal

Mr.S.Rajarajan

Dr.D.Sivakumar

Dr.S.M.Uma

Dr.J.Arputha Vijaya Selvi







### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2019 - 2020 / ODD SEMESTER

#### Report

1. Type of the Event

: Workshop

:

2. Name of the Event

"Ethical Hacking & Cyber Security"

3. Objective

Provided an overview on Ethical Hacking, various attacks &

countermeasures.

Students learned how to improve the system security and

eliminate potential attacks.

Learnt the actual methodologies, concepts, tools and techniques

involved in each crack with respect to the career perspective.

4. Date & Duration

13.9.19 & One Day

5. Level of the Event

Inter College

6. Resource Person

Dr.T.Thamaraiselvan MCA,M.Phil,MBA,Ph.D

MD, Technical Lead, isysway Techologies, Thanjavur.

Mr.S.Sathish, Security Analyst, isysway Technologies.

7. Name of the organizer

Ms.R.Sugantha Lakshmi /CSE, Ms.G.Chandra Praba/CSE

8. Target Group

Engineering/Arts/Polytechnic Students

9. Number of Participants

95(External - 61, Internal - 34)

#### 10. Outcome

- Describe ethical hacking and its importance.
- Understand security posture and flow.
- Identify different types of attacks and vulnerabilities and use techniques to mitigate those.
- · Practice cyber security tools and techniques.
- Employ penetration testing process to uncover vulnerabilities/weaknesses in a computer/system/ network.

Co-ordinator(s)

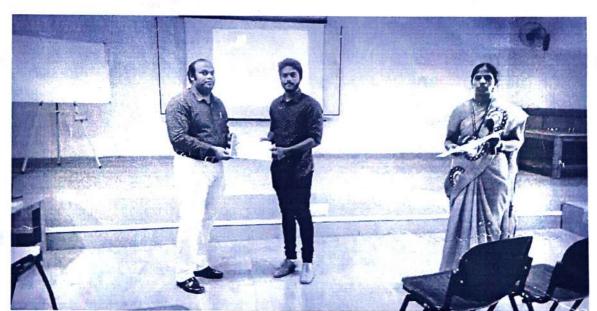
HOD/CSE

Principal

#### Annexure I



Resource Person Dr.T.Thamaraiselvan, MD and technical lead of isysway technologies, Thanjavur presenting the lecture to the students.



Chief Guest Dr.T.Thamaraiselvan distributing the certificates to the participants.



ONE DAY WORKSHOP
ON
"ETHICAL HACKING
AND
CYBER SECURITY"



Jointly Organized by



MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

and

Department of CSE

On

13th September 2019

Kings College of Engineering

Contact: cseevents2019@gmail.com

#### ABOUT THE COLLEGE

Kings College of Engineering is an institution which was formed with the singular aim of providing quality education to the poor and underprivileged students. KCE is approved by All India Council of Technical Education. New Delbi (AICTE) and is affiliated to Anna University. The institution was established in the year 2001 on 4 sprawling campus of around 60 acres on the Thanjavur – Pudukkottai Highway and run by Raj Educational Trust. The institution offers five UG and four PG programmes. Our steps are measured and taken with our goal in mind, which is to become a renowned institution where knowledge is a way of life.

#### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in the year of 2001. We are offering M.E – Computer Science & Engineering since 2015.

The Department possesses cutting edge technology and laboratories equipped with essential software. We are regularly conducting Symposium, FDP and Conferences to connect with recent technologies. The Department has excellent infrastructure facilities with well equipped Computer Centre. Library, 100 MBps broadband Internet facilities and well qualified and experienced faculty. The department has prominent placements in MNC's and various organizations.

#### ABOUT THE WORKSHOP

Do You Think That Your Facebook Password's Are Safe?

How Do You Know If The Transactions That You Do Are Safe Or Not?

What If Someone Is Monitoring Your Gmail Accounts?

What Are You Going To Do Then?

Have You Ever Thought About It?

Well No Need To Worry!!!

This workshop showcases the solution of all the above

Enter Into The World Of Hacking As Ethical Hackers.

#### SESSION OUTLINE

- Introduction
- Importance of ethical hackers
- Windows Hacking
- Phishing
- Backtrack 5
- MITM ATTACK

#### RESOURCE PERSON

Eminent persons in the field of hacking will be handling the sessions.

#### WHO SHOULD ATTEND

Prefinal & Final UG (Engineering & Polytechnic) & PG students from the Department of CSE / IT / ECE/ MCA can attend this workshop.

#### REGISTRATION

Spot registration is permitted.

UG Students

Rs.200

PG Students

Rs.300

#### HOW TO APPLY

Participants are requested to apply online in the following link and to submit the registration form on the day of the program.

https://forms.gle/2tbwHiuzgT1iPC8j6

#### IMPORTANT DATES

Online Registration

: 12.9.2019

#### ORGANIZING COMMITTEE

#### Chief Patrons

Dr.R.Rajendran Secretary

Mr.T.R.S.Muthukumaar,

C.E.O

#### Patron

Dr. J.Arputha Vijayaselvi, Principal

#### Co- Patron

Dr. S. Sivakumar, Vice Principal

#### Convener

Dr.S.M.Uma

HOD/CSE

#### Co-ordinators

Ms.R.Sugantha Lakshmi, AP / CSE Ms.G.Chandra Praba, AP / CSE Ph: 9894688906 9176184722

For further information, please contact the co-ordinators

#### REGISTRATION FORM

Name

:

Institution Name

UG/PG & Year

Department

Address

for Communication

Email id

Mobile No

Signature of the candidate

#### CERTIFICATE

This is to certify that ....... is a student of our department and is permitted to attend the One Day Workshop on "Ethical Hacking and Cyber Security"

Signature of Head of the Department







07.09.19

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM)

#### **ALUMNI INTERACTION SESSION**

SHERIN (2012 PASSED OUT) working as Auditor in TN, Audit Department, Thanjavur who has cleared Group II exams and JAVEED (2011 PASSED OUT) working as Team Leader in Wal Mart, Disney, addressed IV year students and III Year students on 06.09.19. Sherin has outshined in all areas during her study and is University rank holder of the batch.

#### Sherin insisted on

- Consistent academic records
- Aspiration for University ranks
- Insight into Group-I examinations

#### Javeed insisted on

- Career opportunities for CSE graduates
- Interview readiness
- · Scope for all category of students at industry











View of IV Year students & III Year students listening to Alumnus

No.: of students attended the session: 81

W. Coordinator

HOD/CSE

PRINCIPAL

Page 128 of 747







31.08.19

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-20 (ODD SEM)

#### ALUMNI INTERACTION SESSION

MANIMOZHI.K. working as Trainee Developer in Osiz Technologies, Madurai(2019 passedout) addressed II year students about their expeirences in skill development, certifications, attending interviews and industry expectations on 31.08.19.

During the session, she insisted on the following

- FOSS based certifications
- Programming skill development (Any language)
- Lab session utilization need
- Update on Web technologies

Sharing interview tips, work experience and need for continuous skill upgradation among the juniors, Alumnus insisted II Year students to concentrate from II year onwards. She insisted on the need for understanding of basics in Core papers of CSE. Mentioning about IIT, Bombay certification course on Python, she explained how such certification has helped her to step into industry.





View of II Year students listening to Alumnus

No.: of students attended the session: 43

W. Sleed
IQAC Coordinator

HOD/CSE

PRINCIPAL

#### REPORT ON IEI WORKSHOP ON "CLOUD COMPUTING TECHNOLOGIES" ON 12.07.19

Students Chapter of IEI and Department of CSE jointly organized workshop on "Cloud Computing Technologies" on 12.07.19. There are IEI members (IV Year) had attended this workshop. The objective of this workshop was that to gain the knowledge in the area of cloud computing which will be helpful to develop their projects. The workshop provided the information about cloud computing with real time examples.

#### **Resource Person Details:**

Mr.S.Palaniappan, Infosystems, Thanjavur.

#### Topics Covered in the workshop:

- History of Cloud Computing
- Cloud Computing Terminologies
- Cloud Types
- Amazon EC2, AWS







Mr.R.Palaniappan and his team members described the concepts of cloud computing

**Dept.IEI Coordinator:** 

HOD/CSE

#### REPORT ON IEI Seminar "Recent Trends in IT Industry" ON 13.01.2020

IEI Students Chapter and Department of CSE jointly organized Seminar in "Recent Trends in IT Industry" on 13.01.2020. IEI student 31 members (IV Year) had attended this seminar. The objective of this seminar was to gain the exposure in the area of IT Industry which will be helpful to set their career goals.

### **Resource Person Details:**

Mr.K.Sathish Raj, Oracle Database Admin, IBM India Private Ltd. Chennai.

#### Topics Covered in the workshop:

- Current skill requirements in IT industry
- Interview tips



Mr.K.Sathish Raj delivers the lecture to the IV Year Students.

HOD/CSE

Principal

# REPORT ON IEI Workshop "Introduction to NOSQL" ON 21.01.2020

IEI Students Chapter and Department of CSE jointly organized workshop in "Introduction to NOSQL" on 21.01.2020. IEI student 12 members (III Year) had attended this workshop. The objective of this workshop was to know the current advancement in database. It may help the students to decide the project domain and got the exposure in that field.

#### **Resource Person Details:**

Ms.P.Chellamani, Infosystems, Thanjavur

#### Topics Covered in the workshop:

- Basics of NoSql Concept
- Syntax and usage



Ms.P.Chellamani describes the concepts of NOSQL

SQ. Par 22/01/2010 Coordinator HOD/CSE 1 2010 PRINCIPAL







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019 – 2020 / EVEN SEMESTER WORKSHOP REPORT

10.2.2020

A one day workshop on "REACT Programming" with an objective to equip the students with the necessary knowledge and skills required to build rich internet applications using "REACT" was organized on 8.2.2020 for our III and IV year CSE students. Dr.Ravikumar Ramadoss Director and Co-founder of PIXMONKS Solutions Private Limited was the resource person of the workshop. About 63(36+27) students from our department attended the session. Programme was coordinated by Ms.R.Sugantha Lakshmi AP/CSE. The workshop highlighted on the building of user interfaces in the web platform.

#### Workshop session snapshots















# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019 – 2020 / EVEN SEMESTER

#### REPORT

1. Type of the Event

Workshop

2. Name of the Event

"REACT Programming"

3. Objective

To equip the students with the necessary knowledge

and skills required to build rich internet applications

using "REACT".

4. Date & Duration

08.2.20 & One Day

5. Resource Person

Dr.Ravikumar Ramadoss PhD

Director & Co-Founder

**PIXMONKS Solutions Private Limited** 

6. Level of the Event

Department Level

7. Name of the organizer

R.Sugantha Lakshmi /CSE

8. Target Group

III & IV Year

9. No of Participants

63(36+27) students

10. Outcome

Students learnt about

Basics of REACT programming

Creation of user interface in the web platform

Simple Applications using REACT

Co-ordinator

HOD/CSE 2

PRINCIPAL







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# ACADEMIC YEAR 2019 - 2020 / EVEN SEMESTER

#### SEMINAR REPORT

Type of the Event

Seminar

2. Name of the Event

"Being a Winner"

Resource Person: Mr. Jai Edilbert PROSHED INDIA

3. Objective

To motivate the students for their near future and also to

encourage to become a entrepreneur.

4. Date

14.2.2020

5. Level of the Event

Department Level

6. Name of the organizer

R.Sugantha Lakshmi /CSE

7. Target Group

II, III & IV Year Students

8. Number of Participants

42(31+6+5)

#### 9. Outcome

Students will think their future in different perspective

:

- Prepared the future engineers to potentially choose their own entrepreneurial path.
- Students were educated on independent decision making, entrepreneurial thinking, working in teams, team leading and assumption of responsibilities in their role as organizers



Co-ordinato

J. Portularo







#### ONE DAY WORKSHOP

on

#### "Graphic Designing and Animation" 2D & 3D





15th February 2020

Organized by

Department of CSE

Kings College of Engineering Punalkulam, Thanjavur

Contact: hodcse@kingsindia.net

#### AN THE COLLEGE

Kings College of Engineering is an institution which was formed with the aim of providing quality education to the poor and underprivileged students. KCE is approved by All India Council of Technical Education, New Delhi (AICTE) and is affiliated to Anna University. 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. The institution offers five UG and four PG programmes. KCE is an ISO 9001:2008 and NAAC certified institution.

#### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering since its inception in the year 2001 offers programme keeping in pace with technological advancements. Department offers Post Graduate course M.E - CSE .Importance to practical training which lay great stress on "hands on" experience besides a sound theoretical background is practiced. Short term courses and technical lectures by eminent professors and professionals are arranged on a regular basis to broaden the knowledge spectrum of students. The state-of-the-art computer centre has over 300 computers with 100 Mbps internet connectivity. The department has highly qualified and experienced faculty to offer both class room teaching and practical instructions

#### SCOPE

India is becoming a digital country. With the growth of digitization, the world is transferring to the digital world. In the upcoming year, the scope of animation is going to be very much huge. The animation industry in India is growing at a faster pace than any other industry. It is expanding and shows a steady growth. Demand for animation is enlarging day by day in the industry of entertainment as well as in the areas of advertising, business, education, sales etc. Job placements in print media and publishing firms are also available for animators.

#### COURSE CONTENT

The objective of this workshop is to provide

- An introduction to creating, editing, and analyzing 3D models.
- Develop foundational skills to work with, and navigate the digital 3D modeling workspace to create 3D objects.
- Examine basic elements of the 3D development of modeling, texturing, lighting, animating, and rendering using *Photoshop*, Illustrator and *Premier pro*.

#### COURSE OUTCOMES

The participants will gain the ability to create quality animation performance through a creative and professional portfolio using principles of animation, drawing, design, cinematic storytelling, artistic expertise and ithnovation.

#### RESOURCE PERSON

Eminent person from industry will be handling the sessions.

#### WHO CAN ATTEND

Programme is open to students from Engineering Colleges/ Arts & Science Colleges/ Polytechnic Colleges of any domain

#### REGISTRATION

Spot registration is permitted.

UG Students

PG Students

Rs.300

#### HOW TO APPLY

Participants are requested to apply online in the following link and to submit the registration form on the day of the program.

https://forms.gle/Q5zDMA5H7kywt2BM8

#### IMPORTANT DATES

Online Registration :

14.2.2020

#### ORGANIZING COMMITTEE



**Chief Patrons** 

Dr.R.Rajendran

Secretary

Mr.T.R.S.Muthukumaar

C.E.O

#### Patron

Dr. J.Arputha Vijayaselvi Principal

#### Co-Patron

Dr. S. Sivakumar Vice Principal

#### Convener

Dr.S.M.Uma

HOD/CSE

#### Co-ordinator(s)

Ms.R.Sugantha Lakshmi

AP/CSE

Ms.G.Chandra Praba

AP/CSE

#### For further information, please contact

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

AP / CSE

AP / CSE Ph: 984688906

Ph: 9176184722

#### REGISTRATION FORM

(in Capital letters)

Institution Name

UG/PG

Year of Study

Department

Address

for Communication

Email id

Mobile No

Date

Signature of the candidate

#### CERTIFICATE

This is to certify that ..... student of our institute and is permitted to attend the One Day Workshop on "Graphic Designing and Animation"

> Signature of Head of the Department (With seal)



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



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019 - 2020 / EVEN SEMESTER WORKSHOP REPORT

16.2.2020

A one day workshop on "Graphic Designing and Animation - 2D & 3D" was organized by the Department CSE, Kings College of Engineering jointly organized by the IEEE Students Chapter for the students of Engineering Colleges/ Arts & Science Colleges/Polytechnic Colleges with an objective to offer a better understanding of animation and also to empower their creativeness. Mr.G.Vaitheeswaran, Graphic Designer and 3D Modeler, Olir Designs and Mr.Royal Ricard, Graphic Designer and Director, Olir Designs were the resource persons of the workshop. The students of this workshop obtained a working knowledge on Photoshop, Illustrator and Premier Pro which is a graphic and animation software through hands on session. About 87(External: 48, Internal: 39) students attended the session which comprises of students from external colleges (University College of Engineering, Anjalai Ammal Engineering College, St.Joseph's College of Engineering and Technology, Periyar Maniammai University, K.S.K College of Engineering and Technology, AVVM.Sri Puspham College, Bon Secours College for women, Rajah Serfoji Government College) and internal students from the department of CSE,ECE. The workshop was coordinated by Ms.R.Sugantha Lakshmi AP/CSE and Mrs.G.Chandra Praba AP/CSE. The workshop highlighted on the basics of graphics and animation software's through hands-on experience with the industry standard









# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019 - 2020 / EVEN SEMESTER WORKSHOP REPORT

1. Type of the Event

Workshop

2. Name of the Event

"Graphic Designing and Animation - 2D & 3D"

3. Objective

To offer students a better understanding of animation,

also to empower their creativeness

4. Tentative Date & Duration

15.2.20 & One Day

5. Resource Person(s)

Mr. G.Vaitheeswaran

Graphic Designer and 3D Modeler, Olir Designs

Mr. Royal Richard

Graphic Designer and Director, Olir Designs

6. Name of the organizer

Mrs. R.Sugantha Lakshmi /CSE

Mrs. G.Chandra Praba/CSE

7. Target Group

Students from Engineering Colleges/ Arts & Science

Colleges attended the session

8. Number of Participants

87(External - 48, Internal - 39)

#### 9. Outcome

- Students learnt the basics of Photoshop, Illustrator and Premier Pro
- Students learnt the fundamentals of 3D animation through hands-on experience with the industry standard
- Given an idea to the students to pursue a future in the field of animation.

CO-ORDINATOR

HOD/CSF 17 2

PRINCIPAL







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019-2020/EVEN SEMESTER

### **Technical Event Report**

✓ Name of the Event

Seminar

✓ Date & Session

19.02.2020 & FN

√ Venue

PallavaHall, Kings College of Engineering

✓ Level of the Event

: Department Level

✓ Name of the Organizer

Ms.R.Ranitha, AP, Dept of CSE

✓ Topic

**GATE** Awareness program

✓ Organized for

II & III yr Students

✓ Number of Participants

65

✓ Purpose

To give awareness and knowledge about

GATE exam

✓ Resource Person

: Mr.V.Sriramulu,Founder & Director

Founder & Director,

"C"Academy, Thanjavur

✓ Outcome:

Students got awareness about GATE exam, syllabus, exam schedule, Institutions for higher studies, job sectors and all particulars related to GATE.

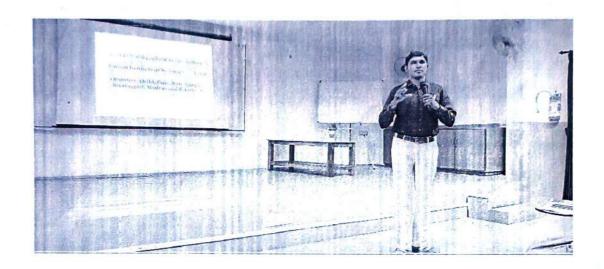
Event Coordinator

HODICSE 201 2011

J. March 12/2010.

### SUMMARY REPORT - SEMINAR

Seminar on "GATE Awareness program" was organized by the Department CSE, Kings College of Engineering for II and III year students of CSE on 19th February 2020 from 11.30 am to 12.30 pm at Pallava hall. Mr.V.Sriramulu,Founder & Director "C"Academy Thanjavur was the resource persons of the Seminar. The students of this seminar obtained awareness about GATE exam. About 65 students attended the seminar.





Event Coordinator

# REPORT ON ONE DAY WORKSHOP ON "MACHINE LEARNING TOOLS - ANACONDA" ON 02.03.2020

Department of CSE organized a one day workshop on "Machine Learning Tools - Anaconda" on 02.03.2020. The workshop started with prayer song. Ms.S.Puvaneswari, workshop coordinator welcomed the resource person Dr.K.Rajiv Gandhi, Assistant Professor, Alagappa University Constituent College, Paramakkudi and also welcomed the participants. Dr.S.M.Uma, Head of the Department honored the resource person. Ms.B.Sangeetha introduced the resource person to the participants. Dr.K.Rajiv Gandhi delivered the keynote address. Totally 80 participants (External – 57 and Internal – 23) attended the workshop. The objective of this workshop was that to gain the knowledge in the area of Machine Learning Algorithm and its tool which will be helpful to develop their projects. The workshop offered the lecturing session and hands on session. The participants had the real time experience. The hands on training completed by 3.30 pm. The valedictory function began at 3.45 pm. The participant gave the feedback about the workshop. Dr.S.M.Uma distributed the certificates to the participants. Ms.B.Sangeetha, workshop coordinator thanked the management, the Principal, the resource person, all the participants and all the staff members & technicians who were the backbone of this workshop.

#### **Resource Person Details:**

Dr.K.RajivGandhi,

Asst.Prof / CSE,

Alagappa University Constituent College, Paramakudi

#### Topics Covered in the workshop:

- Introduction to Machine Learning algorithms
- Installation of Anaconda 3.7
- Creation of dataset and its program in Spider
- Execution of linear regression technique



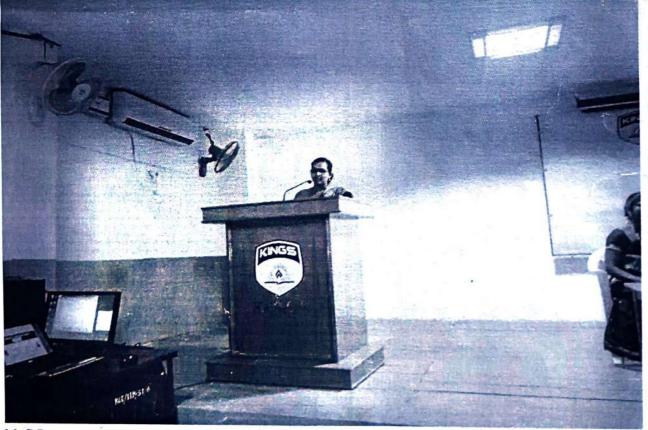


Registration done by outside participants

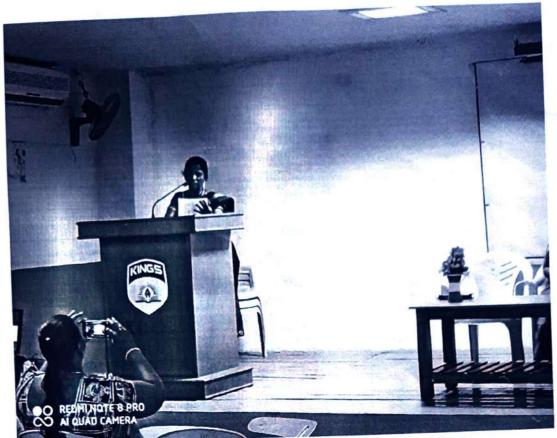
O REDMI NOTE 8 PRO
O AI QUAD CAMERA



Dignitaries from Left to Right (Ms.B.Sangeetha & Ms.S.Puvaneswari (Workshop Coordinators), Dr.K.Rajiv Gandhi (Resource person), Dr.S.M.Uma HOD / CSE)



Ms.S.Puvaneswari Workshop Coordinator welcomed the gatherings



Ms.B.Sangeetha, Workshop coordinator introduced the Resource person to participants



Students invited Dr.S.M.Uma HOD / CSE to honor the Resource person



The L. M. Lime. 11: 5755. W. Insurance Ch. E. Reging concile. Description Principals



Dr.K.RajirGandhi addressed the gathering



Dr.K.RajivGandhi explained the programming aspects of Anaconda Software tool



Certificate Distributed to external participants

Workshop Coordinators 3 13 12020

(Ms.S.Puvaneswari & Ms.B.Sangeetha)

HOD/CSE \$ 3 2000

2- 113/2021

**Principal** 

### RESOURCE PERSON

Dr.K.Rajiv Gandhi, AP/CSE. Alagappa University Constituent College, Paramakkudi

#### WHO SHOULD ATTEND?

Pre final & Final UG (Engineering & Polytechnic) & PG students from the Department of CSE / IT / ECE/ MCA can attend this workshop.

#### REGISTRATION

Scanned copy of registration form must be sent through e-mail on or before 26.02.2020. Online registration can be done through Google forms. The link is given below

https://forms.gle/q5QYFM5noaah91SB7

**UG Students** 

Rs.200

PG Students :

Rs.300

Spot registration is also permitted.

### IMPORTANT DATES

Registration: 26.02.2020

Intimation

: 27.02.2020

### ORGANIZING COMMITTEE

### **Chief Patrons**

Dr.R.Rajendran

Secretary

Mr.T.R.S.Muthukumaar

C.E.O

#### Patron

Dr. J.Arputha Vijaya Selvi Principal

## Co-Patron

Dr. S. Sivakumar Vice Principal

#### Convener

Dr.S.M.Uma

HOD/CSE

### Please mail your registration form to

The HOD

Dept of Computer Science & Engineering

Kings College of Engineering,

Punalkulam

Thanjavur - 613303

Email: hodcse@kingsindia.net

### For further information, please contact

Ms.S.Puvaneswari & Ms.B.Sangeetha

AP/CSE, Coordinators,

Ph: 99438 96178, 8248162260



ONE DAY WORKSHOP

"MACHINE LEARNING TOOLS -

ANACONDA"

REGISTRATION FORM

NAME

(In Block Letters Only)

Institution /

Organization Name

Year of Study

Department

for Communication

Email id

Mobile No.

Date

Signature of the candidate

### CERTIFICATE

This is to certify that .... student of our institute and is permitted to attend the One Day Workshop on "Machine Learning Tools - ANACONDA"

> Signature of Head of the Institution (With office seal)



ONE DAY WORKSHOP
ON
"MACHINE LEARNING TOOLS ANACONDA"

2nd MARCH 2020



Organized by,

Department of Computer Science &

Engineering



NAAC Accredited Institution Approved by AICTE, New Delhi Affiliated to Anna University, Chennai Punalkulam, Thanjavur – 613303

> Phone: 04362 282474, 282676 www.kingsindia.net

#### ABOUT OUR INSTITUTION

Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The college is approved by AICTE, New Delhi and affiliated to Anna University, Chennai and accredited by NAAC. The drive from our management and dedication of the faculty has seen KCE to rise to the status as one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely, CIVIL, CSE, ECE, EEE and Mechanical Engineering and four PG programmes namely CSE, VLSI Design, PED and Thermal Engineering. Department of ECE, EEE and Mechanical are approved research center for pursuing research (Ph.D) under Anna University.

### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering since its inception in the year 2001 offers programme keeping in pace with technological advancements. Department offers Post Graduate course M.E.—CSE. The state-of-the-art computer centre has over 300 computers with 100 Mbps internet connectivity. The department has highly qualified and experienced faculty to offer both class room teaching and practical instructions.

### ABOUT THE WORKSHOP

Machine Learning (ML) is the scientific study of algorithms and statistical models that computer systems use to effectively perform a specific task without using explicit instructions, relying on models and inference instead. It is seen as a subset of artificial intelligence. Machine learning algorithms build a mathematical model of sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to perform the task.

Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda distribution that allows users to launch applications and manage Anaconda packages, environments and channels without using command-line commands. Navigator can search for packages on Anaconda Cloud or in a local Anaconda Repository, install them in an environment, run the packages and update them.

#### SESSION OUTLINE

- Basic Concepts of Machine Learning & its techniques
- Installation procedure of Anaconda Navigator packages
- Jupyter Notebook
- · Hands on Training







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2019 - 2020 / EVEN SEMESTER AWARENESS TALK - REPORT

1. Type of the Event

Awareness Talk

2. Name of the Event

"Career opportunities and Industry Expectations"

3. Objective

To let the students know about the current industry

trends and job opportunities

4. Date

9.3.2020

5. Level of the Event

Department Level

6. Resource Person

Mr.J.D.Festus Devapriyan

Project Engineer, Wipro, Bangalore

7. Name of the organizer

R.Sugantha Lakshmi /CSE

8. Target Group

III Year Students

9. Number of Participants

40

An awareness talk on "Career opportunities and Industry Expectations" was organized by the Department CSE, Kings College of Engineering with an objective to make the students know about the current industry trends and job opportunities. Our Alumni Mr.J.D.Festus Devapriyan, Project Engineer, Wipro, Bangalore was the resource person for the event. He presented the current industry needs and the exceptions of the industry. He also narrated the job opportunities and how to equip themselves for the placements. The students interacted well with the resource person and clarified their doubts.

Co-ordinator

HOD/CSE

PRINCIPAL.

Keller





# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2019-20 EVEN SEMESTER

### KCE WEBINAR REPORT

06.06.2020

One day webinar titled "Emerging Technology Trends in Life-Sciences Industry" was organized by the Department of CSE, Kings College of Engineering in the online mode (CISCO Webex) on 06.06.2020 to faculty members and students of Engineering Colleges/ Arts & Science Colleges/Polytechnic Colleges /Industry with an objective to offer a better understanding of Emerging Technology Trends in Life-Sciences Industry during this lockdown period. The session was handled by eminent resource person Mrs.R.Anuradha, Product Manager, LifeSciences Domain, Taketa Pharmacueticals, USA. Totally 211 registrations were there from 14 different Indian states, 01 union territory of India and 01 international registrations from Dhofar Governance(Sultanate of Oman). About 155 participants from various states and institutions actively participated in the session and gained knowledge on topics. The event was co-ordinated by Mr.R.Ranitha AP/CSE and Mrs.G.Chandra praba AP/CSE under the guidance of Dr.S.M.Uma, Head of the Department and by the support of our Principal Dr.J.Arputha Vijaya Selvi and the management. The session was completed successfully by the support of our Faculty members of CSE.

Note: The session details are attached in the following annexures,

Annexure I: Webinar Brochure

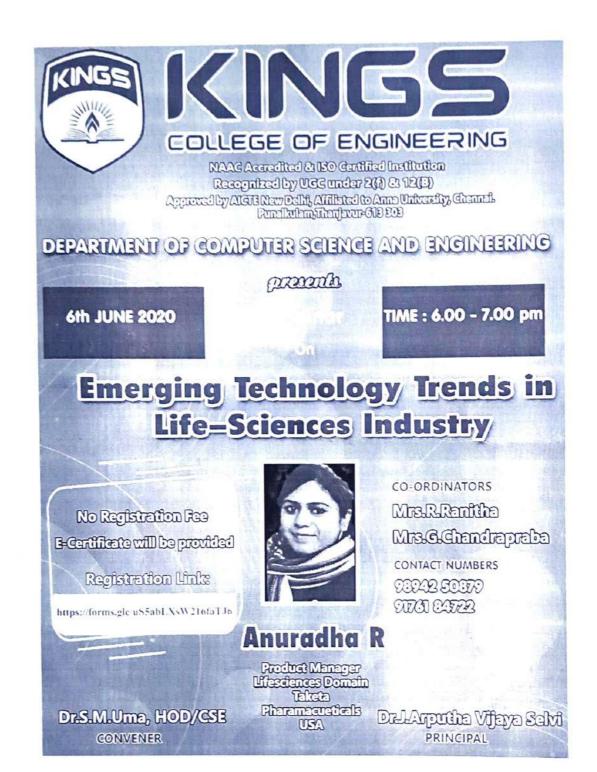
Annexure II: Registration Details

Annexure III Webinar Summary

Annexure IV: Feedback Details

Annexure V : Sample Certificate

ANNEXURE 1: WEBINAR BROCHURE



# ANNEXURE II: REGISTRATION DETAILS

S.No	State	Count
1.	Dhofar	01
2	Governance(Oman) Uttar Pradesh	03
3.	Andhra Pradesh	08
4.	Karnataka	04
5.	Kerala	02
6.	Maharashtra	13
7.	West bengal	01
8.	Puducherry	01
9.	Rajasthan	07
10.	Uttarakhand	01
11,	Gujarat	07
12.	Haryana	03
13.	Telangana	01
14.	punjab	01
15.	Tamil Nadu	158
	Total	211

Faculties	Industry Persons	Research Scholars	Students	Total
98	04	01	108	211

# ANNEXURE III: WEBINAR SUMMARY

# PARTICIPANTS

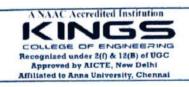
S.No	State	Count
1.	Uttar Pradesh	04
2.	Andhra Pradesh	05
3.	Karnataka	03
4.	Kerala	01
5.	Maharashtra	09
6.	West bengal	01
7.	Puducherry	01
8.	Rajasthan	04
9.	Uttarakhand	01
10.	Gujarat	06
11.	Haryana	03
12.	Telangana	01
13.	punjab	01
14.	Tamil Nadu	115
	Total	155

Faculties	Industry Persons	Research Scholars	Students	Total
80	02	01	72	155

# ANNEXURE IV: FEEDBACK DETAILS-SAMPLE RESPONSES

- Excellent and Informative Webinar session
- Thanks to king's College for organizing such a wonderful webinar by Anuradha mam it is excellent session hats off to you all team of kings you always a king in this education sector.
- Latest technical information provided for life science and its technology for current era also explain how to combine technology and other field with life science so it was very interesting, helpful and guiding how to make career in this field also this field is very large
- Thought provoking
- The presentation is awesome the way by which she presented.
- Very Informative session. I learned a lot
- Innovative session
- Good exposure to life sciences
- I need more class
- Webinar is really good, and it's my first webinar, due to this i able to know many trends in life- science industries.
- · The webinar was an informative and knowledgeable.
- It was really enlightening.
- · Thanks for giving wonderful opportunity
- Excellent arrangement and presentation
- · Valuable session thanks for this opportunity
- Webinar was Excellent
- Well organized
- Very well done.... Really appreciation required and thanks for your support
- Well organized
- It was an outstanding session
- very useful
- Excellent webinar
- Informative session
- Nice Session
- It was really good and I wish to conduct similar programs like this in future it was very useful to us
- · Excellent mam, very useful in the lockdown time and very thank you mam
- It's very useful to me
- · Well arrangements and informative webinar
- It was very informative. I would like to attend such webinar again in future if organized.
- Informative and life value webinar.
- Excellent webinar
- Was informative and interesting
- It was a good session, learned some new facts about life science in industries and opportunities in industries.
- Excellent work with numerous ideas. Really done a great job.
- Session was so interesting and very useful







### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### **ACADEMIC YEAR 2019-20 EVEN SEMESTER**

### KCE WEBINAR REPORT

26.06.2020

One day webinar titled "Inspiring Passion At Workplace: Sure-Shot Approach to Success" was organized by the Department of CSE, Kings College of Engineering in the online mode (ZOOM meeting) on 26.06.2020 to faculty members and students of Engineering Colleges/ Arts & Science Colleges/Polytechnic Colleges /Industry with an objective to offer a better understanding of Passion at workplace during this lockdown period. The sessions was eminent resource person Mr.R.G.Pragasam, Techno Consultant, Vishal Precision Products Pvt Ltd, Coimbatore Totally 193 registrations were there from different Indian states and international registrations. About 153 participants joined Webinar from 09 different Indian states, 01 union territory of India and 02 international registrations from Dhofar (Oman) and Andaman and Nicobar Islands. Participants from various states and institutions actively participated in the session and gained inspiration on topic. The event was co-ordinated by Mr.R.Ranitha AP/CSE, Mrs.G.Chandra praba AP/CSE and B.Sangeetha AP/CSE under the guidance of Dr.S.M.Uma. Head of the Department and by the support of our Principal Dr.J.Arputha Vijaya Selvi and the management. The session was completed successfully by the support of our Faculty members of CSE.

Note: The session details are attached in the following annexures,

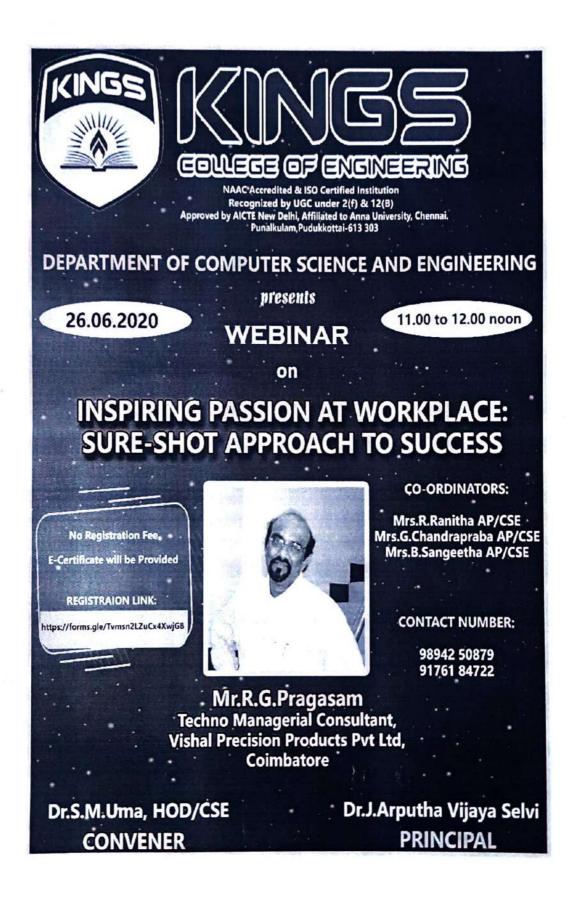
Annexure I: Webinar Brochure

Annexure II Webinar Summary

Annexure III: Feedback Details

Annexure IV : Sample Certificate

### ANNEXURE I: WEBINAR BROCHURE



### ANNEXURE II: WEBINAR SUMMARY

### **PARTICIPANTS**

S.No	State	Count
1.	Dhofar Governance(Oman)	03
2.	Andaman and Nicobar Islands	01
3.	Delhi	01
4.	Andhra Pradesh	04
5.	Karnataka	23
6.	Maharashtra	02
7.	Madhya Pradesh	01
8.	Puducherry	02
9.	Gujarat	03
10.		02
11	Tamil Nadu	111
	Total	153

Faculties	Industry Persons	Research Scholars	Students	Total
74	02	02	75	153

### ANNEXURE III: FEEDBACK DETAILS-SAMPLE RESPONSES

- Highly satisfied
- Nice session
- Very useful session
- It provided a lot of insights on passion
- Conduct the meeting as a series
- · Super .how to spending our time in life
- · Very useful historical information
- · Overall excellent organizing
- Very interesting
- Excellent session and well organized. Thanks for insightful session.
- Awesome session
- · very informative and useful

### **ANNEXURE IV: SAMPLE CERTIFICATE**



### CERTIFICATE OF PARTICIPATION

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

This is to certify that

Dr. D.R.RAJKUMAR

CARE GROUP OF INSTITUTIONS

has participated in the webinar titled

"INSPIRING PASSION AT WORKPLACE: SURE SHOT APPROACH TO SUCCESS"

Presented by Mr.R.C.PRACASAM, techno Managerial Consultant, Vishal Presimon Froducts Pst Ltd. Combators

Organised by Kings College of Engineering, Punalkulam, Pudukkortai

On 26,06,2020

Mrs.R.Ranitha, Mrs.G.Chandrapiaba, Mrs.R.Sangeetha COORDINATORS

Di.S.M.Uma CONVENER Dr J Arputha Vijnya Selvi PRINCIPAL.



Certificate ID: HI6ENA-CE000002

This is electronically generated certificate, hence it doesn't equire signature

Co-ordinators

Mrs.R.Ranitha & Mrs.G.Chandra praba

AP/CSE

Convener

Dr.S.M.Uma

HOD/CSE

Principal

Dr.J.Arputha Vijaya Selvi







# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

# ACADEMIC YEAR 2019 - 2020 EVEN SEMESTER

# WEBINAR CUM WORKSHOP ON "MACHINE LEARNING TECHNIQUES"

Department of Computer Science & Engineering had organized a Webinar cum Workshop on "Machine Learning Techniques" on 29.06.2020 & 30.06.2020 at 3pm. The program was inaugurated by Dr.S.M.Uma HOD/CSE and welcome address given by Ms.S.Puvaneswari AP/CSE. Totally 226 participants registered for this program. The program was conducted through CISCO Webex Meeting application. In the first session, resource person described about the basic concepts of machine learning techniques and in the second session, hands on training session was given and real time examples were discussed. Mr.M.Arun AP/CSE thanked the management, resource person and the participants. At the end of the program, the participants submitted their feedback through google forms.

### **Content Coverage**

### Day 1: Session 1:

- Basic concepts of Machine Learning
- Difference between Machine Learning & Deep Learning
- Machine Learning Algorithms

### Day 2: Session 2:

- Introduction about RapidMiner tool
- Implementation of Machine Learning algorithms in RapidMiner Tool

### ANNEXURE I

### **BROCHURE**



COORDINATORS Mrs. S. Puvaneswari, AP/CSE Mr. M.Arun, AP/CSE

# Department of Computer Science and Engineering Presents

Webinar cum workshop on "Machine Learning Techniques"



Date: 29th & 30th June 2020
Day: Monday & Tuesday
Time: 03.00 p.m - 04.00 p.m (IST)

Dr.G.Revathy M.E.,Ph.D.,
Assistant Professor,
Department of Computer Science and Engineering,
Erode Sengunthar Engineering College(Autonomous),
Perundurai, Erode.

For any Queries, Please Contact
Mr. M.Arun, AP/CSE

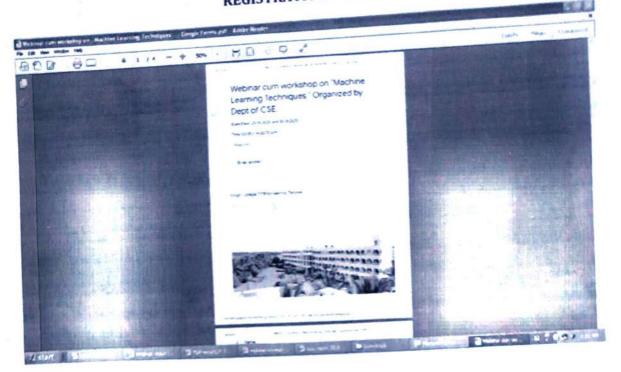
1 9th Year of Academic Excellence

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

CONVENER Dr.S.M.Uma, Ph.D HOD/CSE PATRON Dr.J.Arputha Vijaya Selvi, Ph.D Principal

# ANNEXURE II

# REGISTRATION FORM



# REGISTRATION SUMMARY

S.NO	STATE	COUNT
1.	AP	10
2.	BIHAR	3
3.	DELHI	4
4.	GUJARAT	3
5.	HARYANA	4
6.	INDORE	3
7.	JHARKAND	5
8.	MAHARASTRA	6
9.	PUNJAB	2
10.	RAJASTHAN	3
11.	TAMILNADU	170
12.	TELUNGANA	10
13.	UTTAR PRADESH	3
	Total	226

### ANNEXURE III



### CERTIFICATE OF PARTICIPATION

This is to certify that

has participated in the Webinar on Machine Learning Tools on 29.06.2020 and 30.06.2020 Organized by Department of Computer Science and Engineering, Kings College of Engineering, Thanjavur.

Mrs.S.Puvaneswari, M.E., Mr.M.Arun, M.E., Coordinators

Dr.S.M.Uma, Ph.D., HOD/CSE Dr.J.Arputha Vijaya Selvi, Ph.D., Principal

E - Certificate Id:

This is electronically generated certificate, hence it doesn't require signature.

(Sample E-Certificate Design)

COORDINATOR(S)

(Ms.S.Puvaneswari & Mr.M.Arun)

HOD/CSE

PRINCIPAL







### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2019-20 EVEN SEMESTER

### KCE INTERNATIONAL WEBINAR SERIES REPORT

30.7.2020

A three day International webinar series titled "Research Challenges, issues and Counter measures in IoT Security", "IoT and Its Security", "Introduction to Machine learning" was organized by the Department of CSE, Kings College of Engineering in the online mode (Google meet) from 25.7.2020 to 27.7.2020 to faculty members and students of Engineering Colleges/ Arts & Science Colleges/Polytechnic Colleges/Schools/Industry with an objective to offer a better understanding of IoT Security, Machine learning and role of research during this lockdown period. The sessions were handled by eminent resource persons like Dr.B.Sundaravadivazhagan, Professor, Department of IT, Al Musanna College of Technology, Sultanate of Oman on day 1, Mrs. Tamilarasi Ganesan, Senior Lecturer, Department of IT, Al Musanna College of Technology, Sultanate of Oman on day 2, Dr.Shaji Kalistin apolin, Faculty of IT, Department of IT, Al Musanna College of Technology, Sultanate of Oman on day 3. Totally 323 registrations were there from 19 Indian states, 1 union territory of India and 4 international registrations from Oman and Saudi Arabia. About 100 participants from various states and institutions actively participated in every day session and gained knowledge on various Research issues in IoT Security. The event was co-ordinated by Mr. S. Rajarajan AP/CSE, Mr.K.Rajesh AP/CSE and Dr.D.SivaKumar under the guidance of Dr.S.M.Uma, Head of the Department and by the support of our Principal Dr.J.Arputha Vijaya Selvi and the management. The participants appreciated our organization, our team work, the webinar sessions and also requested for similar kind of webinar sessions in the future also.

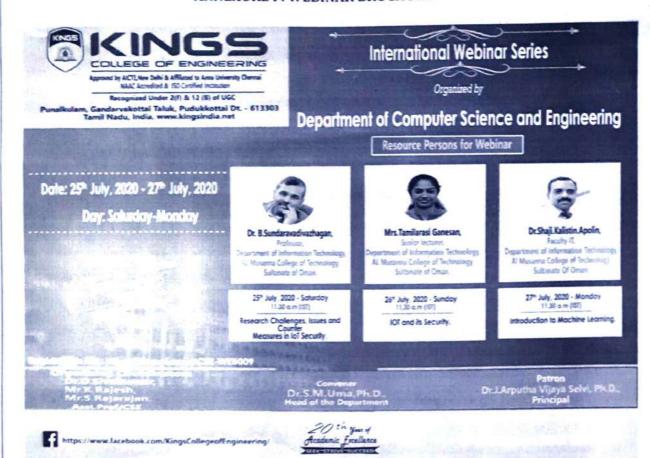
Note: The session details are attached in the following annexures,

Annexure I : Webinar Brochure Annexure II : Registration Details

Annexure III : Webinar Series Summary Annexure IV : Feedback Details

Annexure V: Sample Certificate

### ANNEXURE 1: WEBINAR BROCHURE



### ANNEXURE II: REGISTRATION DETAILS

S.No	State	Count
1.	Sultanate of Oman	3
2.	Saudi Arabia	2
3.	Andhra Pradesh	16
4.	Bihar	10
5.	Chhattisgarh	1
6.	Delhi	2
7.	Gujarat	11
8.	Haryana	1
9.	Jharkhand	2
10.	Karnataka	12
11.	Kerala	2
12.	Madhya Pradesh	4
13.	Maharashtra	9
14.	ORISSA	1
15.	Puducherry	1
16.	Punjab	1
17.	Rajasthan	4
18.	Tamil Nadu	227
19.	Telangana	5
20.	Tripura	1
21.	Uttar Pradesh	7
22.	West Bengal	1
	Total	323

Staff	Industry Person	Research Scholars	Students	Total
167	7	21	128	323

### ANNEXURE III: WEBINAR SUMMARY

### **PARTICIPANTS**

Day 1	Day 2	Day 3
335	148	216

### ANNEXURE IV: FEEDBACK DETAILS

Questions	Day	1	Day	2	Day	3
How helpful was the webinar for you?	3n	<ul> <li>€ Ertenne, hepfu</li> <li>⊕ rijn Heefu</li> <li>⊕ Gomenhal Hepfu</li> <li>⊕ hot so Hegfu</li> </ul>	3/A	Ø bisene Held Ø ien Held 6 tresser vegti Ø Litzer vegti		Directives     Directives     Directives     Directives     Directives
Session handled by the resource person was	An An	● Elicpent ● Very good Il Grory ● Fair	an	© Laten 6 ve. par in dard © for	12	# brazer # Hrz pad () 200 # TV
The content and delivery of the webinar met your expectations	71.B	Store; Ares Ages Coapes Coapes Store; Deapes	270	<ul> <li>4 3000 - 49年</li> <li>中心性</li> <li>1 02000</li> <li>4 5000 24200</li> </ul>	25	Both spe     Only     Propriet     Both
Did you face any difficulty during the webinar?	Q.m.	Everything ross fine     Audio     Residence     Residence     Audio     Audio     Audio	An An	Bishing-in the Bishing I Table	ES	Binsty on But I to
Are you interested to participate in our future webinars?		⊕ 102 ⊕ 102		9 9		***

### SHWIPLE FEEDENCK RESPONSES

	Drey 1		Diagy 22		Day 3
•	Very useful and informative		Excellent Session		Wery nice presentation with ful
	session Can new things	-	Wery good presentation and		of contents and knowledge
	from this session Wery		New continution Gooking		haset. We benefited by new
	orystal dien		torward for more. Webmars in		learning paradign.
	COMENT IS GOOD THEORYS		near future		This webinar session wa
	TO RESOURCE PERSON AND		Thank you for your waluable		amazing
	CHCANNZER		presentation man. Thank you	_	Waluable Session wer
	WONDERFUL HAD		for the organisers who		informative
	ADMESSING SESSION		arranged such an excellent		
	Thank you for the organisers		session today. Once again I	•	Thankyou for this webinar ver
	who arranged such an		thank the management and		useful for me
	excellent sesson tuday. Once		organiser of the institution	•	Thank you for your waluab
	again I thank for the		alist		presentation sir. Thank you fi
	management and the	_			the organisers who arrange
		-	It was very good learning		such an excellent session for
	support team of the		session about left and types of		the 3 days. Once again I than
	department who arranged		security needed Excellent		the management and organis
	such an excellent sesson		presentation with full of		team for arranging this eve
	today on WT. Once again I		information required.		successfully.
	thank you.		Thank you for arranging this	•	Sessions were excellent
	It is a mice FDP for research		wonderful session		observed the session till fin
	scholars. It is very much	-	The session was very		moment, All the sessions a
	heighul for their research		informative. It has given a dear		very informative. The way
	work		ities about IDE. The contents of		deliver the leature is very nic
	Presentation topic is very		the presentation was too good.		by all exper
	useful intermediate some		Great session and good		A very nice session delivern
	disturbance like write is not		organizets		in-depth knowledge Thank yo
	audible it is also rectified by		Wery informative and useful		organizers.
	the organiser and there is		sesson		A very nice and description
	also immediate response for	-	Research student very useful		session. The speaker teacher
	quir queries		ittee's		from very basic which is ver
			Thanks for giving such a		good for the beginners. Than
			wonderful session. Very		you.
			informative session		No.

### ANNEXURE V : SAMPLE CERTIFICATE



DEPARTMENT OF COMPLITER SCIENCE AND ENGINEERING

### CHETHYCATE OF PARTICIPATION

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Organized by Kings College of Engineering, Punalkulam, Pudukkottal



DEPARTMENT OF COMPUTER PCIENCE AND ENGINEERING

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Presented by

D. Elanderovad inchaper. Referen: Al Reserva College af Technology: Smoth

Organised by Kings College of Engineering, Punalkulam, Pudukkottsi

on 25,67,2928





Co-ordinators

Mr.S.Rajarajan., Mr.K.Rajesh

& Dr.D.Sivakumar,

AP/CSE

Dr.S.M.Uma

HOD/CSE

2. Bernet 18/2000

**Principal** 

Dr.J.Arputha Vijaya Selvi







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-2019/ODD SEMESTER

# **Technical Event Report**

√ Name of the Event

Workshop

✓ Date & Session

25.08.2018 & AN

✓ Venue

Lab I, Kings College of Engineering

✓ Level of the Event

Department Level

✓ Name of the Organizer

Ms.P.Nalayini, AP, Dept of CSE

✓ Topic

Web Designing

✓ Organized for

IV yr Students

✓ Number of Participants

40

✓ Purpose

To understand the principles of creating an

effective web page

Resource Person

Mr.Sathish Lohadas,

Lead Designer

Mr.Sambasivam Sathyamoorthy

coo

Diverse Brains Life Solutions LLP

Chennai.

P.N 2118/18 Event Coordinator

HOD/CSE

# SUMMARY REPORT - WORKSHOP

The workshop on 'Web Designing" was conducted on 25.08.2018 for IV year students. Totally 40 students were participated in the event. The main goals of this workshop is

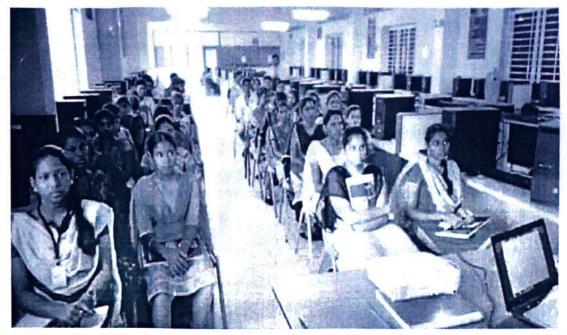
- To understand the principles of creating an effective web page
- To become familiar with graphic design principles that relate to web design.
- To develop skills in analyzing the usability of a web site.
- To understand how to plan and conduct user research related to web usability.
- To learn the languages of web.

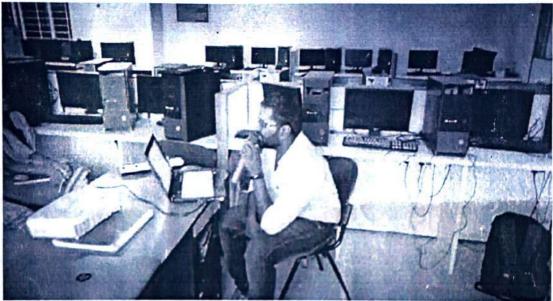
The resource persons were Mr.Sathish Lohadas and Mr.Sambasivam Sathyamoorthy from Diverse Brains Life Solutions LLP, Chennai. The following topics were covered in the workshop.

- 1) HTML5
- 2) CSS
- 3) Web 2.0
- 4) Examples



Resource person Mr. Sambasivam Sathyamodrthy delivering a lecture about web designing concepts





Resource person Mr. Sathish Lohadas gave presentation regarding website creation and projects

### Outcome

Upon completion of this workshop, students are able to

- · Embed social media content into web pages.
- Implement the techniques of responsive web design.

Event Coordinator







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-2019/ODD SEMESTER

### **Technical Event Report**

✓ Name of the Event

Workshop

✓ Date & Session

29.08.2018

√ Venue

Lab I, Kings College of Engineering

✓ Level of the Event

Department Level

✓ Name of the Organizer

Ms.P.Nalayini, AP,Dept of CSE

✓ Topic

J2EE

✓ Organized for

II Yr & III yr Students

✓ Number of Participants

1 conf

85

✓ Purpose

To equip the students with the advanced feature of

java and enable them to handle complex programs relating to managing data and processes over the

network.

Resource Person

Mr.R.Pazhaniyappan,

Managing Director, Ms.P.Sellamani,

Software Programmer, Info systems, Thanjavur.

**Event Coordinator** 

HOD/CSE

2. 684 18/18

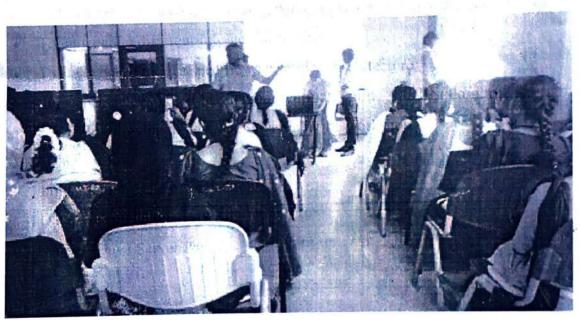
# SUMMARY REPORT - WORKSHOP

The workshop on 'J2EE" was conducted on 29.08.2018 for II year and III year students. Totally 85 students were participated in the event. The main goals of this workshop is

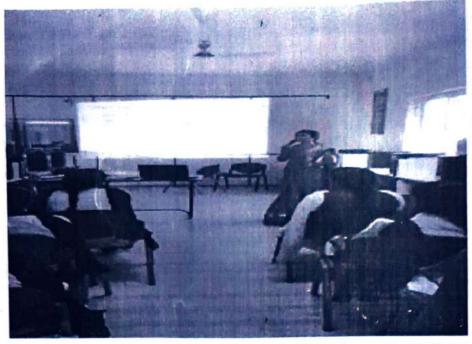
- To gain knowledge about basic Java language syntax and semantics to write Java programs
  and use concepts such as variables, conditional and iterative execution methods etc.
- To understand different Internet Technologies.
- To Be exposed to java specific web services architecture.

The resource persons were Mr.R.Pazhaniyappan and Ms.P.Sellamani from Info systems, Thanjavur. The following topics were covered in the workshop.

- 1) Basics of Java
- 2) Implementing J2EE Applications
- 3) Database connection using JDBC API
- 4) Servlets, Java Server Pages



Resource person Mr.Pazhaniyappan delivering a lecture about java





Resource person Ms.P.Sellamani gave a brief presentation about advanced java concepts

### Outcome

Upon completion of this workshop, students are able to

- Implement Java programs.
- Create a basic website using HTML and Cascading Style Sheets.
- Design and implement dynamic web page with validation using JavaScript objects and by applying different event handling mechanisms.
- Design and implement simple web page in PHP, and to present data in XML format.

**Event Coordinator** 







### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ACADEMIC YEAR 2018 - 2019 / ODD SEMESTER

### One Day Workshop

### Programme Report

Title : Internet of Things Using Arduino and Raspberry Pi

Date : 05.10.18

Venue : Pallava Hall

Participants : External Staffs and Students

Internal Staffs and Students

Total No of Participants : 25

Resource Persons : Mr.G.Karthick,

Embedded and IoT Developer

Live Core Technologies,

Trichy.

Mobile: 9894946363

### SUMMARY:

The one day workshop was conducted on the title of 'Internet of Things Using Arduino and Raspberry Pi' on 05.10.2018 for external and internal participants. Totally 25 participants were participated in the event. The main Objective of this event is to give better skills on Arduino & NodeMc. The program was planned as two session (FN & AN). Both sessions were conducted at the Pallava hall. HOD department of CSE inaugurated the workshop and exposes the importance of workshop. Mr.R.Sriramkumar (coordinator) introduced the resource person Mr.G.Karthick from Live Core Technologies. Mr.G.Karthick resource person have delivered the content of introduction about IoT and arduino during the forenoon session. In the afternoon session hands-on training about arduino and NodeMc was covered.

### PHOTOS:

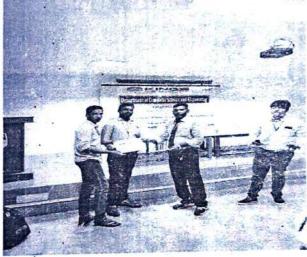




Welcome Address by Head of the department

Resource Person introduction





Mr.G.Karthick, Live Core Technologies delivered the content about IoT during workshop

**Certificate Distribution** 

HOD/CSE

70/106 Spacedon 2016

PRINCIPAL







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-2019/EVEN SEMESTER

# **Technical Event Report**

✓ Name of the Event

Workshop

✓ Date & Session

08.02.2019 & FN

√ Venue

Lab I, Kings College of Engineering

✓ Level of the Event

Department Level

✓ Name of the Organizer

Ms.P.Nalayini, AP, Dept of CSE

✓ Topic

**PHP Programming** 

✓ Organized for

IV yr Students & III yr Students

✓ Number of Participants

90

✓ Purpose

To delvelop skills to create server side scripts using

PHP

✓ Resource Person

Dr. K.RajivGandhi,

Assistant Professor,

Department of Computer Science,

Alagappa University Constituent College,

Paramakudi.

Event Coordinator

HOD/CSE

# SUMMARY REPORT - WORKSHOP

The workshop on 'PHP Programming" was conducted on 08.02.2019 for III Year & IV year students. Totally 90 students were participated in the event. The main goals of this workshop is

- To understand how server side programming works on the web.
- To learn about PHP and MySQL connectivity.
- · To aware about PHP form handling.

The resource person was Dr.K.RajivGandhi, Assistant Professor,Department of Computer Science,Alagappa University Constituent College, Paramakudi.The Topics covered was

- Structured PHP programming
- Database concepts and SQL
- MySQL
- Using MySQL with PHP
- Processing forms with PHP







Resource person Dr. K.RajivGandhi delivering a lecture about PHP Programming

### Outcome

Upon completion of this workshop, students are able to

- Use a PHP editing program.
- Develop functional PHP script.
- Develop a MySQL database.
- · Understand the use of PHP with HTML.
- · Understand the ability to post and publish a PHP website.
- Develop Database connectivity using MySQL.
- Debug script.
- Develop Web Applications.

Event Coordinator

16 24

Page 178 of 747







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-2019/EVEN SEMESTER

## **Technical Event Report**

✓ Name of the Event

Workshop

✓ Date & Session

01.03.2019 & FN

√ Venue

Lab II, Kings College of Engineering

✓ Level of the Event

Department Level

✓ Name of the Organizer

Ms.P.Nalayini, AP, Dept of CSE

✓ Topic

: Web Designing

✓ Organized for

II yr Students

✓ Number of Participants

27

:

:

:

✓ Purpose

To understand the principles of creating an

effective web page.

✓ Resource Person

Ms.P.Punniyavathi,

Software Developer

Kalvi Higher Education & Research Institute

Thanjavur

**Event Coordinator** 

HOD/CSE

373/18/

Page 179 of 747

### **SUMMARY REPORT - WORKSHOP**

The workshop on 'Web Designing' was conducted on 01.03.2019 for II year students. Totally 27 students were participated in the event. The main goals of this workshop is

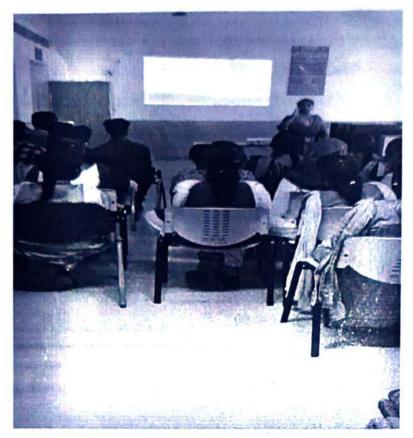
- To understand the principles of creating an effective web page
- To become familiar with graphic design principles that relate to web design.
- To develop skills in analyzing the usability of a web site.
- To understand how to plan and conduct user research related to web usability.
- To learn the languages of web.

The resource person was Ms.P.Punniyavathi from Kalvi Higher Education & Research Institute, Thanjavur. The following topics were covered in the workshop.

- 1) HTML5
- 2) CSS
- 3) Web 2.0
- 4) Examples



Resource person Ms.P.Punniyavathi delivering a lecture about web designing concepts



Resource gave presentation regarding website creation and projects

## Outcome

Upon completion of this workshop, students are able to

- Embed social media content into web pages.
- Implement the techniques of responsive web design.

**Event Coordinator** 

# REPORT ON ONE DAY WORKSHOP ON "MACHINE LEARNING TOOLS & TECHNIQUES" ON 21.02.19

Department of CSE organized one day workshop on "Machine Learning Tools & Techniques" on 21.02.19. Dr.S.M.Uma, Head of the department welcomed the resource person Dr.K.Rajiv Gandhi, Assistant Professor, Alagappa University Constituent College, and also welcomed the participants. Ms.B.Sangeetha Workshop Coordinator, introduced the resource person to the participants. The resource person delivered the keynote address. Totally 50 participants (External – 34 and Internal – 16) attended the workshop. The objective of this workshop was that to gain the knowledge in the area of Python tools which will be helpful to develop their projects. The workshop offered the lecturing session and hands on session. The participants had the real time experience. The hands on training completed at 3.30 pm. The valedictory function began at 3.45 pm. The participant gave the feedback about the workshop. Dr.D.Sivakumar AP, distributed the certificates to the participants. Ms.S.Puvaneswari, workshop coordinator thanked the management, the principal, the resource person, all the participants and all the staff members and technicians who were the backbone of this workshop.

#### Resource Person Details:

Dr.K.Rajiv Gandhi,

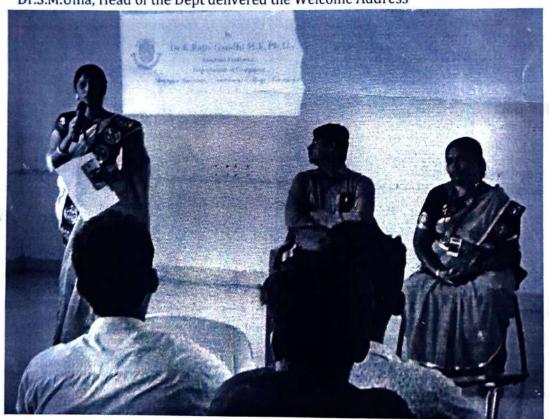
Asst. Prof, Algappa University Constituent College,

#### Topics Covered in the workshop:

- · Basic Concepts of Machine Learning & its tecniques
- ANACONDA
- Jupyter Notebook
- Hands on Training



Dr.S.M.Uma, Head of the Dept delivered the Welcome Address



Ms.B.Sangeetha AP/CSE introduced the resource person



Dr.K.Rajiv Gandhi delivered his keynote address.



Dr.K.Rajiv Gandhi delivered his lecture



Hands on Session: Training Session was conducted on afternoon





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Workshop Coordinator(s)

Certificate Distribution

Principal



# ONE DAY WORKSHOP ON MACHINE LEARNING TOOLS & TECHNIQUES



21ST FEBRUARY 2019

Organized by,

Department of CSE

Kings College of Engineering

Contact: hodcse@kingsindia.net

#### ABOUT THE COLLEGE

Kings College of Engineering is an institution which was formed with the singular aim of providing quality education to the poor and underprivileged students. KCE is approved by All India Council of Technical Education, New Delhi (AlCTE) and is affiliated to Anna University. 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, Chennai. The institution offers five UG and four PG programmes and certified with ISO 9001:2008.

#### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in the year of 2001. The Department possesses cutting edge technology and laboratories equipped with essential software. We are regularly conducting Symposium, FDP and Conferences to connect with recent technologies. The Department has excellent infrastructure facilities with well equipped Computer Centre, Library, 100 MBps broadband Internet facilities and well qualified and experienced faculty.

#### ABOUT THE WORKSHOP

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to effectively perform a specific task without using explicit instructions, relying on models and inference instead. It is seen as a subset of artificial intelligence. Machine learning algorithms build a mathematical model of sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to perform the task.

Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda distribution that allows users to launch applications and manage conda packages, environments and channels without using command-line commands. Navigator can search for packages on Anaconda Cloud or in a local Anaconda Repository, install them in an environment, run the packages and update them. It is available for Windows, macOS and Linux.

#### SESSION OUTLINE

- Basic Concepts of Machine Learning & its tecniques
- ANACONDA
- Jupyter Notebook
- Hands on Training

#### RESOURCE PERSON

Faculties from reputed institutions and industries.

#### WHO SHOULD ATTEND

Pre final & Final UG(Engineering & Polytechnic) & PG students from the Department of CSE / IT / ECE/ MCA can attend this workshop.

#### REGISTRATION

Spot registration is permitted. Scanned copy of registration form must be sent through e-mail on or before 18.02.19

**UG Students** 

Rs.150

PG Students

Rs.200

#### HOW TO APPLY

Applicants are requested to send the duly filled-in registration form along with the registration fee on or before 18.02.2019.

#### IMPORTANT DATES

Registration

: 18.02.2019

Intimation

: 19.02.2019

#### ORGANIZING COMMITTEE

#### **Chief Patrons**

Dr.R.Rajendran

Secretary

Mr.T.R.S.Muthukumaar,

C.E.O

#### Patron

Dr. J.Arputha Vijaya Selvi, Principal

#### Co- Patron

Dr. S. Sivakumar, Vice Principal

#### Convener

Dr.S.M.Uma

HOD/CSE

### Please mail your registration form to

HOD/CSE,

Kings College of Engineering,

Punalkulam

Thanjavur - 613303

Email: hodcse@kingsindia.net

## For further information, please contact

Ms.S.Puvaneswari & Ms.B.Sangeetha

AP/CSE,

Coordinators,

Ph: 99438 96178, 8248162260

## REGISTRATION FORM

(In Block Letters Only)

Institution /

Organization Name

Designation

Department

Address

for Communication

Email id

Mobile No

Signature of the candidate

#### CERTIFICATE

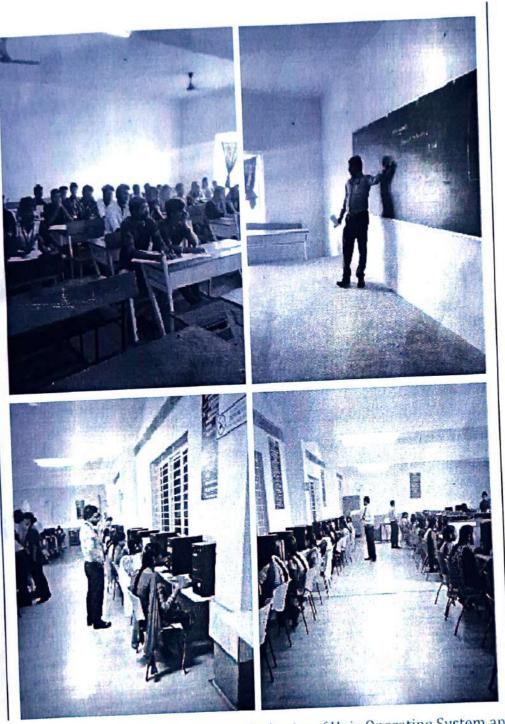
This is to certify that ... is a student of our institute and is permitted to attend the One Day Workshop on "Machine Learning Tools & Techniques"

> Signature of Head of the Institution (With office seal)

# SUMMARY REPORT - Introductory Class

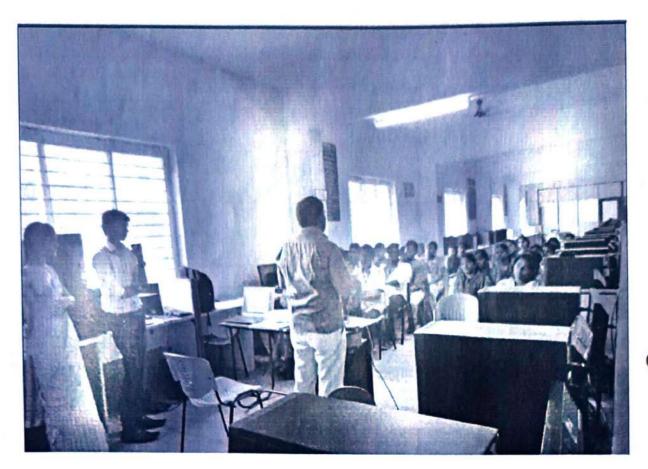
To enrich the knowledge of the students and make them to strong in technical skill, Introductory class is used. The main objective of this class is to provide a platform to the students to understand their academic subjects. There are two introductory classes were planned to equip the students knowledge,

- 1. Unix Operating System II Year 46 members were attended
- 2. Android Installation III Year 31 members were attended



Mr.S.Rajarajan AP / CSE had taken the basics of Unix Operating System and hands on training

83 / 106



Mr.R.Palaniappan and his team members (Info Systems) explained the steps to install Android OS.

### **COURSE OUTCOME**

Upon completion of this class, students should be able to:

- · Understand the basic concepts of Unix which is helpful to study the concepts of OS
- Execution of Unix Commands will be helpful in their lab session
- Do their lab classes (Mobile Application Development Lab) in an effective manner.

S. Pw Zo/2/8 Bridge Course Coordinator

bridge course coordinator

HOD/CSE 20 1218

(Ms.S.Puvaneswari)







11.03.19

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2018-19 (EVEN SEM)

# ALUMNI INTERACTION SESSION

BARANITHARAN.M working as Quality Assurance Engineer in Expleo Group of Companies, Bangalore, NAGARAJAN. Full Stack Developer, Aagnia Technologies, Coimbatore (2018 passedout) addressed III year students about their expeirences in skill development, certifications, attending interviews and industry expectations on 09.03.19

During the session, they insisted on the following

- FOSS based certifications
- In-house project work
- Aptitude skill development
- Goal setting and working for the target
- Networking among the group

Sharing interview tips, work experience and need for continuous skill upgradation among the juniors, Alumnus insisted juniors to be vibrant in preparing themselves to face the outside world. Also, insisted junior to opt suitable company (preferably start ups) for better learning environment. Various online resource links was shared for skill enrichment. Alumnus also informed juniors to be in networking with seniors for suitable references.



View of III Year students listening to Alumnus

No.: of students attended the session: 36

IQAC Coordinator

HOD/CSE 13

PRINCIPAL

VP







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2017-2018/ ODD SEMESTER

# Student Workshop

# Programme Report

Title : Network Simulator NS2

Date : 21.07.17

Venue : Pallava Hall

Participants : IVYr

Total Number of Students : 34

Resource Persons : Mr.M.Manoharan

Head, Projects & operations,

Green soft Technologies,

Trichy.

# Summary:

The workshop on 'Network Simulator – NS2" was conducted on 21.07.2017 for IV year students. Totally 34 students were participated in the event. The main goals of this workshop is

 to bring network research and engineers to discuss how NS-2 can be used in their research, to incorporate new modules in NS-2 and to discuss the evolution of NS-2 towards NS-3.

- to create an open simulation environment for computer networking research that will be preferred inside the research community.
- to make understand undergraduate and graduate students for the better understanding of underlying network behavior.

The resource person Mr.M.Manoharan, Head, Projects & operations, Green soft Technologies, Trichy.came from Green soft Technologies, Trichy.The following topics were covered in the workshop.

- 1) Introduction
- 2) TCL Programming
- 3) OTcl Programming
- 4) Examples



Resource Person delivering lecture at pullaua Hall



Resource Person Mr. M. Manchas shows about Simulation projects



Mr. M. Monohar providing presentation about NSZ

HOD/CSE







(NAAC Accredited Institution)
(Approved by AICTE, New Delhi, Affiliated to
Anna University, Chennai)

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2017 - 2018 / ODD SEMESTER

# Report

1. Type of the Event

Seminar

2. Name of the Event

"Career Opportunities and Industry Expectations"

3. Purpose

To create awareness about the availability of various Career

Opportunities and Expectations of industries for the

students.

4. Date

12.8.17

5. Level of the Event

Department Level

6. Name of the organizer

R.Sugantha Lakshmi /CSE

7. Resource Person

Mr. Sasipradeep Raja

Business Analyst,

NonoNordisk, Bangalore

8. Target Group

III& IV Year CSE Students

9. Number of Participants

92(58+33) Students

10. Outcome

Students got awareness on the opportunities, the needs

of industry and how to equip themselves according to it.

**Alumni Co-ordinator** 

HOD/CSE

on way the delivered for the Shall

8000 Marte 117.

## Annexure I





Our Alumni (Resource Person) Mr. Mr. Sasipradeep Raja , Delivering Lecture on "Career Opportunities and Industry Expectations"







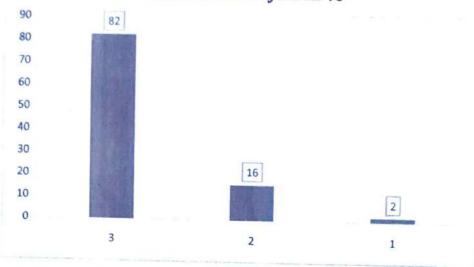
**Feedback Session** 

# **Annexure II**

# Seminar Feedback

# **TOTAL SAMPLES: 77**

# Feedback Analysis in %



1- Satisfactory 2-Good 3- Excellent

# **Supporting Table**

	Excellent	Good	Satisfactory
Total	315	62	8
In %	82	16	2







09.02.18

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACADEMIC YEAR 2017-18 (EVEN SEM) WORKSHOP REPORT

Title

: PYTHON PROGRAMMING

Date

: 08.02.18

**Participants** 

: Il year and III Year CSE students (94 students)

Resource person

: Ms.K.Asha

**Developer and Technical Trainer** 

Kalvi Educational and Research Institute

Thanjavur.

**Objective** 

:

To impart overview of Python programming with hands on experience to the batches under regulation of 2013, workshop was organized. Python is a general purpose interpreted, interactive, OO, high-level programme language. It is extensible, rich in libraries, portable and Open Source Software. Workshop was intended to give orientation to the language.





Resource Person handling the session

Interactive session view.



View of student participant

## **Workshop Outcome:**

Students were enlightened about the features of the language with demonstration session. Students were motivated to explore further and enhance their programming skills.

organized By (Ms·P·Nalayini) 2- 18 total 18.

HOD/OSE

Page 197 of 747

92 / 106



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# ACADEMIC YEAR 2017-2018/ ODD SEMESTER

Student Workshop

Programme Report

Title : Cloud computing

Date : 12.02.18

Venue : Pallava Hall

Participants : II & III Year students

Total Number of Students: 82

Resource Persons : Ms.S.Shyamala & Ms.E.Monica Seles

CADD Centre/Livewire/Synergy

Thanjavur.

# Summary:

The workshop on 'Cloud computing" was conducted on 12.02.2018 for II year & III year students. Totally 82 students were participated in the event. The main goals of this workshop are

- To gain knowledge on the concept of virtualization that is fundamental to cloud computing
- To learn how to program the cloud.
- To understand the security issues in the cloud environment.



Resource persons :Ms.S.Shyamala& Ms.E.Monica Seles delivering a lecture about Cloud computing concepts



Students listening the session

# **OUTCOME:**

Students were enlightened about the concept of virtualization with demonstration session. Students got the exposure of cloud tool kits and security models in cloud environment.

# REPORT ON IEI WORKSHOP ON "ASP .NET WEB SERVICE" ON 28.07.17

On behalf of IEI (Students Chapter) and Department of CSE jointly organized one day workshop on "ASP .NET Web Service" on 28.07.17. There are 92 IEI members (III Year & IV Year) had attended this workshop. The objective of this workshop was that to gain the knowledge in the area of web service and .Net framework which will be helpful to develop their projects. The workshop provided the lecturing session and hands on session. The IEI members had the real time experience and also clear their doubts during that session.

### **Resource Person Details:**

Mr.R.Palaniappan and his team members, Infosystems,

Thanjavur.

## Topics Covered in the workshop:

Introduction of .Net Framework, Basic syntax of ASP .Net, Form controls and Coding **Database Connectivity** 



Mr.R.Palaniappan and his team members had given the introduction of .Net Framework.





Doubt Clearing Session (in Afternoon).



Dept.IEI Coordinator: ⅓ , Pw (S. PUVANESWARI)

HOD/CSE

95 / 106







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# ACADEMIC YEAR 2016- 2017/ ODD SEMESTER

# Student Workshop

# Programme Report

Title : Web Technology

Date : 29.07.16

Venue : Chera Hall

Participants : II yr & III yr

Total Number of Students : 92

Resource Persons : Mr.Sanjeev & Mr.Matheev

Occulus Solution,

Trichy.

Mobile: 9865592019

# Summary:

The one day workshop was conducted on 'web Technology' on 29.07.2016 for II & III year. Totally 92 students were participated in the event.

The main Objective of this event is to given better skills on Web Page Development. The program was planned as two session. Both sessions were conducted at the chera hall. HOD madam had inaugurated the workshop and exposes the importance of workshop.

The resource person Mr.Matheev and Mr.Sanjeev came from Oculus Solution, Trichy. He delivered the content of Introduction about PHP and Mysql in the morning session. In the afternoon session the same set of students were attended. The topic was covered in the second session is creating sample programs with PHP and given demo for this topics. The morning session was started at the time of between 10.00am and 1.00pm and the afternoon session was started between 2pm and 4.30pm. The following topics were covered in the workshop.

# 29.07.2016:

- 1) Installation
- 2) PHP Basics
- 3) Arrays and Custom Functions
- 4) Creating Basic Programs with PHP.
- 1) HTML Introduction
- 2) HTML Frames
- 3) CSS

The certificates were distributed for all the participants by the coordinator Mr.J.Jegan.

# Annexure:

A1 - Certificate Sample

A2-Photographs

A3 – R & D Fund Request, Utilization Records

A4 - Attendance Report

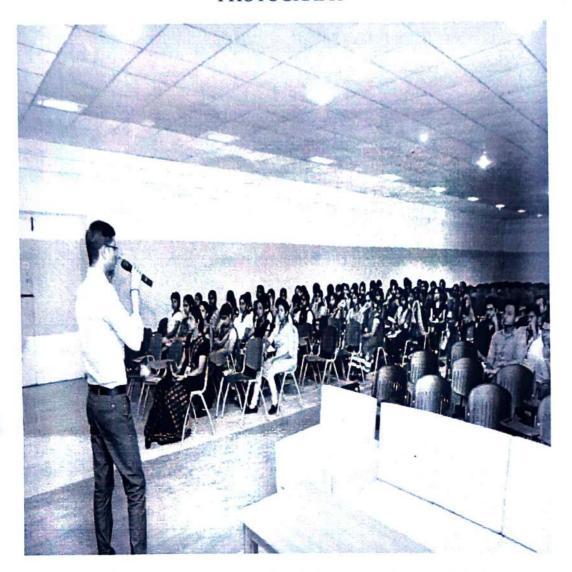
A5 - Feedback

Workshop Coordinator

(Ms.B.Sangeetha)

HOD/CSE

# ANNEXURE - II PHOTOGRAPH



Mr.Sanjeevi delivered the lecture to II Year & III Year Students

#### M.Sanjeevi

Oculus Technologies Contact no.: 9976570006 Email id: sanjeevi@oculusit.in

#### Objective

I want to utilize my skills and potential to achieve the challenging position in the Software Industry and fulfilling organizational goals

Educational Qualifications

- MCA from Bharathidasan University with 75%
- Diploma in Computer Engineering from SIT with 86%
- SSLC from Boiler Plant Boys Higher Secondary School with 87%

#### **Employers**

- Currently working as a General Manager in Oculus Technologies from Nov 2009.
- Worked as a web developer in Harsha Infotech from Apr 2008 to Sep 2009

#### **Technical Skills**

- Skills PHP5, MySQL, Ajax, jQuery, Javascript, HTML5, CSS3, XML
- PHP Framework CakePHP, Codeigniter
- PHP ecommerce-Opencart, PrestaShop, oscommerce
- PHP-CMS WordPress, Joomla
- Payment Gateways: PayPal Checkout, Google Checkout
- WEB Server: XAMPP, WAMP
- Operating Systems: Windows Enterprise
- Tools / Software: Dreamweaver, NetBeans
- Web Hosting: Apche, Domain, DNS, EMail, FTP

#### **Key Skills**

- Hands on experience in Coding, Testing, Implementation/Maintenance Support in PHP and MySQL.
- Extensive development of jQuery, JavaScript.
- Quick learner and eager to learn new technologies.
- OOPS PHP development.
- Integration Ability: Strong in understanding and integrating third party web services.
- Client-side programming: JavaScript, AJAX, DHTML, jQuery.
- Webserver installation & configuration: Apache, Microsoft IIS.
- Design for SEO (Search Engine Optimization).

#### Role & Contribution

#### Developer

- Development of reusable code.
- Development and implementation of Core functionality and support tools.
- Understand the business and functional requirements.
- Handled the CMS (Front End programming).
- Iterative testing and code reviews through development of the application.
- Developed the system Unit.
- Integration Testing & debugging.

#### Personal Details

Date of Birth: 16/10/1988

Languages known: English, Tamil







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2016-2017/ ODD SEMESTER

# Student Workshop

# Programme Report

Title

Advanced .NET

Date

19.09.16

Venue

Lab-II

**Participants** 

**IVYr** 

Total Number of Students:

62

Resource Persons

.Ms.J.S.anusha Priya & Ms.R.Kiruthika

CENTAURUSS Technologies

Trichy.

Mobile: 8428379819

# Summary:

The one day workshop was conducted on 'Advanced .NET Framework on 19.09.2016 for IV year. Totally 62 students were participated in the event.

The main Objective of this event is to given better skills on Web Page Development by using advanced .NET and also giving client server interaction by using ASP Technologies.

# 19.09.2016:

- 1) Introduction
- 2) CLR
- 3) C#
- 4) Web applications
- 5) Client Server Interactions
- 6).ASP







HOD/CSE



No 4/5 F, Tanjore Main Road, Philomina Church Opposite, Kattur, Trichy-620019.

Phone : +91-8428397819, 8428397817
Email : contact@centauruss.com
Website : www.centauruss.com

# RESOURCE PERSON PROFILE

NAME

ANUSHA PRIYA J.S

DESIGNATION

**TECHNICAL ANALYST** 

## Resource knowledge:

ASP.NET 3.5 and Above, WCF, WPF, WWF, MVC, MFC, Telerik

Database: MS SQL Server, MySQL, MS-Access.

Client-Side Scripting: JQuery, JQuery UI, Javascript, HTML

## Experience:

- 6 years of experience in .NET, SQL technology & Web Designing.
- Strong Skill set in creating Web based Application using ASP.NET.
- Knowledge in entire SDLC.

#### Role:

- 3 years of experience in NOAH SOFT on .NET (2011 2013)
- 1 year & 3 months of experience on HCL learning as Program developer (2013 2014)
- 2 years of experience in CENTAURUSS as Technical Analyst (2014 2016)

## **Projects Handled:**

#### Hotelogic

- DashBoard for Admin (to Monitor all room allocation)
- Auto Intimation to Admin that the customer checkout date is nearby.
- Software for Managing Hotel Activities.

#### **DallasIndia**

- Search Engine website (SEW).
- Web based application developing using asp.net.
- Three Tier architecture, Autocomplete and Ajax.

#### Savour Of Christ

- Web based application developing using asp.net.
- Dynamic MultiLingual Concept with Database SQL Server 2008.

www.centauruss.com







# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ACADEMIC YEAR 2016-2017/ EVEN SEMESTER

## STUDENT WORKSHOP ACTIVITY

# Programme Report

Title

Advanced .NET

Date

28.01.17

Venue

AV HALL

**Participants** 

II and III Yr

Total Number of Students:

92

Resource Persons :

.Ms.J.S.Anusha Priya & Mr.S.Vignesh

**CENTAURUSS Technologies** 

Trichy.

Mobile: 8428379819

# Summary:

The one day workshop was conducted on 'Advanced .NET Framework on 28.01.2017 for II and III year. Totally 92 students were participated in the event.

The main Objective of this event is to given better skills on Web Page Development by using advanced .NET and also giving client server interaction by using ASP Technologies.

# .28.1.2017:

- 1) Introduction
- 2) CLR
- 3) C#
- 4) Web applications
- 5) Client Server Interactions
- 6).ASP









Workshop Co ordinator

(Disma Komac)

HOD/CSF







### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2016- 2017/ EVEN SEMESTER

# Student Workshop

# **Programme Report**

Title : Emerging Trends in IT Industries.

Date : 04.03.2017

Venue : Computer Lab-II

Participants : III yr & IV yr

Total Number of Students: 96

Resource Persons : MS.S.Shyamala

Branch Manager,

CADD Centre/ Live Wire,

Thanjavur.

Mobile: 8489977530

# Summary:

The one day workshop was conducted on 'Emerging Trends in IT Industries' on 04.03.2017 for third year and Final year students. Totally 97 students were participated in the event. The main Objective of this event is to given better skills on Latest Trends tools used in the industries. The program was planned as one session conducted at the Computer Lab-II. HOD madam had inaugurated the workshop and exposes the importance of workshop. The resource person MS.S.Shyamala came from CADD Centre/ Live Wire, Thanjavur. She delivered the content of Introduction about IT Industries and how the latest tools they were using in their company . Some of the Latest

trends in the current trends like Cloud Computing, Mobile Application, User Interfaces and Analytics.

The following topics were covered in the workshop.

# 04.03.2017:

- 1) Cloud Computing uses
- 2) Mobile Application Tools
- 3) User Interface tools
- 4) Analytics of the problem.







Department Workshop in charge

(Mr.D.SIVAKUMAR)

1

HOD/CSE







# Department of Electronics and Communication Engineering

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

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## **Organizing Committee**

Chief Patrons
Dr. R. Rajendran, Ph.D.
Secretary.

Shri.T.R.S.Muthukumaar, M.B.A., Chief Executive Officer.

#### Patron

Dr.J.Arputha Vijaya Selvi, M.E., Ph.D., Principal.

Co - Patron Dr. S. Sivakumar, M.Tech., Ph.D, Vice Principal.

Conference Chair Prof. N. Mangaiyarkarasi, HOD/Dept. of ECE.

Organizing Secretaries Mr. K. Sudarsanan, AP/Dept. of ECE.

Mr. S. Ramarajan, AP/Dept. of ECE.



## **Address for Communication**

Organizing Secretary,
Nat. Conf. ECD'21,
Kings College of Engineering,
Punalkulam - 613 303,
Pudukkottai Dt.
Tamilnadu, India.
email: ncec@kingsindia.net
Phone: +91 94871 03354

+91 99947 05203

#### CONFERENCE TOPICS

Antennas and Microwave Engineering
Cognitive System Research
Embedded Systems
Green Energy

▲ IoT based Instrumentation★ Networks

Robotics

Semiconductor Devices and VLSI Signal and Image Processing

Soft Computing

Wireless Communication
Wireless Sensor Networks

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## Registration Fee

Research Scholars : Rs. 300
Students (UG/PG) : Rs. 300
Other participants (Listeners) : Rs. 100

#### **Important Dates**

Last date for paper submission : 10-03-2021,
Acceptance notification : 12-03-2021
Camera ready copy : 13-03-2021

#### Guidelines

Authors are invited to submit full papers as per the IEEE Paper Template (using two column, single spaced format with 10 pt not exceeding 8 pages) to ncec@kingsindia.net.

► Hardcopy of the certificates will be provided to the authors (max 4nos) of the manuscript and certificate to the supervisor. T. Me Joseph.

KINGS

A NAAC Accredited & ISO Certified Institution Recognized by 2(f) & 12(B) of UGC

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

NATIONAL CONFERENCE
ON

ADVANCEMENT IN ELECTRONICS AND COMMMUNICATION FOR DIGITAL INDIA

Jointly organized by Department of ECE & IEEE STB 16621

17<sup>th</sup> March, 2021







# A REPORT ON

National Conference on Advancement in Electronics and Communication for Digital India (NCECD'2021)

17.03.2021

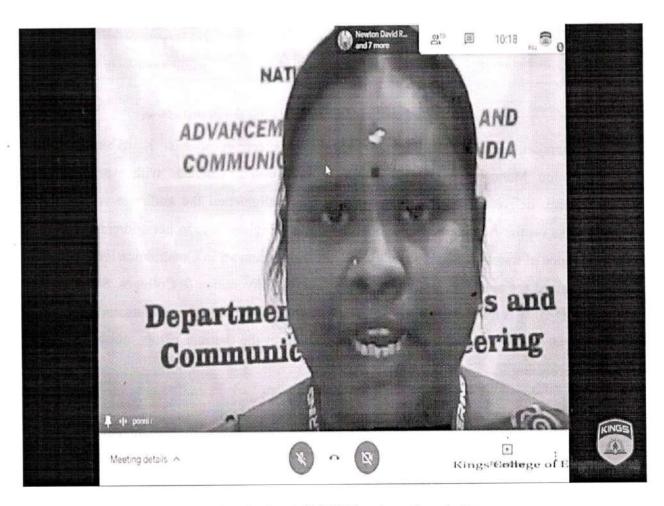
Organized by

**Department of Electronics and Communication Engineering** 

Mode of Presentation: Virtual Mode

The Department of Electronics and Communication Engineering of our college has organized a National Conference on Advancement in Electronics and Communication for Digital India (NCECD'2021). Delegates of the conference presented their papers in the areas of Robotics, IoT, Signal/Image processing, Wireless communication and Digital assistants.

The conference was inaugurated by Mrs.N.Magaiyarkarasi, HOD/ECE, Kings College of Engineering and delivered welcome address.



Mrs.N.Magaiyarkarasi, HOD/ECE, welcome the gatherings

The function was presided by Dr.J.Arputha Vijaya Selvi, Prinicipal, Kings College of Engineering.



Dr.J.Arputha Vijaya Selvi, Principal, delivering the presidential address

Mr. S.Ramarajan, Asst. Prof/ECE, introduced the chief guest Ms. K. Abirami, Project Implementation Manager, TATA Communication Limited, Chennai with warm greetings. Ms.K.Abirami, delivered the key note address. She enlightened the audience with her mind blowing talks on the Advancement in Communication Engineering. In her address, she stressed the importance of transforming research ideas into Advancement in Communication Engineering and emphasized the need for project based learning in Universities & Colleges. She also stated that NCECD-2021 is a huge platform for all engineering disciplines to generate and share new & innovative ideas. She briefed the role of digital India in the thermal plants, oceanography and weather forecasting.

4



Mr.S.Ramarajan, AP/ECE, Conference Coordinator, delivering the Chief Guest introduction



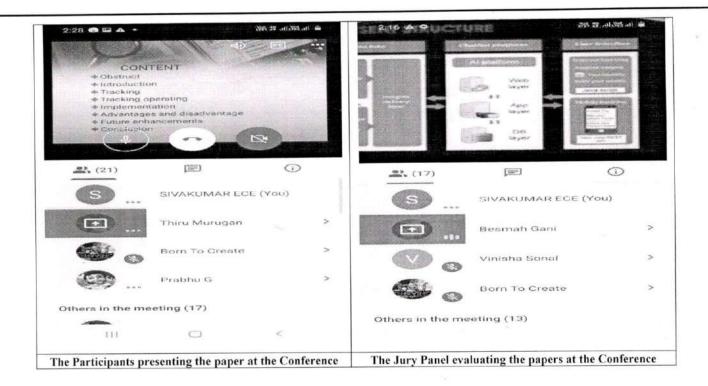
Ms.K.Abirami, Chief guest delivering the key note address

More than 50 delegates from various Engineering Colleges from Tamilnadu presented their research articles in this conference in two tracks. All the selected Papers will be published Conference Proceedings.

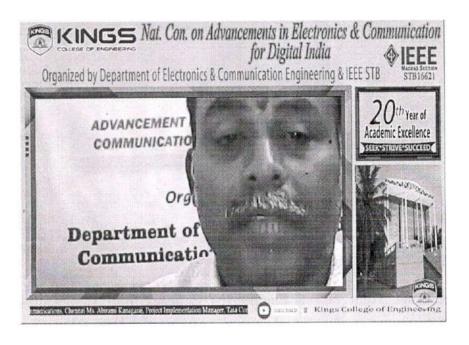
Papers were presented in 2 tracks; track 1 was chaired by Mr.T.Pasupathi, Assistant Professor, Department of Electronics and Communication, track 2 was chaired by Mr.S.Sivakumar, Assistant Professor, Department of Electronics and Communication Engineering.

Track 1 Link: tinyurl.com/Nconsession1

Track 2 Link: tinyurl.com/Nconsession2



Mr.K.Sudarsanan, Assistant Professor, Department of Electronics and Communication delivered the vote of thanks.



The Conference Coordinator Mr.K.Sudarsanan delivering the Vote of Thanks

Finally the conference was successfully ended with the national anthem.

Organizing Secretary

1. Mr.K.Sudarsanan, AP/ECE

2. Mr.S.Ramarajan, AP/ECE

J. PRINCIPAL

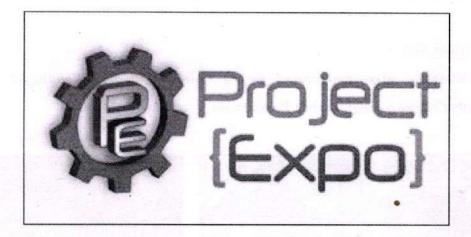






## **KINGS PROJECT EXPO'21**

09.04.2021



### **EXPO REPORT**

ORGANIZED BY
RESEARCH & DEVELOPMENT SECTION
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613303
PUDUKKOTTAI DT

YouTube live stream: https://youtu.be/0LU-9BhrWE8

#### **BACKGROUND & OBJECTIVE:**

Kings College of Engineering, Research & Development section in association with IIC & IEEE organized the "Kings Project Expo'21" for Engineering students on 09.04.2021. The main objective of this project expo is to provide a platform for the students to use their Engineering knowledge and bring the best inventions from their brains. It also allows students to work together in group to learn from each other. They shared their ideas and collectively galvanize those ideas to bring something innovative into implementation.

#### INAUGURAL SESSION

The Conference was inaugurated by the Chief Guest Dr.M.Kavitha,AP/Department of CSE, University College of Engineering, Rajamadam.





#### WELCOME ADDRESS

The welcome address was given by Dr.D.Sivakumar, Coordinator of Kings Science Expo'21. He welcomed the dignitaries, faculty members and the students from various educational Institutions across the state. Ms.T.Bhuvaneswari, Coordinator of Kings Science Expo'21 introduced about the chief guest. 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

#### PRESIDENTIAL ADDRESS

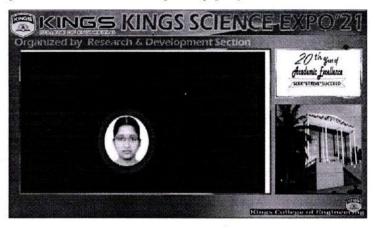
Dr.M.Kavitha,AP/Department of CSE, University College of Engineering, Rajamadam graced the occasion as chief guest and delivered the presidential address.

In her address, she lauded the Management and the academic administration of the institute for hosting Science expo. She insisted the students to make use of this platform as a rehearsal for their job. Students have to be clear with their ideas and to coordinate with the team members.



#### FELICITATION ADDRESS

Dr.J.Arputha Vijaya Selvi, Principal of our college delivered the felicitation address. She appreciated all the final year students for their involvement. She insisted the students to show their technical knowledge in software and hardware tools, presentation skills, creativity, scope for further enhancement and promotion of interdisciplinary projects.



After the inaugural session project expo were conducted individually by all departments.

#### **EXPO DETAILS**

71 batches participated in the Project expo. Students presented about their project through Google Meet. Each batch was given 10 - 15 minutes duration to explain their project. A Jury panel comprising of two senior faculty members evaluated the projects and gave feedback & valuable comments to the students. Based on the presentation, PPT content and outcome, marks were awarded by the Jury panel and 1 project was selected for rewards from each department.

#### PARTICIPANT DETAILS

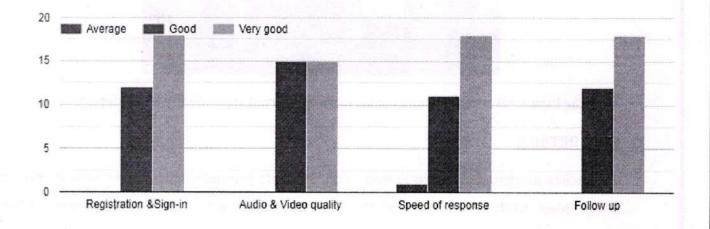
S.NO	DEPT	INTERNAL BATCHES	EXTERNAL BATCHES	TOTAL	WINNER
1	CIVIL	10	8	18	EXT(ARJCET)
2	CSE	10		10	INTERNAL
3	ECE	09	09	18	EXT(CKCET)
4 EEE		04	02	06	EXT(AAMEC)
5	МЕСН	17	02	19	INTERNAL
TOTAL		50	21	71	

#### **OUTCOME:**

Final year students from various department and PG students were eagerly participated in the Project Expo'2021. Students gained knowledge about online presentation and got valuable feedback from the faculty members which will be very much useful for their viva voice examinations.

#### FEEDBACK FROM THE PARTICIPANTS:

How did you find the Expo



### Winners of the Kings Project Expo'21

Track	Title of the Project	Name of the Participants	
Civil	Experimental Investigation of	C.Abirami, J.Bairavi, A.Sulomiya,	
	Self Cleaning Concrete by using Calcium	A.R.J. College of Engineering	
	Carbonate as Photocatalyst	And Technology, Mannargudi	
CSE	Wireless IoT Based Solution for	Ms.Supritha C, Ms.Deepa N,	
	Women Safety"	Ms.Shiyamala R, Ms.Shalini P	
		Kings College of Engineering	
ECE	Automated crop protection system	Ms.Saranraj K, Ms. Siva G,	
	using different sounds	Ms.Reno S, Mr.Vishwa N	
	5544	CK College of Engineering &	
		Technology, Cuddalore	
EEE	Maximum Power	Ms.Akila S, Ms.Dhanalakshmi R	
	Point Tracking Algorithms For	Ms.Gobikha M, Ms.Latha M	
	Photovoltaic Systems	Anjalai Ammal Mahalingam	
		Engineering College,Kovilvenni	
MECH	Synthesis of Magnesium Metal Matrix	J. Augustine Albert, N. Kaviyarasan	
	Composites using Powder Metallurgy	S. Krishna, R. Mohammed Yasin	
	3000	Sharif	
	*	Kings College of Engineering	

E	F	G	Н	
How did you find the	e Exp How did you find th	e Exp How did you find th	e Exp How did you find th	e Exp Are you interested in parti
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Good	Very good	Very good	Yes
Good	Good	Good	Good	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Good	Good	Good	Good	Yes
Very good	Very good	Very good	Very good	Yes
Good	Good	Good	Good	Yes
Good	Good	Good	Good	Yes
Good	Very good	Very good	Very good	Yes
Very good	Very good	Good	Good .	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Very good	Very good	Very good	Very good	Yes
Good	Good	Good	Good	Yes
Very good	Very good	Very good	Very good	Yes
Good	Good	Good	Good	Yes

COORDINATOR

(TBHUVANESMARI)

CONVENOR

PRINCIPAL









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Punalkulam, Gandarvakottai Taluk, Pudukkottai District – 613 303.

## A REPORT

### ON WEBINAR TITLED

# "COMPOSITE MATERIALS FOR AUTOMOTIVE APPLICATIONS & FLEXIBLE ELECTRONICS"

01st JUNE 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)

Phone: 04362-282474, 282395 Website: <u>www.kingsindia.net</u>

1

#### A Glimpse on the Background of Webinar:

Department of Electronics and Communication Engineering, organized a webinar on "COMPOSITE MATERIALS FOR AUTOMOTIVE APPLICATIONS & FLEXIBLE ELECTRONICS" on 01st June 2021, from 11.00 p.m. to 12.00 Noon.

The main objective of this webinar is to provide basic knowledge on the composite material and flexible electronics materials.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Dr.T.Shanthi, Associate Professor /ECE, Mr.R.Thandayuthapani, AP/ECE were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### **ABOUT THE RESOURCE PERSON:**

The resource person for the webinar was Mr.A.Senthil Kumar, Project Scientist, Indian Institute of Technology, Chennai.

#### **ABOUT THE IMPORTANT COMMUNICATION LINK'S**

- **REGISTRATION LINK**: https://tinyurl.com/webflexibleelec
- > **YOU TUBE LINK** : https://youtu.be/5pJSrZ050gc
- ➤ **GOOGLE MEET LINK**: https://meet.google.com/wfu-muuy-rdc
- FEEDBACK LINK : https://tinyurl.com/fbflexibleElec

#### **ABOUT THE REGISTRATION PROCESS:**

The webinar was organized via Google Meet platform and also live streamed in YouTube channel. The registration link was shared to participants through various WhatsApp groups and Gmail. We received responses from various institutions and also from internal participants. Confirmation mail along with YouTube link was sent to all the registered participants of the webinar.

#### **ABOUT THE WEBINAR:**

- ✓ The webinar started by 11.00 p.m.
- ✓ Dr.T.Shanthi, Associate Professor /ECE coordinator of the webinar welcomed the resource person and the participants.
- ✓ Mr.R.Thandayuthapani, AP/ECE coordinator of the webinar introduced the resource person.
- ✓ Resource person gave very clear explanation on the "COMPOSITE MATERIALS FOR AUTOMOTIVE APPLICATIONS & FLEXIBLE ELECTRONICS" through the following subtopics:
  - ❖ Moto of the webinar is conversion from waste material to useful one
  - Make in India
  - ❖ Motivate the students for research
  - Composite material for automotive applications.
  - Classification of Natural fibers
  - Structure and properties of composite materials
  - Geometry and Orientation of the fibers in the composite
  - Surface modification of Natural fibers
  - Drawbacks of Natural fiber composite
  - Nano composite
  - Flexible Electronics
  - Conductive Nanomaterial for Printed Electronics
  - Nano material requirements and challenges
  - ❖ Conductive ink and Pen
  - Conductive inject ink is multicomponent system
  - ❖ Conductive ink: Join the IoT revolution with innovative and flexible applications
  - Circuits demo
- ✓ Finally he gave tips regarding useful certification and non certification courses and also shared the link. The queries posted in the YouTube chat box by the participants were clarified. Feedback link was posted in the chat box. Mr.R.Thandayuthapani, AP/ECE, proposed vote of thanks. Programme was technically supported by Mr. J. Niranjan Samuel, JRF/R&D.

#### OUTCOME:

✓ We received 100 registrations from various institutions.

- Among the 100 registered participants nearly 75 have attended the session.
- ✓ All the 75 participants gave the feedback about the webinar via the Feedback Link.
- ✓ The E-Certificate was provided to all the attendees through their E-mail Id.

**BROCHURE** 













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Punalkulam, Gandarvakottai Taluk, Pudukkottai District - 813 303.

# **A REPORT**

ON WEBINAR TITLED

"THE ROLE OF INTERNET OF THINGS (IoT) in Current Pandemic of COVID-19"

27th MAY 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)

Phone: 04362-282474, 282395

Website: www.kingsindia.net

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#### A Glimpse on the Background of Webinar:

Department of Electronics and Communication Engineering, organized a webinar on "THE ROLE OF INTERNET OF THINGS (IOT) IN CURRENT PANDEMIC OF COVID-19" on 27<sup>th</sup> May 2021, from 03.00 p.m. to 04.00 p.m.

The main objective of this webinar is to provide basic knowledge on the role of internet of things (IoT) in current pandemic circumstances.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mr.W.Newton David Raj, AP/ECE, Mr.J.Niranjan Samuel, JRF/R&D were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### ABOUT THE RESOURCE PERSON:

The resource person for the webinar was Dr.JOE LOUIS PAUL, Associate Professor, Department of Information and Technology, SSN College of Engineering, Chennai.

#### **ABOUT THE IMPORTANT COMMUNICATION LINK'S**

- REGISTRATION LINK: https://forms.gle/EV39gymwvsvkjQJK6
- YOU TUBE LINK : https://youtu.be/YcYjGNjH5fl
- > GOOGLE MEET LINK :meet.google.com/aee-yqrn-rnb
- FEEDBACK LINK: https://tinyurl.com/FB-RoleofIOT27-5

#### **ABOUT THE REGISTRATION PROCESS:**

The webinar was organized via Google Meet platform and also live streamed in YouTube channel. The registration link was shared to participants through various WhatsApp groups and Gmail. We received responses from various institutions and also from internal participants. Confirmation mail along with YouTube link was sent to all the registered participants of the webinar.

2

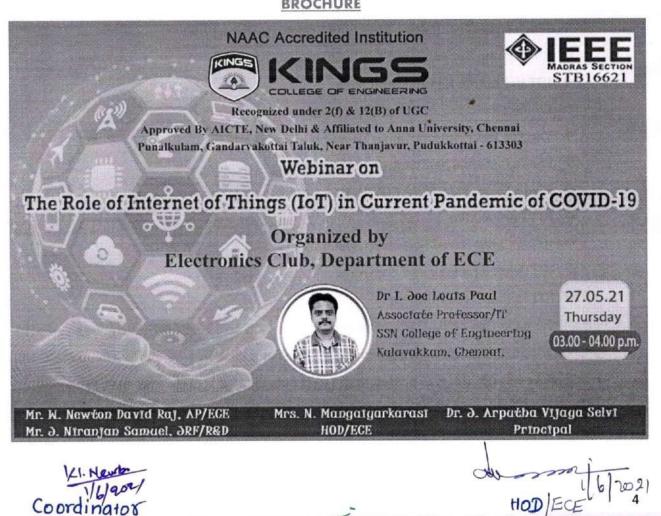
#### **ABOUT THE WEBINAR:**

- ✓ The webinar started by 3.00 p.m.
- ✓ Ms.M.Keerthika, Student coordinator, Electronics Club (III ECE) welcomed the resource person and the participants.
- ✓ Mr.W.Newton David Raj, AP/ECE coordinator of the webinar introduced the resource person.
- ✓ Resource person gave very clear explanation on the "THE ROLE OF INTERNET OF THINGS (IOT) IN CURRENT PANDEMIC OF COVID-19 " through the following subtopics:
  - COVID-19
  - Transmission of COVID-19
  - Digital Transformation in Health & Social Care.
  - Digital Transformation Roadmap
  - Artificial Intelligence(AI)-Precision Diagnostics
  - Artificial Intelligence(AI)-Drugs Discovery
  - Block chain Technology-Electronics Health Record(EHR)
  - . Block chain Technology-Supply Chain
  - IOT in Remote Health Monitoring
  - Contact Tracking Architecture
  - Vaccine Distribution-Global Shipping Infrastructure
  - FSAI's Personal Sanitization Solutions
  - FSAI's Support to Fight COVID-19
  - IOT Perspective
  - IOT & Cloud Based Screening Systems
  - IOT Asset Tracking and Control
  - IOT in Patient Monitoring
- ✓ Finally he gave tips regarding useful certification and non certification courses and also shared the link. The queries posted in the YouTube chat box by the participants were clarified. Feedback link was posted in the chat box. Finally, Ms.G.Latchayasri, Student Vice President, Electronics Club proposed vote of thanks. Programme was coordinated by Mr. J. Niranjan Samuel, JRF/R&D.

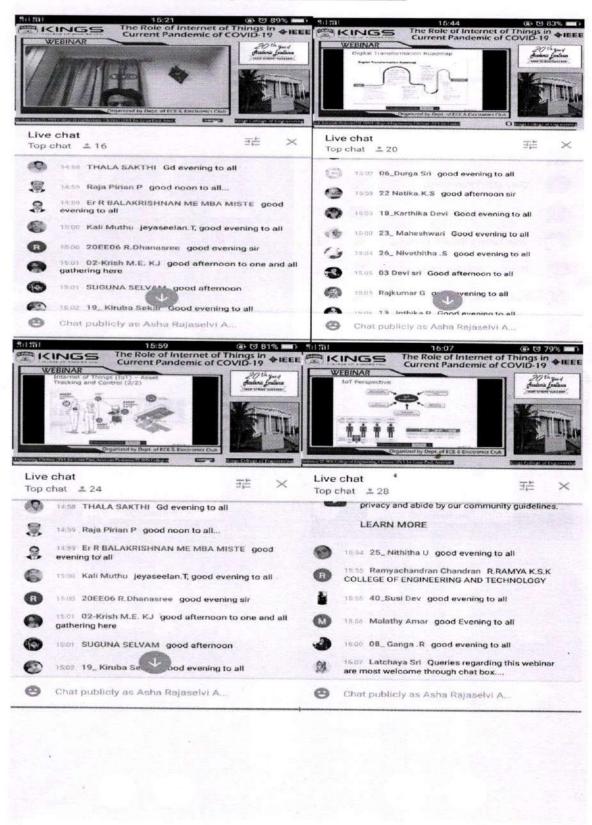
#### OUTCOME:

- ✓ Paricipants were able to understand building blocks of Internet of Things and characteristics.
- ✓ Webinar provided an overview of Cloud based Screening system, Internet in Mobile Devices & Sensor Networks.
- ✓ Participants also enlighten their mind on Industry 4.0, IIoT smart manufacturing.
- ✓ Project skills of the second and third year students were developed through the webinar. They explored to the interconnection and integration of the physical world and the cyber space. The webinar was a eye opener to design & develop projects/products using IoT in drug delivery and IoT Devices.
- ✓ Through the webinar participants gained knowledge on the role of IOT in handling the COVID drug transit and the monitoring the affected patients.
- ✓ The E-Certificate was provided to all the attendees through their E-mail Id.
- 99 participants participated and gained knowledge.

#### **BROCHURE**

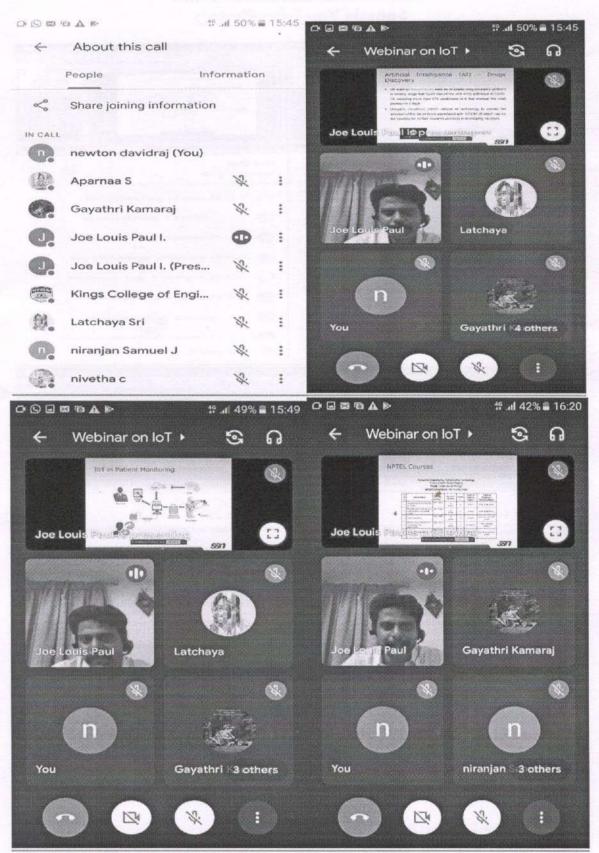


#### Sample You Tube Photo's



7

#### Sample Google Meet Photo's



8

#### **Chief Guest Profile**

Dr. I. Joe Louis Paul B.E., M.E., Ph.D.

Associate Professor

Email: joelouisi@ssn.edu.in

Extn: 368

Sri Sivasubramaniya Nadar (SSN) College of Engineering

Rajiv Gandhi Salai (OMR) Kalavakkam – 603 110 Tamil Nadu, India

**I. Joe Louis Paul** has more than 21 years of teaching experience and 13 years of research experience. He received his B.E (EEE) degree with a first class from Karunya Institute of Technology, Coimbatore, Bharathiar University, M.E. (CSE) degree with a first class with distinction from Mepco Schlenk Engineering College, Sivakasi, Madurai Kamaraj University and Ph.D. degree from Anna University Chennai in the area of error control coding.

#### **Academic Experience**

He started his career as a lecturer in the Department of EEE, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi in the year 1998. After earning his masters, he joined as a lecturer in the Department of IT, Mepco Schlenk Engineering College, Sivakasi in the year 2002. Then, he joined SSN College of Engineering in the year 2005 and he is currently working as an Associate Professor in the Department of IT. He has organized/attended many externally/internally funded Conferences /Workshops / Seminars/Guest Lectures at National and International level.

#### **Subjects Taught**

He has taught the courses like Computer Architecture, Wireless Communication, Mobile Computing, Mobile Communication, Principles of Compiler Design, Information Theory and Coding, Operating Systems, Information Coding Techniques, Visual Programming, Multimedia Systems, Digital Signal Processing, Object Oriented Programming, Software Engineering and Artificial Intelligence for UG programmes and System Programming and Operating Systems, Wireless Networks and Multimedia Compression Techniques for PG Programme.

#### **Research Interests**

His current research areas of interest include Error Control Coding, Wireless Communication and Internet of Things (IoT).





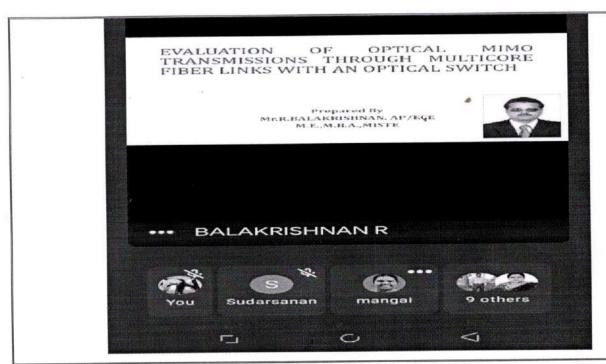


# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2020-21 (Even SEM) IEEE STUDENTS BRANCH STB 16621- May, 2021

#### INTERNAL STAFF TECHNICAL SEMINAR

24.05.2021

Department of Electronics and Communication Engineering & IEEE Student Branch STB 16621 jointly organized a Technical Seminar on "Evaluation of Optical MIMO Transmission through Multicore Fiber Links with an Optical Switch" on 24.05.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the participants. Mr.R.Balakrishnan, Assistant Professor/ECE delivered lecture through Google meet platform. In his lecture, he briefed the significance of Multiple-Input and Multiple-Output (MIMO) signal processing technique to eliminate the interference caused by crosstalk along Space Division Multiplexing (SDM) links. Mr. T. Pasupathi, AP/ECE proposed vote of thanks.



Mr.R.Balakrishnan, AP/ECE, delivering the lecture.

DRC MEMBER

J. 1824/5/2021

HOD/ECE 24 5/21





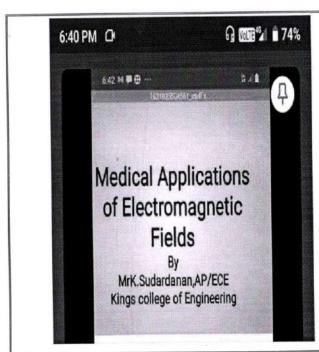


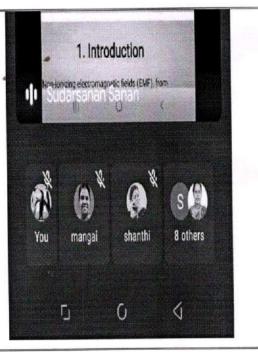
# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2020-21 (Even SEM) IEEE STUDENTS BRANCH STB 16621- May, 2021

#### INTERNAL STAFF TECHNICAL SEMINAR

10.05.2021

Department of Electronics and Communication Engineering & IEEE Student Branch STB 16621 jointly organized a Technical Seminar on *Applications of Electromagnetics in Biomedical Applications* on 10.05.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the participants. Mr.K.Sudharsanan, Assistant Professor/ECE delivered lecture through Google meet platform. In his lecture, he briefed significance of Electromagnetics in Biomedical Applications, especially interaction of electromagnetic waves with biological tissues and living systems, the therapeutic, diagnostic, and imaging applications of electromagnetics. Mr. T. Pasupathi, AP/ECE proposed vote of thanks.





Mr.K.Sudarsanan, AP/ECE, delivering the lecture.

DRC MEMBER

8. 1000 TON

HOD/ECE

# Webinar REPORT

on

# Fundamentals of Antenna and It's Design Tools

**Held on** 

27/02/2021

**Co-ordinators** 

Mr.P.Raja Pirian AP/ECE
Mr.W.Newton david Raj AP/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING PUNALKULAM

#### <u>REPORT</u>

A Webinar on **Fundamentals of Antenna and It's Design Tools** was organized by Department of Electronics and Communication Engineering on 27-02-2021 at 11.00 a.m. to 12.00 noon, to motivate the students to involve in Antenna Domain and also the students to get more ideas on latest tools in smart antenna design.

The program was delivered via Google meet.

Google Meet Link : https://meet.google.com/myk-osjm-wuu

Ms.T.Swetha, **PG Student –Wireless Technology, Anna University (MIT Campus), Chennai** was the resource person.

The webinar begins at 11.00 a.m, Mr.P.Raja Pirian AP/ECE welcomes the resource person and the gathering, followed by Ms.G.Latchaya Sri, UG Student, introduced the chief guest. Mrs.N.Mangaiyarkarasi, HoD/ECE delivered the inaugural address.

Ms.T.Swetha, briefed the concepts of Antenna, Basic Electromagnetic Theory, Boundary Conditions and Excitations, Computational Electromagnetics, HFSS simulation basics and analysis setup, Reconfigurable Antennas · MIMO Antennas , Metamaterial Design and Analysis.

In her presentation, she demonstrates a simple smart antenna and shows the simulation and the technology of fabrication also. Finally she explains the need for antenna designers towards communication sectors such as Mobile, Satellite and Radar etc.

The students were actively involved in the entire sessions. Finally Mrs.U.Jeyamalar, AP/ECE delivers the vote of thanks.

Total of 114 students were participated in the workshop; 105 students from our college and the remaining participants from other Engineering colleges from Tamilnadu.

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#### **ANNEXURES**





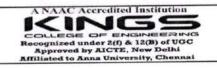
**Resource Person Presenting the Webinar** 

coordinator

J. 1806/4/2021.

HOD/ECE 6/4/21







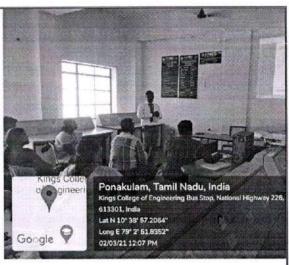
# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2020-21(ODD SEM) IEEE STUDENTS BRANCH STB 16621- March, 2021

#### INTERNAL STAFF TECHNICAL SEMINAR

02.03.2021

Department of Electronics and Communication Engineering & IEEE Students Branch STB 16621 jointly organized a Internal Staff Technical Seminar on "Internet of Things Applications for Connected Vehicles and Intelligent Transport Systems" on 02.03.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculty members. Mr.S.Sivakumar, Assistant Professor /ECE delivered lecture. In his lecture, he briefed the Fundamentals and applications of IoT and Cloud computing. Also he briefed the real time controlling of Vehicles to Vehicles (V2V) and Vehicles to Infrastructure (V2I) through IOT.





Mr.S.Siavkumar, AP/ECE, delivering the lecture.

DRC MEMBER
(T.Pasupathi)

HOD/ECE 22/3[2)

J. PRINCIPAL

# Webinar

**REPORT** 

on

# Fundamentals of VLSI and Introduction to FPGA

Held on

13/03/2021

**Co-ordinators** 

Mr.P.Raja Pirian AP/ECE
Mr.W.Newton David Raj AP/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
KINGS COLLEGE OF ENGINEERING PUNALKULAM

#### **REPORT**

A Webinar on **Fundamentals of VLSI and Introduction to FPGA** was organized by Department of Electronics and Communication Engineering on 13-03-2021 at 11.00 am to 12.00 pm, to motivate the students to involve in VLSI Domain and also the students to get more ideas on Digital system design using FPGA.

The program was delivered via Google meet and kings YouTube Channel.

Google Meet Link : <a href="https://meet.google.com/myk-osjm-wuu">https://meet.google.com/myk-osjm-wuu</a>

YouTube Link : https://youtu.be/vMG24DREkes

Ms.R.Hinduja, **PG Student – M.E.VLSI Design, Kings College of Engineering, Thanjavur** was the resource person.

The webinar begins at 11.00 a.m, Mr.P.Raja Pirian AP/ECE welcomes the resource person and the gathering, followed by Ms.P.Lincy Freeda, UG Student, introduced the chief guest. Mrs.N.Mangaiyarkarasi, HoD/ECE delivered the inaugural address.

Ms.R.Hinduja briefed the basic concepts of VLSI such as Gates, Flip Flops, Multiplexers and how the other digital logic circuits are established using these basic blocks. She explained a lot about how the VLSI concepts are used in real time applications such as communication field, signal processing field. She also explained the latest developments in VLSI and the demands in the job market for the VLSI Design. She motivates the students to prefer core field for their better future.

The students were actively involved in the entire sessions. This session was interactive also. Finally Mr.W. Newton David Raj, AP/ECE delivers the vote of thanks.

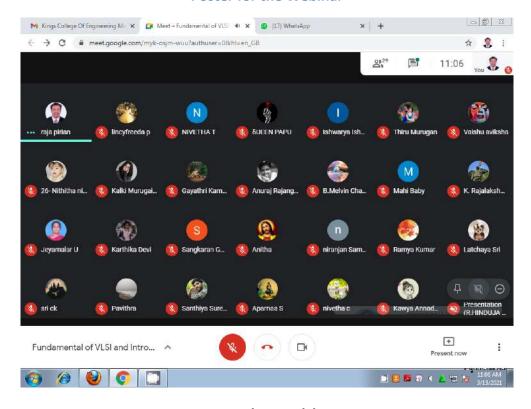
Total of 137 students were participated in the workshop; 130 students from our college and the remaining participants from other Engineering colleges from Tamilnadu.

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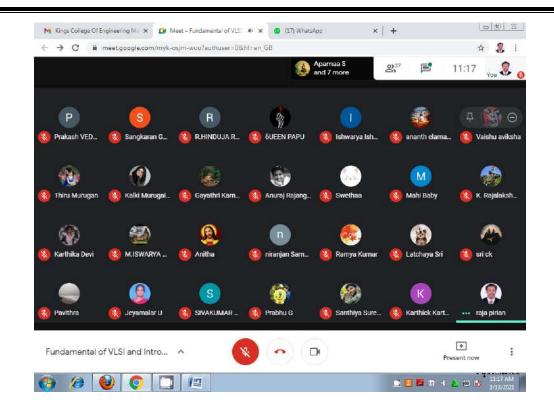
#### **ANNEXURES**



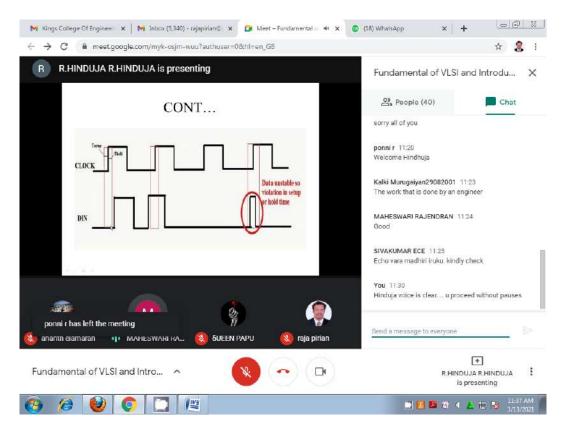
#### **Poster for the Webinar**



**Active Participants** 



Mr.P.Raja Pirian Delivering Welcome Address



**Resource Person Presenting the Webinar** 

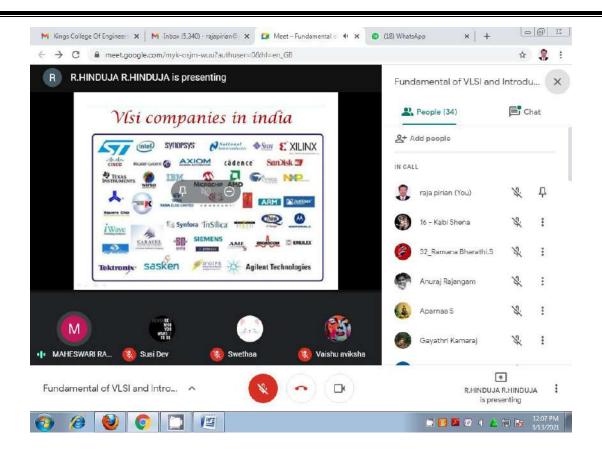


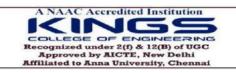
Fig: Resource Person Presenting the Webinar

coordinator

J. 1866/4/2021.

HOD/ECE: 6/4/21







# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2020-21(ODD SEM) IEEE STUDENTS BRANCH STB 16621- January, 2021

#### **INTERNAL STAFF TECHNICAL SEMINAR**

06.02.2021

Department of Electronics and Communication Engineering & IEEE Students Branch STB 16621 jointly organized a Internal Staff Technical Seminar Research Paper Writing: Preparation to Publication on 30.01.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculties. Mr.T.Pasupathi, Assistant Professor /ECE delivered lecture. In his lecture, he briefed Significance and impact of Journal/Conference publication in reputed journals, strategies to be followed while writing the manuscript, Writing Manuscript- Do's and Dont's, Selecting a journal for publication, Different Indexing of journals and its significance and Journal citation factors and metrics (Impact Factor, SNIF, h-index, i10 index).



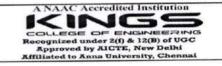


Mr.T.Pasupathi, AP/ECE, delivering the lecture.

T-Porton P DRC MEMBER HOD/ECE HOD/ECE

PRINCIPAL







# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2020-21(ODD SEM) IEEE STUDENTS BRANCH STB 16621- January, 2021

#### INTERNAL STAFF TECHNICAL SEMINAR

17.02.2021

Department of Electronics and Communication Engineering & IEEE Students Branch STB 16621jointly organized a Internal Staff Technical Seminar on "Researches in Agriculture" on 15.02.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculty members.. Mr.P.Raja Pirian, Assistant Professor /ECE delivered lecture. In his lecture, he briefed the difficulties faced by the farmers during the farming and explained the real-time applications which include sophisticated technologies such as hydroponics, aeroponics, robots, temperature and moisture sensors, aerial images, GPS technology. He also briefed the recent developments in agricultural/farming.



DRC MEMBER (T.Pasupathi,AP/ECE)

HOD/ECE 22 3/2/

PRINCIPAL

J. Moto 13/2021.

# **REPORT**

## on

# Webinar on Amazon Web Services with EC2, EB and S3

Co ordinators

Mr.P.Raja Pirian AP/ECE
Mrs.R.Ponni AP/ECE
Mr.Niranjan Sauvel JRF/R&D

On

29/06/2020

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

"International webinar on Amazon Web Services with EC2, EB and S3" ECE Dept. and IEEE SB jointly organized its First International webinar on "Amazon Web Services with EC2, EB and S3" on 29th June, 2020 in the presence of Dr. J. Arputha Vijaya Selvi, Principal, Kings College of Engineering, Mrs. N. Mangaiyarkarasi, HOD/ECE. Dr. V. Bala Dhandayuthapani, Professor in Information Technology, Shinas Institute of Technology, Oman delivered the lecture. In his lecture, he briefed on Cloud Computing, AWS Global Cloud infrastructure, Creating an account in AWS, Elastic Compute Cloud, Simple Storage Service and Elastic Bean Stack with live demonstrations. Speaker clarified the queries raised by the participants. Mr. P. Raja Pirian, AP/ECE, delivered the vote of thanks. Mr. J. Niranjan Samuel, JRF/ECE-R&D, moderated the session. 327 members from various institutions at India, Denmark, Indonesia, Oman and Singapore participated in this programme.





Coordinator (3)

HOD/ECE 2/7/2020

0.1807020

# **REPORT**

# Webinar on FSOC: Design Challenges

Jointly organized by Department of Electronics and Communication Engineering

On

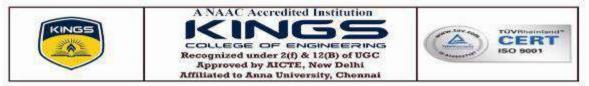
19<sup>th</sup> JUNE 2020 | 11:00 to 12:00 PM

@

**Google Meet** 

**Prepared By** 

A.Herald AP/ECE



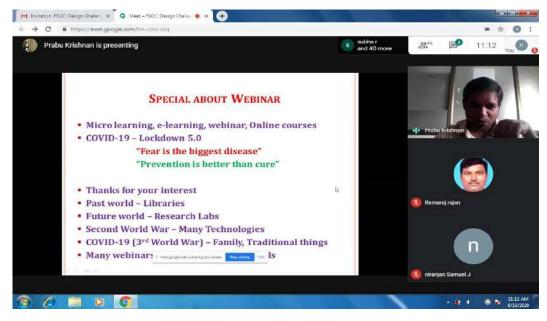
#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **Report:**

Department of Electronics and Communication Engineering and R&D Section, has jointly organized a webinar on "FSOC:Design Challenges "on 19th June 11.00 to 12.00 PM @ Google Meet. Dr.K.Prabu, National Institute of Technology, Suratkal, Karnataka, was the resource person.

The main objective of the webinar was to disseminate the knowledge in the field of Free Space optical Communication (FSOC).

The webinar started by 11.00 a.m. as per the schedule with the registered participants from reputed institutions. Mr.J.Niranjen Samuvel JRF/ECE, welcomed the participants and Mr.S.Ramarajan, AP/ECE introduced the chief guest. The session began with talk about "FSOC:Design Challenges" by Dr.K.Prabu. In his lecture, he covered the Importance, history, applications and Recent Trends of FSOC and also discuss the Challenges and Research avenues of FSOC. All the participants were actively participated in the session. Participants interacted with the resource person using the chat window effectively to clear their queries and learn the concepts. The session ended at 12.30 p.m. with feedback. The entire programme was scheduled and coordinated by Mr.A.Herald, AP/ECE, Mr.S.Ramarajan, AP/ECE and Mr.J.Niranjan Samuel, JRF.



Webinar Presentation by Dr.K.Prabu, NIT-Suratkal, Karnataka.

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#### **Pre Process**

The webinar process began on 12/06/2020. Poster and registration form links were circulated through WhatsApp and e-mail. Nearly 187 members from various Intuitions registered for the webinar. Invitations and reminder were sent to all the registered participants.









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#### Department of Electronics and Communication Engineering organizes

Webinar on FSOC : Design Challenges For Registration



scan here



Dr. K. Prabu
Assistant Professor/ECE
National Institute of Technology-K,
Surathkal, Karnataka

11:00 a.m. to 12:00 noon (F

19.06.2020 (Friday)

E-Certificates will be provided

#### Coordinators

Mr. S. Ramarajan, AP/ECE | Mr. A. Herald, AP/ECE | Mr. J. Niranjan Samuel, JRF/ECE

Convener

Patron

Mrs. N. Mangaiyarkarasi

Dr. J. Arputha Vijaya Selvi

Mrs. N. Mangaiyarkarasi HOD/ECE Dr. J. Arputha Vijaya Selvi Principal

Poster of Webinar

#### Prabu K

#### **Assistant Professor**

Department of Electronics and Communication Engineering National Institute of Technology Karnataka - Surathkal

P.O. Srinivasnagar, Mangalore – 575025, Karnataka, INDIA

E-mail: prabuk [at] nitk [dot] edu [dot] in nitprabu [at] gmail [dot] com

#### **Professional Experience:**

**Total: 8 years** 

#### Academic Background

Ph.D.: National Institute of Technology (NIT), Tiruchirappalli, April 2015,

M.E: Madras Institute of Technology (MIT), Anna University, 2010,

B.E: Anna University, Chennai, 2007.

#### Areas of Interest

- Wireless Optical Communication (FSO, VLC, Underwater)
- Optical Communication
- Wireless Communication
- Optical Sensors
- Nano-Photonics
- Photonic Crystal Fibers
- 5G
- Antennas
- IoT
- AI Enabled Wireless Communication

#### **Significant Projects**

1. Project Title: Performance Analysis and Enhancement of Radio over Free Space Optical Communication

System for 5G Applications for Smart Cities

Role : Principal Investigator Duration : 2019 - 2021

Funding Agency: SERB - DST, Govt of India

Total Budget: Rs. 28,06,000/-

#### Supervision of Ph.D

- 1. N Vijaya Ratnam
- 2. Bhargav Kumar
- 3. Santhosh A Janawade
- 4. Abhishek Kumar

Number of Publications

#### **International Journals:50**

#### **Books**

1. "Microwave Engineering Theory and Techniques" – David M Pozar, Wiley, WILEY India Adaptation, Content contribution for Indian Adaptation by Prabu K, Santosh A. Janawade.









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# **A REPORT**

# ON LIVE ONLINE WEBINAR TITLED

# "ANTENNAS FOR HEALTH CARE APPLICATION"

10th JUNE 2020



# **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

#### A Glimpse on the Background of Webinar:

In Kings College of Engineering, Department of Electronics and Communication Engineering, has organized a online Webinar titled "ANTENNAS FOR HEALTH CARE APPLICATION" on 10<sup>th</sup> June 2020, from 11.30 a.m to 12.30 p.m.

The main objective of this Webinar is to utilize the lockdown period by providing the basic knowledge about the antennas for health care application.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this Webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mr.W.Newton David Raj, AP/ECE, Mr.T.Jeyaseelan, AP/ECE & Mr.J.Niranjan Samuel, JRF/ECE-R&D were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### **ABOUT THE RESOURCE PERSON:**

The resource person for the webinar was Dr.T.Anita Jones.,M.E.,Ph.D,Assistant Professor, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore.

#### **ABOUT THE REGISTRATION PROCESS:**

The webinar was planned to conduct via Google Meet platform. The registration link was created through Google forms and the link was posted in various WhatsApp groups.

#### **Registration Link:**

#### https://forms.gle/qahuNXRQUmdDGM879

We have received 150 responses from various institutions. Before one day of the Webinar, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Webinar participation.

On that day of the program, the webinar google meet link was given to all the registered participants 1 hour before the commencement of the program through their E-Mail Id.

#### **ABOUT THE WEBINAR:**

- ✓ The webinar was started at 11.30 a.m with 102 participants.
- ✓ Mrs.P.Thirumagal,AP/ECE welcomed the resource person and the participants by the words, and also introduced the Resource person. Then the session was handed over to the Resource person.
- ✓ Resource person gave very clear explanation about the Title of the "Antennas for Health Care Applications" through the following sub-topics:
  - ❖ Body-Worn Antennas and External Antennas
  - ❖ PIFA IN CAD FEKO
  - Microstrip Patch Antenna Calculator
  - Meander Line PIFA Antenna
  - Wearable Antenna on body
  - Implantable Antenna
  - Spiral Patch Structure
  - Research Challenges.
  - Specific Absorption Rate(SAR)
  - ❖ Heterogeneous and Homogenous Brain Model for Tumor Detection
  - Biocompatible
  - Capsule Endoscopy Phantom
  - Health Issues
- ✓ Finally she gave some real time demo by using the feko and also given the software student edition link to the interested participants.
- ✓ At 12.30 p.m she comes to the end of the session. The queries were asked by the participants for 15 minutes..She gave the answers for all the queries. At 12.30 p.m one of this webinar coordinator Mr.J.Niranjan Samuel ,JRF/ECE-R&D have posted the Feedback link Via the chat box.
- ✓ Finally, coordinator Mr.W.Newton David Raj,AP/ECE of this webinar gave the vote of thanks with words. Thus the program ended successfully.

#### OUTCOME:

- ✓ We received 150 registration from 80 various Institutions.
- ✓ Among the 150 registered participants 102 have attended the session.
- ✓ All the 102 participants gave the feedback about the webinar via the Feedback Link.

**✓** 

#### **BROCHURE**











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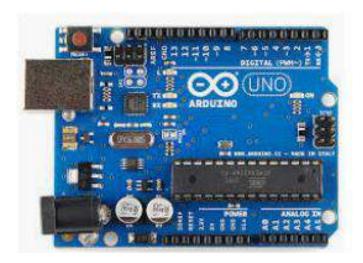
# **A REPORT**

ON

#### THREE DAYS WEBINAR TITLED

#### "EMBEDDED AND REAL TIME SYSTEMS USING ARDUINO".

08th JUNE 2020 to 10th JUNE 2020.



# **Organized by**

**Department of Electronics and Communication Engineering** 

# KINGS COLLEGE OF ENGINEERING, PUNALKULAM

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Phone: 04362-282474, 282395 Website: <u>www.kingsindia.net</u>

#### A Glimpse on the Background of Webinar:

In KCE, Department of Electronics and Communication Engineering, has organized Three days Webinar titled "EMBEDDED AND REAL TIME SYSTEMS USING ARDUINO" exclusively for Engineering and Polytechnic Students from  $08^{th}$  June 2020 to  $10^{th}$  June 2020 at 11.00 a.m to 12.00 noon.

The main objective of this Webinar is to utilize the lockdown period by providing the basics of Embedded system and to have the coding knowledge and also to develop the project using Arduino.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this Webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mrs.D.Vennila, AP/ECE, Mrs.U.Jeyamalar, AP/ECE & Mrs.P.Thirumagal, AP/ECE were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### **ABOUT THE RESOURCE PERSONS:**

The resource person for Day-1 webinar was Mr.P.Raja Pirian, Assistant Professor, Kings College of Engineering.

The resource person for Day-2 webinar was Mr.T.Pasupathi, Assistant Professor, Kings College of Engineering.

The resource person for Day-3 webinar was Mr.T.Jeyaseelan, Assistant Professor, Kings College of Engineering.

#### **ABOUT THE REGISTRATION PROCESS:**

The webinar was planned to conduct via Google meet platform. The registration link was created through Google forms and the link was posted in various Whats app groups.

#### Registration Link: https://tinyurl.com/KingsEmbedded.

We have received 214 responses from various institutions. Before one day of the Webinar, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Webinar participation. Then the registered participants were asked to join in our WhatsApp group named "KINGS WEBINAR ON EMBEDDED". For all the three days of the program, the webinar Google meet link was given to all the registered participants 1 hour

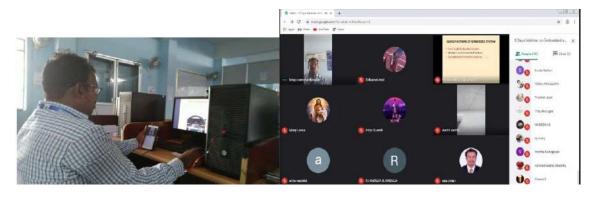
before the commencement of the program through their E-Mail Id and also through the Whats App group.

#### **ABOUT THE WEBINAR:**

#### **DAY-1:**

The webinar was started at 11.00 a.m with 100 participants. Mrs. D.Vennila, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words and she gave the Introduction about the Resource person. Then the session was handed over to the Resource person. He explained about the basics of Embedded systems, various Embedded processors and its Applications and also he explained clearly about the design methodology of fan controller from design to final product. Finally he gave some real time examples of Embedded systems. At 12.00 noon he comes to the end of the session. The queries were asked by the participants for 10 minutes. He gave the answers for all the queries. At 12.10 p.m we have posted the Feedback link Via the chat box.

Feedback Link: Day-1: <a href="https://forms.gle/pMktr2NcaTo9wL3g7">https://forms.gle/pMktr2NcaTo9wL3g7</a>

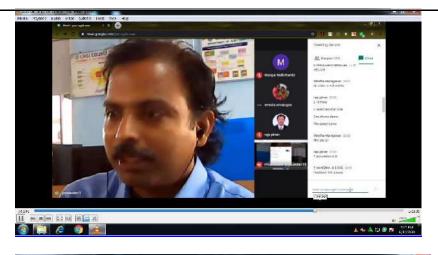


#### **DAY-2:**

The webinar was started at 11.00 a.m with 96 participants. Mrs. P.Thirumagal, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words and she gave the Introduction about the Resource person. He started with basic and need of embedded system in day-to-day life. Arduino-Introduction, programming the Arduino, different variants of Arduino and functions were demonstrated with syntax and examples. Finally, he explains the real-time interfacing of sensors with Arduino were explained in a detailed manner.

At 12.00 noon he comes to the end of the session. The queries were asked by the participants for 10 minutes. He gave the answers for all the queries. At 12.10 p.m we have posted the Feedback link Via the chat box.

Feedback Link: Day-2: <a href="https://forms.gle/KXBRS6a115EmvpS4A">https://forms.gle/KXBRS6a115EmvpS4A</a>





#### **DAY-3:**

The webinar was started at 11.00 a.m with 90 participants. Mrs. U.Jeyamalar, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words and she gave the Introduction about the Resource person. Then the session was handed over to the Resource person. This session was completely on hands on session, He explained about the various blocks and ports in the Arduino. He gives demonstration on blinking of LED and RF ID reader. He explain the program and the circuit also. Finally he gave some project ideas of Embedded systems. At 12.00 noon he comes to the end of the session. The queries were asked by the participants for 10 minutes. He gave the answers for all the queries. At 12.10 p.m we have posted the Feedback link Via the chat box.

#### Feedback Link: Day-3: <a href="https://forms.gle/uJy3DJFcSXyvUXxD8">https://forms.gle/uJy3DJFcSXyvUXxD8</a>

Finally, Mrs.N.Mangaiyarkarasi, HOD/ECE gave the vote of thanks with a word and she appreciated all the student participants and the resource persons for their effort.

Thus the program ended successfully.

#### **OUTCOME:**

We received 214 registrations from 53 various Institutions.

Among the 214 registered participants 100 +96+90 have attended the session.

First day we received 100 feedbacks from the participants about the webinar via the Feedback Link.

Second day we received feedbacks from all the 96 participants about the webinar via the Feedback Link.

Third day we received 90 feedbacks from the participants about the webinar via the Feedback Link.

The E-Certificate was provided to all the attendees through their E-mail Id.

#### Annexure: I

#### **BROCHURE**

CERT







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Department of **Electronics & Communication** Engineering

Exclusively for Students from Engineering & Polytechnic Colleges

#### Three Days Webinar on

**Embedded and Real Time Systems Using Arduino** 08.06.2020 to 10.06.2020 @ 11:00am to 12:00noon

#### Resource Persons



Mr.P.Raja Pirian Assistant Professor Department of ECE

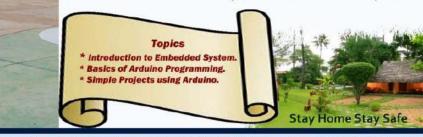


Mr.T.Jeyaseelan Assistant Professor Department of ECE



Mr.T.Pasupathi **Assistant Professor** Department of ECE

E- Certificates will be provided to the Participants



Co-ordinators: Mrs.D.Vennila, AP/ECE | Mrs.U.Jeyamalar, AP/ECE | Mrs.P.Thirumagal, AP/ECE

Convener Mrs.N.Mangaiyarkarasi HOD/ECE

Join us on



Patron Dr.J.Arputha Vijaya Selvi PRINCIPAL

Register Now: https://tinyurl.com/KingsEmbedded

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# A REPORT

# ON LIVE ONLINE WEBINAR TITLED

#### "MODERN ANTENNA DESIGN CHALLENGES"

06th JUNE 2020



### **Organized by**

**Department of Electronics and Communication Engineering** 

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Website: www.kingsindia.net

#### A Glimpse on the Background of Webinar:

In Kings College of Engineering, Department of Electronics and Communication Engineering, has organized a online Webinar titled "MODERN ANTENNA DESIGN CHALLENGES" on 06<sup>th</sup> June 2020, from 11.00 a.m to 12.00 p.m.

The main objective of this Webinar is to utilize the lockdown period by providing the basic knowledge about the modern antenna design challenges.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this Webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mr.W.Newton David Raj, AP/ECE, Mrs.P.Thirumagal, AP/ECE were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### **ABOUT THE RESOURCE PERSON:**

The resource person for the webinar was Dr.D.Sugumar,M.E.,Ph.D,Assistant Professor, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore.

#### **ABOUT THE REGISTRATION PROCESS:**

The webinar was planned to conduct via Google Meet platform. The registration link was created through Google forms and the link was posted in various WhatsApp groups.

#### **Registration Link:**

#### https://forms.gle/z9iGBvyVY3nFDJDf8

We have received 300 responses from various institutions. Before one day of the Webinar, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Webinar participation.

On that day of the program, the webinar google meet link was given to all the registered participants 1 hour before the commencement of the program through their E-Mail Id.

#### **ABOUT THE WEBINAR:**

- ✓ The webinar was started at 11.00 a.m with 141 participants.
- ✓ Mr.W.Newton David Raj, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words, and also introduced the Resource person. Then the session was handed over to the Resource person.
- ✓ Resource person gave very clear explanation about the Title of the "Modern Antenna Design Challenges" through the following sub-topics:
  - ❖ Design of Antennas upto 6 GHz and above 6 GHz
  - Applications
  - What is Modern?
  - ❖ 5G Antennas?
  - Antenna Design and Placement
  - Special Applications
  - How to design the antenna?
  - General Antenna Design Process & Challenges.
  - Requirements and Specifications-1 and 2
  - Substrate Materials Availability
  - Solver
  - ❖ Solver Requirement
  - Full Wave Methods (Rigorous Methods)
  - Asymptotic Methods(High-Frequency Approximation)
  - MTL(Multiconductor Transmission Line)
  - ❖ System Requirement
  - Half-wave Wire Dipole Example
  - Consultancy on Antenna
- ✓ Finally he gave some real time demo by using the feko and also given the software student edition link to the interested participants.
- ✓ At 12.15 p.m he comes to the end of the session. The queries were asked by the participants for 15 minutes..He gave the answers for all the queries. At 12.30 p.m we have posted the Feedback link Via the chat box.

#### Feedback Link:

✓ Finally, Mrs.P.Thirumagal,AP/ECE coordinator of this webinar gave the vote of thanks with words. Thus the program ended successfully.

#### OUTCOME:

- ✓ We received 300 registration from 119 various Institutions.
- ✓ Among the 300 registered participants 142 have attended the session.
- ✓ All the 142 participants gave the feedback about the webinar via the Feedback Link.
- ✓ The E-Certificate was provided to all the attendees through their E-mail Id.

#### **BROCHURE**











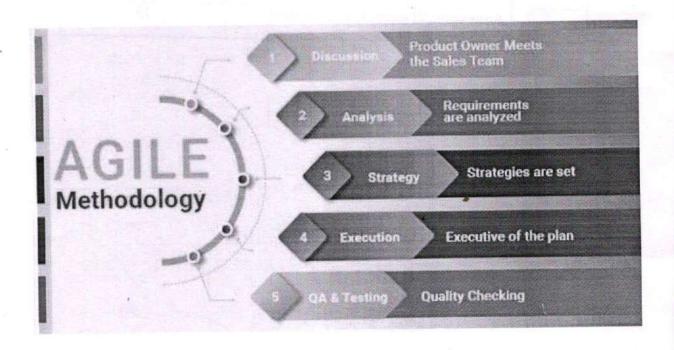
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# A REPORT

ON
LIVE ONLINE WEBINAR TITLED

"AGILE METHODOLOGY".

01st JUNE 2020



# Organized by

**Department of Electronics and Communication Engineering** 

# KINGS COLLEGE OF ENGINEERING, PUNALKULAM

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Phone: 04362-282474, 282395 Website: <u>www.kingsindia.net</u>

#### A Glimpse on the Background of Webinar:

In KCE, Department of Electronics and Communication Engineering, has organized a online Webinar titled "AGILE METHODOLOGY" on 01st June 2020 from 11.00 a.m to 12.00 p.m.

The main objective of this Webinar is to utilize the lockdown period by providing the basic knowledge about the Agile Methodology.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this Webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mrs.R.Ponni, AP/ECE, Mr.R.Sathyaraj, AP/ECE & Mrs.D.Vennila, AP/ECE were the program coordinators.

# OVERVIEW OF THE WEBINAR: ABOUT THE RESOURCE PERSON:

The resource person for the webinar was Mr.S.Srinath, Technical Lead, Tata Consultancy Services, Chennai.

#### ABOUT THE REGISTRATION PROCESS:

The webinar was planned to conduct via Google meet platform. The registration link was created through Google forms and the link was posted in various Whats app groups.

#### Registration Link: https://tinyurl.com/KCEAgile.

We have received 260 responses from various institutions. Before one day of the Webinar, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Webinar participation. Then the registered participant were asked to join in our Whats App group named "KINGS WEBINAR ON AGILE METHODOLOGY". On that day of the program, the webinar Google meet link was given to all the registered participants 1 hour before the commencement of the program through their E-Mail Id and also through the Whats App group.

#### **ABOUT THE WEBINAR:**

The webinar was started at 11.00 a.m with 204 participants. Mrs. D.Vennila, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words and she gave

the Introduction about the Resource person. Then the session was handed over to the Resource person. He gave very clear explanation about the title of the Webinar.

AGILE methodology is a practice that promotes continuous iteration of development and testing throughout the software development lifecycle of the project. Both development and testing activities are concurrent unlike the Waterfall model.

Finally he gave some real time examples of Agile methodology.

At 11.55 she comes to the end of the session. The queries were asked by the participants for 10 minutes. He gave the answers for all the queries. At 12.10 p.m we have posted the Feedback link Via the chat box.

#### Feedback Link: https://forms.gle/NccfwsNkFoZdYkpH6

Finally, Mr. R.Sathyaraj, AP/ECE coordinator of this webinar gave the vote of thanks with a word. Thus the program ended successfully.

#### **OUTCOME:**

We received 260 registrations from 138 various Institutions.

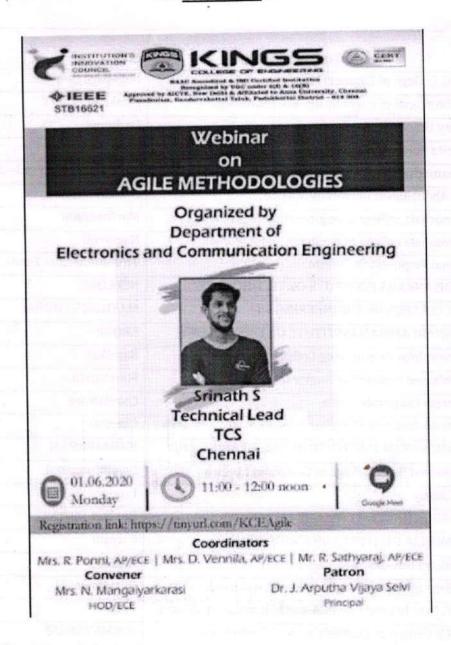
Among the 260 registered participants 204 have attended the session.

All the 204 participants gave the feedback about the webinar via the Feedback Link.

The E-Certificate was provided to all the attendees through their E-mail Id.

2. 10/20 20

# Annexure: I BROCHURE



#### **Chief Guest Profile**

#### Srinath S.

Technical Lead at TCS

#### About

An IT Executive with responsibility and proven track record in Industry. Seasoned professional in Business Analysis, Quality Assurance and Program management with 7+ years of experience. Majorly worked on transformation projects and proved good track record in quick turnaround of critical projects, increasing productivity, quality and customer satisfaction. Result driven professional and expertise in global delivery model handling teams across offshore and onshore locations. An effective leader skilled in Planning, Estimation, Scheduling, Resource Management, Executing & Controlling and Escalation. Decisive, energetic, focused team leader leading high performing teams and consistently demonstrates leadership and relationship management skills. Expertise in Global Delivery model handling teams across UK and India. Rich experience in Testing Strategy and Portfolio management and good knowledge in Insurance & banking Domains

- Building and managing relationship with business and client executives.
- Extensive testing experience in Core banking, Debit cards and ATM.ISTQB certificated tester.
- Hands on experince with many banking products like Profile,Base24,Conex,Base2000 and simulator(Versa, Brdige test tool, Lexicel)
- Experienced in test automation with Mainframe applications using QTP, Selenium & Cucumber.
- Extensive work experience on Regression Testing, Functional testing, System Testing and User Interface Testing.
- Project and Program Management.
- QA and Process Improvements.

Key Skills: Test Lead, Mainframe Testing, Functional testing, Test Automation(Selenium ,QTP,Cucumber) Test Optimization, SOAP UI tool, Requirement Analysis, Test Planning & Estimations, Test case writing, Defect management, Reporting and RCA.

#### **Experience**

#### **Technical Lead**

Tata Consultancy Services

Apr 2017 - Present4 years 10 months

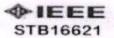
Chennai, Tamil Nadu, India

- Building and managing relationship with business and client executives.
- Extensive Domain experience in Core banking, Debit cards and ATM.
- Hands on experience with many banking products like Profile,Base24,Conex,Base2000 and simulator(Versa, Brdige test tool, Lexicel)
- Experienced in test automation like selenium webdriver and appium.
- Extensive work experience on Regression Testing, Functional testing, System Testing and User Interface...









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# **A REPORT**

# ON LIVE ONLINE WEBINAR TITLED

"OVERVIEW OF MACHINE LEARNING, DEEP LEARNING AND NATURAL LANGUAGE PROCESSING USING PYTHON".

27th May 2020



# Organized by

**Department of Electronics and Communication Engineering** 

# KINGS COLLEGE OF ENGINEERING, PUNALKULAM

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## A Glimpse on the Background of Webinar:

In KCE, Department of Electronics and Communication Engineering, has organized a online Webinar titled "OVERVIEW OF MACHINE LEARNING, DEEP LEARNING AND NATURAL LANGUAGE PROCESSING USING PYTHON" on 27th May 2020 from 2.00p.m to 3.00 p.m.

The main objective of this Webinar is to utilize the lockdown period by providing the basic knowledge about the machine learning, Deep learning and NLP Algorithm using Python.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this Webinar. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our webinar. Mrs.R.Ponni, AP/ECE, Mr.R.Sathyaraj, AP/ECE & Mrs.D.Vennila, AP/ECE were the program coordinators.

# OVERVIEW OF THE WEBINAR: ABOUT THE RESOURCE PERSON:

The resource person for the webinar was Dr.P.Manimegalai, M.E.,Ph.D, Associate Professor, Department of Biomedical Engineering, Karunya Institute of Technology and Sciences, Coimbatore.

#### ABOUT THE REGISTRATION PROCESS:

The webinar was planned to conduct via Cisco Webex meet platform. The registration link was created through Google forms and the link was posted in various Whats app groups.

### Registration Link: https://forms.gle/c2ZwvuoY8jWp18PcA.

We have received 458 responses from various institutions. Before one day of the Webinar, we have stopped receiving the registration response. For all the registered participants we gave the confirmation mail for our Webinar participation. Then the registered participant were asked to join in our Whats App group named "KINGS ECE WEBINAR". On that day of the program, the webinar webex link was given to all the registered participants 1 hour before the commencement of the program through their E-Mail Id and also through the Whats App group.

#### ABOUT THE WEBINAR:

The webinar was started at 2.00 p.m with 312 participants. Mrs. D.Vennila, AP/ECE coordinator of this webinar welcomed the resource person and the participants by the words and she gave

the Introduction about the Resource person. Then the session was handed over to the Resource person. She gave very clear explanation about the Title of the Webinar Machine learning, Deep Learning and NLP.

The purpose of machine learning is to discover patterns in your data and then make predictions based on often complex patterns to answer business questions, detect and analyze trends and help solve problems.

The purpose of Deep Learning is to improve the performance of a Deep Learning model the goal is to the reduce the optimization function which could be divided based on the classification and the regression problems.

The purpose of NLP is to analyze textual data in Python through the concepts of Natural Language Processing (NLP).

Finally she gave some real time examples by using the python codings.

At 3.15 she comes to the end of the session. The queries were asked by the participants for 10 minutes. She gave the answers for all the queries. At 3.30 p.m we have posted the Feedback link Via the chat box.

#### Feedback Link: https://forms.gle/7bUyKdfpoqipa1Ys5

Finally, Mrs. R.Ponni, AP/ECE coordinator of this webinar gave the vote of thanks with a words. Thus the program ended successfully.

#### **OUTCOME:**

We received 458 registration from 296 various Institutions.

Among the 458 registered participants 312 have attended the session.

All the 312 participants gave the feedback about the webinar via the Feedback Link.

The E-Certificate was provided to all the attendees through their E-mail Id.

2. 188/2010

# Annexure: I BROCHURE









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pproved by AUCTE. New Delhi & Affilialed to Amer University. Chesina

Affilialed to American University of the State of th

Overview of Machine Learning, Deep Learning and Natural Language Processing using Python

Organized by
Department of
Electronics & Communication Engineering





Dr.P.Manimegalai,M.E.,Ph.D

Associate Professor

Department of Biomedical Engineering

Karunya Institute of Technology & Sciences

Coimbatore

27.05.2020 | 02:00 - 03:00 p.m.

E-certificates will be provided

Continuos

Mrs. R. Ponni, AP/ECE | Mrs. D. Vennila, AP/ECE | Mr. R. Sathyaraj, AP/ECE

CATALOGICA

Patrice

Mrs. N. Mangaiyarkarasi

Dr. J. Arputha Vijaya SeMi

**Principal** 

Registration link https://forms.gle/e2ZwvuoY8jWp18PeA



#### Dr.P.Manimegalai

Associate Professor, Biomedical Engineering Department

Mobile: 09994291601

Email: manimegalaip@karunya.edu

#### RESEARCH INTERESTS

#### Biosignal Processing, Medical Device Design, Image Processing, AI in healthcare

#### **EXPERIENCE**

20 Years

#### **RESEARCH PROFILES**

1	Google Scholar Profile	https://scholar.google.com/citations?user=5GdT5OYAAAAJ&hl=en	
2	Scopus Profile	https://www.scopus.com/authid/detail.uri?authorId=38362113600	

#### **PATENTS**

1 UV Object Sanitizer published by Feb 2021

#### RESEARCH PROJECTS

1 Low Cost CPAP Machine Harvard University 20000	#	Year
	1	2021

#### SUMMARY OF INTERNATIONAL JOURNAL & CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]

Year	International Journal Publications	International Conference Publications	National Conference publications	Cumulative Impact Factor	Scopus Citations	Google Scholar Citations	h-index
2009 - 2021	76	15	5	3.1	198	358	9

#### **EDITORIAL BOARD MEMBER:**

#### **EDUCATION**

Degree	gree Branch/Specialization University		Class	Mode	Month &Year of Passing
	Information and				
	Communication/Biosign Anna				
Ph.D.,	al Processing	University,Chennai		Parttime	June 2013
M.E.,	Applied Electronics	Anna University,Chennai	I class	Parttime	June 2008
B.E.,	Biomedical Instrumentation	Avinashilingam University	I Class	Fulltime	May 2000

#### TEACHING INTERESTS

Diagnostic and Therapeutic Devices, Human Anatomy and Physiology ,Biomedical Medical Image Processing, Mchine learning, Deep Learning

#### **RESEARCH GUIDANCE**

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	10	5
Master of Engineering - Master's Thesis advising	15	2







#### Department of Electronics & Communication

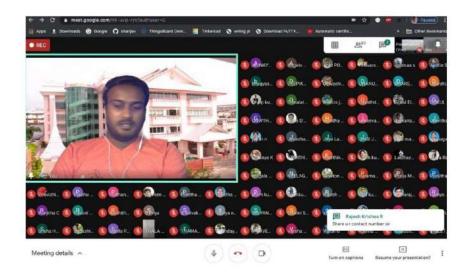
and

R&D section jointly hosted a

#### Free Webinar

on

# Accelerate your Internet of Things (IoT) vision



Speaker : Mr. Jeevanantham Arumugam, BE.,MS(U.K).,

**Profession** : Asst.Professor, Kongu Engineering College, Erode

**Date & Time** : 20.05.2020 & 21.05.2020 6:00 to 7:30 PM

Webinar Objective:

Internet of Things is the key element that will impact nearly every industry in future. The existence of IoT will continue to grow as we move ahead of imagining what is possible and begin to inject this connected technology into products we use every day whether as consumers or in business. The webinar provides an ideal platform for academicians to discuss and showcase the latest trends and disruptions impacting various industry verticals in IoT and the road map ahead.

#### List of Participants:

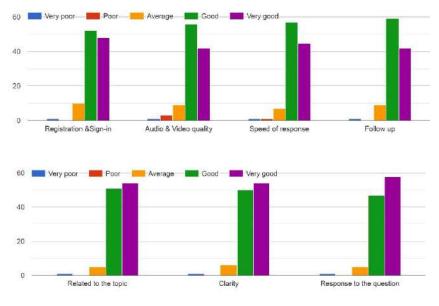
Free Webinar on Accelerate your Internet of Things (IoT) vision was conducted on 20.05.2020 & 21.05.2020 at 6:00 to 7:30 PM for external and internal participants. Total of 221 registration from 68 institution all over the nation and 132 active participation was made.

#### Presentation details:

Both sessions were presented by Mr. Jeevanantham Arumugam, BE.,MS(U.K)., Asst.Professor, Kongu Engineering College, Erode. During the presentation he presented the rapid developments in hardware, software, and communication technologies that have allowed the emergence of Internet connected sensory devices to provide observation and data measurement from the physical world. He also presented the anatomy, network and protocols of Internet of Things. Security, Privacy, Interoperability / Standards, Emerging Economy and Development Issues and real time applications of IoT in industry aspects were also the part of webinar.

#### Feedback:

At end of the day-2 feedback form were issued to the participants and bar chart view is shown below,



Prepared by T.Pasupathi J.Niranjan Samuel HOD Mrs.N.Mangaiyarkarasi









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Punalkulam, Gandarvakottai Taluk, Pudukkottai District – 613 303.



# A REPORT ON Gender Sensitization

"Women's day Celebration"

8th March 2021

# Organized by

**Department of Electronics and Communication Engineering** 

**VENUE: II Floor Lobby** 

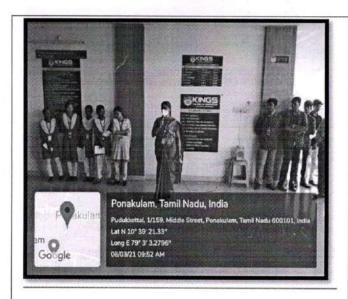
TIME: 09:15 AM TO 09.45PM

### A Glimpse on the Background of Women's day Celebration:

The International Women's Day was celebrated at Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam on 8<sup>th</sup> March, 2021. The purpose of celebrating Women's Day was – To create and raise the awareness about the status and dignity of women among the students community.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this celebration. Mrs. N.Mangaiyarkarasi, HOD/ECE presided over the function. Staffs of Dept. of ECE coordinated the celebration. Students from II, III and IV year UG & PG-VLSI attended the occasion.

Our beloved Principal Dr.J.Arputha Vijaya Selvi and Dr.T.Shanthi, Assoc. Prof/ECE delivered speech on women's right and empowerment and they were honored by Mrs. N.Mangaiyarkarasi, HOD/ECE. In the programme, Ms.V. Maheswari from II Year ECE and Ms. R.Hinduja, II M.E VLSI Design, gave a speech on Status of women in Modern India. Ms. S. Gayathri, II Year ECE and Ms. S.Aparnaa, III Year ECE recited poems on Pride of Women.



Dr.J.Arputha Vijaya Selvi, delivering motivational speech



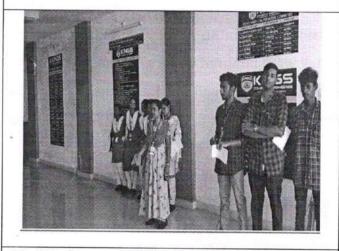
Dr.T.Shanthi, AP/ECE, honoring our beloved
Principal



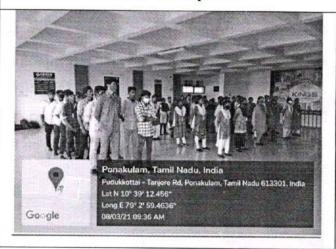
Mr.R.Sathyaraj, AP/ECE, honoring our HOD



Mrs.N.Mangaiyarkarasi, HOD/ECE delivering motivational speech



Ms.V.Maheswari, II Year ECE, gave a speech on Status of women in Modern India



A View of Students at Assembly

Mr.T.PASUPATHI,

AP/ECE

HOD/ECE

J. 100 22 3 2021.

Principal







# A REPORT

ON

#### "NATIONAL LEVEL TECHNICAL e-SYMPOSIUM"

"e-BLAST-2K20".

1st October 2020



## **Organized by**

**Department of Electronics and Communication Engineering** 

## KINGS COLLEGE OF ENGINEERING, PUNALKULAM

**A NAAC Accredited Institution** 

Recognized under 2(f) & 12(B) of UGC

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Phone: 04362-282474, 282395

Website: www.kingsindia.net

#### A Glimpse on the Background of e-Symposium:

In KCE, Department of Electronics and Communication Engineering, has organized a NATIONAL LEVEL TECHNICAL e-SYMPOSIUM (eBlast-2k20) on 01st October 2020.

The symposium focuses to articulate new ideas in distinguished electronics and communication field and to result with the sharing knowledge among the participants. Various students from 70 Engineering colleges were actively participated in the symposium.

Under the guidance of our Principal, Dr. J. Arputha Vijaya Selvi, we hosted this e-Symposium. Mrs. N.Mangaiyarkarasi, HOD/ECE was the convener of our e-Symposium. Mrs.P.Rajapirian, AP/ECE, & Mr.S.Sivakumar, AP/ECE were the program coordinators.

#### **OVERVIEW OF THE WEBINAR:**

#### **ABOUT THE RESOURCE PERSON:**

The resource person for the e-Symposium was Mr.K.DineshKumar, Head, Software Engineering Dept., Kirirom Institute of Technology, Cambodiya, (Alumni of Kings -2012 Batch).

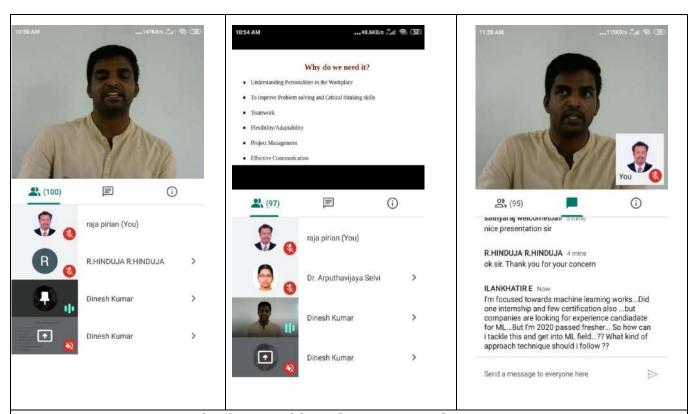
#### **E-SYMPOSIUM INAUGURATION:**

The Symposium begins with the formal prayer song "Tamil Thai Vazhthu", immediately after that, Ms.M.Ezhilarasi of IV ECE welcomes the gathering with the words.

Dr. J. Arputha Vijaya Selvi, Principal, KCE, delivered the Presidential address. After that Mrs.N.Mangayarkarasi felicitate the symposium.

Mr.P.Raja Pirian AP/ECE, coordinator of the symposium, introduced the chief guest, followed by that, the special address was delivered by our resource person Mr.K.DineshKumar. Head, Software Engineering Dept., Kirirom Institute of Technology, Cambodiya, (Alumni of Kings -2012 Batch).

He gave very clear explanation about the topic Internship, He explained a lot about how to apply for internship, what are the latest domains available for Internship and also he explains how they can approach for internship to overseas.

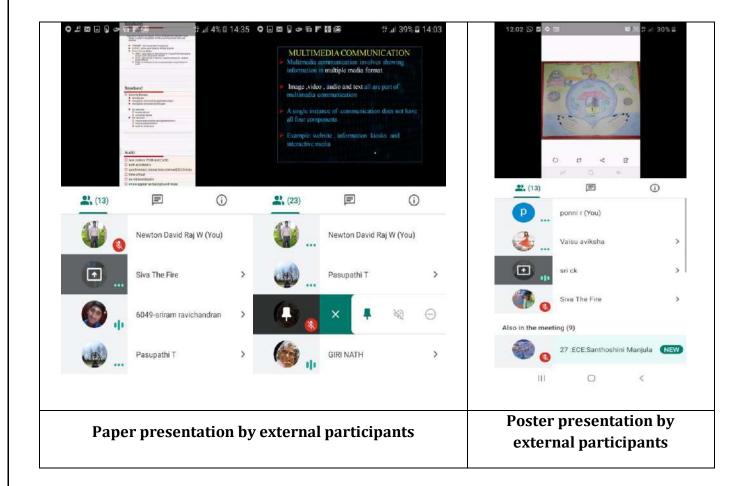


Chief guest address by Mr.K.DineshKumar,
Head, Software Engineering Dept., Kirirom Institute of Technology, Cambodiya,
(Alumni of Kings -2012 Batch)

The symposium was continued with paper presentation, Poster Presentation, MEMES Creation and Clickography.

The paper presentation was conducted in a Google Meet Link "https://meet.google.com/rkk-taxg-exy". This session was chaired by Mr.T.Pasupathi, Mr.T.Jeyaseelan, Mr.S.Ramarajan, Mr.W.Newton David Raj they reviewed 23 papers. Finally they selected 3 best papers M.Veeralakshmi, M.Ezhiarasi, Hemamalini were the event coordinators.

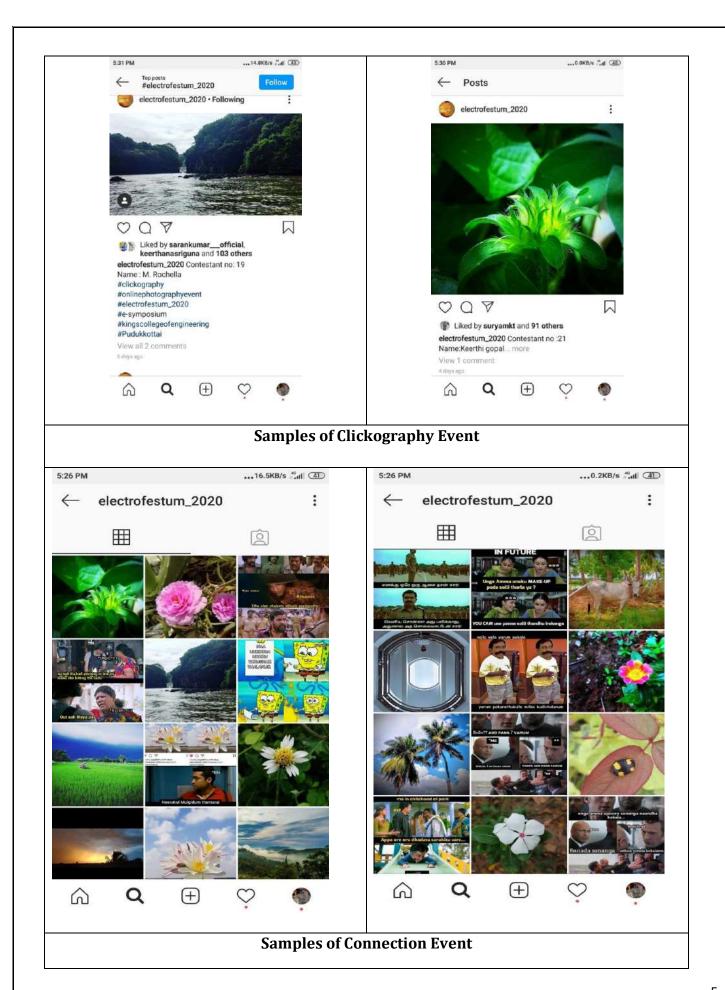
Simultaneously the poster presentation was conducted in a Google Meet Link "https://meet.google.com/qsx-tdnc-fry". This session was chaired by Dr.T.Shanthi, Mrs.R.Ponni, Mrs.D.Vennila, Mrs.P.Thirumagal were the Juries. 10 posters were presented. Y.Sivanantham, K.Soundharya were the event coordinators.



Non technical session was conducted in Instagram, a special Instagram page was opened for this contest, Participants posted their imagination as memes, and also show their photographic talents in this page.

The Juries for Clickography was Mr.R.Sathyaraj and Mr.P.Raja Pirian, Totally 21 Photos were received from various colleges. Finally 3 best Photos were selected and awarded. G.Surya and Y.Sivanantham were the event coordinators.

Final event was Memes Creation. Mr.A.Herald and Mr.S.Sivakumar are the Juries for this event, Totally 15 Memes were received from various colleges. Finally they selected 3 best memes and announced the winners. G.Surya and Y.Sivanantham were the event coordinators.



JTCOME:		
Ve received 185 registrations f	rom 70 various Institutions.	
mong the 185 registered parti	cipants 145 have attended various ev	ents.
ll the 185 participants gave th	e feedback about the e-symposium vi	a the Feedback Link.
he e-Certificate was provided	to all the attendees through their e-m	ail Id.
Coordinators	HOD/ECE	PRINCIPAL
Coordinators	HOD/ECE	FRINCIPAL

#### Annexure: I BROCHURE





A NAAC Accredited & ISO Certified Institution Recognized by 2(f) & 12(B) of UGC

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EMERGING TRENDS IN COMPUTING, CONTROL AND COMMUNICATION TECHNOLOGY (ETCCCT'20)

> Jointly organized by Department of CSE, ECE & EEE

13th March, 2020

Scope

The National Conference on "Emerging Trends In Computing, Control and Communication Technology\* aims to provide a forum for presenting and discussing innovations, ideas, new design and alternative technologies in the fields of Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronics Engineering. ETCCCT'20 is being organized by Kings College of Engineering, Punalkulam, near Thanjavur, Pudukkottai District, Tamil Nadu, India. The conference also promotes affable environment for academia-industry interaction leading to exchange of research ideas and will feature keynote and invited talks by renowned academicians, industrialists and scientists of National repute.



Last date for paper submission : 27-02-2020 Acceptance notification : 02-03-2020 Camera ready copy : 07-03-2020 Last date for registration : 10-03-2020

#### CONFERENCE TOPICS

#### Computer Science & Engineering

Biometric Modeling Cloud Computing

Computer Networks & Security

Data Mining

Grid & Scalable Computing

Image Processing & Pattern Recognition IoT based Instrumentation

Machine Learning and Deep Learning

Parallel and Distributed Computing

Pervasive Computing

Web based Computing

Antennas and Microwave Engineering

Cognitive System Research

**Embedded Systems** 

Fuzzy and Neural based Systems Hyrbid System and Modeling Design

Semiconductor Devices and VLSI

Signal and Image Processing

Wireless Communication

Wireless Sensor Networks

Electronics & Communication Engineering Electrical & Electronics Engineering

Computational Intelligence in Power System, Power Electronics and Renewable Energy Sources

Distributed Generation and Micro/Smart Grids

Electrical machines and Drives

Fuel Cells and Green Energy Systems

**HVDC** and FACTS

Intelligent Control, Robotics and Automation Systems

Measurements and Data Acquisition, Safety & Reliability

Power Market and Deregulation

Power System Reliability and Security

#### **Advisory Committee**

#### Lipo Wang,

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Krishna Kumar S. DRDO, Chennai

Kumaravel S,

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Raghavan S,

National Institute of Technology, Trichy

Ramakrishnan M,

Madurai Kamaraj University, Madurai

Selvakumar K,

Annamalai University, Chidambaram

Sivakumaran N.

National Institute of Technology, Trichy

#### **Technical Committee**

Agnes Idhaya Selvi

KARE, Krishnankoil

Aruna Jeyanthy P,

KARE, Krishnankoil Albert Alexandar S,

Kongu Engineering College, Perundurai

Baskaran S, Kuppam Engineering College, Kuppam (AP)

Giftson Samuel G, Sir Isaac Newton Engg., College, Nagappatinam

Jayasankar T,

University College of Engineering., Trichy

Kavitha MG,

University College of Engg., Rajamadam

Kumar D. PRIST, Thanjavur

Malathy M

Veltech, Chennai

Prabhu K.

NIT-Surathkal, Karnataka

Suganthi S

Christ University, Bangalore

Vinoth Kumar K.

SSM Institute of Engg., & Tech., Dindigul

Violet Juli

KEY NOTE SPEAKER:



#### Dr .ARUN K. MAJUMDAR

U.S. Department of the Navy (Ret.) (Sr. Scientist / PI) Full Professor, Electrical Engineering and Computer Science

Dept., University of Colorado Senior Research Scientist at Lockheed-California Company

Visiting Professor, NIST Caltech's Jet Propulsion Laboratory

MIT Lincoln Laboratory (Staff Member)

Visiting Professor, Brno University of Technology, Czech Republic

#### Paper Submission

Authors are invited to submit full papers in the prescribed format as per the IEEE Paper Template. Authors should only submit their original work that has neither appeared elsewhere for publication nor is under review for any other refereed publication. Submitted papers to ETCCCT'20 should be approved by the coauthors and also by the responsible authorities at the institute where the has been carried out. Manuscript should not contain plagiarized content. Submitted papers will be run through plagiarism software.

#### **Publications**

All the accepted papers will be published in the conference proceeding with ISBN. In addition selected papers will be published in the special issue of BBRC journal based on the authors willingness on payment of additional charges.

For more details visit:

www.kingsindia.net/etccct20.html

#### Registration Fee

Research Scholars : Rs. 750 Students (UG/PG) : Rs. 500 Other participants (Listeners)

**Payment Details** 

DD can be drawn in favour of "The Principal, Kings College of Engineering" payable at Thanjavur.



: Rs. 200

#### **Organizing Committee**

Chief Patrons Dr. R. Rajendran, Ph.D. Secretary

Shri.T.R.S.Muthukumaar, M.B.A. Chief Executive Officer

Patron & General Chair Dr.J.Arputha Vijaya Selvi, M.E. Ph.D.

Dr. S. Sivakumar, M.Tech, Ph.D.

Vice Principal Organizing Secretary Dr. A. Albert Martin Ruban,

Programme Chair Dr.S.M. Uma, Dept. of CSE.

Principal

Convener Prof. N. Mangaiyarkarasi,

#### Steering Committee

Prof. S.Rajarajan, Dept. of CSE.

Prof. B.Sangeetha, Dept. of CSE.

Prof.R. Ponni, Dept. of ECE.

Prof.P.Thirumagal, Dept. of ECE

Prof.R.Sundaramoorthi, Dept. of EEE. Dr. M. Meenalochani, Dept. of EEE.

Address for Communication Organizing Secretary, Nat. Conf. ETCCCT'20, Kings College of Engineering Punalkulam - 613 303, Pudukkottai Dt. Tamilnadu, India. email: kceetccct@gmail.con Page 296 of 747

# A REPORT

ON

One Day National Conference on
"Emerging Trends
Computing ,Control and Communication
Technologies"

# ETCCCT'20

13th March 2020



by

Department of Electronics and Communication Engineering

# KINGS COLLEGE OF ENGINEERING, PUNALKULAM

**NAAC** Accredited Institution

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

E-mail: kceetccct@gmail.com

Phone: 04362-282474, 282395

Website: www.kingsindia.net

#### Kings College of Engineering: A GLIMPSE

Kings College of Engineering is a leading technical institute approved by All India Council of Technical Education, New Delhi (AICTE) and is affiliated to the Anna University, Chennai established by Raj Educational Trust in 2001 offering 6 courses at UG level and 4 courses at PG level. It has been accredited by NAAC and acquired ISO certification by TUV, Rheinland, Germany The institution is located at Thanjavur, a historical place of Tamil Nadu on the Thanjavur – Pudukottai Highway. It is a pioneer institute imparting knowledge in Engineering to the rural students. The institution has inspiration to provide research exposure to the engineering students and its dream came true by the establishment of Research & Development Cell. The institution has undertaken various sponsored R&D projects funded by government organizations namely DRDO, MOCIT, New Delhi.

#### About ECE Department:

The Electronics and Communication Engineering Department offers B.E. degree programme in Electronics and Communication Engineering from its inception and M.E degree programme in VLSI design from the year 2008. It has an excellent team of well qualified and dedicated faculties. The department has well equipped laboratories to give a wide exposure to the students in acquiring practical knowledge and hands-on-experience besides their curriculum. The inspiration of our department is to produce dynamic and globally competent engineers through excellence in Teaching, Research and Technology development.

#### About the Conference:

The ETCCCT'20 offers a forum for the exchange of scientific and technical Innovative concepts and new ideas in the areas of computing, control and communication technologies. Also it promotes an affable environment facilitating academicians, industry experts and scholars to exchange their research ideas for collaborative work. The thrust areas are as follows.

#### **Thrust Areas:**

- Antennas & Microwave Engineering
- Wireless Communication and sensor network
- Cognitive system research
- Embedded System Design
- Fuzzy and Neural based Systems
- Hybrid system and Modelling Design
- > IOT based instrumentation
- Semiconductor Devices and VLSI
- Signal and image processing

## OVERVIEW OF CONFERENCE

## INAUGURAL FUNCTION

The conference was started as per the schedule at 10:00 a.m. at Chera hall with the registration of participants from reputed institutions. The conference was inaugurated with prayer and lightening the lamp.



Inaugural Function- chief guest on the stage.



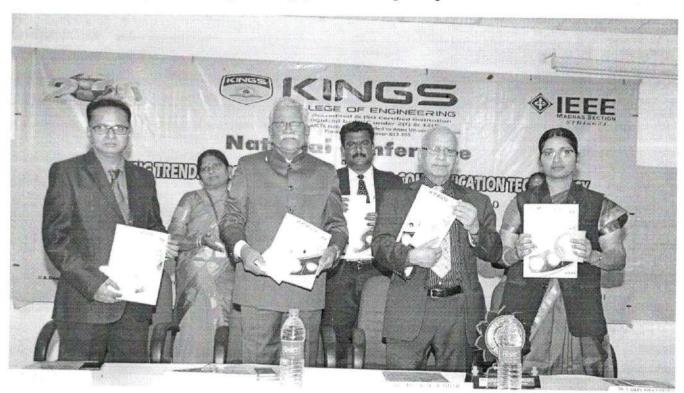
Inaugural Function- Lighting the kuthuvilakku

The function was graced by the Chief guest of the function, Dr .Arjun K.Majumdar , Full professor ,Colorado University , USA. Dr. R. Rajendran, Secretary of Kings college of Engineering, Dr. J.Arputha Vijaya Selvi, the Principal of Kings college of Engineering, Dr. S.Sivakumar, the Vice Principal of K.C.E, Dr.A.Albert Martin Ruban , Organizing Secetary, Dr.S.M.Uma, Programme chair ,Prof.N.Mangaiyarkarasi , Convener of the conference and Head of the department of Electronics and communication Engineering, K.C.E.

Dr.J.Arputha Vijaya Selvi, General chair of ETCCCT'20 welcomed the invited guests, participants and gathering by the words. Dr. R. Rajendran, Secretary delivered presidential address and also conveyed the objectives of organizing the ETCCCT'20 at the outset. He emphasized that, this kind of conference will provide opportunity for the student's community as well as the participants to listen to the talk from eminent speakers. Dr.S.Sivakumar, Co-chair conveyed the overview of the Conference, ETCCCT'20.

The chief guest and the guest of honor was then honored with shawl and momento by the Dr. R. Rajendran Secretary , Dr. J.Arputha Vijaya Selvi , Principal of K.C.E respectively.

The conference proceeding was then released by the Chief guest Dr.K.Arjun K.Majumdar, & it was received by Prof. J.Arputha Vijaya Selvi, the principal of K.C.E

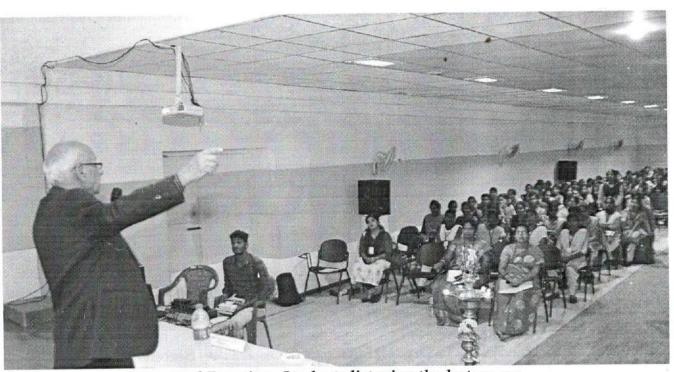


Inaugural Function- Chief Guest Releasing the conference proceeding.

The chief guest, Dr.Arjun K.Majumdar delivered the inaugural address. After the inaugural function, the expert session was started. In that session, the Invited Talk was delivered by Dr.Arjun K.Majumdar.



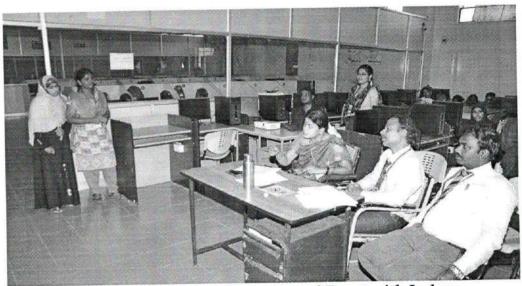
Inaugural Function-Invited Talk by Dr .Arjun K.Majumdar, Full professor, Coloroda university, USA



Inaugural Function- Students listening the lecture on "Free Space Optical Communication"

## **Technical Session:**

The paper presentation session was divided into two tracks. Two tracks ran parallel where the experts and scholars presented their views on different topics pertaining to themes of ETCCCT'20. Key-note lecture, expert talks and paper presentation sessions justified the themes of conference. This conference proved its existence in contributing knowledge in the domain of communication technologies.



Students presenting the paper and Event with Judges

There was a lunch break at 01:45 p.m. after the session.

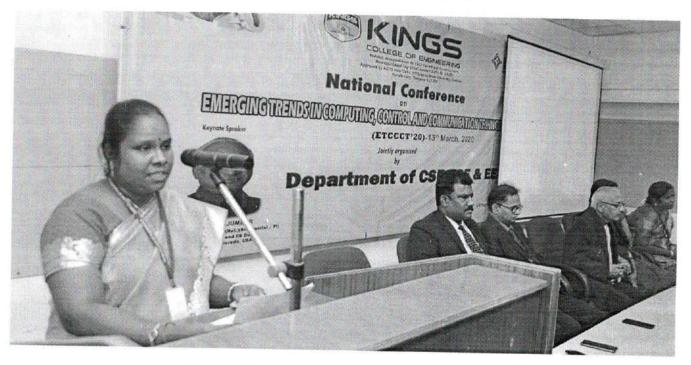
#### VALEDICTORY FUNCTION:

After the paper presentation session, the valedictory function was organized in Chera hall of K.C.E.



Valedictory Function - NCEC'15 Organizing Chair & Organizing Secretaries on the stage
- Distribution of Certificates

Dr.S.M Uma, Programme chair delivered the welcome address and report of conference ETCCCT'20 at the valedictory function. Chief Guest did the certificate distribution. Prof.N.Mangaiyarkarasi, Convener delivered the Vote of thanks.



Vote of thanks by Prof.N.Mangaiyarkarasi

The function ended with national anthem.

2.

Staff coordinators

HOD/ECE 1020

Frincipal









06.08.19

#### National Level Technical Symposium e-BLAST 2k19 29<sup>th</sup> August 2019

#### (Department of Electronics and Communication Engineering)

Contact No: +91 9751818592 email id : eblast2k19@gmail.com

#### CHIEF PATRONS

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Secretary

Mr.T.R.S.Muthukumaar, M.B.A.,

Chief Executive Officer.

#### **PATRON**

**Dr.J.ArputhaVijayaSelvi**,M.E.,Ph.D., Principal.

#### CO-PATRON

**Dr. S.Sivakumar**, M.E., Ph.D, Vice Principal.

#### SYMPOSIUM CHAIR

Mrs.N.Mangaiyarkarasi.,M.E., HOD/ECE

#### STAFF CO-ORDINATORS

Mr.R.Thandayuthapani, M.E., Assistant Professor, ECE

Mr.W.Newton David Raj, M.Tech., M.B.A., Assistant Professor, ECE

#### STUDENT CO-ORDINATORS

Mr.S.Dhivakar, IV ECE

Ms.K.Priyadharshini, IV ECE To

The HOD/ECE

Dear sir / Madam

Greetings from Kings College of Engineering

Sub: Call for Papers- National Level Technical Symposium e-blast2k19 - reg.,

We take immense pleasure to inform you that the Department of Electronics and Communication Engineering is organizing a one day National Level Technical Symposium e-blast2k19.

This Symposium includes Paper Presentation, Project EXPO, One Minute Jam, Ex-Quiz-me, Fun Events & Games. We expect more participants from various technical institutions and universities across Tamil Nadu for this Symposium e-BLAST2k19.

We would be very happy if you extend your whole hearted support by giving due prominence to exhibit the brochure on your notice board, circulating among your faculties and students and by encouraging active participation of your students.

Thanking you,

With Regards,

Encl: Brochure.







# Department of Electronics and Communication Engineering NATIONAL LEVEL TECHNICAL SYMPOSIUM

(**CBlast2k19**) on 29/08/2019

#### **REPORT**

The Department of Electronics and Communication Engineering of our college has organized a NATIONAL LEVEL TECHNICAL SYMPOSIUM (eBlast2k19) on 29<sup>th</sup> Aug 2019.

The symposium focuses to articulate new ideas in distinguished electronics and communication field and to result with the sharing knowledge among the participants. Various students from 30 engineering colleges were actively participated in the symposium.

The Symposium begins with the formal prayer song "Tamil Thai Valzthu", immediately selvan. E.Ilankhatir of IV ECE welcome the gathering. The symposium was inaugurated with lighting the lamp by the honourable dignitaries. Dr. J.Arputha Vijaya Selvi, Principal, KCE, honour the chief guest by shawl and memento. Presidential address was delivered by Dr.R. Rajendran, Secretary, KCE after that the prestigious proceedings was relished by Dr. T. Anita Jones Mary, Associate Professor, Karunya University and received by Dr.J.Arputha Vijay Selvi, Principal, KCE. Mr.W.Newton David Raj AP/ECE, one of the coordinator of symposium, introduced the chief guest followed by a special address was delivered by Dr. T. Anita Jones Mary, in the field of Radio Frequency, her topic covers all things about radio frequency and its modern uses. Dr.J.Arputha Vijay Selvi felicitate the symposium.



Dr.T.Anita Jones Mary. Associate Professor of Karunya University lightening the kuthuvizhakku



Welcome address by selvan. E.Ilankhatir of IV ECE



The Principal Dr.J. Arputha Vijaya Selvi honouring the chief guest with shawl



Presidential Address by Secretary Dr. R. Rajendran



Releasing of souvenir by dignitaries



Chiefguest introduction by Mr.W.Newton David Raj



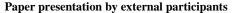
Felicitation address by Dr.J.Arputha Vijaya Selvi , Principal KCE



Special address by Dr. T. Anita Jones Mary, Associate Professor of Karunya University

After a high tea, the symposium continued with paper presentation. Out of 60 technical papers 19 papers were selected and presented in 2 parallel sessions. One session was chaired by Dr.T.Anita Jones Mary, Associate Professor of Karunya University and Mr.P.Raja Pirian AP/ECE, they reviewed 10 papers and the other session was chaired by Dr.T.Shanthi, Associate Professor, and Mrs.R.Ponni AP/ECE, they reviewed 9 papers. Finally they selected 3 best papers and awarded with a cash prize of Rs.1000, Rs.750 and Rs.500 respectively.







External participants at AV hall

Simultaneously, in the LIC lab a mini project event was conducted by Mr.T.Paupathi AP/ECE and Mr.K.Sudarsanan AP/ECE, there are 15 batches of students from various colleges actively present their projects and the projects were evaluated by Mr.A.Herald AP/ECE and Mr.S.Ramarajan AP/ECE. Finally 3 best projects were awarded with a cash prize of Rs.750, Rs.500 and a gift respectively.



Audience for paper presentation at AV Hall



A live demo of drone was presented by students of PMU.

After that the participants had enjoyed with a nice lunch and cool ice-cream followed by three non technical events namely Ex-Quiz- Me, one minute jam, Kahoot and few fun games were conducted by students. Many of the students were actively participated and enjoyed a lot.



Summary of symposium by K.Akalya of final year ECE



Awards & Prize distributions by Mrs.N.Mangaiyarkarasi HOD/ECE



Awards & Prize distributions by Mrs.N.Mangaiyarkarasi HOD/ECE

Finally the valedictory function was started with a video presentation by final ECE students that show the latest innovations in electronics field. K.Akalya of final year ECE give the summary of symposium. Mrs.N.Mangaiyarkarasi HOD/ECE distributed the cash award and prizes for the winners and also issued the participation certificates for all the participants. Mr.W.Newton David Raj, AP/ECE and Mr.R.Thandayuthapani, AP/ECE coordinates the entire symposium. K.Priyadharshini, Vice president of the symposium says thanks to the management, staff members, all the participants and the organizers by vote of thanks. The symposium was successfully finished with national anthem.

Coordinators HOD/ECE PRINCIPAL









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

Punalkulam, Near Thanjavur - 613 303

# KINGS



Organized by Kings - Research & Development Section 26th March, 2020



email:kpe2k18@kingsindia.net

#### CALL FOR PROJECTS

#### web:www.kingsindia.net

#### CIVIL

Fiber Reinforced Concrete Load Deformation Behaviour Flood Forecasting GIS & Remote Sensing Applns. Ozonation for Colour Removal Riverbank Filtration Earthquake Geotechnical Engg., Ground Improvement Safety, Accident Analysis Intelligent Transport Systems

#### CSE / IT

Natural Computation Computational Game Theory Continuous & Real-timeComputation Distributed Algorithms Design & Analysis of Algorithm Inspiration of Biological Computing Nature Inspired Computing Model Theory for Computation Information & Commn. Complexity Graph Algorithms

#### ECE

Modeling and Simulation Antennas & Microwave Engg., ASICs / SOC / NOC **Biomedical Engineering** Embedded System / VLSI Design Image / Signal Processing MEMS and Piezo System Integration **Optimization Techniques** Terrestrial & Space Optical Networks Wireless /FSO

#### EEE

Renewable Energy -Green Energy Bio-medical Instrumentation Power Electronics Power Systems Modern Power Systems Smart Grids VLSI in Power Electronics/Systems Embedded Systems Electrical Machines and Drives Control Systems & Instrum.

#### MECH

Renewable Energy Technology Production & Energy Management Robotics & Industrial Automation CAD/CAM Materials Manufacturing Safety Engineering Nano Composites & Characterization Design & Analysis MEMS

Submission of Abstract Acceptance Notification Last Date for Early Registration: 20.03.2020 Last Date for Late Registration: 23.03.2020

#### Registration Fee

: 03.03.2020 Registration : Rs. 600/team : 13.03.2020 Early bird : Rs. 500/team

Dr. D. Sivakumar/CSE : 98420 40796 Dr. M. Meenalochani/EEE : 96298 91123 Mr. J. Rajaparthiban/MECH: 98940 31614

: 98941 04645 Mr. T. Pasupathi/ECE Mrs.T. Bhuvaneshwari/Civil: 99949 61305

Mr. V. Vijay/Civil Mr. N. Bharanidharan/CSF 82480 05176 82206 35015 Mr. E. Ilankathir/ECE Mr. J. Mohamed Kalifa /EEE

96292 01317 - 78670 68164 Mr. M. Sathishkumar/Mech - 63748 99268 Attractive Prizes ₹ 50,000

Dr. R. Rajendran Mr.T.R.S.Muthukumaar Dr. J. Arputha Vijaya Selvi

## Dr. S. Siyakumar

Organizing Chair

## Organizing Secretaries

Dr. P.P. Shantharaman Dr. M. Meenalochani Mr. T. Pasupathi

#### Organizing Committee Mr. J. Rajaparthiban, Asst. Prof./MECI

Dr. S. Udhayakumar, Asst. Prof./S&H







## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **KINGS SCIENCE EXPO - 2020**

#### Report

Kings Science Expo-2020, an onlineProject Expositionis planned on 05.06.2020with an exceptional idea to showcase the research talents, innovativeness, and creativity of all final year Engineering students. The main aim for conducting such a program is to enhance the knowledge of students and motivate them to compete in the global competitive engineering field. The Expo acted as a forum to bring together students of various Engineering colleges to discuss innovative ideas and diversetopics on next generation technologies. Studentsare encouraged todevelop prototype projects on recent societal issues with better efficiency and low-cost.

#### Objectives of the Expo:

- To provide a forum for sharing new design and alternative technologies.
- To promote affable interactive environment leading toexchange of new research ideas.

#### **Topics of interest:**

- (i) Embedded Systems
- (ii) Wireless Communication systems
- (iii) Bio-medical Instrumentation
- (iv) Image/Signal Processing
- (v) Robotics
- (vi) Artificial Intelligence
- (vii) Control Systems and Instrumentation

The Expo for Electronics & Communication Engineering is scheduled at 10.30 A.M through online mode using Google meet platform. Totally 14 batches registered for the Expo out of which two are external and the remaining 12 batches are internal. Each batch is provided 15 minutes for their project demonstration.

The participants are judged based on the following criteria:

- Design (Compactness and the efficiency of work done)/Model of the project
- Innovation/Novelty
- Relevance with practical need
- Presentation skills
- Clarification of queries

#### **Outcomes of the Project Expo**

- Develop professionals having good skills, self-learning ability and confidence to support and contribute to the growth of relevant industries.
- This provides opportunity for the students to demonstrate their learning experience.







# Department of Electronics and Communication Engineering KINGS SCIENCE EXPO – 2020 05<sup>th</sup> June, 2020

#### **Instructions:**

#### **Key Evaluation Criteria would be**

- ✓ Design (Compactness and the efficiency of work done)/Model of the project 20 Marks
- ✓ Innovation/Novelty 20 Marks
- ✓ Relevance with practical need 20 Marks
- ✓ Presentation 20 Marks
- ✓ Queries Clarification 20 Marks

#### **GENERAL RULES:**

- Participants should register their presence (online) before 10.15 a.m. on 05<sup>th</sup> June 2020.
- Mode of presentation: MS Power Point (Maxi.25 Slides)
- Partial outputs are considered.
- All registered participants will receive participation certificate.
- Best project award will be awarded for the deserved project.
- The decision of the judges shall be treated as final and binding.
- The panel of judges consists of subject experts.
- The organizers reserve the rights to change any or all of the above rules as they deem fit.







# Department of Electronics and Communication Engineering KINGS SCIENCE EXPO – 2020

#### 05<sup>th</sup> June, 2020 SCHEDULE

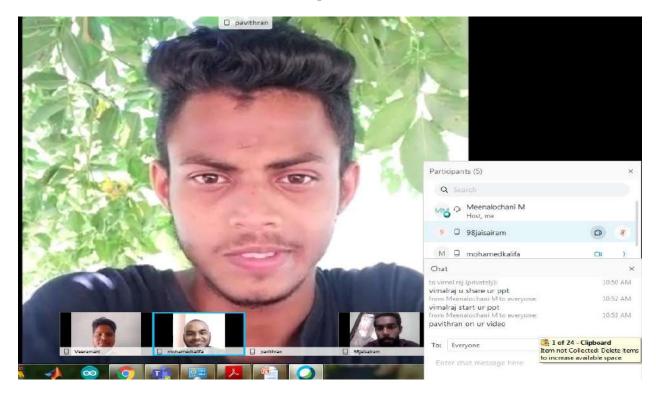
Batc h ID	Time	Participants	Title of the Projects
1.	10.30 a.m. - 10.45 a.m.	ILANKHATIR.E MOHAMED ASHIF KHAN.S BALAJI.M HARIHARAN.M	Initial Lung Cancer Cell Detection using Machine Learning
2.	10.46 a.m. - 11.00 a.m.	PRIYADHARSHINI K VITHYASRI U K SASIREKHA V SANTHAKUMARI J	A smart care taking system for uncomplainable patients and babe in arms using IoT
3.	11.01 a.m. - 11.15 a.m.	KANCHAN BHOSALE SAURABH BHOLE YASH PARAB VIKRANT RAJSHIRKE	Landslide Monitoring Using Wireless Sensor Networks
4.	11.16 a.m. - 11.30 a.m.	POOJA SHREE G BHUMIKA K M	A Compact Circular Frequency Reconfigurable Microstrip Monopole Antenna with Slotted Ground Plane for L and S Band Application
5.	11.31 a.m. - 11.45 a.m.	P.ABARNA K.DHURKA A.ELAKIYAKOWS HIKA M.SUDHA	Implementation of smart agriculture using IoT
6.	11.46 a.m. - 12.00 noon	AKALYA. K HARINI.M JENIFER. X MEGALA. M	Safezone identification and safety alert system for fishermen
7.	12.01 p.m. - 12.15 p.m.	G. KAYADEVI T. ARCHANA R. ABARNA S. AGALYA	An IoT Based smart perception of health observation
8.	12.16 p.m. - 12.30 p.m.	S.DIVAKAR S.JEEVA M.JAWAHAR T.VASUDEVAN	Raspberry Pi Based Smart Mirror using Voice Control

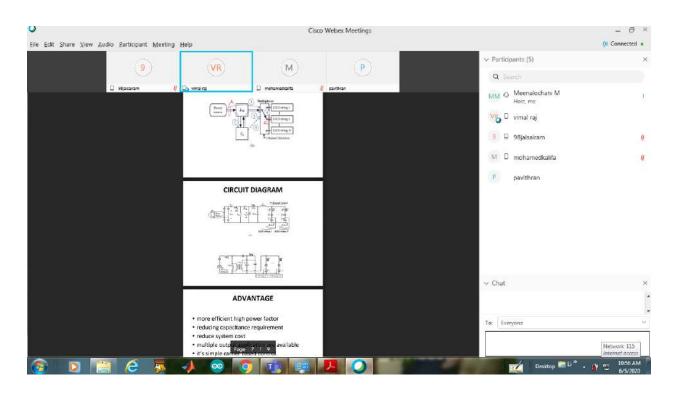
9.	12.31 p.m. - 12.45 p.m.	M. RASIKA C. RANJITHA D. RANJITHA R. DIVYADHARSHINI	Embedded based Ultra Model, Slime Baby Rescue System with SMD Modules
10.	12.46 p.m. - 01.00 p.m.	J INDHUJA M KOWSALYA K MEERA R SOWMIYA	Vision Based on Board Controller for Safe Landing and Target Detection for Unmanned Aerial Vehicles
			LUNCH BREAK
11.	02.00 p.m. - 02.15 p.m.	J.ARIYAVARSHINI S.DHANAHARSHIN I R.SANTHIYA P.PRIYADHARSHI NI	AMBUBOT: Automated External defibrillator Robotic Ambulance.
12.	02.16 p.m. - 02.30 p.m.	BALARAMAN. A. K ANTONY BERNARD. F SEDHUPATHI. M VEERAMANI. M	Intelligent System Based TFACU (Tower Frequency Analysis And Control Unit)
13.	02.31 p.m. - 02.45 p.m.	DHANASEKARAN S YASIKRAHMAN B PUGALENDHI K	Advanced Design of Agricultural Robot using Bluetooth
14.	02.45 p.m. - 03.00 p.m.	T ABINAYAKARTHI KA A POOVIZHI M SRIPRIYA T TAMILAZLAGI	Implementation Plants Disease Detection and Recovering using Image Processing

HOD/ECE

J. Morantoni Principal

#### **Snapshots**





Organisers











Platinum Partner





# Internal Hackathon for Smart India Hackathon 2020



Institution's Innovation Council Kings College of Engineering Pudukkottai, Tamil Nadu

13.01.2020

**Partners** 



KPIT

**Communication Partner** 









# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2019-2020

#### **SMART INDIA HACKTHAN PARTICIPANTS LIST -2020**

S.No	Batch members & Name of the team	Title of the project	Class	Problem Statement	Organization/ Category
1	LATCHAYASRI.G APARNAA.S KAWYA.A (Sparkle Feathers)	IOT BASED SMART BOTTLER FOR HEALTHCARE APPLICATIONS	II/ECE	Healthcare and Biomedical devices	MIC/Software
2	KIRUTHIKA.B SARIKA.A KEERTHIKA.M (KSK Innovators)	DRIVER DROWSINESS DETECTION SYSTEM USING IMAGE BASED TECHNOLOGY	II/ECE	Smart Vehicles	ARAI/Software
3	ANITHA.J RAMYA.K VINOTHA.M (Dazzlers)	SMART CARETAKING SYSTEM FOR UNCOMPLAINABLE PATIENTS AND BABE IN ARMS USING IOT	II/ECE	Healthcare and Biomedical devices	MIC/Software
4	PRIYADHARSHINI.K VITHYASRI.U.K SANTHAKUMARI.J ILANKHATIR.E DIWAKAR.S (V5)	INITIAL STAGE LUNG CANCER CELL DETECTION USING MACHINE LEARNING APPROACH	IV/ECE	Healthcare and Biomedical devices	MIC/Software
5	INDHUJA.J MEERA.K KOWSALYA.M SOWMIYA.R (Donuts)	A VISION BASED ONBOARD CONTROLLER FOR SAFE LANDING AND TARGET DETECTION FOR UAV	IV/ECE	Security and Surveillance	ISRO/Software

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6.	M.EZHILARASI M.VEERALAKSHMI M.SRITHALA S.HEMAMALINI (Wings of fire)	DRONES	III/ECE	Security and Surveillance	ISRO/Software
7.	Y.SIVANANTHAM R.VISWANATH R.SARANKUMAR M.ROCHELLA	LASER COMMUNICATION	III/ECE	Smart Communication	MIC/Software



Dr.J.Arputha Vijaya Selvi, Principal, Addressing the participants



A view of Participants





Participants presenting their idea to the panel members







#### **INDUSTRIAL VISIT REPORT**

# SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620015



28th January 2019,

The students of CSE,ECE, EEE & MECH department from  $5^{\rm th}\,$  semester of KCE.

To get practical knowledge in designing a product and to give an insight about the way things work, a group of 78 students from CSE, ECE, EEE and Mech, visited to **SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING,NATIONAL INSTITUTE OF TECHNOLOGY,** situated at Thanjavur-Tiruchirappalli highway on 28th January,2019 assisted by 4 faculty Members Mr. T.Pasupathi, AP/ECE, Mr.J.Arockiaraj, AP/EEE, Mr.R.Shankar, AP/Mech and Mrs.Chandraprabha, AP/CSE.

We reached the National Institute of Technology, Tiruchirappalli campus by 10:30 AM and we logged into the Siemens Centre of Excellence in manufacturing campus after the security check at 10:45 AM. We were accompanied by J.Josephine Aishwarya, student Co-Ordinator, SCEIM.

Dr.M.Duraiselvam, Head of the CoE, gave an overview about the Siemens Centre of Excellence in Manufacturing lab. During his presentation he listed the 12 sophisticated Laboratories for Design and Validation, Advanced Manufacturing, Test and Optimization, Automation, Electrical and Energy savings, Process Instrumentation, Mechatronics, CNC Machines, CNC Controller, Robotics, Rapid Prototyping and Internet of Things which provides opportunity for promising innovations.



Dr.M.Duraiselvam, Head of the CoE addressing the students

After the presentation students were divided into four groups. Each group was taken separately and explained functioning of various labs with demonstration by the experts from SCEIM.

#### **Product Design & Validation Lab**

Biswajit Sahoo, Instructor in Product Design & Validation Laboratory has explained the Design and Validation Lab which consists of the Siemens solution for Computer Aided Design (CAD) and Computer Aided Engineering (CAE). These Solutions assist the students to understand engineering design and analysis. The examples in this lab covered industry examples from Automotive, Aerospace, Industrial Machinery & Renewable Energy Industry segments.



Mr.Biswajit Sahoo, Instructor in Product Design & Validation Laboratory demonstrating equipments at the Design and Validation Lab

#### Rapid Proto Typing (RPT) Lab

Kalidass.D Instructor in Rapid Prototyping (RPT) & Test and Optimization Laboratorie has explained a group of techniques used to quickly fabricate a scale model of a physical part or assembly using three-dimensional computer aided design (CAD) data.



Kalidass.D, Instructor in Rapid Prototyping (RPT) & Test and Optimization demonstrating the process of RPT.

#### **Mechatronics Lab & Robotics Lab**

Rhenius J. Bright, Instructor in Robotics Laboratory has explained role of robots in the manufacturing industry also he demonstrated the three robotics cells catering different applications in the industry such as Pick and Place Robotic Cell, Spot Welding Robotic Cell and MIG Welding Robotic Cell





Rhenius J. Bright, Instructor in Robotics Laboratory demonstrating the industrial robots

#### **CNC Machines & Controller Lab**

The concept of CNC Programming and work real Sinumerik 808D controller for Turning and Milling applications was demonstrated by the instructor. The Logical steps to execute the CNC Program on an industrial CNC Machine also explained.



Instructor demonstrating the operation of CNC Machines & Controller

#### **Process Instrumentation & Automation Lab**

Harisraj.S, Instructor in the Process Instrumentation & the Automation Lab explained the students to understand the requirement and functioning of Programmable Logic Controllers (PLCs) and Distributed Control Systems (DCS) for industrial applications.



Harisraj.S, Instructor, addressing the students

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#### **Electrical & Energy saving Lab**

M. Sindhiya, Instructor in Electrical & Energy Saving laboratory explained the right frequency converter suitable for every drive application.

#### **Internet Of Things (IOT) Lab**

Sangeeth Kumar.V Instructor in Internet of Things (IOT) laboratory explained concept of Internet of Things (IoT), and various tools associated with IoT.



Students listening the concepts explained by the Instructor at IoT lab

Finally we, staffs were given a break of 5 minutes to interact with the COE and student coordinator which was a good opportunity for us to discuss about the student training and signing of MoU with SCEIM for carrying out research related activities and training for the students and staffs.

The main intention of this task is to make the students to get the knowledge of industrial process in an effective way.

By around 1.15 PM we logged out of the campus. At the end of the visit we had a good experience and learnt many things from SCEIM.







## **Expert Lecture on Antennas for Defence Applications**

Date: 09.08.2019 Venue: Pallava Hall

Time: 10.00 a.m.

**Invocation Song** 

Welcome Address – Dr. S. Sivakumar Vice Principal, KCE

Introducing Guest – Dr. J.Arputha Vijaya Selvi

Principal, KCE

Presidential Address – Dr. R. Rajendran Secretary, KCE

Special Address – Dr. D. C. Pande,

**DRDO** Distinguished Fellow

Electronics & Radar Development Establishment

Bangalore

Felicitation – Dr. S. Raghavan

Professor/ECE,

National Institute of Technology,

Trichy

Interaction with participants

Vote of Thanks – Mrs. U. Jeyamalar

Assistant Professor/ECE,

**KCE** 

National anthem







The students' notion "Antenna is a tough Electromagnetic subject" is proved wrong by Dr. D.C. Pande, Dr. Raja Ramanna DISTINGUISHED DRDO Fellow, Electronics and Radar Development Establishment (LRDE), Bangalore. Dr. D.C Pande, while addressing around 400 students of Kings College of Engineering, Thanjavur, demonstrated that Antenna Engineering, the most important technology of communication, is a child's play. He made the students feel "Antenna is a popular subject of Electronics and Communication Engineering". He asked the students to be through in design, fabrication and testing. Dr. R. Rajendran, Secretary and Dr. J. Arputha Vijaya Selvi, Principal, while felicitating Dr. Pande insisted the importance of becoming professional society member.

Dr. S. Raghavan, Professor, NIT Trichy and IEEE senior member, in his address stressed that the engineering students should aspire for core engineering jobs and not for software placements. Earlier Prof. N. Mangaiyarkarasi, Head of the department of ECE, welcomed the gathering and explained about the activities of IEEE society of the college.









## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) EVEN SEMESTER

Date: 15.02.2020

#### **CIRCULAR**

This is to inform that all the III and IV Year Students are instructed to attend the Guest lecture on "Wireless Communication" on 15.02.2020 at 11.00 am to 12.30 pm. Attendance is compulsory.

Resource Person: Mr.Abhishek kumar,

JRF/ECE

National Institute of Technology, Karnataka

Venue: Lecture Hall







#### **Guest Lecture on "Wireless Communications"**

A Guest Lecture on Wireless Communications was organized by IEEE STB 16621 and Department of ECE on 15<sup>th</sup> February, 2020. Mr. T. Pasupathi, Assistant Professor/ECE welcomed and introduced the resource person to the gathering. Mr. Abhishek Kumar, Junior Research Fellow/ECE, National Institute of Technology - Karnataka, Surathkal was the resource person.

In his lecture, he briefed on 5G mobile technology key features, which includes the modulation schemes, bandwidth, datarate and implementation strategies. Also he briefed on the applications of next generation network i.e. Free Space Optical Communication with case studies. A total of 50 students participated and got benefitted.



Report by Mr. T. Pasupathi Membership No. 93393158 Kings College of Engineering pasu.tamil@gmail.com







#### DEPARTMENT OF ELECTRONICSAND COMMUNICATION ENGINEERING

## One Day Workshop

0n

## One Day Workshop on Machine Learning Using PYTHON

## Organized by Electronic and communication Department Dated: 14/2/2020

Faculty Coordinated by: R.Raja Pirian AP/ECE & P.Thirumagal AP/ECE

Total Participants : 77 Students

Place : PALLAVA HALL

Expert Invited : **Mr.KARTHI RENGANATHAN**,

BUSINESS HEAD,

**IFANDFOR ENDEAVOURS** 

CHENNAI.

One day work shop on **Machine Learning using Python** was organized by Department of Electronics and Communication Engineering, to motivate the students to involve them in IoT Domain and also the students to get more ideas about the Machine Learning for their project works and for their career development. Mr.Karthi Renganathan, Business Head, IFANDFOR Endeavours –Chennai, was the resource person.

The workshop begins at 10.15 a.m on 14/02/2020, Mr.P.Raja Pirian, AP/ECE coordinator of the workshop, welcomes the resource person and the gathering. Mrs.P.Thirumagal,AP/ECE coordinator of the workshop give introduction about the Resource person Mr.Karthi Renenga **IFANDFOR** Nathan. **Business** Head. Endeavours. Chennai. Mrs.N.Mangiyarkarasi HoD/ECE Honored the Chief guest and delivered the presidential address. Immediately the 1st session begins with introduction about Machine Learning by Mr.Karthi Renenga Nathan, his lecture covers basics of Machine Learning and introduction to python. After the tea break the resource person continued the second session. This session covers the topics such as Linear Regression, Trees and forests which will be used for statistical.

After the Lunch break The 3nd session which was demo session, The resource person demonstrate two applications such as applications using clustering concept, Neural network in a detailed manner. All the students were actively involved in the entire sessions and got more ideas and knowledge in machine learning and python.

After Tea break the workshop ends with valedictory function. Each student from Sri Bharathi Engineering College and St.Joseph College of Engineering and Technology gave feedback about the workshop. After that Mrs. N. Mangaiyarkarasi HoD/ECE, distribute the certificates to the participants followed by Mr. P. Raja Pirian AP/ECE Coordinator of the workshop delivered the vote of thanks. The program ends with national anthem. Nearly 77 students were participated in the workshop, 17 students from other colleges (Sri Bharathi Engineering College for Womens, St. Joshep Engineering College) and 60 students from CSE and ECE of kings college of Engineering.

#### **Photo Gallery**

#### **Prayer Song:**



#### Inagural Address By HOD:



#### **Prize Distribution**



**Chief Guest Interaction with students** 



A one Day Workshop on "Machine Learning using Python" was organized by Department of Electronics and Communication Engineering at Pallava Hall February 14, 2020, in Kings College of Engineering, Punalkulam.

This workshop is coordinated by Mr.R.Raja Pirian AP/ECE & Mrs. P.Thirumagal AP/ECE. Welcome Speech by R.Rahapirian AP, Inagural address by N.Mangaiyarkarasi.HOD/ECE. The 75 students were attended this workshop.

Python has been designed with the provision for creating Machine Learning algorithms. Python is preferred as the best and robust platform for Machine Learning systems. Python also has numerous libraries for machine learning, data manipulation and analysis as well as a very active development community that continuously updates and creates new packages. It has been adopted by a wide variety of industries and applications including Data Science, Machine Learning, Data Analytics, Predictive Analytics, Business Intelligence and Web Analytics. This workshop aims to explore Python Programming right from installation, fundamentals to Machine Learning algorithms.

The lecture was focused on the key concepts related to machine learning and the participants received a brief overview of the following topics: Introduction to Python, Python Installation, Python Basics and Native Types, Functional Programming with Python, Introduction to Machine Learning, Future of Machine Learning in AI, Installing Anaconda and Jupyter, Overview of Numpy and Pandas, Understanding Machine Learning Algorithms, Introduction to Object Detection, Building a Face Recognition App.

#### **Outcome of Workshop Target Audience**

- > Familiarity with Python installation, syntax and design
- > Familiarity with machine learning algorithms
- > Hands-on designing of small projects on their own UG students.

#### **Highlights of the Workshop**

- > Workshop with complete hands-on experience
- > Experts from industry with more than 10 years of experience
- > Basics of Python and machine learning algorithms

The interesting examples from around the world were the highlight of the session. Workshop was more informative.

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## Academic year 2019-20 (ODD) Department of Electronics and Communication Engineering

#### Report

#### **Guest Lecture on "Biomedical Instrumentation"**

Guest Lecture on "Biomedical Instrumentation" was organized for third and final students of ECE and EEE on 07.08.2019 at Pallava Hall. **Dr. Raji Sundararajan, Professor /Electrical Engineering, Purdue University, Indiana, USA** was the resource person.



Mrs.R.Ponni welcome the gathering



Dr. J. Arputha Vijaya Selvi, introducing the person



Dr. Raji Sundararajan, delivering lecture



Mrs.D.Vennila delivering vote of thanks



A view of participants

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Mrs.R.Ponni, Asst.Porf/ECE, gave a warm welcome to the gathering. Dr. Raji Sundararajan was introduced to the gathering by Dr.J.Arputha Vijaya Selvi, Principal.

Dr. Raji Sundararajan, delivered a lecture on "Electroporation based therapies for cancer" which includes the concept of Electoporation, Electro Chemotherapy and Electro-Gene therapy. Her lecture was focussed on the molecular and cellular events involved in tumor formation, progression, metastasis, and drug binding is crucial to the development of innovative therapy for cancer patients.

She also briefed the application of high intensity, short duration (milli and micro seconds), electrical voltage pulses for the treatment of breast carcinomas and other cancers, as drug delivery is one of the most challenging issues of the medical community. Dr.Raji Sundararajan shared her experince in treating the cancer patients and challenges faced during the treatment of cancer with application of electrical pulses with real time pictures.

While concluding her lecture she interacted with students and clarified the queries raised by the students.

Mrs.D.Vennila, Asst.Prof, proposed vote of thanks.







## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) ODD SEMESTER

Date: 09.08.2019

#### **CIRCULAR**

This is to inform that all the III Year Students are instructed to attend the Guest lecture on "Renewable energy sources" on 13.08.19 at 11.00 am to 12.30 pm. Attendance is compulsory.

Resource Person: J.Arockia Raj,

Assistant Professor, EEE

Kings College Of Engineering

Venue: Pallava Hall.

**Head of the Department** 







## Academic year 2019-2020 (ODD SEMESTER) Department of Electronics and Communication Engineering

#### Report

#### **Guest Lecture on "Renewable Energy Sources"**

Guest Lecture on "Renewable Energy Sources" was organized for third year students of ECE on 13.08.2019 at Pallava Hall. **Mr.J.Arockia Raj, Assistant Professor /EEE, Kings College of Engineering, Punakulam** was the resource person.





Mr.J.Arockia Raj, delivering lecture



A view of participants

124

Mr.A.Herald, Asst.Porf/ECE, gave a warm welcome to the gathering. Mr.J.Arockia Raj was introduced to the gathering by Mr.T.Pasupathi, AP/ECE. Mrs.N.Mangaiyarkarasi, HOD/ECE honoring the resource person Mr.J.Arockia Raj.

Mr.J.Arockia Raj, delivered a lecture on "Renewable Energy Sources" which includes the concept of Wind Energy, Bio-Mass and IC Engine. He gave brief idea about wind mill, it's functioning and associated aerodynamics as well as site selection for wind farm.

He gave idea about recent technologies and materials like semiconductors, piezoelectric and magnetic materials and their synthesis for manufacturing in renewable energy. He also explained recent technologies and trends in organic solar cells.

While concluding his lecture he interacted with students and clarified the queries raised by the students.

Mr.P.Raja Pirian, Asst.Prof, proposed vote of thanks.







## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR (2019-2020) ODD SEMESTER

Date: 21.08.2019

#### **CIRCULAR**

This is to inform that all the III& IV Year Students are instructed to attend the Guest Lecture on "RF and Micro Wave" on 24.08.19 at 2.30 pm.

 $Resource\ Person:\ Dr.T. Shanmugan anthan$ 

Assistant Professor, ECE Pondicherry University.

Venue: Pallava Hall.

**Head of the Department** 

#### **REPORT**

# Guest Lecture on RF and Micro Wave

24/08/19

**Co-ordinators** 

Mr.P.Raja Pirian AP/ECE Mr.S.Ramarajan AP/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING KINGS COLLEGE OF ENGINEERING PUNALKULAM

A guest lecture on RF and Microwave was organized by Department of Electronics and Communication Engineering, to motivate the students to involve them in the RF Domain and also the students to get more ideas about designing various smart antennas used in modern communication systems. Dr.T.Shanmuganantham, Assistant Professor, Pondichery University was the resource persons.



The program begins at 3.00 p.m, Mr.S.Ramarajan AP/ECE welcomes the resource person and the gathering, followed by Mr.T.Pasupathi AP/ECE introduced the chief guest, Mrs.N.Mangaiyarkarasi, HOD/ECE honored the chief guest. Finally Dr.T.Shanmuganantham, Assistant Professor, Pondicherry University begins with a Lecture on RF and Microwave. In his lecture he covers all the topics from basic communication to latest India's Moon missions deep space network. The students were actively involved in the entire sessions. The program ends with vote of thanks. Mr.P.Raja Pirian AP/ECE delivered the vote of thanks.

All the 3<sup>rd</sup> year and final year students participated in this guest lecture.

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#### KINGS COLLEGE OF ENGINEERING

#### **Department of Electronics and Communication Engineering**

#### **IEEE STUDENTS BRANCH STB 16621**

#### Webinar report

R&D Section, IEEE Student Branch (16621) and IIC jointly organized a webinar on **Role of Embedded Systems in Data Processing** on 30<sup>th</sup> April, 2020. A total of 112 registrations were received from 42 institutions spread over India and abroad.

S. No	Name of the Institution	No. of Registrations
1	Annamalai University	01
2	Arifa institute of technology	04
3	BWDA ARTS AND SCIENCE COLLEGE	01
4	CGC Technical Campus, Jhanjeri	01
5	Dhanalakshmi Srinivasan engineering college	04
6	DK International Research Foundation,	01
7	Dr NGP arts and science college	01
8	Dr.MGR Educational and Research Institute	02
9	E. G. S. Pillay Engineering College	03
10	ER.Perumal Manimekalai College of Engineering	01
11	Govt Arts and Science College for Women	01
12	Guru kashi University Talwandi Sabo	01
13	J.K.K.Nattraja College of Engineering and Technology	02
14	K.Ramakrishnan College of Engineering	02
15	KAAMADHENU ARTS AND SCIENCE COLLEGE SATHYAMANGALAM	01
16	Kalasalingam academy of research and education	01
17	Kings College of Engineering	11
18	KIT-Kalaignarkarunanidhi institute of technology	02
19	Kovai Kalaimagal College of Arts and Science	01
20	KPR Institute of Engineering and Technology	01
21	Kumaraguru College of Technology	01
22	Mazharul Uloom College	01
23	Mohamed sathak Engineering college	01
24	Muthayammal Engineering College	01
25	Nalanda institute of engineering and technology	02
26	NIFT-TEA COLLEGE OF KNITWEAR FASHION, TIRUPUR	01
27	Punjabi university, Patiala	01
28	QIS college of engineering and technology	02
29	Quest Group of Institutions, Jhanjeri, Mohali Punjab	02
30	Sahaspur Mohavidyalaya, Balichandrapur, Jajpur, Odisha	01
31	Shanmuga Industries Arts & Science College, Tiruvannamalai.	02
32	St. Joseph's college of Engineering and Technology	06
33	Sri Ramalinga Sowdambigai College of Science and Commerce	14
34	Sri Balaji Chockalingam Engineering College	01
35	Srimad Andavan Arts & Science College	01
36	Srinivasan College of Arts and Science	01
37	St Joseph's college	21
38	St Xavier's Catholic College of Engineering	02
39	St.Joseph's College of Arts & Science	06

40	Vinayaka mission kirupanandha variyar Arts and Science College	01
41	V.O.CHIDAMBARAM COLLEGE THOOTHUKUDI	01
42	Universitas Pendidikan Indonesia	01
	Total	112

In the session, **Mr. P. Rajasekar**, Managing Director, V3 Technologies, Thanjavur delivered lecture. In his lecture, he briefed on the role of embedded in automobile sector, agriculture sector etc. Applications of embedded in automobile sectors were briefed using case studies. A total of 40 members from various institutions participated in the programme.

#### **Snapshot of the Participants attending the Webinar:**



#### **Sample Certificate**



130

Coordinator,

J. Niranjan Samuel,







#### R & D Section

#### Seminar on "Soft Skills"

A Seminar on "Soft Skills" was organized on 24<sup>th</sup> January, 2020. Mr. J. Rajaparthiban, Assistant Professor/Mech and DRC Member welcomed the gathering. Mr. PP. Shantharaman, Associate Professor/Mech and DRC Convenor presided over the function. Mr. T. Pasupathi, AP/ECE, introduced the resource person to the gathering.







Mr. R. Ramachandran, Soft Skill Trainer, PWD (Retd), Govt. of Tamil Nadu was the resource persons. In his lecture, he briefed the students on the techniques and ways to improve their soft skills.

#### Details of Students Participated:

Mechanical	Engineering	- 46
1,10011milloui		

ECE - 20

CSE - 23

EEE - 08

Civil -15

I year - 36

Total - 148

J. Moruti

Principal

#### **Organizing Committee**

#### Chief Patrons:

Dr. R. Rajendran, Secretary Mr.T.R.S.Muthukumaar, CEO

Dr. J. Arputha Vijaya Selvi, Principal

#### Co-Patron:

Dr.S.Sivakumar, Vice Principal

#### Conference Chair

Prof. N. Mangaiyarkarasi, HOD(i/c)/ECE

#### Organizing Secretaries:

Mr. A. Herald, AP/ECE

Mrs. U. Jeyamalar, AP/ECE

#### Advisory Committee:

Dr. Pallapa Venkataram

Indian Institute of Science, Bangalore

Dr.S. Raghavan

National Institute of Technology, Tiruchirappalli

Dr.S. Krishna Kumar,

Defence Research and Development Org., Chennai.

Dr.P. Dananjayan

Pondicherry Engineering College, Pondicherry

Dr.N. Siyakumaran

National Institute of Technology, Tiruchirappalli

Dr.M. Aramudhan

Perunthalaivar Kamarajar Inst. of Engg., & Tech, Karaika

Dr.P.A. Manoharan Chairman, IEEE Madras Section

Dr.D. Javanthi

GRIET, Hyderabad

Dr.S. Suganthi

CHRIST University, Bangalore

Dr.Shanthi prince

SRM Institute of Science & Technology, Chennai.

Dr.A. Balaji Ganesh

Velammal Engineering College, Chennai

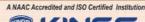
#### Dates to remember

Last date for submission of full papers: 25.02.2019 28.02.2019 Intimation of Acceptance

Deadline for registration and

05.03.2019 Camera ready paper submission









#### National Conference on Emerging Trends in Electronics and Communication Engineering (ETECE'19)

15th March, 2019

hosted by

Department of Electronics & Communication Engineering Kings College of Engineering, Punalkulam

#### **Keynote Speakers**



Dr. S. Krishna Kumar Defence Research & Development Organization



Dr. S. Albert Alexander Kongu Engineering College

#### About the Conference

The National Conference on Emerging Trends in Electronics and Communication Engineering (NCETECE'19) aims to provide a forum for presenting and discussing new design, issues & novel methods and alternative technologies in the area of Electronics and Communication Engineering. It provides a platform for students, research scholars, academicians and industry professionals for sharing and exploring new areas of research and development. NCETECE'19 will feature keynote lectures by renowned academicians and scientists to enhance their knowledge in the area of Electronics and Communication Engineering and other related fields.

Paper submitted must be original and should not have been previously published or under consideration

for publication. All accepted papers will be sent for peer review and the corresponding author will be notified of the outcome. Minimum one author should register. Papers should be in IEEE format (doc) not

- Ad-hoc and Sensor Networking AI & Robotics
- Control Systems
- Cryptography
- Digital & Analog Circuits and Application Electric Vehicle Technologies
- Embedded & VLSI Design
- Microelectronics

- Nanotechnology
- Optical Network and Systems Optoelectronic Circuits
- Organic Electronics
- Satellite and Space Communication Semiconductor Devices
- Signal Processing/Image processing
- Wireless Communication Systems and Networking

#### Technical Committee:

Dr.D. Sriramkumar

National Institute of Technology, Tiruchirappalli

Dr.A. Sivanantha Raja

Government College of Engineering, Bargur

Dr.G. Nagarajan

Pondicherry Engineering College, Puducherry

Dr. C. Vennila

Saranathan College of Engineering, Tiruchirappalli

Dr. C. Sarayanan

National Institute of Technology, Durgapur

Dr.S. Albert Alexander

Kongu Engineering College, Perundurai

Dr.T. Jayasankar

Anna University BIT Campus, Tiruchirappalli.

Dr.R. Vimalathithan

Karpagam college of Engg, Coimbatore

Dr. K. Prabu

National Institute of Technology, Mangalore

Dr. V. Sakthivel

National Institute of Technology, Calicut

Dr. R. Boopathi Rani

National Institute of Technology, Karaikal

#### Publication

All the accepted papers will be published in the conference proceedings with ISBN. In addition, selected papers will be published in indexed journals based on the authors' consent with additional charges. Journal details are available at

#### Registration Fee Details

Members from Academia / Industry Research Scholars

:Rs. 750 UG/PG Students :Rs. 500 Participants (Listeners) :Rs. 300

Registration fee includes conference Proceedings (CD), lunch and refreshments.

The Organizing Secretary,

Dept. of Electronics & Communication Engg. Kings College of Engg., Punalkulam- 613303. Near Thanjavur, Tamil Nadu Mob: 94868 02587 / 97914 68414 email: ncec@kingsindia.net, herald.ece@gmail.com

website: www.kingsindia.net

#### **About the Institution**

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 (AICTE), New Delhi 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), Chennai. The institution offers five UG and five PG programmes, certified with ISO 9001:2008 and accredited by NAAC. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

#### **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 is recognized as research centre for collaborative research by Anna University, Chennai. A significant number of research projects funded by government and non-government organizations viz. DRDO, MCIT, AICTE New Delhi, TNSCST, Chennai and Texas Instruments USA have been successfully carried out.

#### **About the Conference**

The National Conference on Emerging Trends in Electronics and Communication Engineering (ETECE'19) is to provide a forum for presenting and discussing new design, issues and novel methods and alternative technologies in the area of Embedded Systems and Networking. It provides a platform for students, research scholars. academicians and industry professionals for sharing and exploring new areas of research and development. It will feature keynote lectures by renowned academicians to enhance their knowledge in the area of Signal Processing, VLSI design and other related fields.

#### **Themes**

- Semiconductor Devices
- Control Systems
- Digital & Analog Circuits and Application
- Embedded & VLSI Design
- Signal Processing/Image processing
- Wireless communication systems and networking
- Ad-hoc and Sensor Networking
- Communication and Information System Security
- Satellite and Space Communication
- Optical Network and Systems
- Optoelectronic Circuits
- Microelectronics
- Nanotechnology
- Electric Vehicle Technologies
- AI &Robotics
- Under Water Communication
- Organic Electronics, etc.,

#### **Paper Format**

Full Paper not exceeding 5 pages should be submitted in IEEE double column format (soft copy in MS-Word as E-mail attachment). After acceptance, 2 hard copies of the paper along with Registration Fee in the form of Demand Draft should be submitted.

#### **Organizing Committee**

#### **Chief Patron**

Dr. R. Rajendran

Secretary

Mr. T.R.S. Muthukumaar

Chief Executive Officer

#### Patron

Dr. J. Arputha Vijaya Selvi

Prinicipal, Kings College of Engineering.

#### **Co-Patron**

Dr. S. Sivakumar

Vice Principal

#### **Organizing Chair**

Mrs. N. Mangaiyarkarasi Academic Coordinator, ECE

#### **Organizing Secretaries**

Mr.A.Herald, AP/ECE Mrs.U.Jeyamalar, AP/ECE

#### **Advisory Committee**

Dr.Pallapa Venkataram, IISC, Bangalore.

Dr.S.Raghavan, NIT, Trichy.

Dr.S.Krishna Kumar, DRDO, Chennai.

Dr.P.Dananjayan, PEC, Pondicherry.

Dr. N. Sivakumaran, NIT, Trichy.

Dr. P.A Manoharan, IIT Research Park, Chennai

Dr.Shanthi prince, SRMIST, Chennai.

Dr.S.Suganthi, CHRIST, Bangalore.

Dr.D.Jayanthi, GRIET, Hyderabad.

Dr. M. Aramudhan, PKIET, Karaikal.

Dr .A. Balaji Ganesh, VEC, Chennai.

#### **Technical Committee**

Dr.A.Sivanantha Raja, GCE, Bargur.

Dr.G.NAGARAJAN, PEC, Pondicherry.

Dr.Saravanan Chandran, NIT, Durgapur.

Dr.C.Vennila, SCE, Trichy.

Dr.S.Albert Alexander, KEC, Erode.

Dr. R. Boopathi Rani, NIT, Karaikal.

Dr. V. Sakthivel, NIT, Calicut.

Dr.K.Prabu, NIT, Warangal.

Dr.T.Jayasankar, BIT Campus, Trichy.

Dr.R.Vimalathithan, KCE, Coimbatore.

#### **Registration Fee**

PG students / Faculty Members /

Research Scholars : Rs. 1000/\*-

Others participants(Listeners): Rs. 300/-

• Selected Papers will be published in Indexed Iournals.

\*Including publication charges.

#### **Important Dates**

Submission of Full Paper : 25.02.2019

Notification of Acceptance : 28.02.2019

Last date for Registration : 12.03.2019

#### **Contact Address**

The Organizing secretaries – ETECE'19,

Dept. of ECE,

Kings College of Engineering

Punalkulam, Thanjavur.

94868 02587 / 97914 68414

Email: ncec@kingsindia.net



National Conference on Emerging Trends in Electronics and Communication Engineering (ETECE-19)

on 15<sup>st</sup> March, 2019



Organized by

**Department of Electronics and Communication Engineering** 

Technically sponsored by

Robotics & Automation Society, IEEE Madras Section

#### KINGS COLLEGE OF ENGINEERING

(NAAC Accredited Institution)

Approved by AICTE, New Delhi & Affiliated to

Anna University, Chennai

Phone: 04362-282474

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#### KINGS COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal.

Punalkulam, Thanjavur — 613 303

A NAAC Accredited Institution

(Recognized under 2(f) & 12(B) act of UGC)

Phone: 04362-282474



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2018-2019 EVEN SEMESTER

#### REPORT

**National Conference** 

on

**Emerging Trends in Electronics and** 

**Communication Engineering** 

(NCETECE'2019)

DATE: 15.03.2019

**VENUE: CHERA HALL, AV HALL, DSP LAB** 

1





#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2018-2019 (EVEN SEMESTER) REPORT

National Conference on Emerging Trends in Electronics and Communication Engineering (NCETECE-19)

DATE: 15.03.2019

VENUE: CHERA HALL, AV HALL, DSP LAB

The National Conference on Emerging Trends in Electronics and Communication Engineering (NCETECE'19) aims to provide a forum for presenting and discussing new design, issues and novel methods and alternative technologies in the area of Electronics and Communication Engineering. It provides a platform for students, research scholars, academicians and industry professionals for sharing and exploring new areas of research and development. NCETECE'19 will feature keynote lectures by renowned academicians to enhance their knowledge in the area of Electronics and Communication Engineering and other related fields.

NCETECE-19 was organized by department of ECE and technically sponsored by Robotics & Automation Society of IEEE Madras Section.

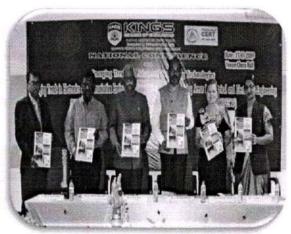
72 papers were received, out of which 58 quality papers were accepted. Enthusiastic response was received all around 50 full manuscripts were uploaded on Easy Chair. 46 papers were accepted after a rigorous review, making it very selective. 46 accepted papers were distributed for 2 Oral Sessions.



Dignitaries on the Dias

Hard copy of the conference proceedings was released by Dr J. Arputha Vijaya Selvi, Principal, Kings College of Engineering received by Dr. S. Krishnakumar, Senior Technical Officer, DRDO, Avadi, Chennai.





Release of Hardcopy of the proceedings

Mrs.U. Jeyamalar, Asst.Prof/ECE, introduced the chief guest Dr. S. Krishnakumar, Senior Technical Officer, DRDO, Avadi, Chennai with warm greetings. Dr. S. Krishnakumar, delivered the inaugural address. He enlightened the audience with his mind blowing talks on the Emerging trends in Communication Engineering.



Mrs.U. Jeyamalar, Asst.Prof/ECE introducing the Chief Guest Dr. S. Krishnakumar



Dr. S. Krishnakumar, Senior Technical Officer, DRDO, Avadi, Chennai delivering Inaugural Address

Dr.S.Sivakumar, Vice Principal, KCE offered felicitations and explained about the newer technologies for the next decade.

After the tea break the technical session had been started, for this conference more than 70 papers from various colleges had received and about 46 papers were presented in the conference.

Papers were presented in 2 tracks; track 1 was chaired by Dr. S. Krishnakumar, Senior Technical Officer, DRDO, Avadi, Chennai and Mr.W.Newton David Raj, AP/ECE, track 2 was chaired by Dr.T.Shanthi, Associate Professor/ECE and Mrs.R.Ponni, AP/ECE.



Refreshment with Chief Guest



Session Chair & Co-Chair during the technical session



The Jury Panel evaluating the papers at the Conference



Delegates presenting their research work in the technical session

This conference was highly productive and provided participants with opportunities to make new contacts and refresh the existing network links as well as to discover and explore new ideas in the area of Electronics and Communication Engineering.

#### Valedictory Function:

The paper presentation certificates to the participants were awarded. Mr. A. Herald delivered the Conference Summary and Vote of thanks, to participants from various institutions and our institution for their keen interest in participating in this national conference, acknowledging the tireless efforts of the members of the working committee, and the non-teaching faculty for smooth functioning of the event.



Mr.A.Herald, AP/ECE delivering Conference summary & Vote of thanks



 $\label{lem:mrs.n.mangaiyarkarasi, HOD/ECE distributing certificates to the participants$ 









Distributing certificates to the participants

Finally the conference was successfully ended with the National Anthem.

\*\*\*\*\*\*

## **About our Institution:**

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## About the Department:

Electronics Department The 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 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, MCIT, AICTE New Delhi, TNSCST, Chennai and Texas Instruments USA have been successfully carried out.

Faculty members are encouraged to participate in the faculty development programs, workshops and seminars organized by other institutions in their research area as a step towards strengthening their domain knowledge.

## LABVIEW:

LabVIEW, short for Laboratory Virtual Instrument Engineering Workbench, is a programming environment in which you create programs using a graphical notation (connecting functional nodes via wires through which data flows); in this regard, it differs from traditional programming languages like C, C++, or Java, in which you program with text.

However, LabVIEW is much more than a programming language. It is an interactive program development and execution system designed for people, like scientists and engineers, who need to program as part of their jobs.

## Target Audience:

The workshop is open to Faculty Members, Students, Research Scholars and persons working in R&D Organizations and Industries.

## Kings College of Engineering Punalkulam - 613 303

# LabVIEW Graphical Development Hands on Training

## Registration Form

1. Name (in block letters)	:
2. Qualification	•
3. Designation	
4. Institution / Organization	
5. Address for Communication	
6. Phone No. / Mobile	
7. E-mail:	

Signature of the applicant

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Signature of the Head of the Department

## Contents:

The workshop covers

- Introduction to Graphical Programming with LabVIEW
- Dataflow and the Graphical Programming Language
- How Does LabVIEW Work?
- Graphical System Design
- Hands on Training

## Resource Persons:

Mrs. Ka. Suriyaprabha, AP/ICE, AVC College of Engineering

Mr. K. Arulselvan AP/ICE, AVC College of Engineering

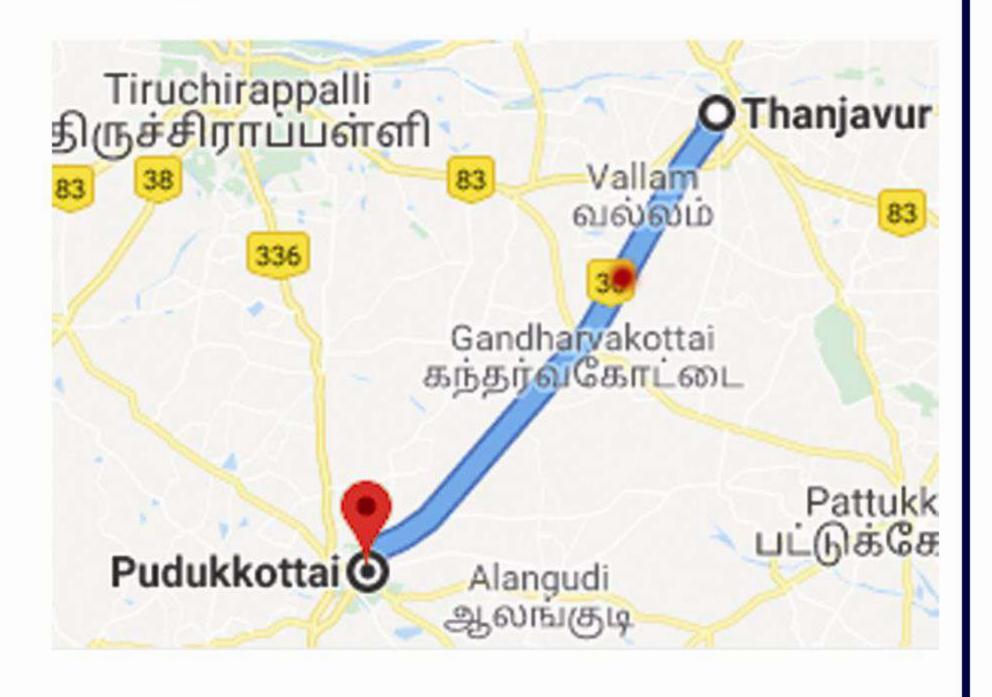
## Registration fees:

Spot registration is permitted. The registration fee includes course material, lunch and refreshment.

UG/PG Students: Rs.250/Faculty: Rs. 350/-

## Transport:

Participants can avail the transport facilities of the college.



## **Chief Patrons:**

Dr. R. Rajendran Secretary

Mr.T.R.S.Muthukumaar, MBA, Chief Executive Officer

## Patron:

Dr. J. Arputha Vijaya Selvi Principal

## Co-Patron:

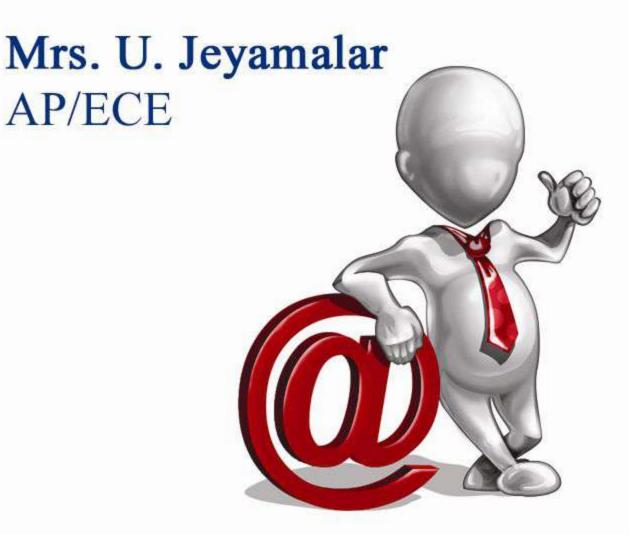
Dr.S.Sivakumar Vice Principal

## Convenor

Ms. N. Mangaiyarkarasi AP/ECE (Ac. Co./ECE)

## Co-ordinators:

Mr. T. Jeyaseelan AP/ECE



## Please mail your registration form to:

The Coordinator,

Dept. of ECE, Kings College of Engg., Punalkulam- 613303.

Phone: 04362 - 282474

## For further information contact:

Mr. T. Jeyaseelan - 98942 73041 Mrs. U. Jeyamalar - 97914 68414

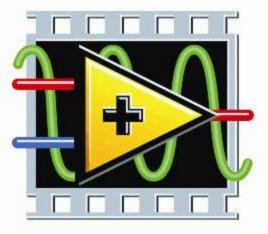


### NAAC Accredited Institution

(Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai)

## LabVIEW

# Graphical Development Hands on Training



Organised by

Dept. of ECE and IEEE Student Branch Kings College of Engineering

On 12<sup>th</sup> September, 2018

(a)

Kings College of Engineering Punalkulam - 613 303 website: www.kingsindia.net

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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **ACADEMIC YEAR 2018-2019 ODD SEMESTER**

**REPORT** 

ON

LABVIEW GRAPHICAL DEVELOPMENT - HANDS ON TRAINING

**DATE: 12.09.2018** 







## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2018-2019 (ODD SEMESTER)

#### **REPORT**

One Day Workshop on "LabVIEW Graphical Development – Hands on Training"

DATE: 12.09.2018

VENUE: AV HALL

Department of Electronics and Communication Engineering and IEEE Student Branch of our college organized a One Day Workshop on "LabVIEW Graphical Development – Hands on Training" on 12th September 2018, where 1 faculty and 15 students from various Engineering colleges and 44 internal participants, totally 60 participants were attended and gained knowledge. The objective of the workshop is to provide Hands-on training on LabVIEW. The main objective of this workshop was to upgrade the skills of the students but it also provided a common platform to explore the use of Virtual Instrumentation and Design aspects using simulation with the help of NI LABVIEW. Participants learnt and practically contributed their complete effort. Students gained much more knowledge about practical implementations of LabVIEW under the guidance of our resource persons, Mrs.Ka.Suriyaprabha, Assistant Professor/Instrumentation & Control Engineering, A.V.C. College of Engineering, Mayavaram and Mr.K.Arulselvan, Assistant Professor/Instrumentation & Control Engineering, A.V.C. College of Engineering, Mayavaram.

#### **Coordinators:**

- 1. Mr.T.Jeyaseelan, Assistant Professor/ECE
- 2. Mrs.U.Jeyamalar, Assistant Professor/ECE

#### **Inaugural Session:**

The dignitaries on the Dais during the inaugural session were Mrs. N. Mangaiyarkarasi, Ac. Coordinator / ECE, Mr.T.Jeyaseelan, AP/ECE. The program was started with Thamizh Thaai Vaazthu followed by welcome address delivered by Mr.T.Jeyaseelan, AP/ECE. Mrs. N. Mangaiyarkarasi, Ac. Coordinator / ECE, delivered the inaugural address, she briefed the technologies used in our day today life and the overview of LabVIEW in various applications. Mrs.U.Jeyamalar, AP/ECE, introduced the chief guests. After that the chief guests were honored by Mrs. N. Mangaiyarkarasi, Ac. Coordinator / ECE & Mr.T.Jeyaseelan, AP/ECE.



Dignitaries on the Dais



Welcome address by Mr.T.Jeyaseelan, AP/ECE



Inaugural address by Mrs.N.Mangaiyarkarasi, Ac.Co/ECE



Chief guests introduction by Mrs.U.Jeyamalar,AP/ECE



Honoring the chief guests by Mrs.N.Mangaiyarkarasi,Ac.Co/ECE



Honoring the chief guests by Mr.T.Jeyaseelan, AP/ECE

#### <u>Session 1 – Overview of LabVIEW.</u>

During the session, Mr.K.Arulselvan, AP/ICE, A.V.C. College of Engineering, Mayavaram, discussed brief overview of LabVIEW and its applications.



Overview of LabVIEW by Mr.K.Arulselvan, AP/ICE, A.V.C.C.E



**View of Participants** 



Hands on session by at DSP Lab

#### Session 2- Hands on training on LabVIEW.

The second session of workshop was planned to provide hands on experience with LabVIEW and application. Hands on training given by Mrs.Ka.Suriyaprabha, AP/ICE, A.V.C. College of Engineering, Mayavaram and Mr.K.Arulselvan, AP/ICE, A.V.C. College of Engineering, Mayavaram. Resource persons delivered a lecture about LabVIEW introduction, installation, procedure and hands on training given to the participants, participants doubts were cleared.

The following areas were covered with hands-on exposure to the software:

- Brief overview of LabVIEW and its applications.
- · Mathematical operations
- Digital Logic using Boolean gates
- For Loops with various examples
- Conditional While Loops
- Signal generation
- Image processing
- Practical system examples using Case Structures.
- Implementation of higher end computation using Formula Nodes.
- Hierarchical designing using Sub-VI

#### **Valedictory Function:**

The students were actively involved in the entire sessions. The program ends with valedictory. The participants shared their feedback about the training programme. Mrs. R.Ponni, AP/ECE distributed the certificates to the participants. Mrs.U.Jeyamalar, AP/ECE delivered the vote of thanks.



Hands on session by Mrs.Ka.Suriyaprabha, AP/ICE, A.V.C.C.E



Feedback given by participant



Mrs. R.Ponni, AP/ECE issuing certificate to the participants

Ac. Coordinator (ECE)

We thank the management and the Principal for their constant and continuous encouragement for providing valuable directions and support in time. Finally the program ended with National anthem.

Coordinators

- 1. Mr.T.Jeyaseelan, AP/ECE
- 2. Mrs.U.Jeyamalar, AP/ECE

**Principal** 

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#### **Report - Special Lecture**

R&D section and ISTE Staff Chapter (TN 205) organized a special lecture "Dos & Don'ts in drafting Proposals" on 16.03.2019. Dr. S. Krishna Kumar, Senior Technical Officer, DRDO, Avadi, Chennai, was resource person. In his lecture, he insisted the staff members to prepare proposals according to the guidelines of the funding agency. In addition, he briefed on the smart technologies and innovations that are deployed for the surveillance of our nation. While concluding, he insisted the staff to advise the students to contribute their technical knowledge in an effective way for the betterment of our Nation.



Dr. S. Krishna Kumar delievering lecture.

Prepared by T.Pasupathi

Principal

#### Registration Form

Workshop on Biomedical Interventions

1. Name (in block letters) :
2. Designation:
3. Institution / Organization:
4. Postal Address:
5, E-mail:
6. Phone No. / Mobile:
7, D.D No
Bank/Branch:

Signature of the applicant

#### Please send your registration form to:

Dept. of Electronies & Communication Engg., Kings College of Engg., Punalkulam- 613303. Phone: 04362 - 282474

#### **Organizing Committee**

Chief Patrons Dr. R. Rajendran Secretary

Mr.T.R.S.Muthukumaar, Chief Executive Officer

Dr. J. Arputha Vijaya Selvi Principal

Co-Patron: Dr.S.Siyakumar Vice Principal

#### Convenor:

Dr. D. Kumar Professor/ECE

#### Co-ordinators:

Mr. T. Pasupathi AP/ECE

Mr. J. Niranjan Samuel JRF/FCF-R&D

Registration fee has to be paid in the form of demand draft drawn in favour of Kings College of Engineering - IEEE Student Branch payable at Thanjavur. Registration fee includes course material lunch and refreshment.

UG/ PG Students : Rs. 600/-: Rs. 800/-Faculty

Last Date for Registration :18.02.2019 Confirmation of Acceptance:22.02.2019

For further information contact: Mr. T. Pasupathi - 98941 04645 Mr. J. Nirarian Samuel - 99947 18168





27th & 28th February, 2019



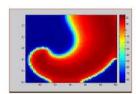


Jointly organised by Department of Electronics & Communication Engg., R&D Section Kings College of Engineering, Punalkulam, Thanjavur - 613303.

out out institution:
ggs College of Engineering (KCE), since its inception in
year 2001, provides quality education to the needy
birants including under-privileged students of this
ion, KCE is approved by All India Council for
chinical Education, New Delhi, affiliated to Anna
niversity, Chennai and is a NAAC accordical institution. e institute offers five UG and four PG programmes uated on the Thanjsvur – Pudukkottai Highway, the KCE campus spreads over 50 acres in a beautiful series atmosphere, ideally suited for technical education with architecturally designed infrastructural facilities.

#### About R & D Section:

The Department of Electronics & Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative research by Anna University, Chennai. A significant number of projects funded by various government and non government funding sectors namely DRDO, MCIT, AlCTE, New Delhi, TNSCST, Chennai, Analog Devices, USA & Texas Instruments, USA are successfully carried out.



#### About the workshop:

The workshop will address the clinical management of Coronary Artery Diseases with newer tools, various ways and means by which information and communication technology applications in health care sector focusing on selective diagnosis, emergency & longterm clinical care to people and the regulatory requirements of medical devices. Machine Intelligence (MI) aims at mining relevant information directly from the derivative physiological data, leads to better performance in comparison to human that is suffered by status of mind and mental variability. Evolutions of new machine learning algorithms are helping the even disrupted pattern of raw physiological data in terms of better classification. MI has been playing many different roles in scientific research and the literature has shown that Artificial Intelligence (AI) is promising in solving complex problems in many applications, particularly in areas with huge amounts of data but very little theory. Thus, it can be supportive to develop new decision support system including the devices. Also this workshop will explore the possibility of reducing the cost & complexity involved in healthcare practices thereby benefiting healthcare professionals and ultimately aims to provide quality healthcare to people at a







Prof/Dept. of Electronics & Commun. Engg. Adithya Institute of Technology. Combatore

Combatore
Highly motivated Professor, Positive apsach, consistently strive to create a challenging and
taging learning environment in which the students
ome Hie long scholars and learners, interested in
tinuing research in Bio medical engineering combined ial intelligence





sultant & Interventional Cardiologist

Chennia Chennia in Cardiology from Madras Medical DM in Cardiology from Madras Medical lelge and Research Institute and over 17 years of a lelley proficient experience in interventional cardiology, stdoctoral Fellowship in National Board (FNB) from corrs Heart Institute, Delh. He is also a Fellow of FESCA (USA). He has performed more in 15000 cardioc carbiterisation procedures till date.

# THE HINDU 12.03.2019 PAGE 5 National Workshop on Biomedical Introductions

Kings College of Engineering at Punalkulam near Thanjavur organised a two-day national workshop on 'Biomedical Interventions' recently. Dr.K.Damodaran, Senior Consultant and Interventional Cardiologist, Apollo Hospital, Chennai, inaugurated the workshop. Dr.J.Arputha Vijaya Selvi, Principal, presided. Dr.S.Baskaran, Biomedical Engineer, Gentech Marketing Pvt.Ltd, New Delhi, Dr. Kiran George, Associate Professor, Electronics and Instrumentation Engineering, Annamalai University and Dr. G.Shanthi, Scientist, Manager Preclinical, Microtherapeutics Research Labs, Chennai, spoke.







#### Report

#### National Workshop on "Biomedical Interventions"

Kings College of Engineering, Punalkulam near Thanjavur organized a two day National Workshop on **Biomedical Interventions** on 27<sup>th</sup> & 28<sup>th</sup> February, 2019. Dr. K. Damodaran, Senior Consultant & Interventional Cardiologist, Apollo Hospital, Chennai, inaugurated the workshop. Dr. J. Arputha Vijaya Selvi, Principal, presided over the function and delivered presidential address. **Dr. K. Damodaran**, in his lecture, stated coronary artery disease develops when the major blood vessels that supply the heart with blood, oxygen and nutrients (coronary arteries) become damaged or diseased. Cholesterol-containing deposits (plaque) in the arteries and inflammation are usually the cause for coronary artery disease. The damage may be caused by various factors, including: Smoking, High blood pressure, High cholesterol, Diabetes or insulin resistance and sedentary lifestyle. To improve the heart healthcare, one should quit smoking, control conditions such as high blood pressure, high cholesterol and diabetes. He also explained about surgical procedure involved in robot assisted cardiac surgery. While concluding his lecture, he said to stay physically active, consume low-fat and lesssalt diet, and consume fruits, vegetables and whole grains and advised to maintain a healthy weight and manage stress.

**Dr. S. Baskaran**, Biomedical Engineer, Gentech Marketing Pvt. Ltd., New Delhi started his lecture with the major instruments used in acquiring bio-signals from human beings. Also he demonstrated the real-time Electro Cardio Gram (ECG) acquisition from one of the participant with four channel data acquisition development device and necessary electrodes. His lecture includes analysis of the acquired data and report preparation for the end user. **Dr. Kiran George**, Assoc. Professor, Electronics and Instrumentation Engineering, Annamalai University, Chidambaram, delivered lecture. In his lecture he briefed about multiscale physiological model of organ system which provides an opportunity for the researcher and clinician in the field of mathematical oncology. While concluding his lecture, he suggested how these new directions could contribute in addressing the current challenges in the field of Biomedical Engineering.

**Dr. G. Shanthi**, Scientist, Manager Preclinical, Microtherapeutics Research Labs, Chennai, delivered a lecture on synthetic biomaterials and its applications, Biocompatibility Regulatory Testing and its biological effects. She concluded her lecture with a case study on biomaterial implantation in animals. **Dr. S. Shanthi**, Professor & Head/ECE, Adithya Institute of Technology, Coimbatore delivered a lecture. In her lecture, she briefed that MI plays various roles in scientific research. Artificial Intelligence (AI) provides promising solutions in solving complex problems in many applications, particularly in areas with huge amounts of data but very little theory. It helps to develop new decision support system including the devices.

A total of 63 participants from various institutions situated at U.T of Pondicherry, Karnataka and Andra Pradesh, Tamil Nadu participated in the programme and got benefitted.



Dignitaries on the Dias



Mrs. N. Mangairyarkarasi, HOD(i/c)/ECE welcoming the gathering



Ceremonial Lighting of the Lamp



Dr. D. Kumar, Professor/ECE introducing
Dr. K. Damodaran, Chief Guest



Dr. J. Arputha Vijaya Selvi, Principal honouring Dr. K. Damodaran, Interventional Cardiologist



Dr. J. Arputha Vijaya Selvi delivering presidential address



Dr. K. Damodaran, Interventional Cardiologist, Apollo Hospital, Chennai delievering Inaugural Address



Dr. K. Damodaran, during invited lecture session



Dr. Kiran George during invited lecture session



Dr. S. Baskar during demonstration session



Dr. G. Shanthi during invited lecture session



Students during the activity session



Participants receiving certificates from dignitaries



Dr. S. Shanthi during invited lecture session



Participant during feedback session



Mr. T. Pasupathi during workshop summary and vote of thanks

## Report Guest Lecture on "Biomedical Image Processing"

Guest Lecture on "Biomedical Image Processing" was organized on 01.02.2019 at Conference Hall. Prof. Eric A. Hoffman, Prof. Emma Stapleton and Prof. Abilash from University of IOWA, IOWA, USA were the resource persons. Prof. Dr. J. Arputha Vijaya Selvi, Principal, gave a warm welcome to the gathering. Prof. A. Hoffman was introduced to the gathering by Dr. S. Sivakumar, Vice Principal. Prof. Eric A. Hoffman and his team was honoured by our Principal and Vice Principal.

Prof. Emma Stapleton, delivered a lecture on "Air Pollution in India". Her lecture was focussed on the effects caused by cooking without ventilation by using wood. Using case studies, she stated that in Tamil Nadu the toxic level is less compared to other states particulary in North India.



Prof. Eric during the lecture



Prof. Emma during the lecture

Prof. Eric A. Hoffman, delivered a lecture on "Evaluation of Pulmonary Effects of Cooking Indoors with Solid Biofuels and Poor Ventilation". In his lecture, he stated that smoking causes severe chronic obstructive lung diseases and other ailments. Besides, the smoke emitted by solid biofuels is equivalent to the side effects caused by smoking in cases of chronic lung diseases. While, concluding his lecture, Dr. Hoffman's briefed on the facilities available at his laboratory, a research dedicated state-of-the-art multi-spectral, multi-detector row spiral CT (MDCT) scanner and an in vivo micro CT scanner. Through a relationship with Siemen's Medical, the MDCT scanner is the state-of-the-art scanner to promote novel lung imaging. Prof. Eric A. Hoffman and his team, responded to the queries raised by the students and staff members. During the response to the lecture, Ms. Mowli, Final year /ECE said that the lecture was an eye opener in the field of Biomedical Instrumentation and students got a deep insight on the topic. The HODs of all departments, senior faculty members and students attended the programme. Dr. D. Kumar, Professor/ECE, coordinated the programme.

PRINCIPAL
Kings College of Engineering
Punalkulam-613 303.









#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### SYMPOSIUM REPORT

The Department of Electronics and Communication Engineering conducted a National Level Technical Symposium on 20.09.2018. This technical symposium e-Blast SLV 2K18 aims at encouraging the participants to explore their technical skills and enhance their conceptual knowledge. Symposium is a platform where students can share their ideas, knowledge and can learn new things.





The event started with the formal inaugural function at 10.30 am in the presence of Head of the Department, Chief Guest Dr.R.Amirtharajan, Associate Professor/SEEE, SASTRA, Thanjavur and Special Invitee Mr.A.Athiraja (Alumni) Assistant Professor/ECE, Rethinam Technical Campus, Coimbatore presided over the function. The function started with "Thamilthai Vazthu" followed by the welcome speech given by President of e-Blast SLV2K18 Mr.J.Tamilselvan, final year student of ECE.



Mr.R.Sathyaraj, symposium Coordinator introduced the chief guest. Mrs.N.Mangaiyarkarasi, Head of our Department, delivered presidential address. Mr.M.Ajay, Vice President of e-Blast SLV2K18, final year ECE Student proposed vote of thanks.



Chief Guest Dr.R.Amirtharajan delivered a talk on "Image Processing". Special Invitee Mr.A.Athiraja addressed the students to get themselves prepared as the Industrial Needs. Students from various colleges from Tamilnadu had participated in Technical and Non Technical Events. A total of 90 students from other colleges participated, out of which 20 students participated in paper presentation, 24 students participated in Inquizitive, 23 students participated in Techno Bond, 23 students participated in Brainstroming Circuits. A total number of 120 students (internal & external) participants participated in 10 different Non-Technical Events. At the end of the Session, students from other colleges shared their experience about e-Blast SLV2K18.



Valedictory function was conducted and Cash Prizes with medals were distributed to the winners of Technical Events. Winners of Non Technical Events were appreciated with Prizes. The event was concluded by thanking management, Secretary, Principal, Vice Principal, HOD, Faculties, Non teaching staff and all student coordinators who worked for this event to make this event a grand success.









## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2017-2018 (ODD SEMESTER) NATIONAL LEVEL TECHNICAL SYMPOSIUM (eBLAST2k17)

Date: 01/09/2017 Venue: AV Hall

#### **REPORT**

Department of Electronics & Communication Engineering of Kings College of Engineering, Punalkulam, organized National Level Technical Symposium, e-BLAST2k17, on 01.09.2017. The objective of the symposium is to share the technical knowledge among students of various Engineering colleges all over India. Mr.A,Aravind Amstrong, President, e-BLAST2k17, delivered the welcome address. Final year student, Ms.S.Priyadharshini, Vice-President, introduced the Guest of Honour. Dr.A.Amuthasurabi, Prof & Head, Indian Institute of Food Processing, Thanjavur was the Guest of Honour and delivered inaugural address. In his address, he briefed about "80-20 Policy". Mrs. T.Shanthi, Associate Professor/ECE, Kings College of Engineering felicitated. 30 papers were received and 20 papers were selected for presentation after scrutinization. 40 students from various colleges participated and presented their papers pertaining to Electronics and Communication Engineering. 30 students participated in non-technical events.



Gathering of Participants and Students



Chief guest introduction was delivered by Ms.Priyadharshini, Vice-President



Honoring the guests by **Dr.J.Arputhavijayaselvi**, HOD/ECE, and Prof.T.Shanthi.



Inaugural Address by **Dr.A.Amuthasurabi** 



Felicitation Address by Mrs.T.Shanthi, Associate professor/KCE

e-BLAST2K17 Souvenir was released by **Dr.A.Amuthasurabi**, Prof and Head, IIFPT, Thanjavur and received by **Dr.T.Jayasankar** Assistant professor, Anna university, Thiruchirappalli.



Souvenir released by Dr.A.Amuthasurabi and received by Dr.T.Jayasankar.

On this occasion, an Intradepartmental Mini Project Expo was organized to enable the students to exhibit their talents in the form of projects related to Water level alarm, Automatic plant irrigation system and Electronic Eye controlled security system. About 37 (second year and third year) students participated in the exhibition. 16 projects were exhibited; students explained the working principle of their projects and demonstrated.



**Dr.R.Rajendran**, Secretary, Kings college of Engg and **Dr.J.Arputha Vijaya Selvi**, Principal, Kings College of Engg viewing the project exhibition

Final year student, Mr.N.Aravind, Treasurer, e-BLAST2k17, delivered the Vote of Thanks. Finally, Mr.R.Ponni, AP/ECE Coordinator of e-BLAST2K17, expressed thanks to the Management, CEO, Principal, Vice- Principal, Teaching and Non teaching staff members, students of ECE and the participants from various colleges for the grand success of e-BLAST2K17.



Prize and certificates distribution to the Technical events participants by **Dr.J.Arputha Vijaya Selvi**, Principal,KCE



Prize and certificates distribution to the paper presentation participants by **Dr.J.Arputha Vijaya Selvi**, Principal,KCE

#### Continue:

#### The servinar focusion on:

- · Definition of Research
- · Research therese sounds
- · Citation writing practical
- · Experiments and Analysis
- · Research article writing
- Language issues
- · Plagration
- · Presentation

#### Resource Persons:

Foculties from reputed institutions like Nills and Faculty of Kings College of Expineering.

#### Registration fees

Spot registration is permitted. Scarned copy of the registration form must be sout through c-muil on/or before 28.01.2018.

HEE Members Non-IEEE Member

Rs 100 Rx 240

The registration fee includes course marginal, lanch and netrostenent.

#### Transport:

Porticipants can avail the transport facilities of the college.

#### Chief Parrent

De R. Rajendran Secretary

McT.R.S.Methokumaar, voc., Chief Expostive Officer

Dr. J. Asputha Vijaya Selvi. Principal

#### Co.Patron

Dr.S. Sivakuenae Vice Principal

#### Coordinature

Mr. T. Passpatte APPECE - RAD

Mr. J. Niranjan Samuel BERRAD!



#### Please mail your registration from to:

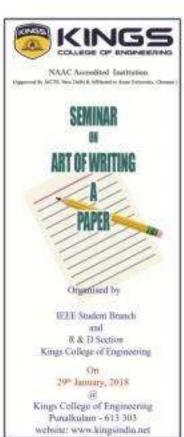
The Coordinator,

Somerur on Art of Writing a Paper, R & D Section, Kings College of Engg. Panalkolum-613103.

Phone: 84362 - 382474

#### For further information coomet 1

Mr. T. Pangushi 98941 04645 Mr. J. Nirarjan Samuel - 99947 18168



#### About our Institution:

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 of Technical Education, New Delhi (AICTE) and in affiliated to Anna Uteversity. Cisconni. The institution was established in the year 2001 on a sprawling campus of around 60 scres on the Thanpour-Pudukkottai Highway and run by Raj Educational Trust (RET). The institution offers six U.G and four P.G programmes and centified with ISO 9001:2008. The state of the art teaching methodologies are used to inspert high quality education to the students including e-laiming.

#### About B. & D Section:

Department of Electronics & Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative resparch by Anna University, Cheenai, A significant number of projects funded by various povernment and non government funding sectors noncely

DRDO.

MCCC.

AICTE, New Delhi.

TNSCST, Chermai,

Analog Devices, USA &

Texas Instruments, USA are successfully carried dist.

Faculty members are encouraged to participate in the faculty development programs, workshops and seminars organized by other institutions in their research area as a step towards strengthening their domain knowledge.

#### About the seminar;

Writing a scientific research paper is a prerequiste for undertaking research. Substantial research effort is required to draft a scientific research paper by researchers. However scholars do not know how to draft a puper with the experimental results, auguired by the poor reviewed journals leading to rejection. Writing a research paper is an knowledge basef skill.

This seminar offers a platform for the scholars to corich their art in writing research papers. This workshop helps to emphasize the value of research and enables them to have an opportunity to publish their research findings in journals and understand the best practices of publishing Journal papers.

#### Target Audience:

The seminar is open to Faculty Members. Students, Research Scholars and persons working in R&D Department and Industries.

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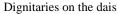
#### R & D Section and IEEE STB

#### Seminar on "Art of Writing a Paper"

A Seminar on "Art of Writing a Paper" was organized on 29<sup>th</sup> January, 2018. Mr. T. Pasupathi, AP/ECE, welcomed and introduced the resource person to the gathering. Dr. J. Arputha Vijaya Selvi, Principal and IEEE SBC presided over the function and delivered presidential address. In her presidential address, she briefed the importance of research for students of engineering and technology. Also, she insisted the participants to undertake research and publish their findings in conferences and reputed journals and stressed that the research paper should reveal the uniqueness of the work carried out and clearly describe the strategies adopted in the work.

Dr. S. Bharathi Raja, Principal, Indra Ganesan College of Engineering, Tiruchirappalli, delivered inaugural address. In his address, he stressed on the importance of doing research. During the session I, he delivered talk on "Research to Reward". In his lecture, he briefed on the methods of research: Scientific method, Engineering method, Empirical method and Analytical method. Also he explained the steps involved in research: Literature survey, open problem, need for present research, experimentation, analysis, validation and results & discussion.







Dr. S. Bharathi Raja delivering inaugural address

In addition, he advised the students to refer 'www.issn.org' which reveals the format of universally accepted research papers. Also, he stressed the importance of literature survey and points to be cited as: what author did, what methodology has been followed and results of the research work. Finally, he shared how to make an attractive power point presentation and intellectual property rights.



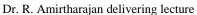


A view of the participants

One of the participant sharing the feedback

Dr. R. Amirtharajan, Associate Professor/SEEE, SASTRA University, Thanjavur delivered talk on "How to make an effective oral presentation without Plagiarism" during session-II. In his lecture, he briefed about making an effective presentation with case study on "Image steganography". During his lecture he demonstrated freeware plagiarism/grammar checking tools.







Dr. R. Amirtharajan issuing certificates to the participants

Dr. S. Sivakumar, Vice Principal presided over the valedictory function. Dr. R. Amirtharajan, issued certificates to the participants. Ms. Jaishree, student III ECE delivered vote of thanks. The programme was concluded with national anthem.

Coordinators

Principal

## <u>Department of Electronics and Communication Engineering</u> <u>Report - One day Workshop on "Internet of Things using Arduino and Raspberry Pi"</u>

Department of Electronics and Communication Engineering and IEEE Student Branch of our college organized a **One Day Workshop on "Internet of Things using Arduino and Raspberry Pi"** on 20th March, 2018, where 84 students and 4 faculty from various Engineering colleges gained knowledge. The objective of the workshop is to provide Hands-on training on IoT. Participants learnt and practically embedded programs to Arduino and Rasberry Pi board. Students gained much more knowledge about practical implementations of IoT under the guidance of our resource person **Mr. A.Jeevanantham, Assistant Professor/Information Technology, Kongu Engineering College,** Perundurai.

#### **Coordinators:**

- 1. Mr.T.Pasupathi, Assistant Professor/ECE
- 2. Mr.A.Herald, Assistant Professor/ECE

#### **Inaugural Session:**

The dignitaries on the Dais during the inaugural session were Dr.T.Shanthi, Project Officer, Mrs. N. Mangaiyarkarasi, Ac. Coordinator / ECE and Mr.T.Pasupathi, AP/ECE. The program was started with Thamizh Thaai Vaazthu followed by welcome address delivered by Mr.T.Pasupathi, AP/ECE. Dr. T. Shanthi, Project officer, delivered the presidential address, she briefed the technologies used in our day today life and the overview of IoT devices in various applications. Mr. A.Jeevanantham, Assistant Professor/Information Technology, Kongu Engineering College, delivered the inaugural address. Mrs.N.Managaiyarkarasi, Ac.Coord, delivered felicitation address. She briefed the objectives and scope of the workshop.



Welcome Address by Mrs. T.Pasupathi



Presidential address by Dr. T.Shanthi

#### Session 1- Overview of Internet of Things.

During the session, Mr. A.Jeevanantham, AP/IT, KEC, Perundurai, discussed real life use cases on IoT application and make the session really interactive by providing an opportunity to suggest a solution to real life scenario.





Inaugural address by Mrs.N.Mangaiyarkarasi

View of Participants

#### Session 2- Hands on training on IoT platform using Ardiuno and Rasberry Pi.

The second session of workshop was planned to provide hands on experience with IoT device and application. Participants were introduced to the Arduino and Rasberry Pi concept from a programming point of view and its relevance to IoT device. All the participants participated in coding for accessing IoT device through android application.



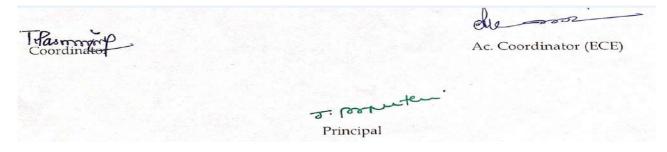
Mr. A. Herald delivering vote of thanks



Dignitaries issuing certificate to the participants

#### Valedictory Function:

The participants shared their feedback about the training programme. Dignitaries, distributed the certificates to the participants. Mr. A. Herald, AP/ECE delivered the vote of thanks. Finally the program ended with National anthem.



#### **Department of Electronics and Communication Engineering**

#### Report - One Day Training on Electronic System Design for Polytechnic Students

**Department of Electronics and Communication Engineering** and **IEEE Student Branch** of our college organized a **One Day Training on Electronic System Design for Polytechnic Students** on 28<sup>th</sup> February, 2018. The objective of this training program is to help the students to carry out their projects and develop their own applications using embedded systems.

#### Resource persons:

- Mr. T. Pasupathi, AP/ECE, KCE
- Mr. T. Jeyaseelan, AP/ECE, KCE
- Mr.P.Rajasekar, Project Engineer, V3 Technologies, Thanjavur.

#### **Coordinators:**

- 1. Mr.P.Raja Pirian, Assistant Professor/ECE
- 2. Mr.T.Pasupathi, Assistant Professor/ECE
- 3. Mr.A.Herald, Assistant Professor/ECE

#### **Inaugural Session:**

The dignitaries on the Dais during the inaugural session were Dr.J.Arputha Vijaya Selvi, Principal, KCE, Mrs. N. Mangaiyarkarasi, Ac. Coordinator / ECE and the Program Coordinator. The program was started with Thamizh Thaai Vaazthu followed by welcome address delivered by Mrs.N.Mangaiyarkarasi, AP/ECE. Dr. J. Arputha Vijaya Selvi, Principal delivered the inaugural address. In her inaugural address, she advised the students to do their projects on their own. Also she insisted the students to continue their career by proceeding with undergraduate, post graduate and to end by completing their doctor of philosophy. While concluding, the major devices and technology used in our day today life employ embedded systems and ask the participants to utilize their knowledge to create such applications.



Welcome Address by Mrs. N. Mangaiyarkarasi

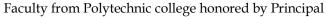


Inaugural Address by Dr. J. Arputha Vijaya Selvi

## Session 1- Overview of Electronic System Design using Case Study by Mr.T.Pasupathi, AP/ECE, KCE.

During the session, the resource person shared the need for embedded systems in our daily life. Also he explained the design of electronic systems using various methods. A case study on various applications using embedded systems was demonstrated.







Mr. T. Pasupathi delivering lecture

#### Session 2- Applications of Embedded Systems by Mr.T.Jeyaseelan, AP/ECE, KCE.

During the session, the resource person shared the applications of embedded system with suitable examples. Also he shared his experience in designing a embedded system for various applications and the challenges faced during development.



Mr. T. Jeyaseelan delivering lecture



Mr. P. Rajasekar delivering lecture

#### Session 3- Electronic System Design - Demonstration by Mr.P.Rajasekar, V3 Technologies.

During the session, the resource person started with the origin of embedded systems. Also he briefed on the generation of microcontroller and the processor available in the market. He listed the various I/O devices with examples in real-time. He gave a demonstration of hand held gadget for the differently abled using various sensors and design aspects.

#### **Valedictory Function:**

The participants shared their feedback about the training programme. Dr. S. Sivakumar, Vice Principal, KCE delivered the valedictory address. In his valedictory address, he advised to refer the four major key hand books required for electronic design engineers. The dignitaries issued certificates to all the participants. Mr. A. Herald, AP/ECE delivered the vote of thanks. Finally the program ended with National anthem. Sixty students along with three faculty members from various polytechnic colleges participated and got benefited.



A view of the participants



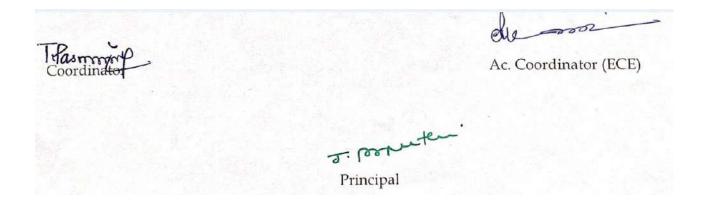
Dr. S. Sivakumar, issuing certificate to the participants



Dr.S. Sivakumar delivering valedictory address



Mr. A. Herald delivering vote of thanks







### **REPORT**

One Day (09-03-2018)

# Workshop on CAD for VLSI

**CO** ordinators

Mr.W.Newton David Raj AP/ECE
Mr.P.Raja Pirian AP/ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING KINGS COLLEGE OF ENGINEERING PUNALKULAM

One day work shop on CAD for VLSI organized by department of Electronics and communication engineering held on 09-03-2018, to motivate the students to involve them in VLSI Domain and also the students got more ideas about tools used in CAD. Dr.M.Joseph, Principal. St.Joseph College of Engineering and Technology, Thanjavur & Mr.T.Pasupathi AP/ECE, Kings college of Engineering were the resource persons.



The workshop was begins at 10.10a.m, Mr.P.Raja Pirian AP/ECE welcomes the resource person and the gathering, followed by Mr.W.Newton David Raj AP/ECE introduced the chief guest, Mrs.T.Shanthi, Project officer delivered the inaugural address after that the chief guest was honored by Mrs.T.Shanthi. Finally Dr.M.Joseph delivered the chief guest address. Immediately the 1<sup>st</sup> session begins with a Lecture on Introduction to CAD for VLSI by Dr.M.Joseph. After the Lunch break The 2<sup>nd</sup> session was continued by Mr.T.Pasupathi AP/ECE at VLSI lab with CAD tools. The students were actively involved in the entire sessions. The program ends with valedictory.

Nearly 41 students were participated in the workshop; 28 students from our college and the remaining participants from KSK Engineering college and Vandaiyar engineering college.

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2016 – 17

Circular

Date: 21.07.2016

This to inform that the ECE department has arranged a seminar on the title "Embedded Real Time Operating System and its applications" for the final year ECE students on 29th July 2016. All the final year students have to attend the seminar to enrich their knowledge in embedded system.

Resource Person:

B. Jothi

CRG Engineer (Core Research Group) Prolific Systems & Technologies Pyt.

Chennai

Venue:

Pallava Hall

Time:

3.00p.m. - 4.30p.m.

Coordinators

(Mr.T.Jeyaseelan) (Mrs.P.Geethabai) HOD/ECE

(Dr.J.Arputha Vijaya Selvi)

IV B - Sopran







## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2016 – 2017

#### REPORT

Seminar on - "Embedded Real Time Operating System and its applications"

Venue: Pallava Hall Date: 29.07.2016

Department of Electronics and Communication Engineering has organized a seminar on "Embedded Real Time Operating System and its applications" for the final year ECE students of strength 124 on 29.07.2016 (Friday) at Pallava Hall @10.30 a.m. Mr.T.Jeyaseelan AP/ECE and Mrs.P.Geethabai AP/ECE has coordinate this event.



The event coordinators Mr.T.Jeyaseelan and Mrs.P.Geethabai with the Resource person Mr.Jothi,CRG Engineer,PROLIFIC on the Dias

The event was started at 10.30a.m. with the welcome address delivered by Mrs.P.Geethabai AP/ECE, followed by the introducing and honoring of the Resource person by Mr.T.Jeyaseelan AP/ECE. Then the session was handed over to the resource person.



Mr.T.Jeyaseelan introducing the Resource Person



Mr.T.Jeyaseelan honoring the Resource Person



Mr.T.Jeyaseelan honoring the Resource Person with the memento

Mr. B. Jothi, CRG Engineer, PROLIFIC, Chennai was the Resource person. He delivered lecture on microprocessor and microcontroller and their differences, on embedded system, on recent protocols in real time applications and their usages.



The Resource person Mr.Jothi on delivering the lecture

The session was very interacting and interesting for the students. The session came to an end at 12.30p.m. with the feedback delivered by the students.



Final year ECE students at the seminar

The event ended with the delivery of vote of thanks by Mrs.P.Geethabai,AP/ECE, Thanking the Management, Principal, Accounts Officer, Dean R&D/HOD-ECE for granting permission to conduct this event and providing SFRDS.

Coordinators

(Mr. T. Injascolan)

- 1to P. (teetRabou)

#### **About the Institution**

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 (AICTE), New Delhi and is affiliated to Anna University, Chennai. The institution was established in the year 2001 on sprawling campus of around 60 acres on the Thanjavur -Pudukkottai Highway and run by Raj Trust (RET), Educational Chennai. institution offers six UG and five PG progrommes and certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

#### **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 nongovernment organizations viz. DRDO, MCIT, AICTE New Delhi, TNSCST, Chennai and Texas Instruments USA have been successfully carried out.

#### **About the Conference**

The National Conference on Signal Processing & VLSI Design (NCSPVD'16) is to provide a forum for presenting and discussing new design, issues and novel methods and alternative technologies in the area of signal processing and VLSI Design. It provides a platform for students, research scholars, academicians and industry professionals for sharing and exploring new areas of research and development. It will feature keynote lectures by renowned academicians to enhance their knowledge in the area of Signal Processing, VLSI design and other related fields.

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#### **Topics**

- Ad Hoc / Sensor Networks
- Antenna & Wave Propagation
- > ASIC Design
- Biomedical Imaging
- > CAD VLSI
- ➤ Embedded/RTOS Applications
- > Image/Video Processing
- ➤ Low Power VLSI/VLSI Testing
- Mobile/ Satellite Communications
- Nano Electronics
- > Network Security and Management
- > Pattern Recognition
- RF Design & Microwave Communication
- Soft Computing Techniques
- VLSI/Reconfigurable Architectures
- Wavelet Transform & Applications
- Wireless Communications

#### **Paper Format**

Full Paper not exceeding 5 pages should be submitted in IEEE double column format (soft copy in MS-Word as E-mail attachment). After acceptance, 2 hard copies of the paper along with Registration Fee in the form of Demand Draft should be submitted.

#### **Organizing Committee**

#### **Chief Patron**

Smt. Sharmila Rajaa B.E.,

Chief Financial Officer

Mr. T.R.S. Muthukumaar M.B.A.,

**Chief Executive Officer** 

#### **Patron**

Dr. S. Durairaj B.E., M.E., Ph.D., PDF.,

Principal

#### Co-Patron

Dr. S. Sivakumar

Vice Principal

#### **Conference Chair**

Dr. J. Arputha Vijaya Selvi

HOD(ECE) & Dean

#### **Organizing Secretaries**

Mr. P. Raja Pirian, AP/ECE

9994009225

Mrs. N. Mangaiyarkarasi, AP/ECE

#### **Advisory Committee**

Dr. T. Srinivas, IISc, Bangalore

Dr. S. Raghavan, NIT, Tiruchirappalli

Dr. D. Kumar, PMU, Thanjavur

Dr. P.S. Kannan, KCE, Punalkulam

Dr. J. P. Lancelot, IIAP, Bangalore

#### **Technical Committee**

Dr. D. Sriramkumar, NIT, Tiruchirappalli

Dr. A. Balaji Ganesh, VEC, Chennai

Dr. R. Amirtharajan, SASTRA, Thanjavur

Dr. A. Arockia Bazil Raj, DIAT, Pune

Dr. S. Suganthi, Christ University, Bangalore

#### **Registration Fee**

PG students : Rs.500/-

Faculty Members/

Research Scholars : Rs. 1000/-

Others participants : Rs. 300/-

• Selected Papers will be published in International Journal of Engineering Research and Technology

#### **Important Dates**

Submission of Full Paper : 11.11.2016

Notification of Acceptance : 18.11.2016

Last date for registration : 03.12.2016

#### **Contact Address**

The Convenor-NCSPVD'16

Dept. of ECE

Kings College of Engineering

Punalkulam, Thanjavur

e-mail: ncec@kingsindia.net

#### National Conference on Signal Processing and VLSI Design

28<sup>th</sup> December 2016

Organized by

**Department of Electronics and Communication Engineering** 





#### KINGS COLLEGE OF EGINEERING

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(Approved by AICTE, New Delhi & Affiliated to

Anna University, Chennai)

Phone: 04362-282474, 282395

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## **Department of Electronics and Communication Engineering National Conference on Signal Processing and VLSI Design**

A detailed report on the National Conference on Emerging Trends in Signal Processing and VLSI Design, (NCSPVD-2016)

**NCSPVD-2016** was organized by department of ECE and technically sponsored by IETE. A target of 50 papers was set, out of which 40 quality papers would be selected. Enthusiastic response was received all around 45 full manuscripts were uploaded on Easy Chair. 40 papers were accepted after a rigorous review, making it very selective. 40 accepted papers were distributed for 2 Oral Sessions.



Lighting the lamp



Welcome address by Dr.S.Sivakumar, Vice Princiapl



Honoring the chief guest Dr.S.Devaraj by Dr.S.Sivakumar



Dr.S.Sivakumar honoring Dr.R.Vimalathithan

#### Inauguration

NCSPVD-16 commenced with formal registration. Inaugural ceremony was initiated with prayer song. **Dr S.Sivakumar, Vice Principal and Conference Chair,** welcomed the gathering followed by lighting of ceremonial lamp by the dignitaries. Dr.J.ArputhaVijaySelvi, HoD/ECE honored the guests.





Dr. J. Arputha Vijaya Selvi giving memento to Dr.S.Devaraj

Dr. J. Arputha Vijaya Selvi giving memento to Dr.R. Vimalathithan



Release of the Hardcopy of proceedings

Hard copy of the Conference Proceedings was released by the special guest **Dr.R.Vimalathithan** received by **Dr.S.Devaraj Dean, Kalasalingam University.** Soft copy of the Proceeding was released by **Dr.S.Devaraj received by Dr.S.Durairaj, Princial Kings college of Engineering.** 

**Dr.S.Durairaj,Principal, Kings College of Engineering**, presided over the function and delivered the presidential address. He insisted the importance of conference and asked the authors to involve in the research.

Mrs.A.Praba Assistant Professor/EEE Introduced the chief guest **Dr.D.Devaraj Dean/Academics/EEE**, **Kalasalingam University**, **Krishnanakovil**. Dr.D.Devaraj delivered the inaugural address. He insisted the authors to involve in research and find a solution to balance production and demand in electricity.

Mr.P.Raja Pirian Assistant Professor/ ECE Introduce the special guest Dr.R.Vimalathithan Professor/ECE, Karpagam College of Engineering, Coimbatore. Dr.R.Vimalathithan delivered the Felicitation address.



Release of the softcopy of proceedings



Dr.S.Durairaj, Principal, Kings College of Engineering delivering Inaugural

Address

After a high tea, Dr.R.Vimalathithan delivered akeynote speech on the title "Smart City".

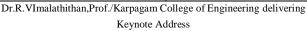


Dr.S.Devaraj, Dean/EEE, Kalasalingam University delivering Chief Guest Address



Dr.R. Vimalathithan, offering felicitations







Followed by keynote address, the papers were distributed to 2 oral sessions. Session-1 was conducted at Chera hall, Prof.T.Shanthi and Mrs.V.Filomin Joseena AP/ECE was the juries. And the session-2 was conducted at DSP lab, Mr.T.Jeyaseelan and Mrs.N.Mangayarkarasi was the juries.

After a tea break the valedictory session was started Dr.J.Arputha Vijaya Selvi HoD/ECE, delivered the summary of the National conference. Certificates were issued to the authors, those who were presented papers. Finally Mrs.N.Mangayarkarasi AP/ECE delivered the valedictory address and the session was end with National Anthem.



Punalkulam

#### CCEEM TECH EXPO'2K17

31st March, 2017

## Agenda

01.30 p.m. to 02.15 p.m. Registration

02.30 p.m. to 03.45 p.m. Demonstration & Evaluation

03.45 p.m. to 04.00 p.m. Tea Break

04.05 p.m. to 04.30 p.m. Prize distribution

Sulveitted to Principal.







#### R & D Section

#### **CCEEM2K'17 TECH EXPO**

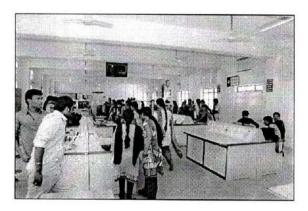
CCEEM2K'17 Tech Expo was jointly organized by Research & Development Section and IEEE Student Branch (STB16621) on 31<sup>st</sup> March, 2017. It was formally inaugurated by Dr. J. Arputha Vijaya Selvi, Dean (R&D).





A view of the projects displayed at the Project EXPO





Experts reviewing the projects displayed





Experts reviewing the projects displayed

Students of various streams of engineering from institutions all over the state came out with working models and exhibited them. A team of experts reviewed the projects based on Innovation/ Novelty, Working model/ Simulation result and Relevance to the field / social needs.

civil won by Kings College of Engineering for the project titled 'Behaviour of Expanded Polystyrene Brick', Best Domain Award – CSE won by Mepco Schlenk Engineering College, Sivakasi for the project titled 'Efficient Scientific Workflow Scheduling in Multitenant Cloud Environment', Best Domain Award – ECE won by P.R. Engineering College, Thanjavur, for the project titled 'Base Transceiver Station with Auto Power Generation using Renewable Energy Sources', Best Domain Award – EEE won by Kings College of Engineering for the project titled 'Homemade Gyromill Power Generation (HGPG)', Best Domain Award – MECH won by Kings College of Engineering for the project titled 'Extraction of Hydrogen from Water from Carbon Graphite Method and used as a Fuel',. The First prize was won by the team from civil engineering, Kings College of Engineering for the project titled 'Experimental Investigation of Influence of Marble Powder on Concrete as Partial Replacement of Cement' and Second prize was won by the team from Mepco Schlenk Engineering College, Sivakasi for the project titled 'Efficient Scientific Workflow Scheduling in Multitenant Cloud Environment'.



Team receiving First Prize from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – Civil from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – ECE from Dr. J. Arputha Vijaya Selvi



Team receiving Second Prize from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – EEE from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – Mechanical from Dr. J. Arputha Vijaya Selvi

Mr. T. Pasupathi, AP/ECE proposed Vote of Thanks. .

## List of Institutions - Participated

Internal		External		
•	Kings College of Engineering	•	Mepco Schlenk Engineering College,	
	<ul> <li>Civil – 08 (31 students)</li> </ul>		Sivakasi - 01 batch (03 students)	
	o CSE – NIL	•	P.R. Engineering College, Thanjavur – 05 (17 students)	
	o ECE – 05 (20 students)		Arasu Engineering College,	
	o EEE – 04 (12 students)		Kumbakonam - 01(03 students)	
	o MECH -04 (14 students)	•	Government College of Engineering,	
			Sengipatti -02 (07 students)	

## Income & Expenditure

Income	INR	Expenditure	INR
Registration Fees: Rs.300 x 30	9000	I Prize	1000
		II Prize	500
		Best Domain Rs. 500 x 4	2000
		Flex	600
		Certificate	1125
		Refreshment	800
Total	9000	Total	6025

Coordinator

J. Porautui 17

Principal

#### Contents:

- Problem Identification
- Planning the prerequisites
- Methodology for research
- Concepts of Validation
- · Analysis of results and concluding remarks
- Overview of statistical analysis tools

### Resource Persons:

Dr. A. Vasumathi, Assistant Professor.

VIT Business School,

Vellore.

Faculty of Kings College of Engineering.

## Registration fees:

Spot registration is permitted. Scanned copy of the registration form must be sent through e-mail on/or before 20.02.2017.

Registration Link: https://goo.gl/forms/6xHzGo5KL6ND7KVn1

IEEE Members : Rs.200 Non IEEE Member : Rs.300

The registration fee includes course material, lunch and refreshment.

## Transport:

Participants can avail the transport facilities of the college.

#### **Chief Patrons:**

Mr.T.R.S.Muthukumaar. MBA, Chief Executive Officer

#### Patron:

Dr.S. Durairaj, B.E., M.E., Ph.D., PDF., Principal

#### Co-Patron:

Dr.S.Sivakumar, B.E., M.Tech., Ph.D., Vice Principal

#### Convenor:

Dr. J. Arputha Vijaya Selvi, B.E., M.E., Ph.D., Dean (R & D)

#### Coordinator:

Mr. T. Pasupathi, M.E., (Ph.D)., AP/ECE - R&D

Mr. A. Herald, M.E., (Ph.D)., AP/ECE



## Please mail your registration form to:

The Coordinator,

Workshop on Research Methodology & Statistical Tools for Research.

R & D Section, Kings College of Engg., Punalkulam- 613303.

Mobile: 04362 - 282474

#### For further information contact:

Mr. T. Pasupathi - 98941 04645 Mr. A. Herald - 94868 02587

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#### NAAC Accredited Institution

(Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai)

Workshop on Research Methodology

&

Statistical Tools for Research



Organised by

IEEE Student Branch and R & D Section Kings College of Engineering

> On 25<sup>th</sup> February - 2017

Kings College of Engineering Punalkulam - 613 303

website: www.kingsindia.net

#### About our Institution:

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 of 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 certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

#### About R & D Section:

Department The of Electronics Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative research by Anna University, Chennai. A significant number of projects funded by various government and non government funding sectors namely DRDO, MCIT, AICTE, New Delhi, TNSCST, Chennai, Analog Devices, USA and Texas Instruments, USA are successfully carried out. Faculty members are encouraged to participate in the faculty development programs, workshops and seminars organized by other institutions in their research area as a step towards strengthening their domain knowledge.

#### About the workshop:

The aim of this workshop is to provide an initiative towards the complex research methods, either pursuing or planning to initiate research in any area of engineering. The orientation of the workshop is aimed towards understanding research in multiple perspectives and helps the participants to acquaint with recent developments.

## Eligibility:

The workshop is designed to cater to the needs of research scholars, final year UG/PG students and faculty members in engineering, science and management and allied fields pursuing or aspiring to do research.

#### Outcome:

The participants will get a hands-on-session and will learn how to carry out statistical data analysis using them. By the end of the programme they will be able to develop their conceptual clarity and practical knowledge to run the software for analysis and interpreting the data for their research.



## Kings College of Engineering Punalkulam - 613 303 Workshop

on

"Research Methodology & Statistical Tools for Research"

#### Registration Form

Please fill this form and send it to us by email randd@kingsindia.net

- 1. Name (in block letters) :
- 2. Qualification
- 3. Designation
- 4. Institution / Organization
- 5. Address for Communication:
- 6. Phone No. / Mobile :
- 7. E-mail:

Signature of the applicant

#### KINGS COLLEGE OF ENGINEERING

## Department of Electronics and Communication Engineering

#### **IEEE STUDENTS BRANCH STB 16621**

#### Workshop on "Research Methodology and Statistical Tools for Research"

IEEE Student Branch and R & D section organized a one day workshop on "Research Methodology and Statistical Tools for Research" on 25<sup>th</sup> February, 2017. Dr. J. Arputha Vijava Selvi, IEEE SBC & Dean (R & D) welcomed the gathering. Dr. A. Vasumathi, Professor & Programme Coordinator-MBA, VIT Business School, VIT University, Vellore delivered inaugural address. In her inaugural address, she briefed the three essentials for doing research: Hard work, Punctuality and Dedication. Also she stressed the importance of publishing the findings in reputed journals and research work should be time bound. Dr. A. Vasumathi, gave an introduction on using IBM SPSS for statistical analysis. A hands-onsession on using IBM Statistical Package for the Social Sciences (SPSS) for analyzing results obtained during experimentation was given. An empirical study on "The impact of Emotional Intelligence on Work Life Balance among the Faculty Members' Performance in the Educational Institutions, Tamil Nadu, India" was briefed. During the hands-on-session analysis, the above study was carried out using the questionnaire and datasets. During Session – II **Dr. V. R. Sarma Dhulipala**, Assistant Professor, AU BIT Campus, Trichy delivered lecture on "Research in Modern Era". In his lecture, he briefed about Systematic - research process, Logical - induction/deduction, Empirical - evidence based, Reductive generalisation and Replicable - methodology. During the session III Dr. V.R. Sarma Dhulipala Tiruchirappalli, delivered lecture on "Paper Writing: Nitty - Gritty". In his lecture, he briefed that the title of the paper should be catchy, conceptual and scientific. He stressed the importance in writing abstract of the article and choosing keywords. He discussed that result and analysis part should be graphically illustrated and not descriptive. Dr. V.R. Sarma Dhulipala presided over the valedictory function issued the certificates to the participants. Ms. E. Suganya, Asst.Prof, R&D proposed the vote of thanks. 14 delegates from other institutions and 13 internal participants attended the workshop. The workshop was concluded with National Anthem.



**Dr. A. Vasumathi,** Professor & Programme Coordinator-MBA, VIT Business School, VIT University, Vellore during the hands-on-session



Dr. V. R. Sarma Dhulipala, Assistant Professor, AU BIT Campus, Trichy delivering lecture

Reported by T.Pasupathi, AP/ECE Kings College of Engineering, Punalkulam, Pudukkottai Member ID: 90234387 vijayas\_02@yahoo.co.in









# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## **REPORT**

One Day
National level technical symposium
e BLAST 2K16

On 17/09/2016

## **Guest of Honour**

Dr. S.P.Subramaniyan.

Deputy Controller of Patents & Designs and Head of Office, Chennai

## **Felicitations**

Dr. P. Muthuchidambaranathan Associate Professor, NIT , Tiruchirapalli.

## **Coordinators**

Mr.R.Balakrishnan, AP/ECE Mr.W.Newton David Raj, AP/ECE







# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2016-2017 (ODD SEMESTER)

### NATIONAL LEVEL TECHNICAL SYMPOSIUM (eBLAST2k16)

Date: 17/09/2016 Venue: AV Hall

## **REPORT**

Department of Electronics & Communication Engineering of Kings College of Engineering, Punalkulam, organized National Level Technical Symposium, e-BLAST2k16, on 17.09.2016 (Saturday). The objective of the symposium is to share the technical knowledge among students of various Engineering colleges all over India. Dr. S.P. Subramaniyan, Deputy Controller of Patents & Designs and Head of Office, Patent Office, Chennai, was the Guest of Honour and delivered inaugural address. Dr.P.Muthuchidambaranathan, Associate Professor, National Institute of Technology, Tiruchirappalli, felicitated. 75 papers were received and 67 papers were selected for presentation after scrutinization. 54 students from various colleges participated and presented their papers pertaining to Electronics and Communication Engineering. 40 students participated in non-technical events. Final year student, Mr.V.Rajarajan, President, e-BLAST2k16, delivered the welcome address. Dr.J.Arputhavijayaselvi, Dean and HOD / ECE introduced the Guest T. Honour, Dr.S.P.Subramaniyan, and Prof. Shanthi, introduced Dr.P.Muthuchidambaranathan.



Welcome address delivered by Mr.V.Rajarajan, President of eBLAST2K16



Chief guest introduction was delivered by Dr.J.Arputhavijayaselvi, HOD of ECE





Honoring the guests by Dr.J.Arputhavijayaselvi, HOD/ECE, and Prof.T.Shanthi.

Citing the vision of Karikal Chozhan, who built the Grand Anicut, one of the oldest water-diversion / water-regulator structures in the world, Dr. A.P.J. Abdul Kalam's India vision 2020 and Shri. Narendra Modi's Clean India mission, Dr.S.P.Subramaniyan, stated that for industrial development innovations should be patented. Technology should not be borrowed and knowledge based innovations should be protected. Also, he pointed out that, 45,000 patent applications are filed in India every year. He also called for patenting incremental innovations.



Inaugural Address by Dr.S.P.Subramaniyan



Felicitation Address by Dr.P.Muthuchidambaranathan

Dr.P.Muthuchidambaranathan, in his address, explained Cellular concept and Multi-antenna techniques for wireless communication. He also briefed the fundamental concepts, propagation mechanism and remedial measures in wireless communication. e-BLAST2K16 Souvenir was released by Dr.S.P.Subramaniyam and received by Dr.P.Muthuchidambaranathan.



Souvenir released by Dr.S.B.Subramaniyam and received by Dr.P.Muthuchidambaranathan.

On this occasion, an Intradepartmental mini project expo was organized. Students exhibited their projects related to home automation, waste recycling and advancements in communication technology.



Dr.S.P.Subramaniyan and Dr. P. Muthuchidambaranathan, Guests of e-BLAST2K16, viewing the exhibits of the students

Final year student, Ms.R.Kavitha, Vice-president, e-BLAST2k16, delivered the Vote of Thanks. Finally, Mr.R.Balakrishnan and W.Newton David Raj, Coordinators of e-BLAST2K16, expressed thanks to the Management, CEO, Principal, Vice- Principal, Teaching and Non teaching staff members, students of ECE and the participants from various colleges for the grand success of e-BLAST2K16.



Prize and certificates distribution to the participants



Vote of thanks was delivered by R.Kavitha, vice-president of "e-BLAST 2k16



Symposium coordinator Mr. R.Balakrishnan, Asst. Prof, offerings thanks







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## **CRITERION: 3.2.2**

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	National Conference on Flourishing Areas in Electrical and	81
	Electronics Engineering (NACOFEE'19)	
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	Workshop on "Advanced Industrial Robotics and	87
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2018 - 2019	Workshop on "Recent Trends in Electrical Engineering"	92
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2017-2018	Workshop on "Smart Grid – Future Electric Grid"	110
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2016 -2017	Microgrid Systems"	
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	Electronics Engineering (NACOFEE'16) Organized by EEE	
	Dept.	
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ACADEMIC YEAR 2020-2021(EVEN)

#### INTERNAL SEMINAR-REPORT

On behalf of Department of EEE, Project club has organized Internal Seminar on "MATLAB in Power Electronics" for second, third year EEE students on 19.03.2021. The main objective of the internal seminar is to provide basic introduction about MATLAB in Power Electronics using Simulink and its applications.

Beneficiaries: Total: 23 :(II, III Year Students)

Session: Seventh session (3.10 P.M to 4.00 P.M)

Venue: Electrical Machines Laboratory

Resource Person (Internal): Mr. J. Arokia Raj, Assistant Professor/EEE

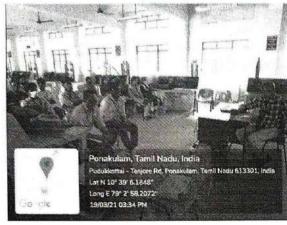
Mr. J. Arokia Raj AP/EEE welcomed all the second and third EEE students. During his session, he started with basic questions about Purpose of Simulation and interaction to all the students. He introduced about the Simulink library and functions of each library tools and its applications. Then he has explained and construct the various important block used for power electronics converters and inverters in MATLAB Simulink files.

He has briefed about the different types of converters with some example and he shows the operation block setting parameters in MATLAB Simulink library tools. Similarly several types of power inverters were simulated using selectable modeling techniques and its Configurations.

Discussed and configure the following library tools.

- Electrical Sources and Elements.
- Motors and Generators.
- **Power Electronics**

#### **SNAPSHOTS**









Mr. J. Arokia Raj, AP/EEE delivering Internal Seminar

## OUTCOME:

- Students will be able to understand the theoretical knowledge on MATLAB Simulink.
- Students are able to understand the different types of power electronics converters and their functions.







#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING AND RESEARCH AND DEVELOPMENT SECTION

#### WEBINAR REPORT

The department of Electrical and Electronics Engineering in association with Research and Development section has organized a national webinar on 'Building Internet of Things using Raspberry Pi" on 22nd October, 2020.

Beneficiaries

: Students, Research scholars and Faculty from ECE, EEE and CSE

Session

10 A.M to 11.A.M

Venue

: Online (Google meet)

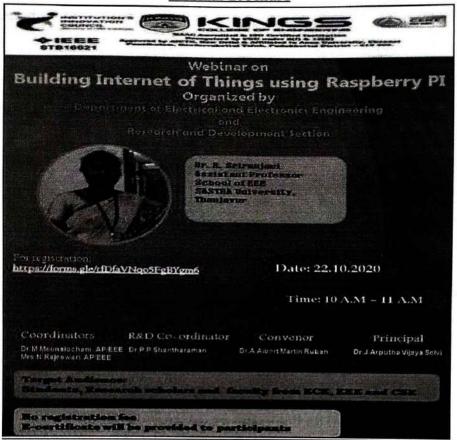
Resource Person : Dr.R.Sriranjani

Assistant Professor / EEE

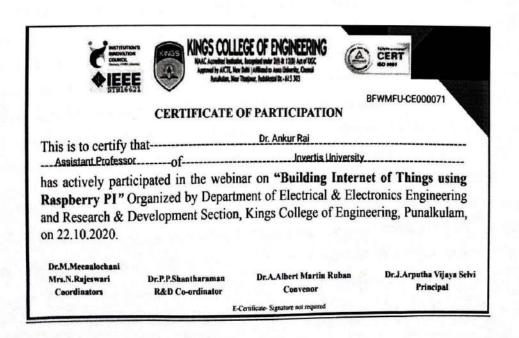
SASTRA University, Thanjavur

The objective of this webinar is to impart in depth knowledge on Internet of Things design using raspberry Pi. Dr. M. Meenalochani, Assistant Professor/ Department of EEE, Kings College of Engineering welcomed the participants and introduced the Resource person. The resource person had given the lecture on " Building Internet of Things using Raspberry Pi ". In this lecture, she introduced the concepts of Internet of things. She explored the hardware details and working of Raspberry Pi with sensors. She also provided a virtual demonstration of uploading the program and its execution in Raspberry Pi. In this webinar, 75 participants registered from various Institutions all over India. Vote of thanks was given by Mrs. N.Rajeswari, Assistant Professor/ Department of EEE, Kings College of Engineering. Participants had their queries answered by the resource person at the end of the session. All the attended participants gave their valuable feed back after the webinar session and E-certificate has been sent to them through email. The webinar brochure, copy of certificate for participants, list of participants and feedback analyses are given below.

#### **Webinar Brochure**



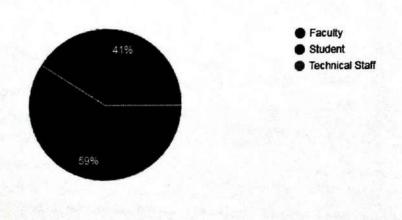
#### **Sample Certificate**



## **List of Participants**

S.No	Name of the Institution	No. of Participants
1	R.M.D Engineering College, Chennai	4
2	Kalasalingam Institute Of Technology, Madurai	3
3	APCOER, Pune	3
4	SRM Institute Of Science And Technology, Chennai	4
5	Lady Doak College, Madurai	2
6	Dhanalakshmi college of Engineering, Chennai	4
7	Nehru Institute of Technology, Coimbatore	2
8	PSCMR College of Engineering and Technology, Andhra Pradesh	2
9	Bharath Institute of Higher Education and Research, Chennai	3
10	National Institute of Nutrition, Hyderabad	2
11	Aryabhatta Knowledge University, Patna	2
12	St. Joseph's College of Engineering, Chennai	3
13	Aarupadai Veedu Institute Of Technology, Chennai	4
14	Srm Ist Ramapuram Campus, Chennai	4
15	Thakur Institute of Management Studies, Career Development & Research, Maharashtra	2
16	V R Siddhartha Engineering College, Andhra Pradesh	1
17	Vijaya Institute of Technology for Women, Andhra Pradesh	2
18	C.Abdul Hakeem College of Engineering and Technology, Vellore	3
19	Potti Sri ramulu chalavadi Mallikarjuna Rao college of Engineering and Technology, Andhra Pradesh	2
20	Adhiparasakthi College of Arts and science, Melmaruvathur	2
21	Invertis University,Uttar Pradesh	1
22	Kings College of Engineering, Punalkulam	20

## **Details of Participants**



	Sample	e feedback from Particij	pants	
Feedback/Su 75 responses	aggestions			
very useful				
Session was	nicely organized.			
Good work re	eally great. Also like to rec	ceive the materials of training if	possible. Thanks.	
	ation and useful message			
	tive and useful session.			
	iive and userui session.			
Nothing				
Very nice				
Very good				
GOOD SESSIO	1N			
	9.75 			12.0
			لد ريون	40
	P)	A his amo		1
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Olse- rdinators	Ran Coordinator	Convenor 29/19	Principal	
rdinators	RAD Coordinator Dr.P.P.Shantharaman	2911	a rincipal	







## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERIN

#### 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 22<sup>nd</sup> 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.

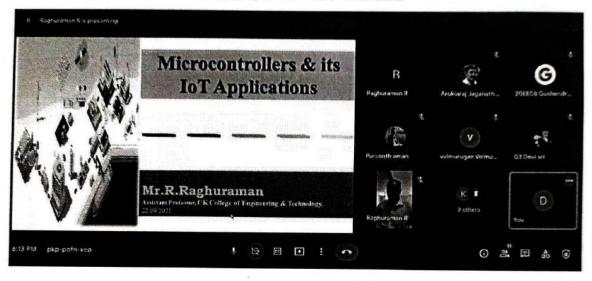
The objective of this Guest Lecture is to impart fundamental knowledge on Microcontrollers and its varied IOT applications.

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











#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## NATIONAL CONFERENCE ON "FLOURISHING AREAS IN ELECTRICAL AND ELECTRONICS ENGINEERING" (NACOFEE'21)

(in Virtual Mode)

#### **CONFERENCE REPORT**

Online mode: YouTube live stream (<a href="https://youtu.be/9i5DycOHgG4">https://youtu.be/9i5DycOHgG4</a>)
Google meet (<a href="https://meet.google.com/mqs-tenj-mte">https://meet.google.com/mqs-tenj-mte</a>)

#### **OBJECTIVE**

Department of Electrical and Electronics Engineering, Kings College of Engineering has organized a one day National level Conference entitled NACOFEE'21 on 12<sup>th</sup> April 2021.

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

#### **CONFERENCE PREPARATION WORK**

Dr. A. Albert Martin Ruban, Head/EEE assigned Dr. P. Narasimman and Mr. S. R. Karthikeyan, Assistant Professor / EEE as conference coordinators. They received permission from the Principal and Secretary to conduct the conference in online mode. Following approval, a list of tasks was identified, as well as a list of committees and their duties, which were prepared and distributed to staff members. The HoD and Principal gave their approval to the poster design. Following approval, the poster and registration form (google form) were circulated through WhatsApp and email to various engineering colleges.

We received 39 papers from engineering colleges across the country, covering a wide range of topics. The papers were submitted to our department's technical committee, where the originality of the papers was verified. Thirty-one papers were reviewed and notified to the authors via mail. To plan for the proceedings, the authors were asked to submit a camera-ready copy of their article.

Dr.V.Mohan, Professor & Head/EEE, E.G.S. Pillay Engineering College, Nagapattinam, was requested to deliver the keynote address at our conference via email. He gladly accepted our invitation and agreed to give the keynote speech. He has 23 years of teaching experience and has supervised several undergraduate and post graduate projects.

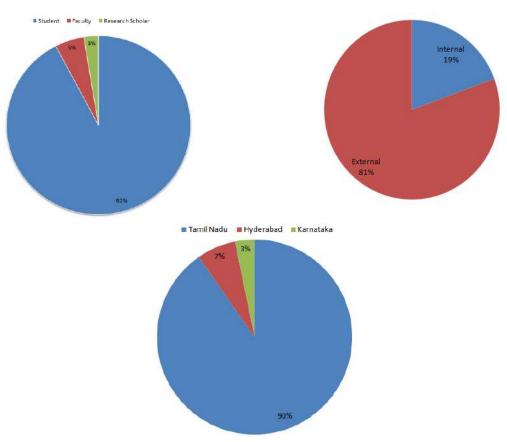


Figure 1. Response from the Registration Form

#### **CONFERENCE DAY (12.04.2021)**

The conference was conducted through online mode. Conference Coordinators, Convener, Vice Principal, Chief Guest and staff members joined through google meet link (https://meet.google.com/mqs-tenj-mte). Our college's YouTube channel (Kings College of Engineering) broadcasted the inaugural event. The inaugural function started at 10.05 am.

The welcome address was given by Mr.S.R.Karthikeyan, Conference Coordinator of NACOFEE'21. He greeted the dignitaries, faculty members and the students from various educational Institutions across the country. He also expressed his delight at seeing more external participants from various reputed colleges.

The Presidential address was delivered by Dr.J.Arputha Vijaya Selvi, the Principal of our college. Dr.V.Mohan, Professor and Head/EEE at E.G.S. Pillay Engineering College in Nagapattinam, was the chief guest and delivered the keynote address.

Dr.P.Narasimman AP/EEE, Conference Coordinator, thanked the management, Secretary, Principal, Vice Principal, Chief Guest, HoD, staff members and participants at the end of the inaugural event.

At 11:15 a.m., the technical session began. The participants were emailed a copy of the schedule. Dr.S.Sivakumar, Dr.A.Albert Martin Ruban, Dr.M.Meenalochani, Dr.P.Narasimman, Mr.R.Sundaramoorthi, Mr.S.R.Karthikeyan, Mr.J.Arokiaraj, Mr.C.John Selvaraj, Mrs.P.Thirumagal acted as Juries. The participants were directed to the Google Meet connection of their respective Jury member. The evaluation sheet, which included the paper id, team members, paper title, college name, and evaluation criteria, was provided to the Jury members. The evaluation is based on the presentation, concept and implementation and their responses to the questions. Each team had 15 minutes to present their topics (presentation – 10 minutes & query – 5 minutes). The juries' assessment sheets were gathered at the end of the session.

#### CONFERENCE FOLLOW-UP WORK

The participants were asked to submit the feedback form about the conference circulated to their email. Certificates and conference proceedings were provided to the attendees for their active participation in the conference via email.

1. P. Donney J. Minmo 2. P. M. Dantilley J. Minmo COORDINATORS HOD/EEE VICE-PRINCIPAL PRINCIPAL PRINCIPAL

#### ANNEXURE – I

#### **Conference Poster**



#### Call for papers

The Focus of this conference will be on, but not limited to the following major areas

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

#### ortant Dates

Last Date for Paper Submission	29.03.2021
Last Date for Confirmation	05.04.2021
Last Date for Registration	09.04.2021

#### Paper Submission

Authors are invited to submit full paper of minimum 6 pages and maximum 10 pages, strictly as per the IEEE format (using two column, single spaced format with 10 pt) to nacofee21@gmail.com.

The paper should include affiliation and email address along with author biography.

S.No	Categories	Fee(Rs.)
1.	Under Graduate (UG)	200
2.	Post Graduate (PG)	300
3.	Research scholars and	300
	Industry persons.	

Selected papers will be published in a reputed journal with ISSN number (Journal Publication charges is not included in registration fees).

#### About the institution

Institution was formed with the singular aim of ISO 9001-2008. providing quality education to the poor and underprivileged students of this region. Our steps are measured and taken with our goal in mind, which is to become a renowned institution where knowledge is a way of life.

We at Kings value the gift of Knowledge but do not put a price tag on it. We remain strong in our policy of "No Donations and No Capitation" and have focused in admitting students strictly on the basis of merit. Due consideration is given to the economical state of the family in admitting students from the under-privileged sections of the community. Situated on the Thanjavur -Pudukkottai Highway, The KCE campus spreads over 50 acres in a beautiful serene atmosphere ideally suited for technical education .The infrastructure and facilities available on campus are amongst very best which has made it as one of the most sought after college in this region

#### About the department

The Electrical and Electronics Engineering Department was started in the year 2001. The department of EEE offers 4 years B.E Course in Electrical and Electronics Engineering and 2 years M.E Course in Power Electronics and Drives. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that Kings College of Engineering (KCE) was established in will help our students to achieve their goals. Our the year 2001 by Raj Educational Trust (RET). Our department is certified by Quality Management Systems







## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ACADEMIC YEAR 2020-2021 (EVEN)

#### INTERNAL SEMINAR-REPORT

Department of EEE has organized Internal Seminar on "Energy Storage Systems" for second, third year EEE students on 5.3.2021. The main objective of the internal seminar is to provide basic introduction about Energy Storage Systems and its functions.

Beneficiaries: Total: 24 :(II, III Year Students)

Session: Seventh session (3.10 P.M to 4.00 P.M)

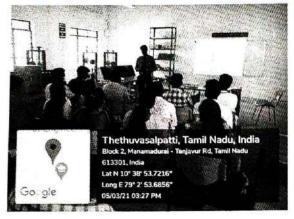
Venue: Electrical Machines Laboratory

Resource Person (Internal): Mr.R.Sundaramoorthi, Assistant Professor/EEE

Mr.R.Sundaramoorthi AP/EEE welcomed all the second and third EEE students. During his session, he started with basic questions about Purpose of Energy storage systems and interaction to all the students. He introduced about the definition and functions of Energy storage systems applications in various fields such as Transportation applications, Emergency applications and large scale applications. Then he has explained about concept of Battery Management Systems(BMS). He has briefed about the different Energy storage systems (ESS) Configurations, major interconnection issues, techniques and applications of ESS in Renewable Energy systems.

During the second part of the session, he shared the knowledge about Ultra capacitor and applications of Ultra capacitor. Finally, he gave an idea about comparisons of various parameters of Ultra capacitors and different case studies. At the end of the session, students interacted and asked questions about the importance of Energy storage and future development of energy storage systems.

#### **SNAPSHOTS**









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

#### OUTCOME:

- Students will be able to emphasize theoretical knowledge on importance of Energy Storage Systems (ESS).
- Students are able to understand the different types of Energy Storage Systems and basic knowledge about Ultra capacitors and its functions.
- Based on the case studies given in the presentation, Students shall select Energy Storage Systems area for their Mini Project work, final year Project work and PCE Activities.

FACULTY INCHARGE

HOD/EEE 3/2/

PRINCIPAL





## 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 Vehiclesoverview" for second, third and final year EEE students on 25.9.2021.

Beneficiaries: Total:66:(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.

Internal seminar

Page 1

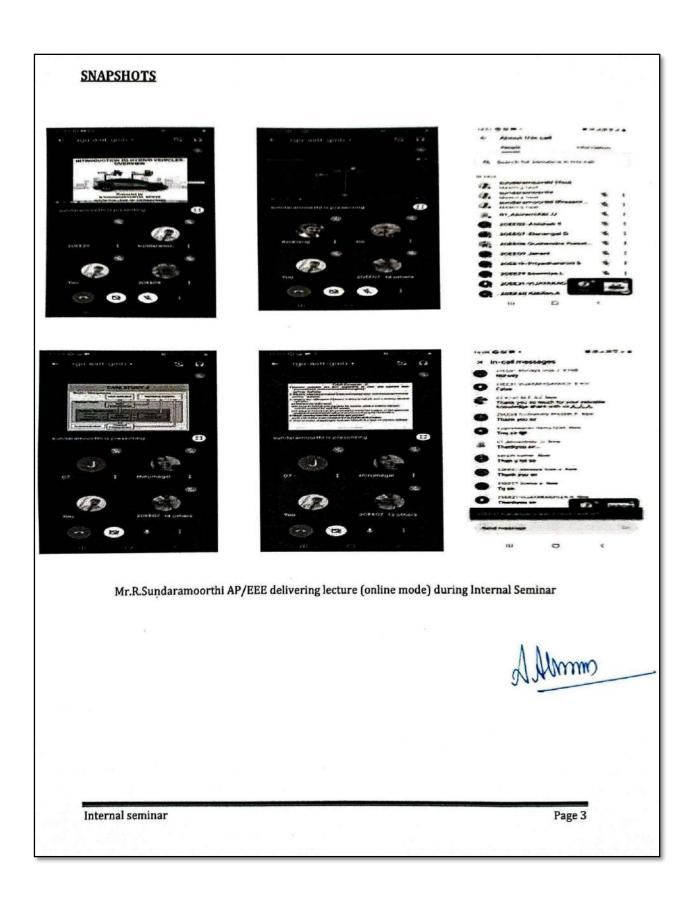
Then, he introduced about classification of Electric vehicles such as Battery Electric vehicle, Hybrid Electric vehicle and Plug-in Hybrid Electric vehicle. He explained how hybrid Electric vehicle works and all the components involved in HEV with video presentation. Next, he briefly explained about 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.

Internal seminar Page 2









#### 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: 66 (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.

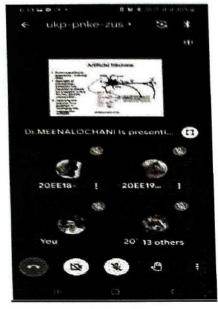
Then she explained how ANN is developed based on the operation of human nervous system. Artificial neurons are implemented based on the methodology used by biological neurons for gathering inputs, combining different inputs and producing an output if the input exceeds a threshold. An ANN usually involves 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.

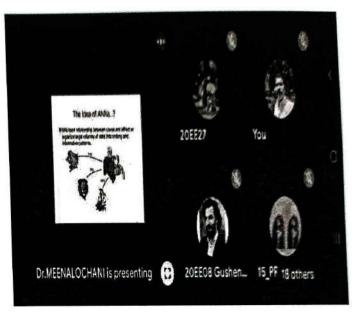
Finally, she briefed about Deep learning which is the recent advancement in Neural Networks. Deep Neural Networks play an important role in Machine Learning. Deep learning is used to solve complex problems that require discovering hidden patterns in the data. It involves a deep understanding of intricate 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.

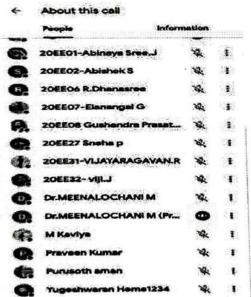
#### Outcome:

- 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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MOTIVATIONAL TALK

Presented by allumni

ATE: 15/09/2020

**RESOURCE PERSON:** 

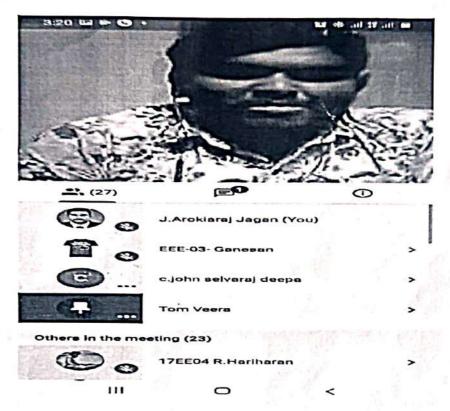
ER.M.VEERAMANI (ALUMNI :2015–19 BATCH )
PROJECT MANAGER,GM ELECTRICALS,
KUMBAKONAM.

PLATFORM: GOOGLE MEET

21

# POST WEBINAR REPORT

The webinar organized by department of Electrical and Electronics Engineering on "Motivational Talk" on 15.09.2020 for third and final EEE students. The session started with silent prayer and then the session continued with the welcoming address and introduction of resource person given by Mr.C.John Selvaraj AP/EEE.



Resource person interact with students about their career

Er.M.Veeramani (Resource person) motivated the students about the various career opportunities and the way of preparing for the same. In his webinar he pointed out and focused many of the achiever like Dr.A.P.J.Abdulkalam and Scientist Albert Einstien. He mentioned some of their quotes like "Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world." He talked about the incident that happened in Dr.A.P.J.Abdulkalam life - A monk changed his life after his greatest failure with this quote "Defeat the defeatist tendency". Then he motivated the students to try for various government jobs through GATE.

HOD/EEE 275/20 22/9/20 VP



# KINGS COLLEGE OF ENGINEERING (NAAC Accredited Institution)





# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERIN

### Guest Lecture on

# "EMBEDDED SYSTEMS"

# **REPORT**

The Department of Electrical and Electronics Engineering has organized a Guest Lecture on 'EMBEDDED SYSTEMS" on 13th March, 2021.

Beneficiaries

: III Year Students (15)

Time

: 7.00p.m to 8.00 p.m

Venue

: Online (Google meet)

Resource Person

Dr. Janani Selvaraj M.E, P.hd., Assistant Professor / EEE

Anjalai Ammal Mahalingam Engineering College,

Kovivenni.

The objective of this Guest Lecture is to impart fundamental knowledge on Embedded System and their design.

The resource person started the session with the interaction to students about the recent developments in electronic products that utilize embedded system within them to carry out various operations. She educated the students with the hardware details of ARM Processor, pin outs and its applications in various domains. Also, she introduced the concepts of interfacing ARM Processor which is essential in designing an embedded product. She also suggested project ideas using Embedded Systems that can be developed by the students and the possibilities of getting funds for those projects. In addition, she provided basic demonstration on 8051 microcontroller and its hardware connections so that it can be extended for any embedded product development. Students are motivated to do mini embedded projects of their own using 8051 microcontroller.

# PHOTO GRAPHS OF LECTURE SESSION





STAFF IN-CHARGE

H.O.D 21

VICE PRINCIPAL

PRINCIPAL







### Guest Lecture Report on "Embedded System"

A Guest Lecture on Embedded system was organized by Project Club, Department of EEE on 4<sup>th</sup> March, 2021, Mr.J.Arokiya Raj, Assistant Professor/EEE welcomed and Mr.S.R.Karthikeyan introduced the resource person to the gathering.

Mrs.N. Srividhya, Assistant Professor/ECE, St.Joseph's College of Engineering and Technology, Ezhupatti was the resource person.

In her lecture, She briefed on Embedded System key features, which included the Structural units in Embedded processor, DMA - Memory management methods, data rate and Target Hardware Debugging. Also she briefed on Embedded Networking. A total of 22students and 9 staff members participated and got benefitted.

# Meeting Link:

### https://forms.gle/pvci7qvu1eZcTS3D6

On that day of the programme ( 4<sup>th</sup> March ,6.30pm to 7.30pm), the Guest lecture, Google meet link was given to all the second and third year EEE students.



STAPF INCHARGE

HOD 12121

VICE PRINCIPAL

25

PRINCIPAL







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING GUEST LECTURE ON "OBJECT ORIENTED PROGRAMMING"

#### REPORT

Resource Person: Dr.M.G.Kavitha,

Date:15.09.2020

**Assistant Professor/CSE** 

University College of Engineering, Rajamadam- Pattukkottai

Class

: III EEE

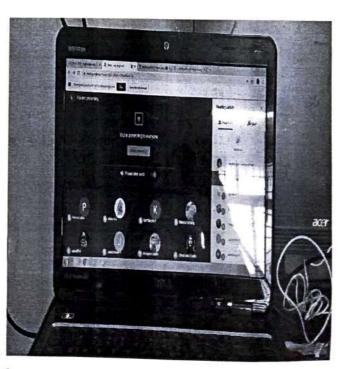
Venue

: Online

The department of Electrical and Electronics Engineering has organized Guest Lecture on "Object Oriented Programming" for third year students on 15.09.2020.

Resource Person has delivered the session on basics of "Object Oriented Programming". During the session she has explained the basic concepts and techniques which form the object oriented programming paradigm. She also explained the model of object oriented programming like abstract data types, encapsulation, inheritance and polymorphism and how to implement programs using classes and objects, operator overloading, Able to specify the types of inheritance and use them in programs. At the end of the session students were interacted with our resource person.





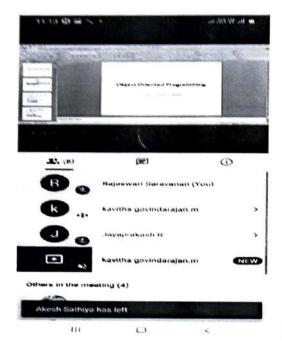
Resource Person Dr. M.G.Kavitha delivering lecture to third year EEE students.

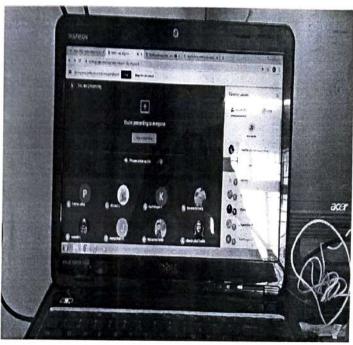
Staff-in-Charge

HoD 22/9/20 26

Principal Page 437 of 747

# **Photographs**













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

# DEPARTMENT O F E LECTR ICAL AND EL ECTRONICS ENGINEERIN

### **Guest Lecture on**

# "MICROPROCESSORS AND MICROCONTROLLERS"

# REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on 'Microprocessors and Microcontrollers" on 17th September, 2020.

Beneficiaries

: III Year Students (15)

Sessions

2nd session(11.15 A.M to 12.15 P.M)

Venue

: Online (Google meet)

Resource Person

: Mrs.V.Sasikala, M.E.,(Ph.D)

Assistant Professor/ECE

Sri Sairam Engineering College, Chennai





The objective of this Guest Lecture is to impart fundamental knowledge on Microprocessors and Microcontrollers and their design.

The resource person starts the session with the interaction to students about the recent developments in electronic products that utilize microprocessors and microcontrollers embedded within them to carry out various operations. She educated the students with the hardware details of 8051 Microcontroller, pin outs and its applications in various domains. Also, she introduced the concepts of interfacing microcontrollers which is essential in designing an embedded product. She also suggested project ideas using microcontrollers that can be developed by the students and the possibilities of getting funds for these projects. In addition, she provided basic demonstration on 8051 microcontroller and its hardware connections so that it can be extended for any embedded product development. Students are motivated to do mini embedded products of their own using 8051 microcontroller.

Staff in-charge 21 9/20

Head of the Department

Principal

#### Webinar on "Patents and Trademarks"







# RESEARCH AND DEVELOPMENT SECTION AND INSTITUTION'S INNOVATION CELL

#### WEBINAR REPORT

Research and Development section in association with Institution's Innovation Cell has organized a national webinar on "Patents and Trademarks" on 19th January, 2021.

Beneficiaries : Student

: Students, Research scholars and Faculty

Session

12.30 A.M to 1.30.P.M

Venue

Online (Google meet)

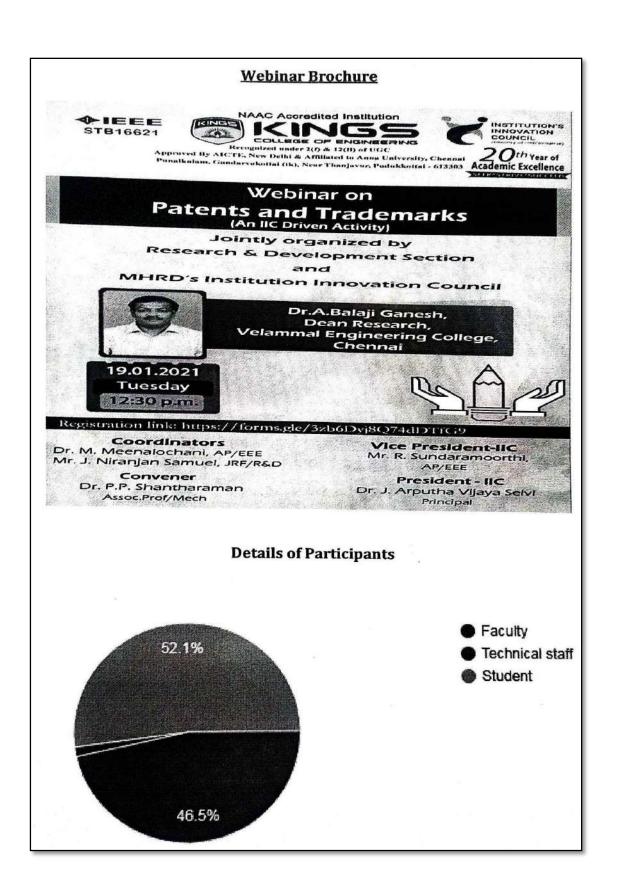
Resource Person : Dr. /

Dr. A. Balaji Ganesh

Dean Research

Velammal Engineering College, Chennai

The objective of this webinar is to impart in depth knowledge on Patents, trademarks and copyrights. Dr. M. Meenalochani, Assistant Professor/ Department of EEE, Kings College of Engineering welcomed the participants and introduced the Resource person. The resource person had given the lecture on Intellectual Property Rights. In this lecture, he clearly explained about patent, types of patent and the difference between patent and copyright. His lecture clearly depicted how to identify problems, idea/solution for a problem and the methodology of developing a product/service for the problem. He also explained how to patent the developed product/service as an individual. In this webinar, 200 participants registered from various Institutions all over India. Participants had their queries answered by the resource person at the end of the session. All the attended participants gave their valuable feed back after the webinar session and E-certificate has been sent to them through email. The webinar brochure, details of participants and copy of certificate for participants are given below.



### Sample Certificate

Cert. No :FAG8B8-CE000105 Date : 23-1-2021





NAAC Accredited & 180 Certified Institution
Beooguland by UGC under \$(f) & 19(1)
Approved by AICTE, New Belth & Affiliated to Anna University, Chemnal
Funcilium, Candarvahottal Taluk, Pudukhottal District & 12 800.

# Webinar on Patents & Trademarks Certificate of Participation

This is to certify that Mr.S. R. KARTHIKEYAN

from KINGS COLLEGE OF ENGINEERING,

has actively participated in the online webinar on Patents & Trademarks held on 19th January - 2021, organized by R&D Section & MHRD's - IIC.

Co-ordinators
Dr.M.Meenalochini & Mr.J.Niranjan Samuel
AP/ECE JRF/ECE-R&D

R&D Coordinator Dr.P.P.Shantharaman Principal Dr.J.Arputha Vijaya Selvi

This is an electronically generated certificate and does not need any signature

Made for free with Certify'em

Coordinators

Dr.M.Meenalochani, AP/EEE Mr.Niranjan Samuel,JRF/R&D 1.1.20 Cashi

Convener

Dr.P.P.Shantharaman Assoc.prof/Mech Principal

Dr.J.Arputha Vijaya Selvi







### **ISTE STUDENT CHAPTER (TN 217)**

### ACADEMIC YEAR 2020-21 / ODD SEMESTER

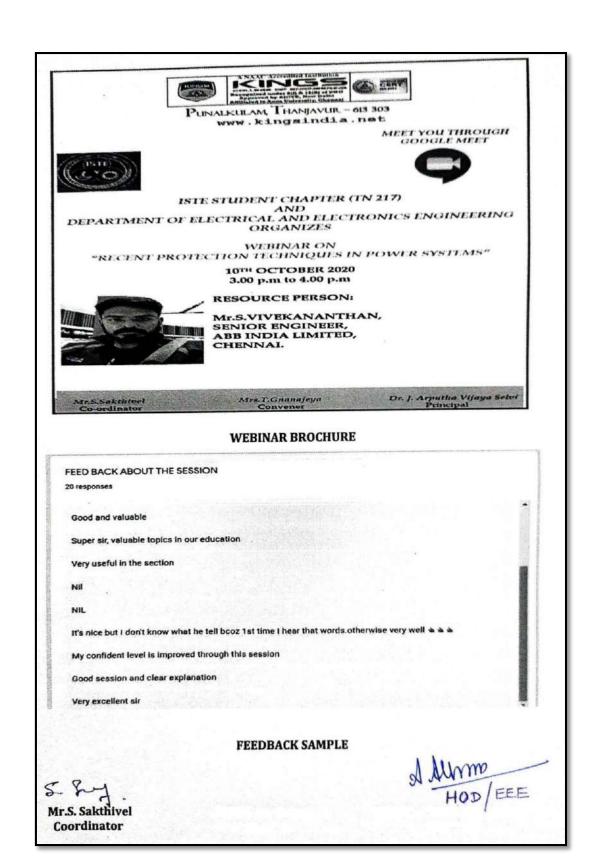
#### WEBINAR REPORT

12.10.2020

A one day webinar titled "Recent Protection Techniques in Power Systems" was organized by the ISTE Student Chapter [TN 217] through (Google meet) on 10.10.2020 from 3.00 p.m. to 4.00 p.m. to the students of Electrical and Electronics Engineering department with an objective to offer a better understanding of recent protection techniques in power systems. Welcome address and resource person introduction were delivered by Mrs.T. Gnanajeya, Coordinator / ISTE Chapter. The session was handled by eminent resource person Mr.S. Vivekananthan, Senior Engineer, ABB Private Limited, Chennai. The resource person explained the concept of Recent Protection Techniques using different types of protective devices in an excellent manner. Totally 37 students from II, III and IV year EEE and all staff members of EEE department participated actively in this session and gained knowledge in Recent Protection Schemes in power systems. Vote of thanks was given by Mr.S.Sakthivel, AP/EEE, Coordinator of this webinar. E-Certificates were issued to all the participants.



SAMPLE CERTIFICATE



# Webinar on "Design Procedure for Patent and IT Industry revolution organized by IEEE association"

# KINGS COLLEGE OF ENGINEERING

# **IEEE STUDENTS BRANCH STB 16621**

#### Weblnar Report

A two days webinar on "Design Procedures for Patent and IT Industry Revolution" was organized by Department of Electrical & Electronics Engineering in association with IEEE Student Branch STB 16621 on 17th & 18th July, 2020. On day 1 Mr. C. John Selvaraj, AP/EEE welcomed the participants and Mr. S.R. Karthikeyan, AP/EEE introduced the resource person. Mr. A. Terance Ruban, WNS Global Services Pvt. Ltd. Chennai delivered lecture. On Day 2, Mr. Sakthivel introduced the resource person. Prof. R. Kaja Bantha Navas, Sathyabama Institute of Science & Technology, Chennai delivered lecture. Mr. S.R. Karthikeyan, AP/EEE proposed vote of thanks. Around 120 people participated in the

webinar.

Report by
Mr. R. Sundaramoorthi
Membership No. 93086892
Kings College of Engineering

5.1884 this 20



TWO DAYS WEBINAR SERIES ON "DESIGN PROCEDURES FOR PATENT AND IT INDUSTRY REVOLUTION"

17%&18% JULY 2020 11.00 a.m to 12.30 p.m Registration Link: https://forms.gle/sNdTLHYtGPITtjaQ8

DAY 1:



RESOURCE PERSON
A.Terence Ruban
Assistant Vice President,
WNS Global Services Pvt Limited,
Chennai.
Title Walk Through IT/ITES Industry



RESOURCE PERSON
Prof.R.Kaja Bantha Navas
Assistant Professor,
School of Mechanical Engineering,
Sathyabama Institute of Science and Technology,
Chennal
Title: Patent Drafting and Procedure

# 2-Days FDP on "Research Issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources"



Institution

Enga College of Engineering was born out of a
Beam and vision to provide education with
unparallel quality to the young and enthusiastic
students of our nation. The college is approved by
the AICTE. New Delhi and affiliated to Anna
University. Chennai. The drive from our management and dedication of the faculty has seen
KCE to raise to the status of one of the most
sought after institution in this part of the country.

KCE, run by Raj Educational Trust(RET) Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of Thanjavur, Pudukkottai and adjoining districts from 2001. Our institution offers five UG programmes namely EEE, ECE, CSE, Mechanical, Civil Engg and four PG programmes namely VLSI Design, Thermal Engg, Power Electronics &Drives, and Computer Science & Engg. We strive and endeavor every passing day to build our students as technocrats.

#### About the Department

The Electrical & Electronics Engg department was esablished in the year 2001. The department of EEE offers 4 years B.E degree course & 2 years M.E in Power Electronics & Drive(EEE). We have a team of highly qualified, experienced and dedicated faculties Our department has been approved as research center for pursuing research (Ph.D) under Anna University.

#### Sout the FDP

The main objective of this FDP is to provide a forum to exchange views, ideas & the latest research and solution in the field of Renewable Energy Sources and Sustainable Energy coversion. It provides a platform for the Teaching Faculties, Research scholars and Industrial persons to upgrade and share their knowledge in the flowing fields of Electrical Engineering. In addition, this programme is meant to improve the faculty ability in carrying out research in this field and to bring up professional discussion on Research issues and solutions.

#### Topics to be covered

- Research Perspective in Smart Grid &
- Renewable Energy Sources

  ⇒ Research Scope & Challenges in Electrical Engineering
- Software tools for Energy Conversion & Renewable Energy sources.
- Optimization Algorithms for Research
- Research Issues & Solution in multilevel
  Inverters in PV System

#### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from thanjavur railway junction & 12 kms from new Busstand on Thanjavur - Pudukkottai national highway.

# "Research issues and

Research issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources"

Registration Form (Fill up in Capital Letters)

Name:

Gender: M/F

Designation:

Organization:

Full Address:

Mobile :

Email:

Experience:

Years. Months.

Signature of the Applicant

Place:

Date:

Signature of sponsoring authority
With seal













# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING TWO DAY FDP

On

"Research Issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources" on 01.11.19 &2.11.19

### REPORT

The Department of Electrical and Electronics Engineering, IEEE Student branch, ISTE Student branch and MHRD'S Institutions Innovation Cell have jointly organized a two day Faculty Development Programme on "Research Issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources" on 01.11.19 &2.11.19. The main objective of this FDP is to provide a forum to exchange views, ideas & the latest research and solutions in the field of Renewable Energy Sources and Sustainable Energy Conversion. It provides a platform for the Teaching Faculties, Research scholars and Industrial person to upgrade and share their knowledge in the flowing fields of Electrical Engineering. In addition, this programme will help to improve the faculty's ability in carrying out research in this field and to bring up professional discussions on research issues and solutions.

#### Resource persons:

- Session 1: "Optimization Algorithms for Research "by Dr.M.Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy
- Session 2:" Islanding Detection Techniques in Micro-grids" by Dr.M.Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy
- Session 3: "Applications of Genetic Algorithms in Electrical Engineering issues" by Dr.S.Sivakumar, Professor/EEE, Kings College of Engineering.
- Session 4: "Research Perspective in Smart Grid and Renewable Energy sources" by Dr.V.Mohan, Professor/EEE, E.G.S Pillay Engineering College, Nagapattinam
- Session 5: "Soft Computing Techniques" by Dr.M.Meenalochani, Assistant Professor/EEE, Kings College of Engineering

#### Convener:

Dr.A.Albert Martin Ruban, Associate Professor & Head / EEE

1

#### Coordinators:

- 1. Mr.R.Sundaramoorthi, Assistant Professor / EEE
- Ms.N.Rajeswari, Assistant Professor / EEE
- 3. Mr.C.John selva raj, Assistant Professor / EEE

#### Inaugural Session:

Inaugural session was started by 10.15 A.M presided over by Dr.S.Sivakumar, Vice Principal. The dignitaries on the Dais during the inaugural session were, Dr.A.Albert Martin Ruban, Head / EEE, Resource person Dr.M.Venkatakirthiga Associate Professor/EEE, National Institute of Technology, Trichy and the Program Coordinators Mr.R.Sundaramoorthi and Mr.C.Johnselvaraj. The program was started with Thamizh Thaai Vaazthu followed by Welcome address delivered by Dr.A.Albert Martin Ruban, Head / EEE and Introduction about FDP was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

#### Participants:

External: 12 Internal:21 Total: 33

# Session 1- "Optimization Algorithms for Research" by Dr.M. Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy

In the first session, resource person has started about the general Introduction about Optimization Algorithms classification such as Genetic Algorithm, Particle swarm optimization techniques. Then she has given complete overview of Genetic Algorithm principles, flowchart, codings basics and implementation. She also has given how optimization Algorithms can be used in research Problems. During this session, the participants were actively interacted with the resource person.

# Session 2:"Islanding Detection Techniques in Micro-grids" by Dr.M.Venkatakirthiga, Associate Professor/EEE, National Institute of Technology, Trichy

Second session has started by 2.00 p.m after lunch break. During the second session resource person has given an idea about Distributed Generation and she has explained how Islanding detection techniques can be used in Micro Grid. Through demonstrated pictures of distributed Generation she has given idea about how to solve the research problems in distributed Generation. Finally she has mentioned that research problems and solutions in Distributed Generation. The session was very informative and the participants were interacted with the resource person.

# Session 3:"Applications of Genetic Algorithms in Electrical Engineering issues" by Dr.S.Sivakumar, Professor/EEE, Kings College of Engineering.

After the Tea break, Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has delivered a lecture on "Applications of Genetic Algorithms". He has given detailed concepts of Genetic Algorithms flow chart and basic definitions etc. He also demonstrated testing of GA Codings using Matlab. During this session, resource person has elaborated the GA tools for various research problems. This session was very interactive.

# Session 4: "Research Perspective in Smart Grid and Renewable Energy Sources" by Dr.V.Mohan, Professor/EEE, E.G.S Pillay Engineering College, Nagappattinam

In the second day of FDP, Dr.V.Mohan, Professor/EEE, E.G.S Pillay Engineering College, Nagappattinam honored by HOD/EEE. Brief Introduction about Resource person was given by Mrs.N.Rajeswari AP/EEE. Resource person has started the lecture from basics of Power Electronics, different types of converters, research module, research problems in Renewable Energy and AI tools used in converters. He also given a complete module of Research perspective in Smart Grid and Renewable Energy Sources and structured research steps. After the session he has interacted with the participants. This session was very interactive and informative.

# Session 5: "Soft Computing techniques in Electrical Engineering issues" by Dr.M.Meenalochani, Assistant Professor/EEE, Kings College of Engineering.

After the Tea break. Dr M.Meenalochani, Assistant Professor/EEE, Kings College of Engineering has delivered a lecture on "Soft Computing techniques". She has given detailed basic concepts of soft switching and hard switching. Then, she has explained about Fuzzy logic systems, Membership functions, formation of rules. She has also given an idea about how to design Fuzzy Controllers for various Applications. This session was very informative.

#### Valedictory Function:

The feedback from the participants was collected. Mr.C.John selvaraj, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with the National anthem

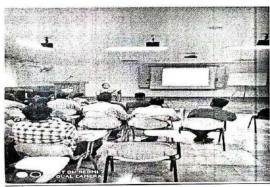
# **Event Photographs:**



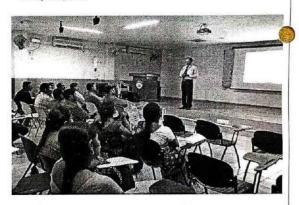
Welcome address delivering by Dr.Albert Martin Ruban HoD/EEE



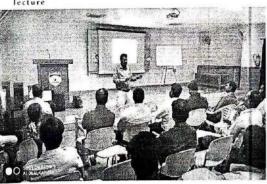
Resource person Honored by Dr.S.Sivakumar, Vice Principal and Head/T&P, KCE



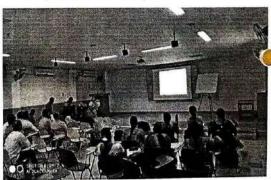
Session - I Resource person Dr.M.VenkataKirthiga Associate Professor/EEE,NIT, Trichy delivering



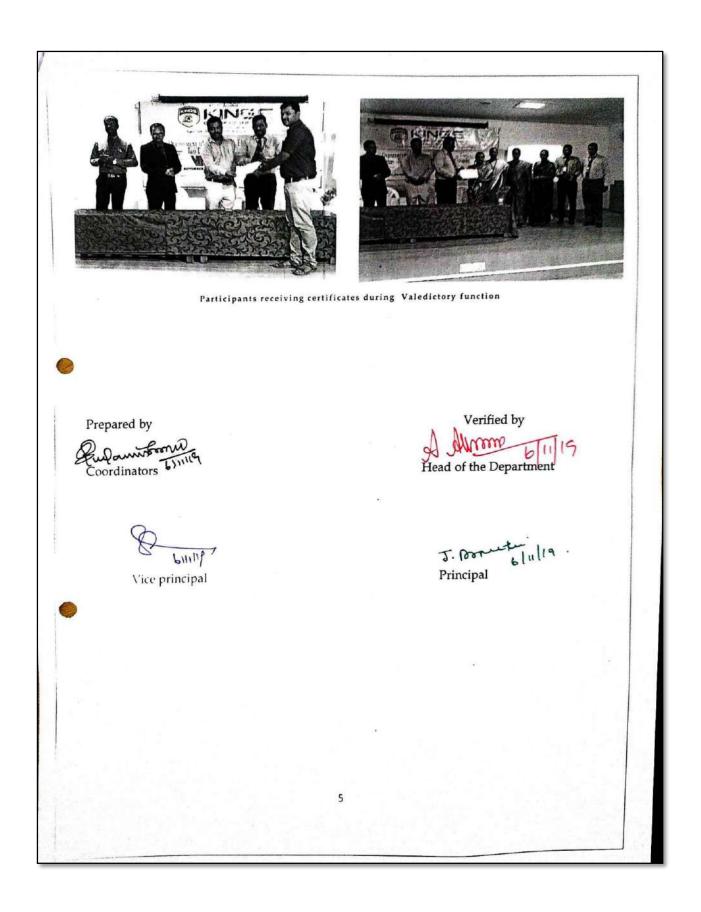
Session -III Resource person Dr.S.Sivakumar Professor/EEE, KCE delivering lecture



Session -IV Resource person Dr.V.Mohan, Professor/EEE,E.G.5 Pillay Engg College delivering lecture



Session -V Resource person Dr.M.Meenalochani Assistant Professor/EEE, KCE delivering lecture



# **Post Conference Report**

of

National Conference on Emerging Trends in Computing, Control and Communication Technology (ETCCCT'20)

13th March 2020

Organized by







An ISO 9001 Certified Institution

Punalkulam, Gandarvakottai Taluk,

Pudukkottai-613 303

Phone: 04362 - 282474, Fax: 04362 - 282494

WWW.kingsindia.net

# **CONFERENCE REPORT**

#### **Overview**

A National Conference on Emerging Trends in Computing, Control and Communication Technology (ETCCCT'20) is jointly organized by the department of Computer Science and Engineering, Electrical and Electronics Engineering and Electronics and Communication Engineering of Kings College of Engineering on 13th March, 2020. The Conference acted as a forum to bring together researchers, scientists, academicians, practicing Engineers, and industry professionals to discuss innovative ideas and diverse topics on next generation technologies. This conference has become a common hub for the researchers, to exhibit their new research findings. It seeks solutions for the research/industrial challenges/problems, and makes an avenue to develop networking with hundreds of professionals in the field Electrical, Electronics, communication and Computer Science. The objectives of the conference are:

- To provide a forum for presenting and discussing innovations, ideas, new design and alternative technologies.
- To promote affable environment for academia-industry interaction leading to exchange of new research ideas.
- To present keynote and invited talks by academicians, industrialists and scientists of national repute.

#### **Conference Format**

The one-day National Conference comprised parallel paper presentations organized by the three branches. Each speaker was given 10 minutes to present, followed by 5-10 minutes for questions. The conference was structured to foster discussion between participants around the core themes. In addition, invited lecture on Free Space Optical Communication by the Chief Guest followed by a short discussion on the career opportunities for engineering students in abroad as well as in India were also planned.

### Conference Themes for Electrical and Electronics Engineering

- Computational Intelligence in Power System, Power Electronics and Renewable Energy sources
- Distributed Generation and Micro/Smart grids
- Electrical Machines and Drives
- Fuel Cells and Green Energy Systems
- HVDC and FACTS
- Intelligent Control, Robotics and Automation Systems
- Measurements and Data Acquisition, Safety and Reliability
- Power Market and Deregulation
- Power System Reliability and Security

The programme was launched at 10.00AM in the Chera hall of Kings College of Engineering, Punalkulam. **Dr. Arun.K.Majumdar**, Adjunct Professor, Colorado State University, USA presided over the function. **Dr.J.Arputha Vijaya Selvi**, Principal, Kings College of Engineering delivered the welcome address to the conference gathering. **Dr.R.Rajendran**, Secretary, Kings College of Engineering has delivered the presidential address. He conveyed the current scenario of Engineering Colleges and students education. He has registered his strong views about the scope of the conference. He expressed that this National conference will be a platform for Researchers, academicians and students to discuss about recent trends, 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. The Chief Guest released the conference proceedings to the gathering and it was received by dignitaries.

Dr.A.Albert Martin Ruban, Organizing Secretary of the Conference introduced the Chief Guest to the crowd. Dr. Majumdar has demonstrated leadership skills in Research and Development for the last 29 years from Industry, University and National Laboratory settings in the areas of atmospheric turbulence effects on free-space laser communications, propagation and imaging. His current research areas are Free-Space Laser Communications and advanced FSO Communications, Image corrections and Communications through atmospheric turbulence. He has published over 60 refereed journal and Conference papers

and technical reports, and serves as reviewer for IEEE, OSA, SPIE, Springer and Elsevier Journals. He was the co-chair of the SPIE's conferences of Free-Space Laser Communications until 2013. He has been invited to provide seminars / Short Courses in various organizations some of which includes SPIE, the Boeing Company, BAE Systems, UCLA, Colorado State University at Pueblo, Colorado, University of California at Riverside, California, University of Dayton, Ohio and Oxford University, UK etc. He owned 3 patents in the areas of optical communications, imaging and Underwater Detection. He has published 4 books which includes Springer, Elsevier and IET publications.

**Dr. Arun.K.Majumdar** delivered the inaugural address and explained the importance of conference. He explained about the recent trends, growth, future scope, ongoing projects and research in the field of Engineering. In addition, he delivered his keynote address on the basics of Free Space Optical Communication. Also, he educated the students with the advances in Free Space Optical Communication and its applications. The inauguration ends at 11.30 A.M.

**Dr. Arun.K.**Majumdar had a discussion with the students of all branches on the career opportunities for Engineering students in India and abroad. The students posed questions which were answered by the speaker. The students were inspired by his knowledge sharing which provided them awareness on the abundant opportunities. Technical sessions were arranged separately for the three branches in their respective departments. Paper presentation for Electrical and Electronics Engineering is held at Pallava hall and Machines lab in the main block.

Participants from various Engineering colleges exhibited their views, thoughts and research in the areas of Electrical and Electronics Engineering. Over 50 Technical papers were received from industrialists, UG, PG students and faculty members from various Engineering Institutions. Among them, 45 research papers from various areas such as Power Electronics, Power Systems, Smart grid, Renewable Energy and Wireless Sensor Networks were scrutinized for presentation through review committee. The topics discussed in the conference are quite useful to all the participants to bring new and innovative ideas in the current scenario. Mr.R.Sundaramoorthi, Mr.J.Arokiaraj, Dr.M.Meenalochani and Mrs.N.Rajeswari were the jury members for paper presentation.

The valedictory function was arranged at Chera Hall by 04.15PM. **Dr.S.M.Uma,** Programme Chair presented the summary of the conference .Delegates from the various institutions have registered their valuable feedback. The Certificates were distributed to the participants by the Chief Guest. **Prof. N.Mangayarkarasi,** Conference Convener delivered the vote of thanks. On behalf of the management, she expressed the sincere thanks to the Chief guest, the Secretary, the Principal, the Vice principal, Conference chair, teaching and non teaching faculty, event management committee, PG & UG students, delegates from various Engineering colleges for their excellent co operation to make this conference a grand success. Finally, the programme ended with National anthem.

# A glimpse of the Conference Events



Dr. Arun K.Majumdar on Dias along with our Secretary, Principal, Vice Principal and HoDs of CSE, ECE and EEE



Dr.J.Arputha Vijaya Selvi, Principal delivering the Welcome address



Lamp Lighting by the dignitaries





Presidential address by Dr.R.Rajendran, Secretary



Chief Guest introduction by Dr.A.Albert

Martin Ruban

CONFERENCE COORDINATORS/EEE

HOD/EEE

J. 19/3/2000
PRINCIPAL











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



**EMERGING TRENDS IN COMPUTING, CONTROL** AND COMMUNICATION TECHNOLOGY (ETCCCT'20) Jointly organized

> by Department of CSE, ECE & EEE

> > March. 2020

#### Scope

The National Conference on 'Emerging Trends in Computing Control and Communication Technology' aims to provide a forum for presenting and discussing innovations, ideal, new design and attemptive technologies in the fields of Computer Science and Engineering Electronics and Communication Engineering and Electrical and Electronics Engineering ETCCCT'20 is being organized by Kings College of Engineering, Punalkulam, near Thanjavur, Pudukkottal District, Tamil Nadu, India Trie conference also promotes affable environment for academia-industry interaction leading to exchange of research ideas and will feature keyloge. and invited talks by renowned academicians, industrialists and scientists of National repute



Last date for paper submission 27-02-2020 Acceptance notification 02-03-2020 the Camera ready copy 07-03-2020 Date Last date for registration 10/03/2020

Biometric Modeling Cloud Computing Computer Networks & Security

Data Mining Grid & Scalable Computing

Machine Learning and Deep Learning Semiconductor Devices and VLSI Parallel and Distributed Computing

Pervasive Computing Web based Computing

#### Computer Science & Engineering Electronics & Communication Engineering Electronics Engineering

Antennas and Microwave Engineering Cognitive System Research **Embedded Systems** Fuzzy and Neural based Systems Hyrbid System and Modeling Design Image Processing & Pattern Recognition IoT based Instrumentation Signal and Image Processing Wireless Communication Wireless Sensor Networks

Computational Intelligence in Power System, Pox **Electronics and Renewable Energy Sources** Distributed Generation and Micro/Smart Grids **Bectrical machines and Drives** Fuel Cells and Green Energy Systems **HVDC** and FACTS Intelligent Control, Robotics and Automation Systems Measurements and Data Acquisition, Safety & Reliability Power Market and Deregulation

Power System Reliability and Security

Rs. 750

Rs. 500

**Advisory Com** 

#### Lipo Wang.

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DRDO, Chenna Kumaravel S, National Institu tute of Technology, Calicut

shavan S, onal institute of Technology, Trichy shnan M, Madurai Kamaraj University, Madurai Selvakumar K. versity. Chidambaram

Sivakumaran N. onw Institute of Technology, Trichy

Technical Committee Agnes Idhaya Selvi KARE, Krishnankol Aruna Jeyanthy P. KARE Kristiniana Kongu Engineering College, Perundural Baskaran S.

Kuppam Engineering College: Kuppam (AP) Giftson Samuel G. Sir Isaac Newton Engg. College, hapipparium

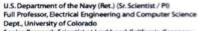
Jayasankar T. University College of Engineering, Trichy Kavitha MG,

University College of Engg. Rajamadam Kumar D. PRIST, Tharjavur Malathy M Veltech, Chennal Prabhu K. NIT-Surathkal, Karnataka

Suganthi S Christ University, Bangalore Vinoth Kumar K SSM Institute of Engg. & Tech. Dindigul Violet Juli PMIST, Thanjavur

KEY NOTE SPEAKER:

# Dr .ARUN K. MAJUMDAR



Senior Research Scientist at Lockheed-California Company Visiting Professor, NIST Caltech's Jet Propulsion Laboratory

Research Scholars

Students (UG/PG)

MIT Lincoln Laboratory (Staff Member) Visiting Professor, Brno University of Technology, Czech Republic **Registration Fee** 

#### Paper Submission

Authors are invited to submit full papers in the prescribed format as per the IEEE Paper Template. Authors should only submit their original work that has neither appeared else-where for publication nor is under review for any other refereed publica-tion. Submitted papers to ETCCCT20 should be approved by the co-authors and also by the responsible authorities at the institute where the work has been carried out. Manuscript should not contain plagiarized content. Submitted papers will be run through plagiarism soft-

#### **Publications**

All the accepted papers will be published in the conference proceeding with ISBN. In addition selected papers will be published in the special issue of BBRC journal based on the authors willingness on payment of additional

ww.kingsindia.net/etecet20.html

charges



Thanjavur

Other participants (Listeners) 8s. 200

DD can be drawn in favour of "The Principal."

Kings College of Engineering" payable at



#### Organizing Committee

Shri.T.R.S.Mush curve Officer

Dr.J.Arputha Vijaya Selvi, we mo

Vice Principal

Organising Secretary Dr. A. Albert Martin Ruban, Dept. of EEE

enme Chair Dr.S.M. Uma Dept. of CSE.

#### Prof. N. Mangaryarkarasi. Decs. of ECE. Steering Committee

Prof. S.Ragaragan, Dept. of CSE. Prof. & Sangeroha, Dept. of CSE. Prof.R. Portris, Dept. of ECE.

Prof.P.Thirumagai, Diepii, of ECE Prof.R. Sundaramounts, Dept. of EEE.

Dr. M. Meenalocham. Desk of EEE.

# Seminar on Career Guidance & Higher Studies







### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING ACADEMIC YEAR 2019-20 (EVEN)

NAME OF THE EVENT

: Alumni - Career Guidance & Higher Studies

NAME OF THE DEPT

: EEE

NUMBER OF BENEFICIARIES

: 25

NAME OF THE RESOURCE PERSON: Er.S.Arun Shyam Raj B.E., M.E

Project Engineer/ Usha Fire & Safety

Chennai.

DATE

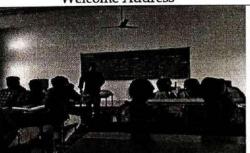
: 27.01.2020

#### PHOTOS:





Welcome Address



Vote of Thanks



Er.S.Arun Shyam Raj Interact with Students

### **Webinar on Optimization Techniques**











# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Webinar

On

"Optimization techniques" on 15.5.2020

### REPORT

The Department of Electrical and Electronics Engineering, IEEE Student branch and MHRD'S Institutions Innovation Cell have jointly organized webinar on "Optimization techniques" on 15.5.2020. The main objective of this webinar is to provide an online forum to exchange views, ideas & research solutions using different optimization techniques. During this lockdown due to Covid-19, this webinar which provides a platform for the Teaching Faculties, Research scholars in carrying out research in this field and Industrial person to upgrade and share their knowledge using different algorithms.

#### Resource person:

Session Title: "Soft Computing Techniques" by Dr.M.Meenalochani, Assistant Professor/EEE, Kings College of Engineering

#### Convener:

Dr.A. Albert Martin Ruban, Associate Professor & HOD/ EEE

#### Coordinators:

- 1. Mr.R.Sundaramoorthi, Assistant Professor / EEE
- Mr.S.R.Karthikeyan, Assistant Professor / EEE

# Participants:

**Total Registration: 157** 

External Participants Attended: 57 Internal Participants Attended: 12

Total: 69

# Webinar Session Details:

Invitations were sent through social media such as Whatsapp, Facebook and Instagram. We have got overwhelming responses from various Institutions and about 157 registrations have received. Webinar was conducted by Cisco WebEx Platform. The Programme was started with Welcome II. with Welcome address delivered by Mr.R.Sundaramoorthi, AP/EEE and Introduction about the resource person was given by Mr. S.R.Karthikeyan AP/EEE.

Dr.M.Meenalochani has delivered lecture in the area of optimization Techniques such as Ant colony optimization, Genetic Algorithm and Particle swarm optimization techniques using mathematical modeling of each. Then she has given complete overview of Genetic Algorithm and Ant colony optimization principles, flowchart, codings basics and implementation. She also has given how optimization Algorithms can be used in research Problems. She also delivered recent development optimization tools and windup the session by 12.15 P.M. Finally Programme has ended with vote of thanks by Mr.JArokiaraj AP/EEE.

After the programme, participants were interacted with presenters and clarified the doublts. All the attended participants were asked to submit the feedback form .we have received around 62 forms from the participants and gave positive comments.

### Webinar snapshots:



Fig1: Responses from the participants

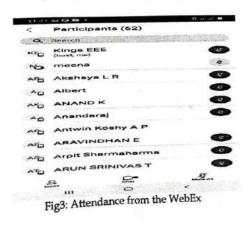




Fig2: Participants Faculty Ratio details

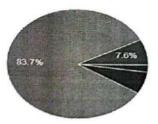


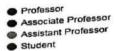
Fig4: Attendance from the WebEx

# FEEDBACK FROM THE PARTICIPANTS

Designation

92 responses





1. Nice session 2. Good 3. Very useful 4. Very good session 5. Totally Excellent 6. Very much informative and knowledgeable 7. Very informative session in optimization techniques 8. Good it was a keen experience of a Cisco webinar 9.I learned Optimization Algorithm newly. Really Superb. Thank u Kings College for arranging such programme.10. A great webinar session. Thanks to the Organizers and Presenter for conducting informative webinars.11. Very useful topic and informative, sharing information was very clearly12. Very well planned session 13. Valuable information for the researchers 14. Learned about swarm algorithms 15. Nice presentation and clear explanation 16. Excellent webinar 17. Well organized programme18. We expect more webinar like this19. Very well done20. Excellent seminar

Prepared by 2105 poor

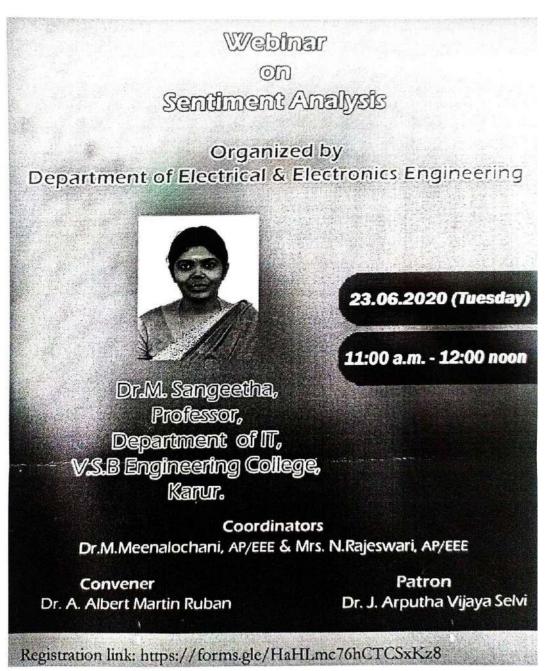
Vice principal

Verified by 2405 2000.
Head of the Department

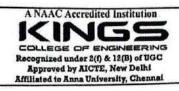
Principal 22/5/2020.

### **Webinar on Sentiment Analysis**











# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ACADEMIC YEAR 2020 - 2021 / ODD SEMESTER

#### WEBINAR REPORT

The department of Electrical and Electronics Engineering in has organized a national webinar on 'SENTIMENT ANALYSIS" on 23.06.2020 from 11.00 AM to 12.00 PM.

Beneficiaries

Students, Research scholars and Faculty from ECE, EEE and CSE

Session

11 A.M to 12.P.M

Venue

Online (Google meet)

Resource Person : Dr. M. Sangeetha,

Professor, Department of Information Technology,

VSB Engineering College,

Karur

The objective of this webinar is to impart in depth knowledge on sentiments to detect sentiment in social data, gauge brand reputation, and understand customers. Dr. M. Meenalochani, Assistant Professor/ Department of EEE, Kings College of Engineering welcomed the participants and introduced the Resource person. The resource person had given the lecture on "SENTIMENT ANALYSIS". In this lecture, she introduced the concepts of Sentiment analysis models which not only focus on polarity (positive, negative, neutral) but also on feelings and emotions (angry, happy, sad, etc), urgency (urgent, not urgent) and even intentions (interested \( \frac{1}{2} \) not interested). She explored that sentiment analysis aims to detect emotions, like happiness, frustration, anger, sadness, and so on. In this webinar, 51 participants registered from various Institutions all over India. Vote of thanks was given by Mrs. N.Rajeswari, Assistant Professor/ Department of EEE, Kings College of Engineering. Participants had their queries answered by the resource person at the end of the session. All the attended participants gave their valuable feed back after the webinar session and Ecertificate has been sent to them through email. The webinar brochure, copy of certificate for participants, list of participants and feedback analyses are given below.

### Webinar Brochure





# Sample Certificate



**List of Participants** 

.No	List of Participants  Name of the Institution	No. of Participants
		2
1	SRM institute of science and technology	2
2	S R University	11
3	MKSSS'S Cummins College of Engineering for Women, Pune	4
4	Shadan collage of engineering and technology	2
5	Dr Ambedkar Institute of Technology	1
6	Alliance University	1
7	Shiv Nadar University	2
8	Kumar traders	2
9.	Dhanalakshmi College of Engineering	1
10	Gramodaya's Shri Saibaba Institute of Engineering, Rahata	2
11	Secretary College of Engineering	2
12	Bharati Vidyapeeth's Jawaharlal Neharu Institute of Technology Katraj- Dhankwadi Pune	1
13	University of Allahabad	1
14	The purple wings	1
15	Srinix college of Engineering, Balasore	1
16	NBCC India Limited	1
17	Sardonyx Tech	1
18	Global logic	1
19	Optel Group	2
20	Vidyasagar Teachers' Training College	1
21	ADGS Gifts	2
22	Er.Perumal Manimekalai College of Engineering	17
23	Kings College of Engineering, Punalkulam Sample feedback from Participants	. 17

Excellent session	
Good	
Excellent	
GOOD	
Good	
Informative session	
More sessions	
Informative session	
Great	
Presentation nice	
Excellent Session	
Nice presentation	
Nice session	
excellent work	

Convenor

Vice Principal

Principal



# DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### **ACADEMIC YEAR 2019-20 EVEN**

ONE DAY WORKSHOP ON

# "ADVANCED CONTROL TECHNIQUES IN INDUSTRIAL ENGINEERING"

#### POST WORKSHOP REPORT

Event : Workshop

Title : Advanced Control Techniques in Industrial Engineering

Date : 21.02.2020

Technical Sponsor: IEEE Students Branch-STB16621&ISTE Students Branch TN 217

Number of Beneficiaries : External: 28

Internal: 04

Resource Persons : 1.Dr.S.Sivakumar, VP/KCE.

2. Mr.R.Sundaramoorthi, AP/EEE, KCE.

3. Mr.J.Arokiaraj, AP/EEE, KCE.

4. Dr.M.Meenalochani, AP/EEE, KCE.

Venue : Pallava Hall



At Inauguration



Welcome Address



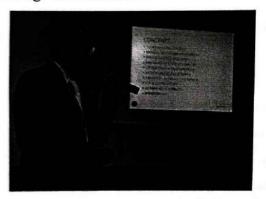
Inauguration Address

1 | 5

# OBJECTIVES OF ORGANIZING WORKSHOP:

- > To meet curriculum requirements.
- To provide knowledge about controllers and its Applications.
- > To understand the design of renewable energy systems using soft computing tools.
- To Know about the Advanced Technique in Industry.

In order to satisfy the above requirements, Department of Electrical & Electronic Engineering organized one day workshop on "Advanced Control Techniques in Industria Engineering" on 21.02.2020.





Session-I was handled by Dr.S.Sivakumar, Vice Principal, KCE

Session-I was handled by Dr.S.Sivakumar on "Introduction about Energy Scenario & Advanced Control Techniques in Industry". In his presentation he pointed out that the importance of energy consumption of nations. He presented lots of statistics regarding energy scenario. Vice Principal compared the various energy sources consumption by various nations from 1950's to till date. He mentioned the importance of renewable energy sources and also he discussed about the advanced control techniques used by industries.





Session-II was handled by Mr.R.Sundaramoorthi, AP/EEE, KCE

Session-II was handled by Mr.R.Sundaramoorthi on "Introduction about Controllers".

In his session he covered the following topics:

- > Introduction of controllers
- > Importance of controllers
- > Types of controllers.
- > Methodology and design
- > Types of conventional controllers
- > Programmable Logic Controllers (PLC)

He pointed out the lot of real time examples of Automatic over tank filling & Vehicle Acceleration. The session was very interactive and informative.









Session-III(Laboratory) was handled by Mr.J.Arokiaraj, AP/EEE, KCE

Session –III (Laboratory) was handled by Mr.J.Arokiaraj. In his session he demonstrated the working operation of solar panel with converter and DSP based PMBLDC motor speed control techniques.

# **Details of Solar Plant Details:**

Total Capacity : 1kWp

Panel :4

Each unit : 260Wp

3 | 5

# Details of Charge Controller:

Input Voltage

: (12 - 48) V - Variable

**Output Voltage** 

: (0 - 48) V - Constant

**Output Current** 

: (0-10) A

# **Details of Converter:**

Input Voltage

: 24 V - DC

**Output Voltage** 

: 220 V - AC (Sinusoidal PWM)

Capacity

: 3000 VA





Session-IV(Laboratory) was handled by Dr.M.Meenalochani, AP/EEE, KCE

Session-IV (Laboratory) was handled by Dr.M.Meenalochani on "Introduction of Simulating Software & Design of Renewable Energy Systems using Soft Computing tools". In her session she covered the following topics:

- > Introduction of soft computing
- > Comparison Hard & Soft computing
- Soft Computing tools
- > Applications of soft computing
- > Methodology and design by using soft computing tools

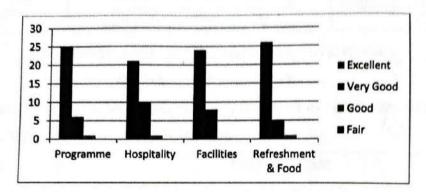


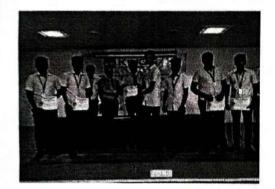


Feedback session

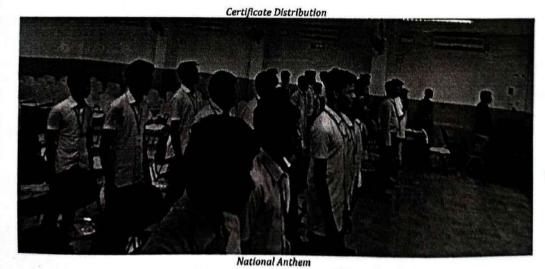
4 | 5

# Feedback was collected from 32 participants:









Prepared by

Verified by

Coordinator

Academic Coordinator

Principal

S | 5

# Participation

PG, UG and Diploma Students from various institution.

# Workshop Contents

- Introduction about Energy Scenario.
- Introduction about Controllers.
- Advanced Technique in Industry.
- Design of Renewable Energy systems using soft computing tools.
- Introduction of Simulating Software.

# Registration Fee per Participant: Rs. 150/-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to workshopeeekce@gmail.com.

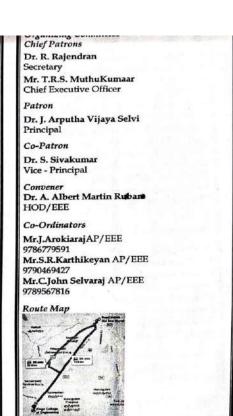
# Important Dates

Last date for Submitting Registration form

: 19.02.2020

Intimation of Acceptance : 20.02.2020

(through e-mail or Phone)





Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The college is approved by the AICTE, New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen KCE to rise to the status on one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely, Civil, CSE, ECE, EEE and Mechanical Engineering and four PG programmes namely, Computer Science & Engineering, VLSI Design, Power Electronics & Drives and Thermal Engineering. We strive and endeavor every passing day to build our students as technocrats.

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur - Pudukkottai National Highway.

The Electrical & Electronics Engineering Department is established in the year 2001. The department of EEE offers 4 year B.E degree course and 2 year M.E in Power Electronics and Drives(EEE). We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department has an approved research center for pursuing research (Ph.D) under Anna University, Chennai.

# Communication Address

Mr.J.Arokiaraj, Mr.S.R.Karthikeyan & Mr.C.John Selvaraj Co-ordinators of Workshop, Department of EEE. Kings College of Engineering, Punalkulam, Thanjavur - 613 303 Phone: 04362 282474, 282676

Mobile: Mr.J.Arokiaraj - 9786779591 : Mr.S.R.Karthikeyan - 9790469427 : Mr.C.John Selvaraj - 9789567816

E-mail: workshopeeekce@gmail.com

One Day Workshop On "ADVANCED CONTROL TECHNIQUES IN INDUSTRIAL ENGINEERING" Registration Form (Fill up in Capital Letters)

Name

□PG □UG Diploma

Department

Institution

Communication

Address

Phone/Mobile No.:

Email ID

Registration Fee

Date:

Signature of the Applicant

Sponsoring Certificate

This is to certify that Mr./Ms.

of is being sponsored for attending the one day workshop on "Advanced Control Techniques in Industrial Engineering" organized by department of EEE, Kings College of Engineering on 21st February, 2020.

Date:

Signature of sponsoring authority

# **Workshop on "Sensors & Controllers in Electrical Engineering Applications**



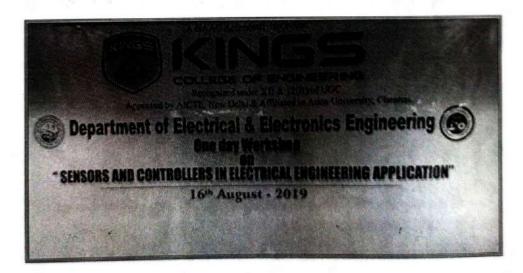
# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# ONE DAY WORKSHOP On SENSORS AND CONTROLLERS IN ELECTRICAL ENGINEERING APPLICATIONS

# REPORT

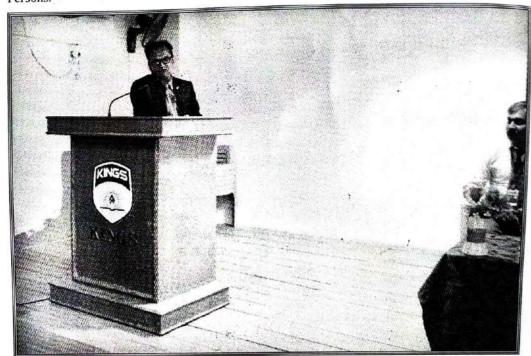
1 1/2 "

The Department of Electrical & Electronics Engineering of Kings College of Engineering, ISTE and IEI Students chapter jointly organized a one day workshop on "SENSORS AND CONTROLLERS IN ELECTRICAL ENGINEERING APPLICATIONS" on 16th August, 2019 at our college premises. Totally Seventy nine participants were participated in this programme. (External - 24 Participants, Intra department - 17 Participants and Internal participants - 38)



The inaugural function was presided over by Resource Persons Er. K. Amirtha Ganesh, Director, Armada Industrial Automation, Thanjavur, Dr. S. Sivakumar, Vice Principal, KCE and Er. S. Jagadeesan, Technical Officer, Electronics Corporation of India Limited Mr. J. Arokiaraj AP/EEE, Co-ordinator of Workshop delivered the welcome address.

Our Vice Principal Dr. S. Sivakumar delivered the inaugural address, followed by introduction of resource person given by Ms. M. Meenalochani, AP/EEE. Our Head of the department Dr. A. Albert Martin Ruban, Convener of this workshop were honored the Resource Persons.



Inaugural address, Dr. S. Sivakumar, Vice Principal



Guest of honor



During the presentation session I, he has explained the following content, Introduction about Sensors.

- Introduction about Industrial sensor Based Controllers.
- Sensors used in Domestic Applications.



Resource Person Mr. K. Amirtha Ganesh, delivered his speech



In Session II - Dr. S. Sivakumar, delivered his speech

During the presentation session II, he has explained in the following content,

- ✓ Design of Controllers Based on Simulation Software.
- ✓ Sensors used in Industrial, Domestic & Mobile Applications.
- ✓ Advanced Sensor & Controller Techniques in Power Electronics.
- ✓ Tools used in sensors Controllers.
- ✓ Sensor & Controllers based Industrial Opportunities.



In Session III - Resource Person Er. S. Jagadeesan, delivered his speech



**Participants** 



Valedictory function, Vice Principle and Convener with Workshop team



**Certificate Distribution** 



**Vote of Thanks** 

At the valedictory function Mr. S.R.Karthikeyan AP/EEE, Co-ordinator of Workshop delivered vote of thanks.

COORDINATORS

CONVENER VP

PRINCIPAL

# Participation

PG, UG and Diploma Students from various

# Workshop Contents

- Introduction about Sensors.
- Introduction about Industrial sensor Based Controllers
- Design of Controllers Based on Simulation Software.
- Sensors used in Domestic Applications.
- Advanced Sensor & Controller Techniques in Power Electronics.

# Registration Fee per Participant: Rs. 200/-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to workshopeeekce@gmail.com.

# Important Dates

Last date for Submitting Registration form

: 12.08.2019

Intimation of Acceptance (through e-mail only)

: 14.08.2019

# Organizing Committee

Chief Patrons

Dr. R. Rajendran Secretary

Mr. T.R.S. Muthu kumaar Chief Executive Officer

Dr. J. Arputha Vijaya Selvi Principal

# Co-Patron

Dr. S. Sivakumar

Vice - Principal & Head (T&P)

Dr. A. Albert Martin Ruban HOD/EEE

# Co-Ordinators

Mr.J.Arokiaraj AP/EEE Mr.S.R.Karthikeyan AP/EEE

## Route Map





# **About Our Institution**

Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The college is approved by the AICTE, New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen KCE to rise to the status as one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely - EEE, ECE, CSE, Mechanical and Civil Engineering and four PG programmes namely - VLSI Design, Thermal Engineering, Power Electronics & Drives and Computer Science & Engineering. We strive and endeavor every passing day to build our students as technocrats.

# How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur - Pudukkottai National Highway.

# Genesis

The Electrical & Electronics Engineering Department is established in the year 2001. The department of EEE offers 4 year B.E degree course and 2 year M.E in Power Electronics and Drives (EEE). We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department has an approved research center for pursuing research (Ph.D) under Anna University, Chennai.

# Communication Address

The Head of the Department Department of EEE. Kings College of Engineering, Punalkulam,

Thanjavur - 613 303

Phone: 04362 282474, 282676 Mr.J. Arokiaraj & S.R. Karthikeyan AP/EEE Co-ordinators of Workshop:

Mr.J.Arokiaraj - 9786779591 S.R.Karthikeyan - 8248821507

E-mail: workshopeeekce@gmail.com

# One Day Workshop

on "Sensors and Controllers in Electrical Engineering Applications'

> Registration Form (Fill up in Capital Letters)

Name

☐PG ☐UG ☐Diploma

Department

Institution

Communication Address

Phone/Mobile No. :

Email ID

Registration Fee

Date: Signature of the Applicant

Sponsoring Certificate

This is to certify that Mr./Ms.

department is being sponsored for attending the one day workshop on "Sensors and Controllers in Electrical Engineering Applications" organized by Department of EEE, ISTE & IEI Student Chapter, Kings College of Engineering on 16th August, 2019.

Signature of sponsoring authority (with seal)







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ACADEMIC YEAR 2019-2020(EVEN)

# INTERNAL SEMINAR-REPORT

Department of EEE has organized Internal Seminar on "Simulation software tools for Electrical Engineering" for second and third year EEE students on 28.2.2020. The main objective of the internal seminar is to provide basic introduction about Software simulation tools to be used for Electrical Engineering Department and provide overview of different Apps in the field of Electrical engineering.

# Resource Person:

Mr.R.Sundaramoorthi, Assistant Professor/EEE

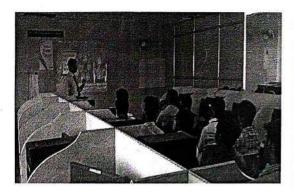
Mr.R.Sundaramoorthi AP/EEE has introduced about the simulation software requirements and importance of Software simulation tools in the field of Electrical Engineering. He also mentioned that different software Applications used in Electrical Engineering and he has briefed about the following different software tools and functions.

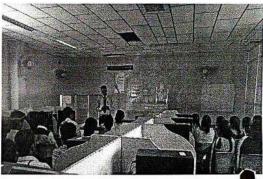
- MATLAB (Software for Numerical Computing)
- Simulink (GUI based software for Dynamic System Simulation)
- Pspice (Electrical Schematic Software)
- Multisim (Circuit Simulation & PCB Design Software)
- ETAP (Software for Electrical Power Systems)
- Power World Simulator (Visual power system analysis software)
- PSCAD(Electro Magnetic Transient Analysis software)
- PSS/E(Power system simulator for Engineers)
- Lab view(Designing Interfacing and HMI's)
- · Keil U vision

He has given detailed explanation about all the software tools details such as specifications, tool boxes and cost details. At the end of the session, students were

interacted and asked questions about software version, cost of the simulation software tools and how to use in the field of Electrical Engineering problems.

# **SNAPSHOTS**





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

# OUTCOME:

- Students will able to emphasize theoretical knowledge with hands on training using different simulation software tools.
- Software tools are essentially, a program that allows the students to observe a theoretical operation through simulation.
- Simulations will become more immersive and will continue transforming applications in the field of Electrical Engineering.

FACULTY INCHARGE

HOD/EEE

PRINCIPAL

# **Guest Lecture on "Embedded Systems"**







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on "Embedded Systems"

# REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on 'Embedded Systems" on 31st January, 2020.

Beneficiaries

III Year Students.

Sessions

7th and 8th Sessions.

Venue

Simulation lab

Resource Person

: Mr.T.Jeyaseelan,

Assistant Professor/ECE

Kings College of Engineering, Punalkulam

The objective of this Guest Lecture is to impart fundamental knowledge on embedded systems and their design.

The resource person starts the session with the interaction to students about the recent developments in electronic products that utilize microprocessors and microcontrollers embedded within them to carry out the required operation. He educated the students with the hardware, software and other resources required for designing an embedded system. Also, he introduced the concepts of Real Time Operating System which is essential in designing an embedded product. He also suggested project ideas in embedded systems that can be developed by the students and the possibilities of getting funds for these projects. In addition, he provided basic demonstration on Arduino microcontroller and its connections. Students are motivated to do mini embedded products of their own using Arduino microcontroller.

Staff in-charge

Head of the Department

# Photographs of Lecture Sessions EKINGS Y

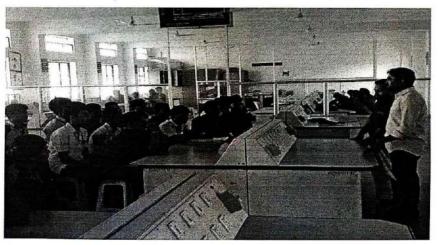
# Seminar on "Story Telling & Opportunities of Electrical Engineers in Private Sector"

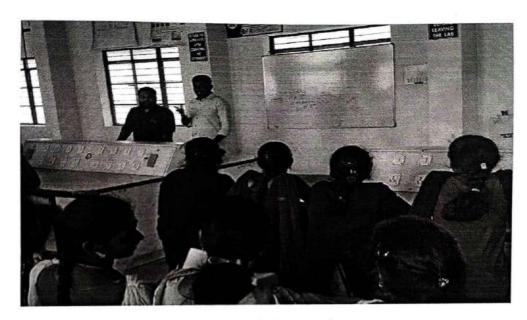
# POST SEMINAR REPORT

The seminar organized by Department of Electrical and Electronics Engineering & ISTE Student Chapter on "OPPORTUNITIES OF ELECTRICAL ENGINEERS IN PRIVATE SECTOR" on 10.02.2020. The session started with silent prayer and then the session continued with the welcoming address and introduction of resource person given by Mr.R.Sundharamoorthi AP/EEE. 15 students of third EEE and 15 students of second year EEE were present. They have delivered an interesting talk about the above topic.



Resource person interact with students about their career





Presentation given by Resource Persons.

Er.Vel Murugan & Er.Nithish Bathiran (Resource persons) discussed about the career opportunities in non government sector and willingness of students then how to work for the same to achieve. In their seminar they have also pointed out and focused about GATE exam, how to get ready, and the things need to be focused while attending the same.







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# **KINGS SCIENCE EXPO - 2020**

# Report

Kings Science Expo-2020, an online Project Exposition is planned on 05.06.2020 with an exceptional idea to showcase the research talents, innovativeness, and creativity of all final year Engineering students. The main aim for conducting such a program is to enhance the knowledge of students and motivate them to compete in the global competitive engineering field. The Expo acted as a forum to bring together students of various Engineering colleges to discuss innovative ideas and diverse topics on next generation technologies. Students are encouraged to develop prototype projects on recent societal issues with better efficiency and low-cost.

# **Objectives of the Expo:**

- To provide a forum for sharing new design and alternative technologies.
- To promote affable interactive environment leading to exchange of new research ideas.

# **Topics of interest:**

- (i) Renewable Energy-Green Energy
- (ii) Bio-medical Instrumentation
- (iii) Power Electronics
- (iv) Power Systems
- (v) Modern Power Systems
- (vi) Smart Grids
- (vii) VLSI in Power Electronics/Systems
- (viii) Embedded Systems
- (ix) Electrical Machines and Drives
- (x) Control Systems and Instrumentation

The Expo for Electrical and Electronics Engineering is scheduled at 10.30 A.M through online mode using Cisco Webex platform. Totally five batches registered for the Expo out of which one is

external and the remaining four batches are internal. Each batch is provided 15 minutes for their project demonstration.

The details of participants are as follows:

Batch ID	Participants	College	Title of the Projects
1.	M.Jai Sai Ram J. Mohamed Kalifa T. Veeramani	Kings College of Engineering	Automatic Fish Feeder Using An Intelligent Feeding Controller
2.	A.Praveen kumar S.Parthiban P.Aravindan	Kings College of Engineering	Implementation of battery monitoring system using IoT for electric vehicle applications
3.	R.Pavithra M.Rasika R.SakthiSridevi	Kings College of Engineering	Prediction of Fault and Protection of Single Phase motor
4.	T.Mutharasan A.Pavithran R.Raguraman	Kings College of Engineering	Implementation of GSM based Control and Monitoring of Substation
5.	S.Vimalraj V.Sathish S.Arul selvan M.Kabilan	Anjalai Ammal Mahalingam Engineering college	A Novel approach for EFOP: Analysis and Control of Electrolytic-less LED driver

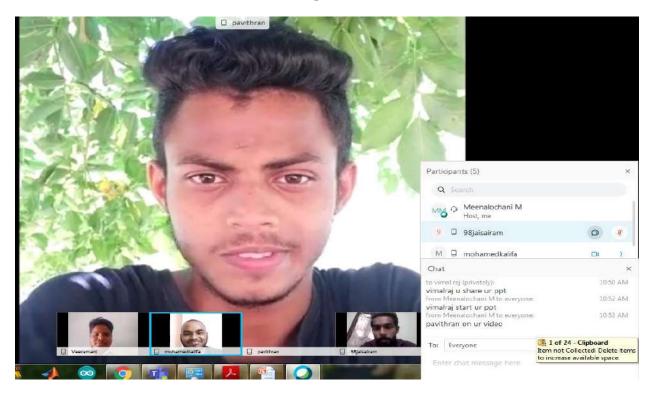
The participants are judged based on the following criteria:

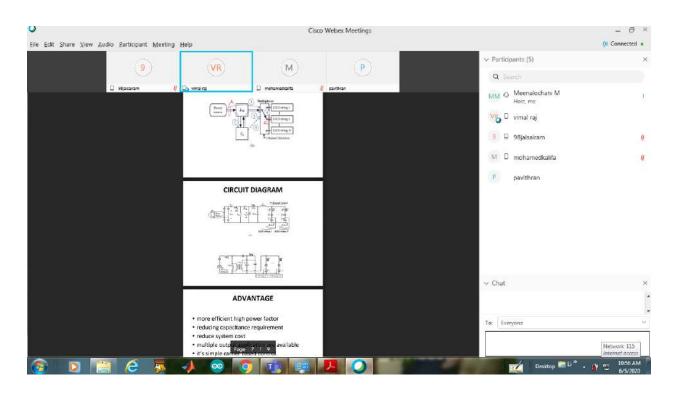
- Design (Compactness and the efficiency of work done)/Model of the project
- Innovation/Novelty
- Relevance with practical need
- Presentation skills
- Clarification of queries

# **Outcomes of the Project Expo**

- Develop professionals having good skills, self-learning ability and confidence to support and contribute to the growth of relevant industries.
- This provides opportunity for the students to demonstrate their learning experience.

# **Snapshots**









# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# **EXTENSION ACTIVITY ON**

# "DEMONSTARTION OF ELECTRICAL MACHINES"

14.02.2020

Venue: Electrical Machines Lab

# POST EXTENSION ACTIVITY REPORT

The Extension Activity Programme was organized by Department of Electrical and Electronics Engineering on "DEMONSTARTION OF ELECTRICAL MACHINES" for Blake Higher secondary school plus two students on 10.02.2020. Over hundred students were participated. Dr.A.lbert Martin Ruban HOD/EEE,Mr.J.Arokiaraj AP/EEE &Mr.C.Johnselvaraj AP/EEE was coordinated the programme. Students were segregated with group and Introduction about Electrical Machines was delivered by HOD/EEE. Before to start the session, general awareness, procedure and guidelines were informed to all the students. After that, Mr.J.Arokiaraj AP/EEE has explained about the basics of DC Machines and principle. He also delivered practical demonstration of Motor wiring connection. Mr.C.Johnselvaraj AP/EEE, has explained about AC Machines and fundamentals. He has pointed out the basic principles of AC starters and methods of control.





Demonstration classes given by Dr.A.lbert Martin Ruban HOD/EEE, Mr.J.Arokiaraj AP/EEE& Mr.C.Johnselvaraj AP/EEE

# **Post Conference Report**

of

National Conference on Flourishing Areas in Electrical and Electronics Engineering (NACOFEE'19)

15th March 2019

# Organized by

**Department of Electrical & Electronics Engineering** 







An ISO 9001 Certified Institution

Punalkulam, Gandarvakottai Taluk,

Pudukkottai-613 303

Phone: 04362 - 282474, Fax: 04362 - 282494

WWW.kingsindia.net

The Department of Electrical and Electronics Engineering has organized the National conference on "Flourishing areas in Electrical and Electronics Engineering-(NACOFEE'19)", Department of Electronics and Communication Engineering has organized the National Conference on "Emerging Trends in Electronics and Communication (NCETECE'19)" and the Department of Computer Science and Engineering has organized National Conference on "Emerging Trends in Advanced Computing Technology (NCETACT'19)" 15.03.19 in Chera Hall.

This conference is committed to become the preferred and common hub for the researchers, academicians, practicing Engineers, and industrialists to exhibit their new research findings. It seeks solutions for the research/industrial challenges/problems, and makes avenue to develop networking with hundreds of professionals in the field Electrical, Electronics, communication and computer Science.

The programme was started with Inaugural session by 10.00AM.

Dr.J.Arputha Vijaya Selvi, Principal has delivered the welcome address to the conference gatherings and honored the chief guests Dr.S.Albert Alexander, Asso Prof/EEE, Kongu Engineering College, Perundurai, Dr.S.Krishnakumar, Senior Technical Officer, DRDO and Prof.Jennifer Bliss, STEM Consultant, University of Jowa, USA. Dr.S.Sivakumar, Vice Principal and HOD (T&P), has felicitated the chief guest with memento as the token of honor.

The Chief Guests have released the conference proceedings to the gatherings of the conference and it was received by dignitaries of the dais.

**Dr.R.Rajendran**, Secretary, Kings College of Engineering has delivered the presidential address. He has explained the current scenario of Engineering Colleges and students education. He has registered his strong views about the scope of the conference. He said that this National conference will be a platform for Researchers, academicians and PG students to discuss about recent trends, 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.

# CONFERENCE REPORT

March 15, 2019

Mrs.A.Prabha, Assistant Professor/EEE has delivered the vote of thanks. On behalf of the management he expressed the sincere thanks to the Chief guest Dr.S.Albert Alexander, the Principal, the Vice principal, HOD-EEE, Conference chair, teaching and non teaching faculties, event management committee, PG & UG students, delegates from various Engineering colleges for their excellent co operation to make this conference a grant success. Finally the programme was ended with National anthem.

# MEMORIES OF NATIONAL CONFERENCE NACOFEE'19 - 15th MARCH 2019



Dignitaries on the Dias



Lighting of Kuthu vilakku by the chief guest of NACOFEE'19-Dr.S.Albert Alexander, Asso.Prof/EEE, Kongu Engineering College, Perundurai.



Dr.S.Sivakumar Vice Principal honoring the chief guest of NACOFEE'19 with shawl memento



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Welcome address given by Dr.J.Aruputha Vijiya Selvi, Principal



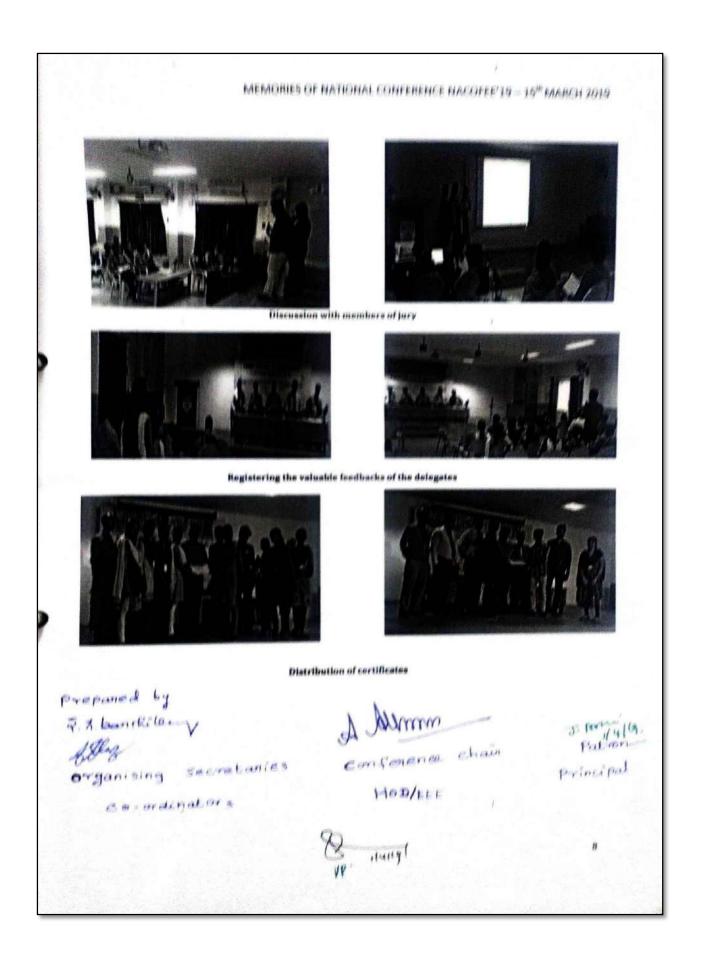
Presidential address given by Dr.R.Rajendran, Secretary



Presence of Dr.A.Albert Martin Ruban, and participants in chera Hall for Inaugural Function



Introduction of chief guest given by Mr.J.Arokiaraj,  $AP/EEE \label{eq:approx} AP/EEE$ 





# About Our Institution

Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The college is approved by the AICTE, New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen KCE to rise to the status on one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely, EEE, ECE, CSE, Mechanical and Civil Engineering and four PG programmes namely, VLSI Design, Thermal Engineering, Power Electronics & Drives, and Computer Science & Engineering. We strive and endeavor every passing day to build our students as

Electrical and Electronics Engineering Department is established in the year 2001. The department of EEE offers 4 year B.E degree course and 2 year M.E in Power Electronics and Drives(EEE). We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department has an approved research centre for pursuing research (Ph.D) under Anna University, Chennai.

# Conference Objective

The conference is committed to become the preferred and common hub for the researchers. academicians, practicing engineers, policy makers and industrialist to exhibit their new research results, to seek solutions for their research / industrial challenges / problems, to develop networking with hundreds of professionals in the field of interest.

# Conference Themes

Energy conservation and harvesting. Energy efficient and power saving technology. FACTS Controllers.

Biomedical instrumentation.

Bioinformatics and material science

PLC & SCADA systems.

Power delivery and signaling for IC Chips. Soft computing techniques in power systems.

Power Quality issues & Enhancement.

Intelligent control systems

Role of Nuclear energy and its issues. Robotics & Automation systems.

New Power converter topologies.

High Voltage Engineering. New Inverter Technologies.

Power system security.

Renewable Energy systems. Embedded systems and drives

Control systems.

Measurements & Data acquisition.

Safety, Reliability &

Smart sensors in power systems. Distributed Generation.

Deregulated power systems.

Smartgrids & Microgrids in power systems. Optimal power management.

Original research and unpublished paper invited in the above list of themes fro practicing engineers and PG Students. Tr guidelines for preparing full length paper should be followed as per IEEE format. To papers shall be reviewed by the experts an authors will be intimated as per schedu Atleast one author of the paper should regist for the conference. Only selected papers wi registration fee will be entertained for presentation and published in the conferen proceedings.

# Paper Submission

The papers must be submitted through E-Mai in both MS word (.doc & .docx) and PDF forma (compulsorily it must be in IEEE format) to nacofee19@kingsindia.net

# How to Apply

Apply through online. For details visit www.kingsindia.net. The Hard copy of the registration form along with DD should be sent to the Conference chair.

# Registration Fee

Conference: Rs. 500/ International Journal: Rs. 500/

# Important Dates

Submission of full camera ready paper: 10.3.2019 Notification for Acceptance : 12.3.2019 Conference date : 15.3.2019

# Conference Publication

Best papers will be published in reputed International Journal.

# 5" Washined Traference whing Areas in Electrical and Electronics Engineering 71400788119

Registration Form (Fill up in Capital Letters)

UG PG Academicians Industrialis

Department

Institution

Communication

Address

Phone/Mobile No.:

Email ID

Registration Fee

DD.No.

Date of DD.

Name of the Bank :

Signature of the Applican

Sponsoring Certificate

This is to certify that Mr./Ms.

of \_\_\_\_\_ department is being sponsored for attending the Nation Conference on "Flourishing Areas in Electrica and Electronics Engineering" organized by Department of EEE, Kings College of

Engineering on 15th March, 2019.

Signature of sponsoring authori (with seal)



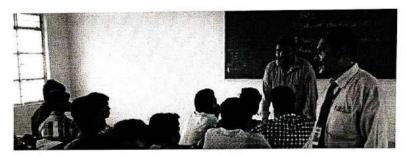




# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# Seminar on "Opportunities of Electrical Engineers in Government Sector"

Department of Electrical and Electronics Engineering & ISTE Student Chapter organized a seminar on "Opportunities of Electrical Engineers in Government Sector" on 29.09.2018. The session started with silent prayer. Mr.J.Arokiaraj AP/EEE gave a formal welcome address and introduced the resource person. 29 students (third and second year) were present. They are very interesting about the seminar particularly on topic.



**Introduction of Resource Person** 



Resource person interact with students about their career



Presentation given by Resource Person

Er.K.Sukumar, discussed on the opportunities available for engineers in the government sector and instituted the students to get themselves prepared for achieving the opportunity. In addition, he pointed out the importance of GATE exam, preparation, parameters to focus while attending the same. He motivated the students in securing a job in the government sector through GATE examination.

# Participation

Faculties, Research Scholars, PG and UG Students from AICTE recognized institutions.

# Seminar Contents

- ✓ Introduction to Automation.
- ✓ PLC Programming Languages.
- ✓ Industrial Automation-overview
- ✓ SCADA and Screen development, HMI and its applications.
- ✓ Distributed Control system and Intelligent motor control system.
- ✓ Industrial Robotics.
- ✓ Vision of the future of Automation.

# Resource Person:

Mr. Mohamed Rafeeq

Manager AGIIT

Trichy.

Registration Fee per Participant: Rs.250/-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to sundaramoorthi.r@kingsindia.net

# **Important Dates**

Last date for Submitting

Registration form : 15.2.2019

Intimation of Acceptance :18.2.2019

(through e-mail only)

# **Organizing Committee**

Chief Patrons

Dr.R.Rajendran Secretary

Mr.T.R.S.Muthu kumaar Chief Executive Officer

# Patron

Dr.J.Arputha Vijaya Selvi Principal

# Co-Patron

Dr.S.Sivakumar Vice-Principal

# Convenor

Dr.A.Albert Martin Ruban HoD / EEE

# **Co-ordinators**

Mr.R.Sundaramoorthi, AP/EEE Mobile Number: 9965156904

Mr.C.John Selvaraj, AP/EEE Mobile Number: 9789567816

# One Day Workshop

On

"Advanced Industrial Robotics and Automation"

22<sup>nd</sup> February, 2019



Jointly Organized by

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



A NAAC Accredited Institution

An ISO 9001 Certified Institution Approved by AICTE, New Delhi Affiliated to Anna University, Chennai Punalkulam, Thanjavur - 613 303 Phone: 04362 282474, 282676.

> Fax: 04362 282494 www.kingsindia.net

# **About Our Institution**

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KCE, run by Raj Educational Trust (RET), Chennai is a fast growing Technical Institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers four UG programmes namely EEE, ECE, CSE, Mechanical Engineering and Civil Engineering and five Post Graduate programmes namely VLSI Design, Thermal Engineering, Power Electronics and Drives and Computer Science Engineering. We strive and endeavor every passing day to build our students as technocrats.

# How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur – Pudukkottai National Highway.

# Genesis

The Electrical and Electronics Engineering Department is established in the year 2001. The Department of EEE offers 4 year B.E in Electrical and Electronics Engineering and 2 year M.E in Power Electronics and Drives. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the stateof-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department has approved research centre for pursuing research (Ph.D) under Anna University, Chennai.

# Accommodation

Participants are requested to make their own arrangements. However, requests for suitable accommodation could be made..

# Communication Address

Mr.R.Sundaramoorthi & Mr.C.John Selvaraj, Co-ordinators of Workshop, Department of EEE, Kings College of Engineering, Punalkulam, Thanjavur – 613 303

Phone: 04362 282474, 282676

Mobile: Mr.R.Sundaramoorthi 9965156904 Mr.C.Johnselvaraj -9789567816

E-mail: sundaramoorthi.r@kingsindia.net

Website: www.kingsindia.net

# One Day Workshop "Advanced Industrial Robotics and Automation " 22<sup>nd</sup> February, 2019 **Registration Form** (Fill up in Capital Letters) Name Faculty Research Scholar PG UG Department Institution Communication Address Phone/Mobile No.: Email ID Registration Fee : Rs.250/-Date: Signature of the Applicant Sponsoring Certificate This is to certify that Dr./Mr./Ms.\_\_\_\_ of \_\_\_\_\_ department is being sponsored for attending the one day workshop on "Advanced IndustrialRobotics and Automation" jointly organized by department of EEE and IEEE student branch (IEEE STB 16621), Kings College of Engineering on 22<sup>nd</sup> February, 2019. Date: Signature of sponsoring authority

(with seal)







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING One Day Workshop on

"Advanced Industrial Robotics and Automation" on 22.02.2019

# **REPORT**

The department of Electrical and Electronics Engineering and ISTE Student branch –TN 217 has jointly organized a one day workshop on "Advanced Industrial Robotics and Automation" on 22.02.2019. The main objective of this workshop is to create an idea of advanced automation using PLC, SCADA, New robot program development techniques such as robot calibration functions, robot offline programming (OLP) software, robot vision data integration and robot torque sensing to the students of engineering domain.

# Resource persons:

- Session 1: Introduction about Automation, PLC Programming, HMI and its applications by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy.
- Session 2: Industrial Robotics and SCADA and Screen development, robot calibration functions, robot offline programming and Practical session by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy.
- Session 3:PLC module and design, Vision of the future of Automation by Mr.K.Amirtha Ganesh, Managing director, AIA, Thanjavur.

# Convener:

Dr.A.Albert Martin Ruban, Associate Professor & Head / EEE

# **Coordinators:**

- 1. Mr.R.Sundaramoorthi, Assistant Professor / EEE
- 2. Mr.C.John selva raj, Assistant Professor / EEE

# **Inaugural Session:**

Inaugural session was started by 10.15 A.M preside over by Dr.S.Sivakumar, Vice Principal, T&P Head.The dignitaries on the Dais during the inaugural session were, Dr.A.Albert Martin Ruban, Head / EEE, Resource person Mr. Mr.Mohamed Rafeeq, Manager, AGIIT and the Program Coordinators Mr.R.Sundaramoorthi and Mr.C.John selva raj. The program was started by Thamizh Thaai Vaazthu followed by Welcome address delivered by Dr.A.Albert Martin Ruban, Head / EEE AP/EEE and Introdction about workshop has delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

# **Participants:**

External: 40 Internal: 07 Total: 47

# Session 1- Introduction about Automation, PLC Programming, HMI and its applications by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy

In the first session, resource person has started about the Introduction of Automation, PLC Programming, PLC Architecture, Parts of Programmable controller. He also delivered the lecture on Industrial robotics design and modules with animation videos. During this session, the participants were actively interacted with the resource person.

# Session 2: Industrial Robotics and SCADA and Screen development, robot calibration. functions, robot offline programming and Practical session by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy

During the second session resource person has interacted with the participants. Laboratory session was conducted through PLC Kit demonstration. He also delivered software description and hardware configuration. Finally he has mentioned that Industry 4.0 requirements and Job opportunities in Automation sector. The session was very informative and the participants were interacted with the resource person.

# Session 3: PLC module and design, Vision of the future of Automation by Mr.K.Amirtha Ganesh, Managing director, AIA, Thanjavur

After the Lunch break, Mr.K.Amirtha Ganesh, Managing director, AIA, Thanjavur has delivered the lecture on Advance Industrial Automation and demonstrated some Industrial projects using PLC Kit. During this session, resource person has elaborated the components required for different applications in various projects using PLC Module. All the Participants were actively participated. This session was very interactive.

# **Valedictory Function:**

The feedback from the participants was collected. Mr.C.John selvaraj,AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem

# **Event Photographs:**



Welcome address delivering by Dr.Albert Martin Ruban HoD/EEE



Presidential Address by, Dr.S.Sivakumar, Vice Principal and Head/T&P, KCE



Resource person demonstrating PLC Kit during Practical Session.



Participants receiving certificates during Valedictory function

# Workshop on "Recent Trends in Electrical Engineering"







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING One Day Workshop on

"Recent Trends in Electrical Engineering" on 15.02.2019

# REPORT

The department of Electrical and Electronics Engineering and IEEE Student branch (IEEE STB 16621) has jointly organized a one day seminar on "Recent Trends in Electrical Engineering" on 15.02.2019. The objective of this workshop is to impart fundamental knowledge of Electrical Engineering, Design of Renewable Energy Systems using soft computing tools, Winding techniques, Industrial and domestic wiring and Advanced techniques in Power Electronics to the participants of polytechnic students.

# Resource persons:

- Session 1- Introduction about Electrical Engineering and Industrial &domestic wiring by Dr.S.Sivakumar, Vice Principal and Head/T& P, KCE
- Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP / EEE, KCE.

# Session 3:Practical session

Mr.J.Arokiaraj AP/EEE, Mr.R.Sundaramoorthi AP/EEE, Mrs.N.Rajeswari AP/EEE, Mr. S.R.Karthikeyan AP/EEE and Mr. C.John Selvaraj AP/EEE Kings College of Engineering, Punalkulam.

# Convenor:

Dr.A.Albert Martin Ruban, Associate Professor & Head / EEE

# Coordinators:

- Mrs.N.Rajeswari, Assistant Professor / EEE
- 2. Ms.E.Suganya, Assistant Professor / EEE
- 3. Mr.S.Sakthivel, Assistant Professor / EEE

# **Inaugural Session:**

The dignitaries on the Dais during the inaugural session were Dr.S.Sivakumar, Vice Principal & T&P Head KCE, Dr.A.Albert Martin Ruban, Head / EEE, Mr.R.Sundaramoorthi Academic coordinator and Mrs.N.Rajeswari, Ms.E.Suganya and Mr.S.Sakthivel, Program Coordinators. The program was started by Thamizh Thaai Vaazthu followed by Welcome address delivered by Mr.S.Sakthivel AP/EEE.The Presidential address was delivered by our Vice Principal Dr.S.Sivakumar.

# Participants:

MEENACHI GOVINDHARAJAN POLYTECHNIC		19
CCMR POLYTECHNIC COLLEGE		3
GOVT.POLYTECHNIC COLLEGE - VALANGAIMAN		2
RAMYA SATHIYANATHAN		10
PRIST	-	6
PERIYAR		8
GOVT.POLYTECHNIC COLLEGE - PUTHUPATTI		32

# Session 1- Introduction about Electrical Engineering by, Dr.S.Sivakumar, Vice Principal and Head/T& P, KCE:

The resource person started the session about the fundamentals of Electrical Engineering, Components and Symbols, Electrical equipments and Inventors, Current rating and voltage rating. He also delivered the lecture on Industrial and domestic wiring. During this session, the participants were actively interacted with the resource person.

# Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP/EEE, KCE.

The introduction about the resource person of this session was given by Mr.R.Sundaramoorthi, AP/EEE. The resource person started the session with the basics of Renewable Energy with simple example followed by types of Renewable Energy and need of Renewable Energy, Global warming. She also delivered how Renewable Energy will be used in future of India. Finally she has mentioned that funding Agencies requirements and Job opportunities in Power sector. The session was very informative and the participants were interacted with the resource person.

# Session 3: Practical session

After the Lunch break, the Laboratory session was conducted. Faculty members have demonstrated self controlled operation of synchronous induction motor, DSP based SRM motor, DSP based BLDC motor, FBGA based dc motor drive and stepper motor drive using Spartran 6.2i, Demonstration for live wire detector, range finder, motor and generator. This session was very interactive and useful.

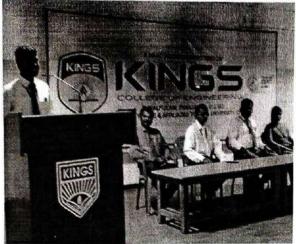
# Outcome:

The students were able to understand the basics of electrical and Renewable energy. They understand the awareness of renewable energy and job opportunites in power sector.

# Valedictory Function:

The feedbacks from the participants regarding the workshop were collected. Then, Ms.E.Suganya, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem.

### **Event Photographs:**



Welcome address delivering by Mr.S.Sakthivel AP/EEE



Presidential Address by, Dr.S.Sivakumar, Vice Principal and Head/T&P, KCE



Session 1:Introduction about Electrical Engineering by Dr.S.Sivakumar, VicePrincipal



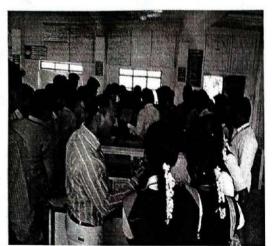
Participants listening the session



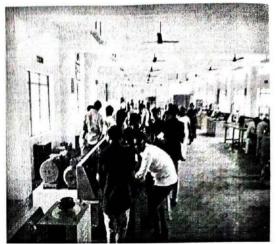
Session 2: Design of Renewable Energy sources using Soft computing tools by Mrs.A.Prabha AP/EEE, KCE



Session 3: Practical Sessions



Practical Session at Power Electronics Lab



Practical Sessions at Electrical Machines

Valedictory Function



Certificate distribution



Vote of thanks

Prepared by

Coordinators

Academic Coordinator

Principal Principal

Verified by

Head of the Department







## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Seminar on

"Advanced Techniques in Renewable Energy Sources" on 22.02.2019

### REPORT

The department of Electrical and Electronics Engineering and ISTE Student branch –TN 217 has jointly conducted Guest lecture on "Advanced Techniques in Renewable Energy Sources" for second, third and final year EEE students. The main objective of this guest lecture is to create an idea about fundamental knowledge in the field of Renewable Energy Sources and recent techniques used in the field to our students.

### Resource persons:

Session 1 : Introduction about Renewable Energy Sources and Software tools. by Mr.R.Sundaramoorthi AP/EEE

Session 2: Types of Renewable Energy Sources and techniques. by Mr.S.R.Karthikeyan AP/EEE

## <u>Session 1- Introduction about Renewable Energy Sources and Software tools by</u> Mr.R.Sundaramoorthi AP/EEE.

In the first session, Resource person has started with fundamental Knowledge of different renewable energy technologies such as solar, wind, geothermal etc. He has pointed out the comparisons between Nonrenewable and Renewable Energy sources. He has explained about list of software tools are available in the market and role of software packages used in Renewable Energy technologies. During this session, the participants were interacted with the resource person.

## Session 2: Types of Renewable Energy Sources and techniques used in the field by Mr.S.R.Karthikeyan AP/EEE .

During the second session resource person has delivered the lecture on advanced techniques used in Renewable Energy Sector, future scope in India. He also explained about how power electronics technology can be used in Energy sector. Finally he has mentioned that Industry requirements and Job opportunities in Renewable Energy. The session was very informative .

### **Event Photographs:**







# (NAAC Accredited Institution)



oved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Guest Lecture on "Solar Energy Scenario in India" on 25.08.2018

### REPORT

The department of Electrical and Electronics Engineering has organized a Guest Lecture on 'Solar Energy Scenario in India" on 25th August, 2018.

Beneficiaries All II, III and IV Year Students.

Sessions 7th and 8th Sessions.

Venue Pallava Hall

Resource Person Dr.S.Sivakumar,

Professor & VP,

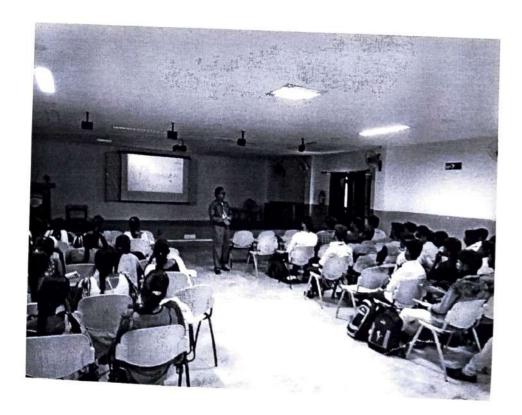
Kings College of Engineering.

The objective of this guest lecture is to impart fundamental knowledge on solar energy and its potential in India.

The resource person started the session by interacting with the students about the maximum power generation and demand in India. He delivered lecture on "status of solar energy production & its need". He explained the potential of solar energy in India, how much potential available and the research areas that can be developed under solar power system in India. He also delivered the project ideas in solar system that can be developed by the students and the possibilities of getting funds for these projects. He also shown some of the photographs of solar power plants in India and around world, solar energy project based videos and the current statistical data's regarding the solar power production and its usages.

### Photographs of Lecture Sessions







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



# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Seminar on "CAREER GUIDANCE" on 31.01.2019

### <u>REPORT</u>

Venue: Chera Hall

Time: 01.30 p.m to 04.30 p.m

Participants: IV Year EEE and Selected IV Year students from Civil, CSE, ECE and

Mechanical.

**Total Participants: 81** 

Coordinator: Mr.C.Balaji, AP/EEE

Resource Person: Mr.G. Lawrence, AP/Training & Development,

Gnanam School of Business, Sengipatti, Thanjavur.

The department of Electrical and Electronics Engineering has organized a seminar on "Carreer Guidance" on 31.01.2019 for final year students.

The objective of this seminar is to create awareness among the outgoing students on the steps for success in interviews.

The Program was started with invocation followed by brief introduction about the resource person. The department head Dr.A.Albert Martin Ruban honored the resource person with shawl and momento.

The session started with group activity to impart knowledge about What industries required? and What is the role of a leader in an organization? etc.,

The session continues with the presentation of 7 habits of highly effective people. For each habit a small video has been played and regular interaction has been made by the resource person with the students.

The students have shown their interest in interacting with the resource person and refreshing activities (Small games) have also been conducted. The sessions were very informative and highly interactive for our final year students. At the end, feedback from the students was collected and the session ended up with vote of thanks delivered by our final year students.

pared by

Verified by

Head of the Department

J. Mills

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### Dignitaries on the dais



### Honouring the Resource Person









# DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING ACADEMIC YEAR 2018-19 (EVEN)

### WORKSHOP-(SPOKEN TUTORIAL ON "LaTex")

### **OBJECTIVE OF SPOKEN TUTORIAL:**

Spoken tutorial is well known that seeing and hearing someone explain a process greatly improves understanding and help to learn and use open source software.

The Spoken Tutorial project is the initiative of the 'Talk to a Teacher' activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.

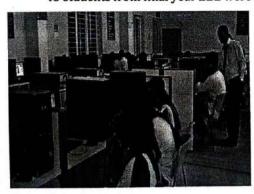
The use of spoken tutorials to popularize software development and its use will be coordinated through website http://spoken-tutorial.org/. (The Spoken Tutorial project is being developed by IIT Bombay for MHRD, Government of India). The project conducts software training workshops using spoken tutorials and give certificates to those who pass an online test.

### PROGRAM CONDUCTED:

Department of Electrical & Electronics Engineering conducted spoken tutorial workshop "LaTex".

Venue: CSE Lab-II Date: 22.02.19

45 students from final year EEE were attended this workshop.





P. M. work Cuy 27/2/19
IQAC Member/EEE

Academic Co-Ordinator

HOD/EEE TH

J. 188/2/9.







# DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING ACADEMIC YEAR 2018-19 (ODD)

### WORKSHOP-(SPOKEN TUTORIAL ON "OSCAD & LaTex")

### OBJECTIVE OF SPOKEN TUTORIAL:

Spoken tutorial is well known that seeing and hearing someone explain a process greatly improves understanding and help to learn and use open source software.

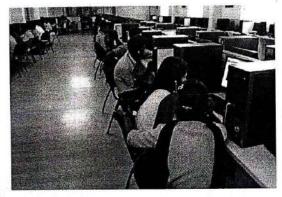
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### PROGRAM CONDUCTED:

Department of Electrical & Electronics Engineering conducted spoken tutorial workshop "OSCAD & LaTex".

Venue: CSE Lab-I Date: 17.09.18

The Third year & Final year students of EEE, 40 final year and 13 third year students were attended this workshop.

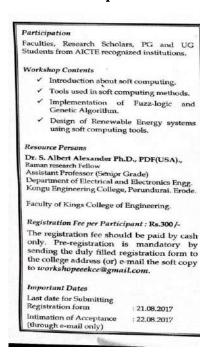


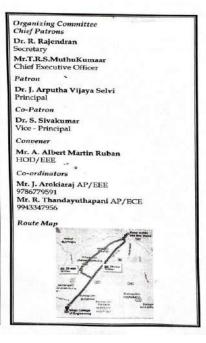


J. K. Gon Rile V 28/9/18 IQAC Member/EEE

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### Workshop on "Soft Computing Techniques for Renewable Energy Sources"







#### About Our Institution

Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The college is approved by the AICTE, New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen KCE to rise to the status on one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai, is a fast growing technical institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers flvg UG programmes namely, EEE, ECE, CSE, Mechanical and Civil Engineering and five PG programmes namely, VLSI Design, Mobile and Pervasive Computing, Thermal Engineering, Power Electronics & Drives, and Computer Science & Engineering, We strive and endeavor every passing day to build our students as technocrats.

### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur – Pudukkottai National Highway.

#### Genesis

The Electrical & Electronics Engineering and Electronics & Communication Engineering Departments are established in the year 2001. The department of EEE & ECE offers 4 year B.E degree courses and 2 year M.E in Power Electronics and Drives(EEE) & VLSI Design(ECE). We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our departments have an approved research center for pursuing research (Ph.D) under Anna University, Chennai.

### Communication Address

Mr.J.Arokiaraj, & Mr.R.Thandayuthapani, Co-ordinators of Workshop, Department of EEE, & ECE. Kings College of Engineering, Punalkulam, Thanjavur - 613 303

Phone: 04362 282474, 282676

Mobile: Mr.J.Arokiaraj - 9786779591 : Mr.R.Thandayuthapani - 9943347956

E-mail: workshopeeekce@gmail.com

One	Day Wo	rkshop	
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This is to certify th	at Dr./Mr	/Ms	_
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is being sponsore workshop on "So, for Renewable .	ft Comp	uting Technique	es

Engineering on 24th August, 2017.

Signature of sponsoring authority (with seal)







# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING & DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### ONE DAY WORKSHOP

On

### SOFT COMPUTING TECHNIQUES FOR RENEWABLE ENERGY SOURCES

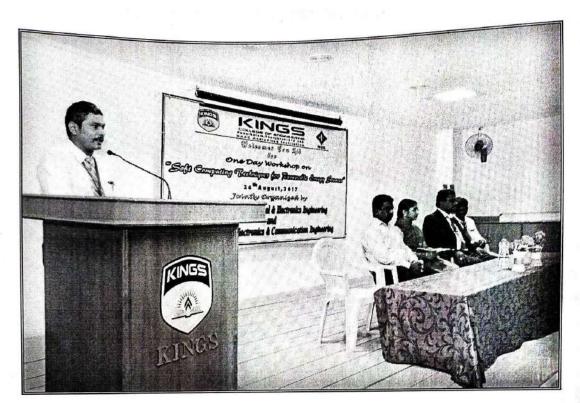
### REPORT

The Department of Electrical and Electronics Engineering & Electronics and Communication Engineering of Kings College of Engineering jointly organized a one day workshop on Soft Computing Techniques for Renewable Energy Sources on 24th August, 2017 at our college premises. Thirty external participants from various Engineering colleges from all over Tamilnadu and fifty internal participants were participated in this programme.



The inaugural function was presided over by Resource Person Dr. S. Albert Alexander, AP(Sr.G)/EEE, Kongu Engineering College, Perundurai, Erode at 10.00 AM. Mr. J. Arokiaraj AP/EEE, Co-ordinator of Workshop delivered the welcome address.

Our Principal Dr. J. Arputha Vijaya Selvi delivered the inaugural address, followed by introduction of resource person given by Ms. A. Prabha, AP/EEE. Our Principal Dr. J. Arputha Vijaya Selvi and Prof. A. Albert Martin Ruban, HOD/EEE - Convener of this workshop were honored the Resource Person.

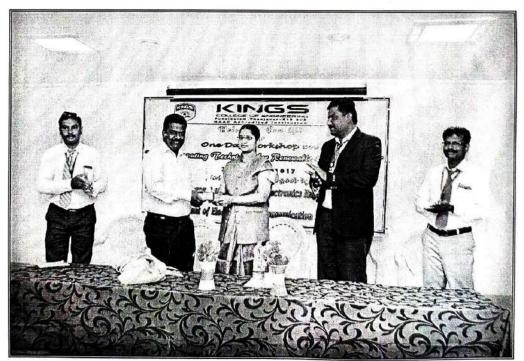


Mr.J.Arokiaraj AP/EEE, Co-ordinator, Welcome Address



Inaugural address, Dr.J. Arputha Vijaya Selvi, Principal





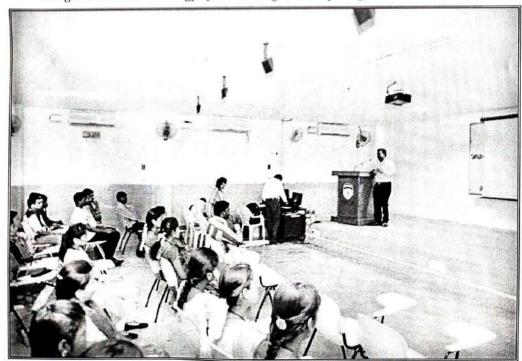
**Guest of honor** 

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During the presentation session, he has explained in the following content,

- ✓ Introduction about soft computing.
- ✓ Tools used in soft computing methods.
- ✓ Implementation of Fuzz-logic and Genetic Algorithm.
- ✓ Design of Renewable Energy systems using soft computing tools.



Resource Person Dr. S. Albert Alexander, AP(Sr.G)/EEE, Kongu Engineering College

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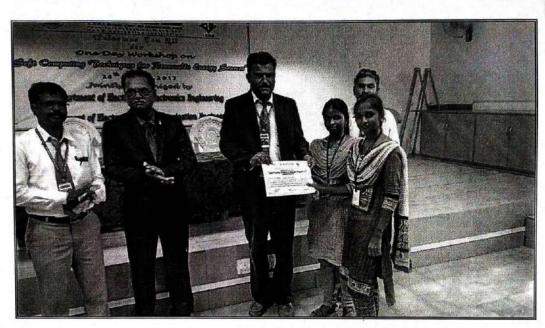


**Participants** 

Our internal resource persons Ms.N.Hemavathi, AP/EEE and Mr.P.Narasimman, AP/EEE were handled the lab sessions on soft computing techniques and its Application.



Valedictory function, Vice Principle and Convener with Workshop team



**Certificate Distribution** 

At the valedictory function Mr. R.Thandayuthapani AP/ECE, Co-ordinator of Workshop delivered vote of thanks.

COORDINATORS

CONVENEROISIN

DDINCIDAL

### Workshop on "Smart Grid - Future Electric Grid"

#### About Our Institution

Kings College of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The College is approved by the AICTE, New Delhi and affiliated to Anna University, Chennai and accredited by NAAC. The drive from our management and dedication of the faculty has seen KCE to rise to the status on one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET), Chennai is a fast growing Technical Institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers free U.G programmes namely EEE, ECE, CSE, Mechanical and Civil Engineering, and tive PG programmes namely VLSI Design, Mobile and Pervasive Computing, Thermal Engineering, Power Electronics & Drives, and Computer Science & Engineering, We strive and endeavor every passing day to build our students as technocrats.

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Thanjavur is well connected by Read / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur - Pudukkottai National Highway.

#### Genesis

The Electrical and Electronics Engineering Department is established in the year 2001. The Department of EEE offers 4 years B.E in Electrical and Electronics Engineering and 2 years M.E in Power Electronics and Drives. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the students of a well established with the students to achieve their goals. Our department is an approved research centre for pursuing research (Ph.D) under Anna University, Chennai.

#### Accommodation

Participants are requested to make their own arrangements. However, suggestions to suitable accommedation could be made on request.

#### Communication Address

Mr.C. Balap, & Mrs.A. Prabha, Co-ordinators of Seminar, Department of EEE, Kings College of Engineering, Punalkulam, Tharpavur - 613 303

Phone: 04362 282474, 282676

Mobile: Mr.C.Balaji - 9688664222 Mrs.A.Prabha - 9629180241

E-mail: ecodopt@kingsindia.net

Website: www.kingsindia.net

### One Day Seminar On "Smart Grid - Future Electric Grid"

Registration Form

☐ Faculty ☐ Research Scholar ☐ PG ☐ UG

Department :

Name

Communication Address

Phone/Mobile No. : Email ID

Registration Fee : Rs.250/-

te: Signature of the Applicant

Sponsoring Certificate

This is to certify that Dr./Mr./Ms.\_

of department is being sponsored for attending the one day seminar on "Smart Grid - Future Electric Grid pointly organized by department of EEE and IEEE student branch (IEEE STB 16621), Kings College of Engineering on 27° September, 2017.

Signature of sponsoring authority (with seal)

### Participation

Faculties, Research Scholars, PG and UG Students from AICTE recognized institutions.

### Seminar Contents

- ✓ Overview of Smart Grid
- ✓ Difference between Conventional Grid and Smart Grid
- ✓ Infrastructure for Smart Grid
- ✓ Internet of Things (IoT) Introduction & applications in Smart Grid

### Resource Persons

Dr.G.Giftson Samuel, Professor & Principal, Department of EEE, Sir Issac Newton College of Engineering & Technology, Pappakoil, Nagapattinam

Mrs.N.Hemavathi, Assistant Professor, Department of EEE, Kings College of Engineering, Thanjavur.

### Registration Fee per Participant: Rs.250/-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to ecedept@kingsindia.net

#### Important Dates

Last date for Submitting Registration form

: 20.09.2017

Intimation of Acceptance (through e-mail only) : 22.09.2017

Organizing Committee

### Chief Patrons

Dr.R.Rajendran Secretary

Mr T R.S. Muthu Kumaar Chief Executive Officer

### Patron

Dr J. Arputha Vijaya Selvi Principal

### Co-Patron

Dr.S.Sivakuma Vice-Principal

### Compense

Prof.A.Albert Martin Ruban, HoD / EEE

#### Co-ordinators Mr.C Balaii

Mobile Number: 9688664222

Mrs. A. Prabba

Mobile Number: 9629180241

### One Day Seminar

On

"Smart Grid - Future Electric Grid"

27th September, 2017



Jointly Organized by

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



A NAAC Accredited Institution

An ESO 9001 Certified Institution Approved by AICTE. New Delhi Affiliated to Anna University, Chernaal Puralkulam, Thanjavur - 613 303 Phone : 04362 282474, 282676 Fas: 04362 282494 www.kingsindia.net



# KINGS COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE, New Delhi, Affiliated to



### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### One Day Seminar on "Smart Grid - Future Electric Grid" on 27.09.2017

### REPORT

The department of Electrical and Electronics Engineering and IEEE Student branch (IEEE STB 16621) has jointly organized a one day seminar on "Smart Grid – Future Electric Grid" on 27.09.2017. The objective of this seminar is to impart fundamental knowledge of Smart Grid and its infrastructure, Difference between conventional Grid & Smart Grid, and the applications of Internet of Things (IoT) in Smart Grid.

### Resource persons:

- Mrs.M.Meenalochani, Assistant Professor / ECE, ARJ College of Engineering and Technology, Mannargudi.
- Mrs.N.Hemavathi, Assistant Professor / EEE, Kings College of Engineering, Punalkulam.

### Convenor:

Prof.A.Albert Martin Ruban, Associate Professor & Head / EEE

### Coordinators:

- 1. Mr.C.Balaji, Assistant Professor / EEE
- 2. Mrs.A.Prabha, Assistant Professor / EEE

### **Inaugural Session:**

The dignitaries on the Dais during the inaugural session were Dr.J.Arputha Vijaya Selvi, Principal, KCE, Prof.A.Albert Martin Ruban, Head / EEE, Resource persons Mrs.M.Meenalochani, & Mrs.N.Hemavathi and the Program Coordinators Mr.C.Balaji and Mrs.A.Prabha. The program was started by Thamizh Thaai Vaazthu followed by Welcome address delivered by department head, Prof.A.Albert Martin Ruban. The Presidential address was delivered by our Principal Dr.J.Arputha Vijaya Selvi.

### Participants:

External: 61

Internal: 34

Total: 95

# Session 1- Overview of Smart Grid, Difference between Conventional Grid and Smart Grid and Infrastructure for Smart Grid by Mrs.N.Hemavathi, AP/EEE, KCE:

The introduction about the resource person of this session was given by Mr.C.Balaji, AP/EEE. The resource person started the session about the overview of smart grid followed by the structure for smart grid, five key technologies in smart grid, differences between conventional and smart grid. During this session, the participants were actively interacted with the resource person and she also delivered about the underlying technologies of smart grid, need for demand side management – control of the load of specific appliances. She also discussed about the smart grid infrastructure, smart meters, Intelligent Electronic Devices (IED), Wide Area Network (WAN), Home Area Network (HAN), Power Line Carrier (PLC), and Cloud service models for smart grid.

# Session 2: Internet of Things (IoT) - Introduction & applications in Smart Grid by Mrs.M.Meenalochani, AP/ECE, ARJ College of Engineering and Technology.

The introduction about the resource person of this session was given by Mrs.A.Prabha, AP/EEE. The resource person started the session with the basics of IoT, with simple example followed by structure of IoT, applications of IoT, current status and future prospect of IoT. She also discussed about the efficient waste management in smart cities and intelligent systems for a more connected world. She also delivered about Wireless sensor networks (WSN), the future of WSN in smart home / smart office and applications of WSN. The session was very informative and the participants were interacted frequently with the resource person.

### Session 3: Discussion and Doubt clearing

After a short break, the session resumed with the discussion on the economic factors, future trends and projects regarding the smart grid. This session was very interactive.

### Valedictory Function:

The feedbacks from the participants regarding the workshop were collected. Then, Mrs.A.Prabha, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem.

Transfe (1).

Prepared by

Verified by

Head of the Department

# National Conference on Flourishing Areas in Electrical and Electronics Engineering (NACOFEE-18)

### Report on "NACOFEE '18

4th National Conference on Flourishing Areas of Electrical & Electronics Engineering





Releasing Proceedings "NACOFEE18"

**Chief Guest Address** 

Department of Electrical and Electronics Engineering, Kings College of Engineering and ISTE Student Chapter organized 4th National Conference on Flourishing Areas of Electrical & Electronics Engineering on 19th March, 2018. The Conference was well organized with Chief Patron, Patron, Co-Patron, Convener and Organizing team with Organizing Secretaries. A team of inspired faculties and students sent brochure to more than 100 colleges and received positive response from 67 authors from 12 Engineering colleges apart from our internal participants. The Programme was organized at AV Hall. The conference was inaugurated at 9.30A.M with auspicious presence of the Chief Guest Dr.M. Venkata Kirthika, Associate Professor, National Institute of Technology, Tiruchirappalli and Mrs. N.Hemavathi, Assistant Professor of EEE welcomed the gathering. Vice Principal Dr.S.Sivakumar delivered presidential address followed by the introduction of Chief Guest by Prof. A. Albert Martin Ruban, Head, Department of EEE. The Chief Guest addressed about the significance of attending National and International Conferences, the job opportunities for electrical engineers. The Conference Proceeding was released by the Chief Guest and Vice Principal received it. The presentations of 30 papers were scheduled in three sessions. All the participants presented their technical innovations to the juries and participants.



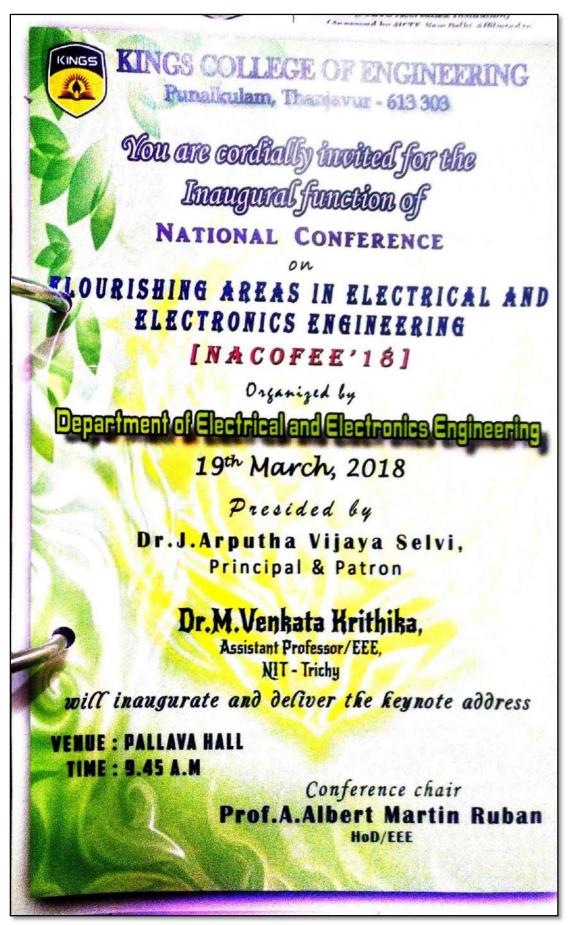
The valedictory function was schedule from 4.00 P.M. to 4.30 P.M. The feedbacks from the participants were collected and few oral feedbacks were given. The certificates for the participants were distributed by the Chief Guest, Head and Organizing secretaries. Mr.M.Mayapandi, Assistant Professor, Department of EEE proposed Vote of Thanks.

2. M. Molii

Organizing Secretary

HOD 21316

J: 1 2
Principal









### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# Guest Lecture on "CAREER GUIDANCE AND INTERVIEW SKILLS" on 07.08.2017

### REPORT

Venue: Pallava Hall

Time: 11.00 am to 12.30 pm

Participants: IV Year EEE

Resource Person: Mr.G. Lawrence, AP/ Training & Development,

Gnanam School of Business, Sengipatti, Thanjavur.

The department of Electrical and Electronics Engineering has organized a Guest Lecture on "Carreer Guidance and Interview Skills" on 07.08.2017 for final year EEE students. The objective of this guest lecture is to create awareness among the outgoing students on the steps for success in interviews.

The Program was started with invocation followed by brief introduction about the resource person. The session started with the key points for preparation to a successful interview and practice. The suggestions given during lecture sessions are as follows:

- i) Self evaluation
- ii) Before the interview
  - a) Research the company
  - b) Practice interviews
  - c) Dress professionally
  - d) Arrive early
- iii) During the interview
  - a) First impressions (only in 30 seconds)
  - b) Smile
  - c) Body Language
  - d) Speak clearly

- e) Listen before answering
- f) Give brief answers
- g) Previous employers
- h) Be truthful
- i) Know your resume
- j) Keep things at a professional level
- iv) After the interview
  - a) Back in touch
  - b) Get everyone's business card
  - c) Thank the interviewer

After this session guidance has been given for Group Discussion (G.D). i.e, six steps for initiation and seven steps for conclusion in G.D. The students have shown their interest in interacting with the resource person regarding the common interview questions and positive and negative point in G.D. At last, a mock interview has been conducted with the students for better understanding. Refreshing activities (Small games) have also been conducted. The lecture sessions were very informative and highly interactive for our final year students. The necessary materials were issued to the students during lecture sessions. At the end, feedback from the students was collected and the session ended up with vote of thanks delivered by our final year students.

Prepared by

Coordinator

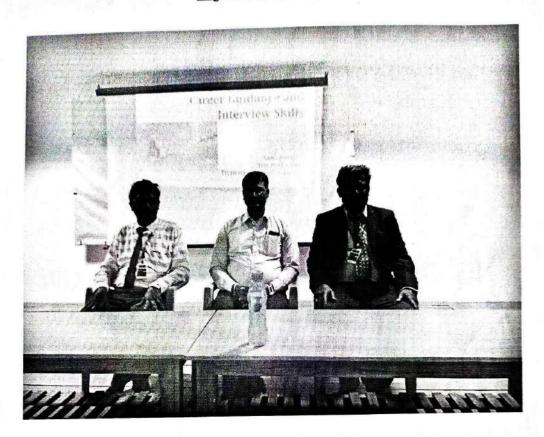
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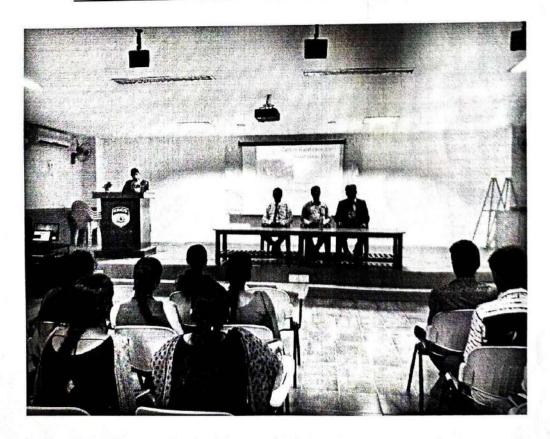
Head of the Department

Principal

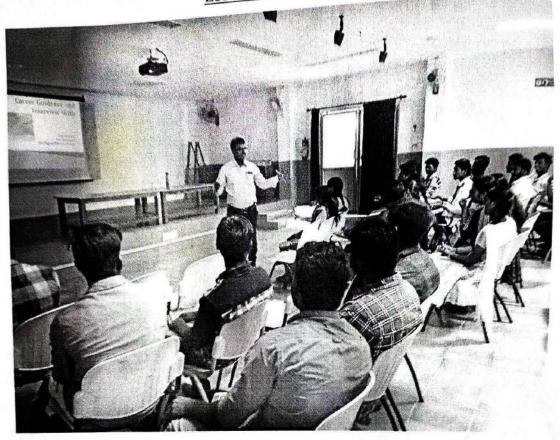
### Dignitaries on the dias



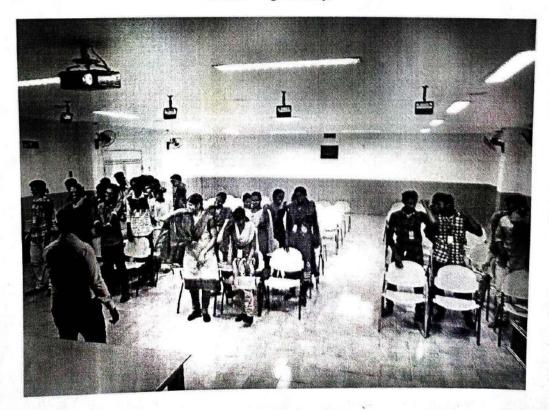
Welcome address & Introduction about the Resource Person



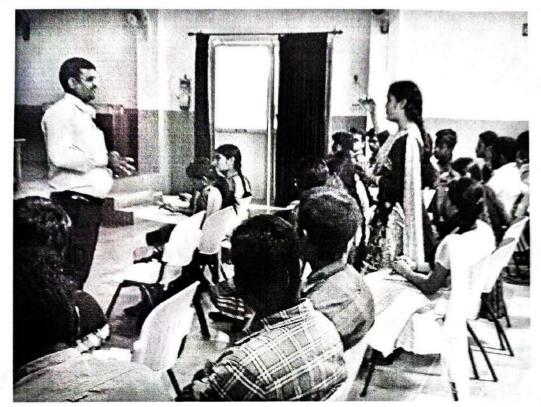
# Lecture Session



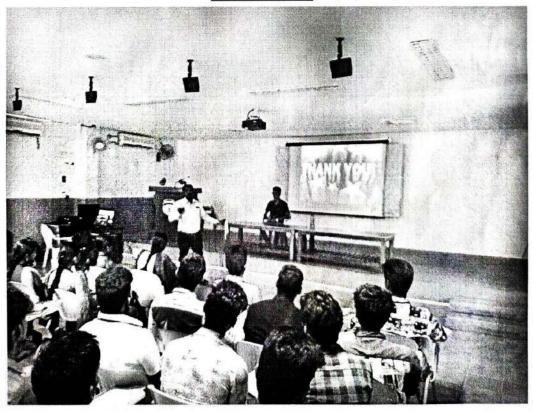
Refreshing activity



### Interaction with the resource person



Mock interview

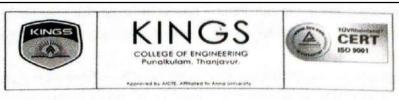


## Feedback by the Students



### One Day Workshop on Inverterless Solar Power For Domestic Appliances

### Report



### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

One Day Workshop on
"Inverterless Solar Power for Domestic Appliances" on
23.09.2016

### REPORT

The department of Electrical and Electronics Engineering & IEEE student chapter has jointly organized a one day workshop titled as "Inverterless Solar Power for Domestic Appliances" on 23.09.2016. The objective of the workshop is to create awareness about usage of solar power to home without inverter.

### Resource persons:

- Dr.P.S.Kannan, Professor (Emeritus), Kings College of Engineering, Punalkulam.
- Dr.S.Sivakumar, Vice Principal & HOD/EEE, Kings College of Engineering, Punalkulam.

### Convenor:

Dr.S.Sivakumar, Vice Principal & HOD/EEE

### Coordinators:

- 1. Mr.C.Balaji, AP/EEE
- 2. Ms.S.Elavarasi, AP / EEE

### **Inaugural Session:**

The dignitaries on the dais during the inaugural session were Dr.P.S.Kannan, Professor (Emeritus), HoD/EEE, Chief COE Prof.A.Albert Martin Ruban, Prof.T.Kannan and the Program Coordinator Mr.C.Balaji. The program was started with Thamizh Thaai Vaazthu followed by Welcome address delivered by final year EEE student Ms.K.Gayathri. Presidential address and the introduction of resource person Dr.P.S.Kannan has been given by the Head of EEE Department. 54 participants

(29 external and 25 internal) attended the workshop. Dr.P.S.Kannan was the Chief Guest of the session and delivered the lecture about the utilization of solar power to home without inverter.

### Session 1-Innovative Technology for utilizing Solar Power to home without inverter:

Dr.P.S.Kannan discussed that the power cuts and poor voltage has been a regular feature, troubling both residents and industrialists alike in the region. When inverter sales are booming due to erratic supply, a new technique is proposed to maintain uninterrupted power supply (UPS) by making use of basic direct current (DC) from solar power and batteries.

He also told that the Solar power production is DC and the power stored in batteries is also DC, hence the same DC can also be used at home for running electronic equipment without using an inverter. Most electrical appliances and electronic gadgets can be used with DC power. Running a DC system along with the AC system eliminates the need of inverters, this method is useful to avoid sine wave problem in inverter. Battery life will be high and there is lesser transmission loss. All electronic equipment / devices available in the market can directly be powered using 180 to 220 volts of DC sources instead of 230 Volts AC sources required for normal operations.

He concluded that the television, personal computer, fluorescent lamp with electronic ballast, CFL lights, mobile chargers, digital set top boxes, DVD players, and laptops can be operated using DC supply. Nowadays ceiling fans are also available for working in both AC and DC. A working model of this technique is already installed at our Electrical Machines Laboratory and is feeding 2 sets of fluorescent lamp with electronic ballast, 2 CFL lights and a computer system with LCD monitor.

### Session 2: Visit to Solar Energy Lab

In this session, the participants visited the solar energy lab installed at electrical machines lab at Kings College of Engineering. Dr.P.S.Kannan and the staff of EEE department demonstrated the solar based lighting system.

### Session 3: Solar PV System - Current Scenario & Status of Solar Energy Production

The session after lunch was started by Dr.S.Sivakumar, Head/EEE delivered a lecture about Solar Energy - Current scenario and status of solar energy production & its need. He explained the potential of solar energy in India, how much potential available and the research areas that can be developed under solar power system in India. He also delivered the project ideas in solar system that can be developed by the students and the possibilities of getting funds for these projects.

### Session 4: Discussion and Doubt clearing

After a short break, the session was started with the resource persons Dr.P.S.Kannan and Dr.S.Sivakumar to discuss about the possibilities of such a system in home, economic factors, future trends and projects regarding this system with the participants. This session has been a very interactive session.

### **Valedictory Function:**

The feedbacks from the participants regarding the workshop were collected. Then, Ms.S.Sowmiya of Third Year EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem.

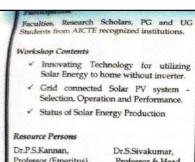
Prepared by

Verified by

Head of the Department

Dr. S. Sivakumar, B.E., M.Tech., Ph.D., Professor & Head-EEE Department, Kings College of Engineering, Punalkulam-613 303.

### **Brochure**



Dr.P.S.Kannan,
Professor (Emeritus),
Department of ECE,
Kings College of Engineering,
Punalkulam, Thanjavur.

Registration Fee per Participant: Rs.300/-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to eeedept@kingsindia.net

### Important Dates

Last date for Submitting Registration form

: 14.09.2016

Intimation of Acceptance (through e-mail only) : 16.09.2016

#### Chief Patroi

Smt.Sharmila Rajaa Chief Financial Officer

Mr.TRS.Muthu Kumaar Chief Executive Officer

#### Patron

Dr.S.Durairaj Principal

#### Co-Patron

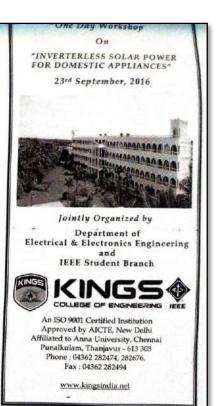
Dr.J.Arputha Vijaya Selvi Dean (R&D)

#### Convenor

Dr.S.Sivakumar Vice-Principal & HOD

#### Co-ordinators

Mr.C.Balaji & Ms.S.Elavarasi



was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The College is approved by the AlCTE, New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen RCE to rise to the status on one of the most prestigious institutions in this part of the country.

KCE, run by Raj Educational Trust (RET). Chennai is a fast growing Technical Institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely EEE, ECE, CSE, Mechanical and Civil Engineering and five PG programmes namely VLSI Design, Mobile and Pervasive Computing, Thermal Engineering, Power Electronics & Drives, and Computer Science & Engineering, We strive and endeavor every passing day to build our students as technocrats.

### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur - Pudukkottai National Highway. Bingineering Department is established in the year 2001. The Department of EEE offers 4 years B.E in Electrical and Electronics Engineering and 2 years M.E in Power Electronics and Drives. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department is an approved research centre for pursuing research (Ph.D) under Anna University, Chennai.

### Accommodation

Participants are requested to make their own arrangements. However, suggestions to suitable accommodation could be made on request.

### Communication Address

Mr.C.Balaji, & Ms.S.Elavarasi, Co-ordinators of Workshop, Department of EEE, Kings College of Engineering, Punalkulam, Thanjavur - 613 303

Phone: 04362 282474, 282676 Mobile: Mr.C.Balaji - 9688664222

E-mail : eeedept@kingsindia.net Website : <u>www.kingsindia.net</u>

# FOR DOMESTIC APPLIANCES" Registration Form. (Fill up in Capital Letters)

(Fill up in Capital I.

		_			-	-
П	Faculty	П	Research	Scholar	PG	UC

Department :

Institution

Communication Address

Phone/Mobile No. :

Email ID

Registration Fee :

Date: Signature of the Applicant

### Sponsoring Certificate

This is to certify that Dr./Mr./Ms.\_

of department is being sponsored for attending the one day workshop on "Inverterless Solar Power for Domestic Appliances" organized by department of EEE, Kings College of Engineering on 23rd September, 2016.

Date:

Signature of sponsoring authority (with seal)

### One Day Workshop on Inverterless Solar Energy Based Microgrid Systems

### **Report**



One Day Workshop on
"Inverterless Solar Energy Based Microgrid Systems" on

04.03.2017

### REPORT

The department of Electrical and Electronics Engineering has organized a one day workshop titled as "Inverterless Solar Energy Based Microgrid Systems" on 04.03.2017. The objective of the workshop is to create awareness about usage of solar power to home without inverter.

### Resource persons:

- Dr.P.S.Kannan, Professor (Emeritus), Thiagarajar College of Engineering, Madurai.
- Dr.S.Sivakumar, Vice Principal & HOD/EEE, Kings College of Engineering, Punalkulam.

### Convenor:

Dr.S.Sivakumar, Vice Principal & HOD/EEE

### Coordinators:

- Mrs.N.Rajeswari, Assistant Professor / EEE
- 2. Mr.C.Balaji, Assistant Professor / EEE

### Inaugural Session:

The dignitaries on the Dias during the inaugural session were Dr.P.S.Kannan, Professor (Emeritus), HoD/EEE, Chief CoE Prof.A.Albert Martin Ruban, and the Program Coordinators Mrs.N.Rajeswari and Mr.C.Balaji. The program was started by Thamizh Thaai Vaazthu followed by Welcome address delivered by third year EEE student Ms.S.Kiruthika. Presidential address and the introduction of resource person Dr.P.S.Kannan has been given by the Head of EEE Department. 89 participants

(66 external and 23 internal) attended the workshop. Dr.P.S.Kannan presided over the session and delivered the lecture about the utilization of Solar power to home without inverter.

### Session 1-Innovate Technology for utilizing Solar Power to home without inverter:

Dr.P.S.Kannan discussed that the power cuts and poor voltage has been a regular feature, troubling both residents and industrialists alike in the region. When inverter sales are blooming due to erratic supply, a new technique is proposed to maintain uninterrupted power supply (UPS) by making use of basic direct current (DC) from solar power and batteries.

He also told that the Solar power production is DC and the power stored in batteries is also DC, hence the same DC can also be used at home for running electronic equipment without using an inverter. Most electrical appliances and electronic gadgets can be used with DC power. Running a DC system along with the AC system eliminates the need of inverters, this method is useful to avoid sine wave problem in inverter. Battery life will be high and there is lesser transmission loss. All electronic equipment / devices available in the market can directly be powered using 180 to 220 volts of DC sources instead of 230 Volts AC sources required for normal operations.

He concluded that the television, personal computer, fluorescent lamp with electronic ballast, CFL lights, mobile chargers, digital set top boxes, DVD players, and laptops can be operated using DC sources. Nowadays ceiling fans are also available for working in both AC and DC for almost the same price. A demonstration of this technique based lighting system is already installed at our Electrical Machines Laboratory.

### Session 2: Visit to Solar Energy Lab

In the session after tea break, the participants visited the solar energy lab installed in electrical machines lab at Kings College of Engineering. Dr.P.S.Kannan and the staff of EEE department demonstrated the solar based lighting system.

### Session 3: Status of Solar Energy Production

The session after lunch was started by Dr.S.Sivakumar, Head/EEE delivered a lecture about status of solar energy production & its need. He explained the potential of solar energy in India, how much potential available and the research areas that can be developed under solar power system in India. He also delivered the project ideas in solar system that can be developed by the students and the possibilities of getting funds for these projects.

### Session 4: Discussion and Doubt clearing

After a short break, the session was started with the resource persons Dr.P.S.Kannan and Dr.S.Sivakumar to discuss about the possibilities of such a system in home, economic factors, future trends and projects regarding this system with the participants. This session has been a very interactive session.

### Valedictory Function:

The feedbacks from the participants regarding the workshop were collected. Then, Mrs.N.Rajeswari, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem.

Prepared by

Verified by

Head of the Department

#### **Brochure**

aculties. Research Scholars, PG and UG tudents from AICTE recognized institutions.

#### Workshop Contents

- Innovative Technology for utilizing Solar Energy to home without inverter.
- Grid connected Solar PV system Selection, Operation and Performance
- Status of Solar Energy Production

#### Resource Persons

Dr.P.S.Kannan, Professor (Emeritus), Department of EEE, TCE, Madurai.

Dr.S.Sivakumar, Professor & Head, Department of EEE, KCE, Thanjavur.

#### Registration Fee per Participant : Rs.400 /-

The registration fee should be paid by cash only. Pre-registration is mandatory by sending the duly filled registration form to the college address (or) e-mail the soft copy to eeedept@kingsindia.net

#### Important Dates

Last date for Submitting Registration form

: 25.02.2017

: 28.02.2017

Intimation of Acceptance (through e-mail only)

#### Chief Patrons

Smt.Sharmila Rajaa Chief Financial Officer

Mr.TRS.Muthu Kumaar Chief Executive Officer

#### Patron

Dr.S.Durairai Principal

#### Co-Patron

Dr.J.Arputha Vijaya Selvi Dean (R&D)

#### Convenor

Dr.S.Sivakumar Vice-Principal & HOD

#### Co-ordinator

Mrs N Rajeswari Assistant Professor

"INVERTERLESS SOLAR ENERGY BASED MICROGRID SYSTEMS

4th March, 2017



Jointly Organized by

Department of Electrical & Electronics Engineering and

IEEE Student Branch





NAAC Accredited Institution An ISO 9001 Certified Institution Approved by AICTE, New Delhi Affiliated to Anna University, Chennai Punalkulam, Thanjavur - 613 303 Phone: 04362 282474, 282676. Fax: 04362 282494

www.kingsindia.net

Kings Gollege of Engineering (KCE) was born out of a dream and vision to provide education with unparallel quality to the young and enthusiastic students of our nation. The College is approved by the AICTE. New Delhi and affiliated to Anna University, Chennai. The drive from our management and dedication of the faculty has seen KCE to rise to the status on one of the most prestigious institutions in this part of the country. KCE is a NAAC Accredited Institution for five years.

KCE, run by Raj Educational Trust (RET), Chermai is a fast growing Technical Institution in the state of Tamilnadu with a great promise to cater the educational demands of budding engineers in and around Thanjavur from 2001. Our institution offers five UG programmes namely EEE, ECE, CSE, Mechanical and Civil Engineering and five PG programmes namely VLSI Design, Mobile and Pervasive Computing, Thermal Engineering, Power Electronics & Drives, and Computer Science & Engineering. We strive and endeavor every passing day to build our students as technocrats.

#### How to Reach?

Thanjavur is well connected by Road / Rail transport from all major cities in Tamilnadu. Our college is located 15 kms from Thanjavur railway junction and 12 kms from New Bus Stand on Thanjavur - Pudukkottai National Highway.

and Engineering Department is established in the year 2001. The Department of EEE offers 4 years B.E in Electrical and Electronics Engineering and 2 years M.E in Power Electronics and Drives. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. All the laboratories are well established with the state-of-art equipment and latest licensed software for simulation studies that will help our students to achieve their goals. Our department is an approved research centre for pursuing research (Ph.D) under Anna University, Chennai.

#### Accommodation

Participants are requested to make their own arrangements. However, suggestions to suitable accommodation could be made on request.

#### Communication Address

Mrs. N. Rajeswari, Co-ordinator of Workshop, Department of EEE, Kings College of Engineering, Punalkulam, Thanjavur - 613 303

Phone: 04362 282474, 282676

Mobile: Mr.C.Balaji - 9688664222 E-mail: eeedept@kingsindia.net

Website: www.kingsindia.net

#### "INVERTERLESS SOLAR ENERGY BASED MICROGRID SYSTEMS'

Registration Form (Fill up in Capital Letters

☐ Faculty ☐ Research Scholar ☐ PG ☐ UG

Department Institution

Communication

Address

Phone/Mobile No. :

Email ID

Registration Fee

Date: Signature of the Applicant

#### Sponsoring Certificate

This is to certify that Dr./Mr./Ms.

department is being sponsored for attending the one day workshop on "Inverterless Solar Energy based Microgrid Systems" organized by department of EEE, Kings College of Engineering on 4th March, 2017.

Date:

Signature of sponsoring authority (with seal)



## **CONFERENCE REPORT**

The Department of Electrical and Electronics Engineering has organized the National conference on "Flourishing areas in Electrical and Electronics Engineering-NACOFEE'16" and the Department of Electronics and Communication Engineering has organized the National Conference on "Signal Processing and VLSI Design-NCSPVD'16" on 28.12.2016 in Chera Hall.

This conference is committed to become the preferred and common hub for the researchers, academicians, practicing Engineers, and industrialists to exhibit their new research findings. It seeks solutions for the research/industrial challenges/problems, and makes avenue to develop networking with hundreds of professionals in the field Electrical, Electronics and communication.

The programme was started with Inaugural session by 10.00AM. Dr.S.Sivakumar, Vice-Principal & HOD (EEE) has delivered the welcome address to the conference gatherings and honored the chief guest Dr.D.Devaraj, Dean Academics (EEE), Kalasalingam University, Krishnan Koil and Dr.R.Vimalathithan, Professor/ECE, Karpagam College of Engineering. Dr. J.Arputha Vijaya Selvi, Dean(R & D) and HOD (ECE), has felicitated the chief guest with memento as the token of honor.

The Chief Guest of NACOFEE'16, Dr.D.Devaraj, Dean Academics (EEE), Kalasalingam University, Krishnan Koil has released the conference proceedings and CD to the gatherings of the conference and it was received by Dr.S.Sivakumar, Vice-Principal & HOD (EEE).

The Chief Guest of NCSPVD'16, Dr.R.Vimalathithan, Professor/ECE, Karpagam College of Engineering has released the conference proceedings and CD to the gatherings of the conference and it was received by Dr. J.Arputha Vijaya Selvi, Dean(R & D) and HOD (ECE).

Dr.S.Durairaj, Principal, Kings College of Engineering has delivered the presidential address. He has explained the current scenario about Electrical, Electronics and communication Engineering. He has registered his strong views about the scope of the conference. He said that this National conference will be a platform for Researchers, academicians and PG students to discuss about recent trends, Challenges and advancements related to the flourishing areas in Electrical and Electronics Engineering,

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December 28, 2016

Signal Processing and VLSI design, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field.

Ms.A.Prabha, Assistant Professor/EEE and an organizing secretary of NACOFEE'16 has introduced the chief guest DrD.Devaraj. The chief guest is having 20 years of teaching experience and his present position is Dean Academics (EEE), Kalasalingam University, and Krishnan Koil. He is a member in various professional bodies. He has organized so many faculty development programmes, workshops, seminars, conferences for the betterment of faculties and students. He has selected as one of the International biographical centre's leading scientists of the world for continuous couple of years 2007 & 2008. He has received the outstanding faculty award from venus International foundation for his contribution and achievement in the field of Electrical Engineering. He has played a role of project Director and co-investigator for sponsored research project funded by Department of Science and technology and 2 projects has been completed successfully. He is a recognized supervisor of Anna university Chennai, SRM University Chennai & Kalasalingam University, Krishnan Koil. He has published more than 100 papers in National and International conferences and journals.

**Dr.D.Devaraj** has delivered the inaugural address and explained the importance of conference. Also he has explained about the recent trends, growth, future scope, ongoing projects and research in the field of Electrical and Electronics Engineering.

Mr.P.Raja pirian, Assistant Professor/ECE and an organizing secretary of NCSPVD'16 has introduced the chief guest Dr.R.Vimalathithan. The Chief Guest is specialized in communication system and his research area is Cryptanalysis. He got Ph.D. from Anna University, Coimbatore and received Post Doctoral Fellowship from university of PADOVA, Italy. He started his profession as lecturer in Government college of Technology Coimbatore and hold various position like senior lecturer, Head of the department etc., He published many articles in reputed Journals and presented papers in many conferences. He has delivered lectures in various seminars in the field of EMI and cryptography. His major research projects are Intelligent ARM for physically challenged, Visual Circuit Analyzer, Open Space Electromagnetic Interference Measurement, Machine to Machine Communication & Secure communication protocol for WPAN. He is a reviewer

## CONFERENCE REPORT

of the journals for DRDO, WSEAS and IJNS. He has received the award for International Mobility Program for Young Researchers from India & Nepal.

**Dr.R.Vimalathithan** has delivered the inaugural address and explained the importance of conference. Also he has explained about the recent trends, growth, future scope, ongoing projects and research in the field of Electronics and Communication Engineering.

Dr.D.Devaraj has delivered the keynote address in Pallava hall to the participants of the NACOFEE'16 on the title" Evolutionary Algorithms for solving Multi-Objective Optimization Problems." He addressed that Optimization is the act of obtaining the best result under given circumstances. The ultimate goal of all such decisions is either to minimize the effort required or to maximize the desired benefit. Since the effort required or the benefit desired in any practical situation can be expressed as a function of certain decision variables, Optimization can be defined as the process of finding the variables that give the maximum or minimum value of a function. In many real-life optimization problems, multiple objectives have to be taken into account, which may be related to the economical, technical and environmental aspects of optimization problems.

These objectives are usually incommensurate and in conflict with each other. Because of the presence of conflicting multiple objectives, a multi-objective optimization problem results in a number of optimal solutions, known as pareto optimal solutions. In a multi- objective optimization, effort must be made in finding the set of trade-off optimal solutions by considering all objectives to be important. One, straightforward approach to solve the multi-objective optimization problem is to convert them into a single objective problem by linear combination of different objectives as a weighted sum method is that a set of non-inferior (or pareto optimal) solutions can be obtained by varying the weights. Unfortunately, this requires multiple run as many times as the number of desired pareto optimal solutions. Furthermore, this method cannot be used to find pareto-optimal solutions in problems having a non-convex pareto optimal front. The ability of Evolutionary Computation techniques like Genetic Algorithm to find multiple optimal solutions in one single simulation run makes them unique in solving multi-objective optimization problem.

## **CONFERENCE REPORT**

In this presentation, the details of multi-objective genetic algorithm in solving the multi-objective optimization problems will be presented. Case studies on power system optimization problems have been presented.

Dr.R.Vimalathithan has delivered the keynote address in Chera hall to the participants of the NCSPVD'16 on the title "Smart City". He discussed that there is no unique definition for Smart City. The conceptualization of Smart City varies from city to city and country to country, depending on the level of development, willingness to change and reform, resources and aspirations of the city residents. A smart city would have a different connotation in India than, say, Europe. In India, evolutions of smart cities are already in progress. This evolution will provide cities with excellent ways to improve its living standards and economies of people. T he objective of smart city projects is to promote cities that provide core infrastructure, a clean sustainable environment and use the resources such as energy ,water as efficiently as possible and provide purified air, good quality food thereby improving the living standards of citizens. A smart city offers its inhabitants maximal life quality with minimal consumption of resources, based on an intelligent interconnection of infrastructure (transport, energy, communication etc.) on different hierarchic levels (building, quarters, city). He said that Our Prime Minister Mr.Narendra Modi has paved the way for evolving towards the Internet of Cities. Let us support for the project in terms of technical contribution to the society.

The research scholars, faculty and students from various Engineering colleges exhibited their views, thoughts and research in the areas of Electrical, Electronics and Communication Engineering. Professor.A.Albert Martin Ruban, Ms.N.Hemavathi and Mr.R.Sundaramoorthi were the members of jury.

The valedictory function was arranged at Pallava Hall by 04.30PM. **Dr.S.Sivakumar**, Vice-Principal & HOD (EEE) has delivered the conference summary to the conference gatherings. Delegates from the various institutions have registered their valuable feedback. The Certificates were distributed to the participants by the conference chair.

Mr.J.Arokiaraj, Assistant Professor/EEE and an organizing secretary of NACOFEE'16 has delivered the vote of thanks. On behalf of the management he expressed the sincere thanks to the Chief guest Dr.D.Devaraj, the Principal, the Vice principal & HOD-EEE, Conference chair, teaching and non teaching faculties, event management committee, PG & UG students, delegates from various Engineering colleges for their excellent co operation to make this conference a grant success. Finally the programme was ended with National anthem.



Mr.P.Raja Pirian, Organizing Secretary of NCSPVD'16 is introducing the Chief guest Dr.R.Vimalathithan



Dr.R.Vimalathithan, the Chief Guest of NCSPVD'16 is delivering the Inaugural address



Dr.D.Devaraj is delivering the keynote address on the title" Evolutionary algorithm for multi objective optimization problems"



Members of Jury, Prof.A.Albert Martin Ruban & Ms.N.Hemavathi listening to the presentation of delegates from various Engineering Colleges.



Discussion with members of jury



**Delegates from various Engineering colleges** 

#### KINGS COLLEGE OF ENGINEERING

#### **IEEE STUDENTS BRANCH STB 16621**

**IEEE Student Branch** and **R&D section**, organized a one day workshop on "Soft Computing" on 28<sup>th</sup> January, 2017 technically sponsored by Computational Intelligence Society, Madras Section. Dr. J. Arputha Vijaya Selvi, Dean (R&D) welcomed the gathering. Mr. T. Pasupathi, Asst. Professor, ECE -R&D introduced the resource persons to the gathering. Dr. S. Durairaj, Principal presided over the function. Dr. S. Sivakumar, Vice Principal, delivered the Inaugural address. In his address, he stressed the importance of soft computing and solutions to engineering problems. Dr. S. Sivakumar, Vice Principal, Kings College of Engineering delivered a lecture on "Genetic Algorithm and its Applications". In his lecture, he briefed about the Holland's original Genetic Algorithm, Traditional algorithms, multiple optimal solution, basic components of genetic algorithm and its representation and flow of genetic algorithm. Also he demonstrated the concept of genetic algorithm with case studies. Ms. E. Suganya, AP/ECE-R&D, introduced Dr. R. Amirtharajan, Associate Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur, to the participants. Dr. R. **Amirtharajan**, delivered a lecture on "Soft Computing Techniques for Information Security". In his lecture, he stressed the importance of transferring the information securely. Also he briefed on the motivation and specific aims in information security. At the end of his lecture, he briefed with an example of transferring an image file securely over the network using soft computing techniques. Ms. E. Suganya, AP/ECE-R&D, introduced Mrs. N. Hemavathi, AP/EEE to the participants. Mrs. N. Hemavathi, delivered a lecture on "Fuzzy Logic & its Applications". In her lecture, she briefed about the basic ideas of fuzzy sets, difference between crisp and fuzzy sets, process involved in fuzzy logic controller, examples for fuzzy logic based applications. In addition, she gave a demonstration on Fuzzy Logic using MATLAB. Participants shared their feedback about the workshop. Certificates were distributed to the participants. 16 delegates from other institutions and 29 internal participants attended the workshop. Mr. J. Niranjan Samuel, JRF-R&D, proposed the vote of thanks. The workshop was concluded with National Anthem.



Reported by Dr. J. Arputha Vijaya Selvi, SBC & Dean, Kings College of Engineering, Punalkulam, Pudukkottai Member ID: 90234387 vijayas\_02@yahoo.co.in







#### **INDEX**

# CRITERION 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### e-NATIONAL CONFERENCE ON

#### ENERGY AND MANUFACTURING SCENARIO -2021 (NCEMS-2021)

#### **CONFERENCE REPORT**

Online mode: YouTube live stream (https://youtu.be/jUUmYRSmxSU)

Google meet (https://meet.google.com/zeg-zfoy-yeu)

The department of Mechanical Engineering organized a National Conference on Energy and Manufacturing Scenario – 2021 on  $31^{\rm st}$  March 2021 through online mode due to pandemic situation.

#### **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 R & D Personnel. The NCEMS-2021 significantly benefits a wide variety of academic and industrial sectors.

#### **INAUGURAL SESSION**

The Conference was inaugurated by the Chief Guest Er.R.Ramachandran, Superintendent Engineer (Rtd) PWD, Government of Tamil Nadu.

#### **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

#### PRECONFERENCE WORK

To maintain quality and originality of conference, an advisory and technical committee was framed. In each committee constitute all the institutions like IIT, NIT, Government colleges and other technical universities. A requisition mail sent for acting both advisory and technical committee members, and getting acceptance over mail and mobile.

ADVISORY COMMITTEE	TECHNICAL COMMITTEE
Dr.K.R.Balasubramanian, NIT, Trichy.	Dr.K.Srinivasareddy, IIT, Chennai.
Dr.A.Mani, IIT, Chennai.	<ul><li>Dr.K.Senthilkumaran, IIITDM, Kanchipuram.</li></ul>
Dr.K.Panneerselvam, NIT, Trichy.	Dr.J.Jerald, NIT, Trichy.
<ul><li>Dr.S.R.Pandiyan, IIITDM, Kanchipuram.</li></ul>	Dr.D.Leninsingaravelu, NIT, Trichy.
<ul><li>Dr.V.Balasubramaniam,Annamalai</li></ul>	<ul><li>Dr.U.Natarajan, ACTECH, Karaikudi</li></ul>
University, Chidambaram.	Dr.S.Periyasamy, GCT,Ciombatore.
<ul><li>Dr.S.Sivasankar, GCE, Thanjavur.</li></ul>	Dr. N.Senthilkumar, NIT, Pudhuchery.
Dr.T.Sekar, GCE, Salem.	Dr.K.Kannan, AAMEC, Kovilvenni.
Dr.G.Rajamohan, SASTRA, Thanjavur.	Dr.D.Sreenivasan, KRCE, Trichy.
<ul><li>Dr.S.Chockalingam, EGSPEC, Nagapattinam.</li></ul>	Dr.A.Naveen Sait, MIETEC, Trichy.
<ul><li>Dr.N.Baskar, SCE, Trichy.</li></ul>	Dr.S.Jaisankar, SLCET, Thanjavur.
Dr.P.K.Srividhya, PMIST, Thanjavur.	Dr.M.Prabhakar, SRM-TRPEC, Trichy.
Dr.M.Ravichandran, KRCE, Trichy.	Dr.D.Prakash, SASTRA, Thanjavur.
<ul><li>Dr.K.Balasubramaniam, Bharath University,</li></ul>	Dr.G.Elatharasan, UCE, AU Pattukottai.
Chennai.	<ul><li>Dr.D.Jayasimman, PMIST, Thanjavur</li></ul>
Dr.A.Palanisamy, SEC, Erode.	Dr.A.Mercy Vasan, SCE, Trichy.
Dr.T.Rajeshkanna, AAMEC, Kovilvenni.	<ul><li>Dr.S.Krishnamohan, EGSPEC, Nagapattinam.</li></ul>
<ul><li>Dr.T.Balamurugan, AEC, Kumbakonam.</li></ul>	Dr.C.G.Saravanan, Annamalai
Dr.M.Thilak, SRM-TRPEC, Trichy.	University,Chidambaram.
Dr.M.Suresh, SSNCE, Chennai.	Dr.R.Ganesh, PITS, Thanjavur.
	Dr.B.Sureshkumar, KRCT, Trichy.

The conference brochure was designed and gets approved from the Principal. The conference brochure was circulated through Social Medias like E-mail, Whatsapp and Twitter. We have received around 40 papers from various engineering colleges and universities. The received papers were screened and the originality of the paper was verified by technical selection committee. 37 papers were selected by technical committee and informed the authors of the papers through E-mail.

The advisory committee of the conference referred the chief guest Dr.S.Somasundaram, Prof./Mechanical Engineering, NITTTR, Chennai-600113. The organizing committee of the conference sent a requisition mail to Dr.S.Somasundaram to deliver the presidential address for this conference. He accepted our invitation to act as chief guest for this conference.

#### NCEMS 2021 (31.03.2021):

The conference was conducted through online mode. Conference Coordinators, Convener, Vice Principal, Chief Guest and staff members were joined through Google meet link (http://https://meet.google.com/zeg-zfoy-yeu). The inaugural function was streamed through our college YouTube channel (Kings College of Engineering Punalkulam).

The inaugural function was started at 09.45 am. Mr.M.Aswin, AP/Mech. welcomed the gathering. He invited Dr.T.Pushparaj, Organizing chair of NCEMS-2021 to deliver welcome address. Dr.T.Pushparaj welcomed the Principal, Secretary, Vice Principal, Chief Guest, Staff members and participants from various engineering colleges. Mr.M.Melwin J Sridhar Coordinator of NCEMS=2021 introduced the Chief Guest Dr.S.Somasundaram, NITTTR, Chennai. Dr.S.Somasundaram delivers the presidential address to gathering. Mr.M.Aswin, AP/Mech. invited the Dr.S.Sivakumar, VP/KCE to deliver the felicitation address. Dr.S.Sivakumar delivers the felicitation address to the audience and also insisted the participants for the importance and effective use of the NCEMS-2021.

The technical session was started at 11.15 am. The schedule was circulated to the participants through mail. Dr.P.P.Shantharaman and Mr.H.Agilan were act 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.

The valedictory function was started at 03.30 PM by Mr.M.Aswin,AP/Mech. and conveyed the sincere gratitude to Secretary, Principal, Vice-Principal and all the faculty members, Kings College of Engineering for making this Event a grand success.

#### **POSTWORK OF THE CONFERENCE:**

The participants were asked to submit the feedback about conference. Certificates were distributed to the participants based on their active participation in the conference through courier/post. Proceedings of NCEMS-2021 were sent through mail to the participants.

### **CONFERENCE AGENDA:**

Time	Programme schedule
09.45 am	Welcome Address
09.50 am	Introduction to Chief guest
09.55 am	Presidential address by Chief guest
10.30 am	Felicitation by Vice Principal
11.15 am	Technical paper presentation Session - I
01.30 pm	Technical paper presentation Session - II
03.30 pm	Valedictory function

### **DETAILS OF PARTICIPATION (Institute wise):**

Sl.No.	Name of the institution	No. of batches
1	Kings College of Engineering, Punalkulam-613303	17
2	M.I.E.T Engineering College, Trichy-620007	5
3	Government College of Engineering, Thanjavur-613402	3
4	Annamalai University, Annamalainagar-608002	1
5	Vandayar Engineering College, Thanjavur-613501	3
6	Sir Isaac Newton College of Engineering & Technology, Nagapattinam-611102	2
7	K.S.K College of Engineering & Technology, Kumbakonam-612702	1
8	St. Joseph's College of Engineering & Technology, Thanjavur-613403	1
9	Starlion College of Engineering & Technology, Thanjavur-614206	1
10	Chenduran Polytechnic College, Pudukkottai-622507	1
11	Chendu college of engineering and technology, Madurantakam-603311	1
12	UCE, BIT Campus, Trichy-620024	1

### **Requisition Mail and Acceptance Sample of Advisory Committee**

3/19/2021

Gmail - Sub: National Conference- Advisory Committee- Acceptance Request- Reg.,



NCEMSMECH <ncemsmech@gmail.com>

#### Sub: National Conference- Advisory Committee- Acceptance Request- Reg.,

2 messages

NCEMSMECH 1

Wed, Mar 17, 2021 at 1:09 PM

To: srividya.aravazhi@gmail.com

Greetings from Kings College of Engineering - Department of Mechanical Engineering.

Dear Madam,

I would like to bring to your kind notice that a "National Conference on Energy and Manufacturing Scenario - 2021 (NCEMS - 2021)" will be held on 31.03.2021 at the institution premisses.

Your area of specialization and expertise of Bio Mass Gasification is well known to the technical society. If you become the member of Advisory committee of the conference, it would enhance the knowledge of the participants a great.

If the conference title and the date are convenient to you, please accept the request and reply at the earliest.

For further clarifications please visit www.kingsindia.net or feel free to send your queries to ncems2020@gmail.com.

Thanking you,

With Regards,

Dr. T. Pushparaj, M.E., Ph.D. Professor & head, Department of Mechanical Engineering, Kings College of Engineering, Thanjavur.

Srividya Aravazhi <srividya.aravazhi@gmail.com>

Thu, Mar 18, 2021 at 10:59 AM

To: NCEMSMECH <ncemsmech@gmail.com>

Thank you very much for inviting me to be part of advisory committee in the "National Conference on Energy and Manufacturing Scenario - 2021 (NCEMS - 2021). i will be accepting your invitation .kindly feel free to contact me any time .

thanking you

[Quoted text hidden]

Thank You

With Regards Dr.P.K.Srividhya,

Dean(Academics)

https://mail.google.com/mail/u/2?ik=83b7456b57&view=pt&search=all&permthid=thread-a%3Ar-3623102376135180266&simpl=msg-a%3Ar-2793438... 1/2

#### **CONFERENCE BROCHURE:**

## Energy and Manufacturing Scenario – 2021

National Conference

on

(Through online mode)

"NCEMS - 2021"

31st March 2021

**Call for Papers** 



#### Organized by **Department of Mechanical Engineering** KINGS COLLEGE OF ENGINEERING

Punalkulam, Pudukkottai Dist. -613 303.

#### ORGANIZING COMMITTEE

#### CHIEF PATRON Secretary,

### PATRON

J Arputha Vijaya Selvi, Principal

#### CO PATRON

S.Sivakumar, Vice Principals

#### ORGANIZING CHAIR

araj, HOD Mech

#### ORGANIZING SECRETARY

Dr.P.P.Shantharaman, Asso. Prof. Mech Mr.M.Melwin Jagadeesh Sridhar, AP/Mech

#### ORGANIZING MEMBERS

- Mr H Agilan
- Mr.N.Magesh Mr. S. Sabanayagam

- Mr.M.Sakthivel Mr. R. Rajadurai
- Mr. S.Nelson Raja

#### ADVISORY COMMUTTEE

- Dr.K.R.Balasubramanian, NIT, Trichy
- Dr.A.Mani, IIT, Chennai

- Dr.K.Panneerselvam, NIT, Trichy, Dr.S.R.Pandiyan, HITDM, Kanchipuram, Dr.V.Balasubramaniam, Amamalai 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.

#### TECHNICAL COMMITTEE

- Dr.K.Srinivasareddy, IIT, Chennai.
- Dr.K.Senthilkumaran, IIITDM, Kanchipuram
- Dr.J.Jerald, NIT, Trichy. Dr.D.Leninsingaravelu, NIT, Trichy Dr. U. Natarajan, ACTECH, Karajkudi
- Dr.S.Periyasamy, GCT Coimbatore 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.D. Jayasiimian, PMIST, Thanjavar Dr.A.Mercy Yasan, SCE, Trichy.

- Dr.S.Krishnamohan, FGSPEC, Nagapattinam. Dr.C.G.Sarayanan, Annamalai University, Chidambaram. Dr.R.Ganesh, PITS, Thanjayur.

- Dr.B. Sureshkumar, KRCT, Trichy.

#### ABOUT THE INSTITUTION

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 has been started during 2001. and run by Raj Educational Trust (RET). KCE is approved by All India Council of Technical Education (AICTE), New Delhi and is affiliated to Anna University. Chemnii, KCE has acquired ISO certification by TUV, Rheinland, Germany-recognized under 2(f) & 12(B) of UGC and accredited by NAAC. Five U.G. (B.E.) and four P.G. (M.E.) programmes are being offered.

The institution provides all basic and advanced amenities to the students and the faculty members as well.

Utmost importance is given for quality education through modern teaching methodologies. Most modern and sophisticated laboratories, well qualified and experienced faculty members are the assets of the institution. The institution grows at a faster pace as it has a very sound management, willing to do everything needed for making it a great institution.

#### OUR DEPARTMENT

The department of Mechanical Engineering was started in the year 2006. The Department offers 4 year B.E. Degree Programme in 'Mechanical Engineering' and 2 year M.E. Degree Programme in 'Thermal Engineering'. The mission of the department is 'to educate students to become globally competent'. The department shares the mission and vision of the institution in magnitus quality education to the vision of the institution in imparting quality education to the students. The department has well established laboratories to provide practical exposure to the students and dedicated faculty team.

#### 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 R & D Personnel. The NCEMS-2021 significantly benefits a wide variety of academic and ndustrial sectors.

#### CONFERENCE THEMES

#### MANUFACTURING

- RPT / FEA
- Unconventional Machining Processes
- Welding & Casting
- Nano Technology
- Materials-Composites
- CAD CAM CIM
- Advanced Manufacturing Techniques
- Solar Energy Wind Energy
  - Advanced Heat Transfer
  - Tidal Energy Energy Storage

ENERGY

Thermal Engineering

Renewable Energy

Management

Technologies Lean Manufacturing/ANN • Biomass Gasification

#### PAPER SUBMISSION

Original research and unpublished papers are invited in the above list of themes. The authors are requested to submit an abstract not exceeding one page. It should carry the name and address of the author(s) with their affiliation (including place number and E-mail). The abstract may also be sent through E-mail (ncemsmech@email.com).

#### PAPER FORMAT

Size A4. Single column, maximum no. of pages not exceeding 8 pages, Times New Roman, 12 font size with 1.5 line spaces.

### REGISTRATION

gat least one author per paper and all other participants should register on or before the deadline. All delegates and authors will have to confirm their participation by online registration.

by online registration.

REGISTRA HON FEE
UG / PO Students
Research Scholars and Practicing Engineers 'Rs. 500
R&D Personnel & Faculty members' Rs. 750
Registration fee includes Conference Kir. copy of the
conference proceedings. Fee should be sent by Demand Draft
in favor of "The Principal, Kings College of Engineering"
revable at Thanjavar. For details visit http://www.kingsindia.net

#### CONFERENCE PUBLICATION

- Selected papers will be published in

  International Journal of Core Engineering and
  Management (IJCEM)
- International Journal of Trend in Scientific Research and Development (IJTSRD)
- International Journal of Engineering Science and Technology (IEST)
- International Journal of Innovating Research in Science, Engineering and Technology (IJIRSET) International Journal of Advanced Research Trends in Engineering and Technology, (IJARTET)

LOCATION

The college is located 15km from Thanjavur Railway station and 10km from Thanjavur New Bus Stand.

IMPORTANT DATES
Submission of abstract Notification of Acceptance: 22 03 2021 Submission of full paper Conference Date 31.03.2021

#### ADDRESS FOR COMMUNICATION

The Organizing chair, NCEMS-2021, Department of Mechanical Engg., Kings College of Engineering, Punalkulam-613303. Tel: 04362-282474

Web : www.kingsindia.net Email : ncemsmech@gmail.com

#### CONTACT NUMBERS

Dr.T.Pushpara

Dr.P.P.Shantharaman Mr.M.Melwin Jagadeesh Sridhar

### 9994748951 -

REGISTRATION FORMAT
Participants are requested to retype the given format and send it by post or by email

### National Conference on Energy and Manufacturing Scenario - 2021 (NCEMS-2021)

(Reg. Link: https://forms.gle/gopd57mePFesc15w5) Full Man-

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3		
Designation	K.	

Organization.

Address

Phone(Off)

Phone(Res)

Fee Details

Date

DD for Rs. DD Number

Registration Category: Post Graduate students / Researchers Practicing Engineers / R & D Personnel.

Name of the Bank:

Signature of the Applicant

Signature of the Sponsoring Authority with seal

#### **CONFERENCE INVITATION:**





20<sup>th</sup> year of Academic Excellence



Follow the programme in Kings College of Engineering Youtube channel

Organizing Secretary

Organizing Chair

Principal

Dr.P.P.Shantharaman

Dr.T.Pushparaj Dr.J.Arputha Vijaya Selvi

Mr.M.Melwin J Sridhar

#### **SAMPLE CERTIFICATE:**



#### Presidential address by Dr.S.Somasundaram, NITTTR, Chennai:



**Organizing Secretary** 

Dr.P.P.Shantharaman

T. Purhany

**Organizing Chair** 

Dr.T.Pushparaj

**Principal** 

Dr.J.Arputha Vijaya Selvi







#### DEPARTMENT OF MECHANICAL ENGINEERING

#### ACADEMIC YEAR 2020-21 / EVEN SEMESTER

#### **WEBINAR REPORT**

The Department of Mechanical Engineering and Research & Development section had jointly organized a National level webinar through online mode YouTube Live (Channel: kings college of engineering punalkulam) on "Art of Writing Research Articles" on 20.02.2021 at 12.00 p.m. to 01.00 p.m. Welcome address was given by Mr. S. Sabanayagam, Assistant Professor / Mechanical, Kings College of Engineering.

Resource person **Dr. N. Sendhilkumar**, was introduced by **Mr. S. Sabanayagam**, Assistant Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on "**Art of Writing Research Articles**". In his lecture, he explained how to find the research gap, research findings, initiating the article writing, manuscript preparation and submission on journal by finding journals related to project work. Our resource person also explains how, the patents should be filed and gets granted.

In this webinar, **72** participants from **28** colleges have registered from various Engineering Colleges, Polytechnic colleges and Arts & Sciences Colleges and participated the webinar. As on February 22, 2021, 352 views have been progressing in "Kings College of engineering punalkulam YouTube channel". 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**



#### Participation Certificate - Sample Copy



2

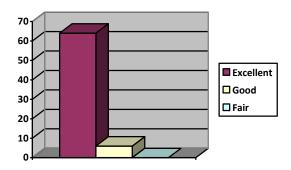
### **List of Attended Participants**

S.No	Name of the Institute/Organisation	Number of participants
1	AVC COLLEGE OF ENGINEERING	3
2	AMIETE	1
3	ANNA UNIVERSITY	1
4	ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND	
4	SCIENCES RAJAMPET	1
5	ANNAMALAI UNIVERSITY	1
6	ANURAG ENGINEERING COLLEGE (A)	2
7	DAYALBAGH EDUCATIONAL INSTITUTION (DEEMED	
7	UNIVERSITY), DAYALBAGH, AGRA	4
8	E G S PILLAI ENGINEERING COLLEGE (AUTONOMOUS)	4
9	ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING	1
10	GBPUAT ,PANTNAGAR	1
11	ISTS WOMENS ENGINEERING COLLEGE	3
12	ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING	1
13	JSS WOMENS COLLEGE CHAMARAJNAGAR	1
14	KHAKHARIPURA	1
15	KINGS COLLEGE. OF ENGINEERING, PUNALKULAM	32
1.0	V.S.B.ENGINEERING	
16	COLLEGE,KARUDAYAMPALAYAM,KARUR	1
17	SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT	1
18	ST.THOMAS' COLLEGE OF ENGINEERING & TECHNOLOGY	1
19	KUMARAGURU COLLEGE OF TECHNOLOGY	1
20	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY	1
21	MOHAMED SATHAK A J COLLEGE OF ENGINEERING	1
22	SEKOLAH MENENGAH ATAS NEGERI 78 JAKARTA	1
22	RAO BAHADUR Y MAHABALESWARAPPA ENGINEERING	
23	COLLEGE,BALLARI	1
24	PRINCIPAL, ANJUMAN- E -QASIMIYAH, CHENNAI. INDIA	1
25	USHA MARTIN UNIVERSITY	1
26	ARIFA INSTITUTE OF TECHNOLOGY	1
27	DAYALBAGH EDUCATIONAL INSTITUTION (DEEMED	2
	UNIVERSITY), DAYALBAGH, AGRA	3
28	BASAVESHWAR ENGINEERING COLLEGE (AUTONOMOUS),BAGALKOT	1

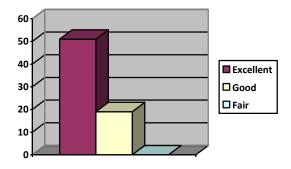
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#### **Feedback questions and responses**

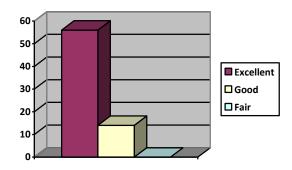
1. Content of the Program? 70 responses



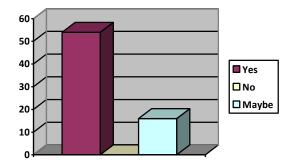
2. Quality of Audio/Video Streaming? 70 responses



3. Way of Presentation? 70 responses

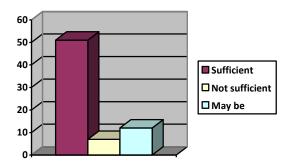


4. Will you participate in future events? 70 responses



4

5. Is the time sufficient for coverage of topic chosen? 70 responses



Lober Land Herent Coordinators

(Mr. S. Sabanayagam)

(Mr. T. Pasupathi)

T. Pm/my/22/421 J. 1800

HOD/Mechanical

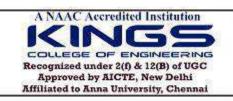
(Dr.T.Pushparaj)

Duin sin al

Principal

(Dr.J.Arputha Vijaya Selvi)







## A National Level Technical E-Symposium

(MECH 'O' DRONE 2020)

01st OCTOBER 2020

### 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 2020" on 01<sup>st</sup> October 2020 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.Mohd Yasin Sheriff and D.Thiruppugazh from final year Mechanical Engineering with a team of student volunteers.

#### LIST OF CO-ORDINATORS

S.NO	EVENT NAME	STAFF CO-ORDINATORS	STUDENT CO- ORDINATORS	YEAR	
			S.KABILAN	IV MECH-A	
1	PAPER	Dr.P.P.SHANTHARAMAN	RUBAN.S	IV MECH-B	
1	PRESENTATION	Mr.J.RAJAPARTHIBAN	R.KARTHIKEYAN	III MECH	
			PRIYADHARSAN L	II MECH	
·	CONNECTIONS	Mr.S.SABANAYAGAM	S.ABBAS MOHAMMED	IV MECH-A	
2			SENTHAMIL PRIYAN B D	IV MECH-B	
4			S.SURYA	III MECH	
			R.KISHORE	II MECH	
	TECH QUIZ		P.ENOCH EBENEZER	IV MECH-A	
3		Z Mr.B.RAM VIGNESH	DINESH E	IV MECH-B	
3	TECH QUIZ		S.TAMILARASAN	III MECH	
			S.DEEPANRAJ	II MECH	
	PHOTO FEST			D.MADHESH	IV MECH-A
4		PHOTO FEST Mr.S.KARTHI	SENTHAMIZSUDAR K	IV MECH-B	
			FAZIL AHAMED.S	III MECH	
			P.GUNAL	II MECH	

The inaugural session of **MECH 'O' DRONE** was started with the welcome address by Dr.T.PUSHPARAJ, Head of the Department, who explained about the significance of that meeting and Mr.R.Shankar, AP/Mech introduced the chief guest Dr.D.Jeyasimman, Head of the Department, Department of Mechanical Engineering, Periyar Maniammai Institute of science and Technology, Vallam was the chief guest and he delivered special address to the participants.

#### **EVENT NO 1: PAPER PRESENTATION:**

The paper presentation was organized by the student members. Dr.PP.Shantharaman, ASP/Mech and Mr.J.Rajaparthiban, AP/Mech acted as Juries for this event. 30 papers from various institutions were scrutinized and selected for presentation. The list of prize winners in paper presentation are given below

Sno	Name of the student	College belong to	Place
1	FL. Libin	University College of Engineering, Nagercoil	I
2	E.Santhosh	Parisutham Institute of Tech & Science, Thanjavur	II
3	R.Mohd Yasin sheriff	Kings college of Engineering, Thanjavur	III

#### **Screenshots of the event**





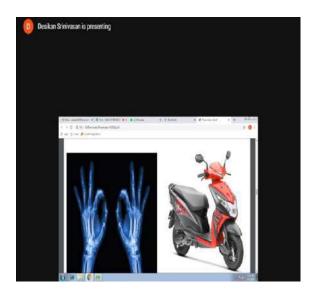
#### **EVENT NO 2: CONNECTIONS:**

The connections event was organized by student members and coordinated by Mr.S.Sabanayagam, AP/Mech and Mr.S.Desikan, AP/Mech. In this event 28 students from 6 colleges participated. Event was successfully completed. Depending upon their merits the following Students were awarded prizes

SNo	Team	Name of the Student	Place Obtained
1		Syed Usman Ali M	
2	Team 4	Vigneshwaran J	I place
3		Kabilan S	

#### **Screenshots of the Event:**





#### **EVENT NO 3: PHOTO FEST:**

The Photo fest event was organized by Mr.S.Karthi, AP/Mech with 18 students from various Institutions on the topic of "Machine & Men". List of winners are as follows

Sno	Name of the student	College belong to	Place
1	G.Aakash	Arasu Engineering College, Kumbakonam	I
2	L.Priyadharsan	Kings college of Engineering, Thanjavur	II
3	M.Ramkumar	Kings college of Engineering, Thanjavur	III

Winning photo on the title "Machine & Men"



<del>19 -</del>

#### **EVENT NO 4: TECHNICAL QUIZ:**

The Technical quiz event was conducted by Mr.B.Ram Vignesh, AP/Mech about 39 students from various institutions actively participated in this event. The list of prize winners are given below

Sno	Name of the student	College belong to	Place
1	Jovin Chacko	Jawaharlal college of Engineering & Tech, Palakkad	I
2	Manimaran K	Ayya Nadar Janaki Ammal College, Sivakasi	II
3	M.S Taha Yaseen Salih	University of Anbar, Iraq	III

#### **VALEDICTION**

The National Level Technical Symposium "MECH 'O' DRONE 2020" came to an end with the valedictory function at 3.00 pm on the same day. Dr.T.PUSHPARAJ HoD/MECH, delivered valedictory adress. Mr.S.Desikan, AP/Mech summarized the symposium report and announced the winners in the technical events. Finally Mr.M.Sakthivel, AP/Mech delivered the vote of thanks and the function was successfully completed with National Anthem.

#### Symposium poster



### Sample certificate



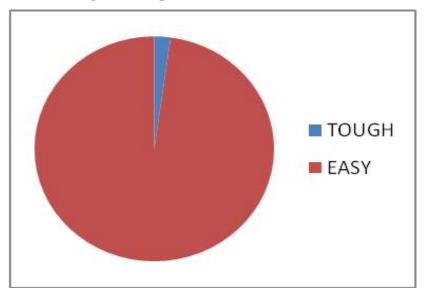
### **List of Institutions Participated with Students count**

Sno	Name of the college	Count	
1	ANJALAI AMMAL MAHALINGAM ENGINEERING COLLEGE,		
1	TIRUVARUR	2	
2	ANNA UNIVERSITY, VILLUPURAM		
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	UNIVERSITY OF ANBAR, IRAQ	1	
8	DHANALAKSHMI SRINIVASAN INSTITUTE OF TECHNOLOGY,	1	
0	PERAMBALUR	1	
9	HARINGHATA MAHAVIDYALAYA, WEST BENGAL	1	
10	KALASALINGAM INSTITUTE OF TECHNOLOGY, SRIVILLIPUTHUR	2	
11	KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY	1	
12	MIET ENGINEERING COLLEGE, TRICHY	2	
13	NANDHA ENGINEERING COLLEGE, ERODE	1	
14	PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE,	3	
14	THANJAVUR		
15	PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY,	1	

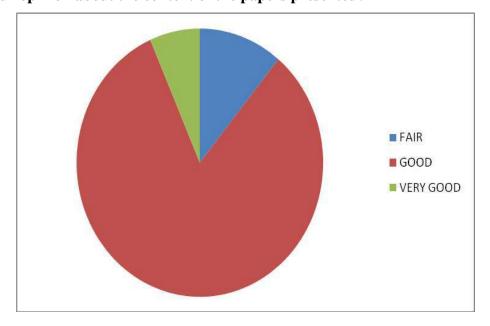
	VALLAM	
16	RAJALAKSHMI INSTITUTE OF TECHNOLOGY, CHENNAI	
17	SRM INSTITUTE OF SCIENCE & TECH, CHENNAI	
18	UNIVERSITY COLLEGE OF ENGINEERING NAGERCOIL	
19	VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY,	1
19	KERALA	1
20	VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY,	1
20	KARNATAKA	
	EXTERNAL PARTICIPANTS TOTAL	31
21	KINGS COLLEGE OF ENGINEERING	60
	TOTAL	91

### Feedback from the participants

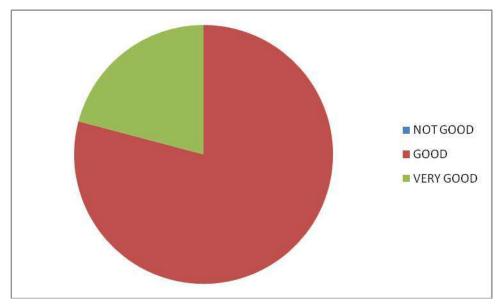
1. How do you feel about the registration process?



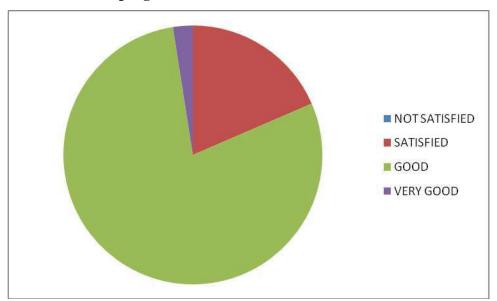
2. What is your opinion about the content of the papers presented?



3. What do you feel about the quality of audio and visual feed throughout the online programme?



4. Your opinion about overall progress of this event.



All the events have been recorded and published in college YouTube channel with running time of 60 minutes. The YouTube link is: <a href="https://youtu.be/nehbOIMsM2E">https://youtu.be/nehbOIMsM2E</a>

**Staff Co-ordinator** 

**Head of the Department** 

T. Penhan







# DEPARTMENT OF MECHANICAL ENGINEERING ACADEMIC YAER 2020-21/ ODD SEMESTER

#### WEBINAR REPORT

The Department of Mechanical Engineering and Research & Development had jointly organized a National Level Webinar on "LEAD CADMIUM TIN ALLOYS AND ITS MECHANICAL AND CORROSION BEHAVIOURS" for faculty, students, resource scholars and Industrial persons by online mode on 26.09.2020 at 3.00 p.m to 4.00 p.m. Dr. S. Mahendran, Assistant Professor HoD/Mechanical, University College of Engineering, Thirukkuvalai delivered the Webinar presentation.

The welcome address was given by **Mr. R. Shankar**, Assistant Professor/ Department of Mechanical, Kings College of Engineering. Resource person **Dr. S. Mahendran**, Assistant Professor HoD/Mechanical, University College of Engineering, Thirukkuvalai was introduced by **Dr.T.Pushparaj** Professor HoD/ Mechanical, Kings College of Engineering. The resource person had given the lecture on **"LEAD CADMIUM TIN ALLOYS AND ITS MECHANICAL AND CORROSION BEHAVIOURS"**. In this lecture, he explained about the anti-corrosion characteristics contributed by a double reduced as the base substrate for tinplate and other tin mill small quantities from the production of another metal.

In this webinar, 134 participants registered from various Institutions. Among these, 83 participants were from Engineering Colleges. Remaining participants were from various Polytechnic College and Arts and Science Colleges in around Tamil Nadu. Vote of thanks was given by **Mr. S.Karthi**, Assistant Professor/ Department of Mechanical, Kings College of Engineering.

All the attended participants gave their feed back after the webinar session and E-certificate had been sent to them through email. The webinar brochure, copy of certificate for participants, list of participates and detailed feedback analyses are given below.

#### **Webinar Brochure**



#### **Participation Certificate-Sample Copy**



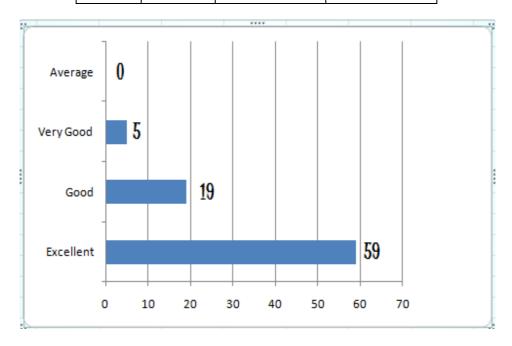
### <u>List of attended participants</u>

S.No	Name of the Institute/ Organization	Number of Participants
1.	ARJ College of Engineering and Technology, Mannargudi, Tamilnadu.	03
2.	AVC College of Engineering, Mannampandal, Mayiladuthurai, Tamilnadu.	02
3.	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	02
4.	Anna University ,Trichy, Tamilnadu	01
5.	Aarupadai Veedu Institute of Technolgy, Chennai	01
6.	Annamalai University, Chidhabaram	02
7.	C.P.S Engineering College, Mathura, Uttar Pradesh.	01
8.	E.G.S Pillay Engineering College, Nagapattinam, Tamilnadu.	04
9.	Easwari Engineering College, Chennai, Tamilnadu.	02
10.	Erode Sengunthar Engineering College, Erode, Tamilnadu.	01
11.	Francis Xavier Engineering College , Tirunelveli, Tamilnadu.	02
12.	Freezco Corporation Rourkela	01
13.	Gayatri Vidya Parishad College of Engineering, Vishakapattinam, Andhra Pradesh.	01
14.	Government College of Engineering, Sengipatti, Tamilnadu.	03
15.	GKM College of Engineering And Technology, Chennai, Tamilnadu.	01
16.	G.Pulla Reddy Engineering College, Kurnool, Andhra Pradesh.	01
17.	Govt.Polytechnic College Trichy, Tamilnadu.	01
18.	G V Acharya College, Shelu, Mumbai	01
19.	Gnanamani College of Technology , Namakkal	03
20.	IFET College of Engineering, Chennai, Tamilnadu.	01
21.	Jeppiaar Institute of Technology, Chennai, Tamilnadu.	05
22.	JNN Institute of Engineering, Thiruvallur, Tamilnadu	02
23.	K. Ramakrishnan College of Technology, Trichy, Tamilnadu.	03
24.	K.S.K College of Engineering and Technology, Kumbokkonam, Tamilnadu.	05
25.	Kings College Of Engineering, Pudukkottdi, Tamilnadu.	15
26.	Kit-Kalaignar Karunanidhi Institute of Technology, Coimbatore, Tamilnadu.	01
27.	Knowledge Institute of Technology, Salem, Tamilnadu.	04
28.	Mookambigai College of Engineering	03
29.	MSN Institute of Management, Kerala	01
30.	National Institute of Technology, Trichy	01
31.	OBO Bettermann India Pvt ltd, Chennai	01
32.	Periyar Centenary Polytechnic College, Thanjavur	03
33.	Vignans Institute of Information Technology, Visakhapatnam	01
34.	V.O.C College, Thoothukudi	04

#### Feedback questions and responses

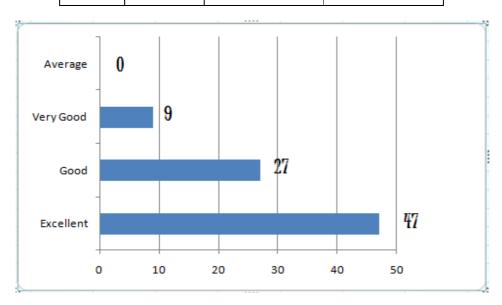
#### 1. How Well the Program Organized.

Excellent	Good	Very Good	Average
59	19	5	Nil



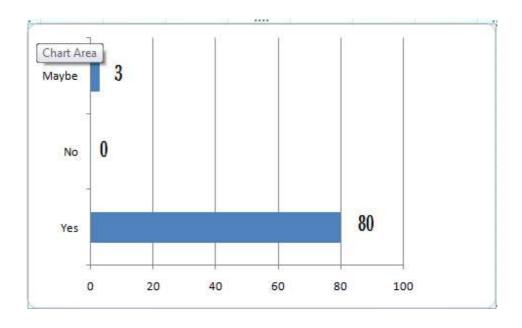
### $2. \ \ \text{How about the Audio Video Quality.}$

Excellent	Good	Very Good	Average
47	27	9	Nil



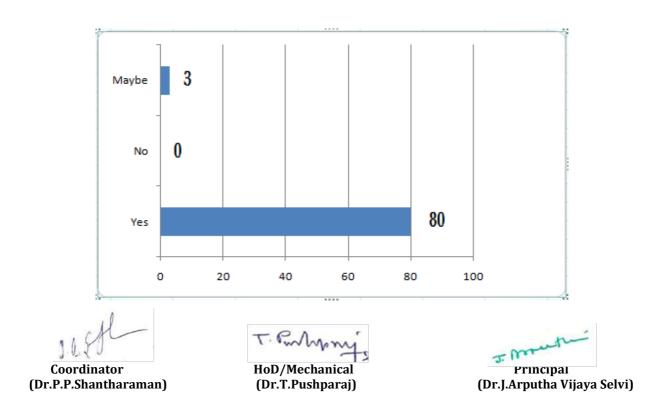
### 3. Did you Join future Events.

Yes	No	Maybe
80	Nil	3



### 4. Is the time sufficient for the content?

Yes	No	Maybe
80	Nil	3









#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **ACADEMIC YEAR 2019-20 / EVEN SEMESTER**

### **WEBINAR REPORT**

The Department of Mechanical Engineering and Research & Development section had jointly organized a National level webinar through online mode on "Introduction on Industrial Revolution 4.0" on 29.07.2020 at 11.00 a.m. to 12.00 p.m. Welcome address was given by Mr. R. Shankar, Assistant Professor /Department of Mechanical, Kings College of Engineering.

Resource person Mr.T.Thirumoorthy, Deputy Manager, Wheels India Limited, Chennai, was introduced by Dr. P. P. Shantharaman, Associate Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on "Introduction on Industrial Revolution 4.0". In his lecture, he explained about the 3D printing, Smart Sensors, EAM Software and Digitalization of Industry

In this webinar, **88** participants in **23** colleges have been registered from various institutions. Among these, **81** participants from various Engineering College, polytechnic college and Arts College have attended the webinar. Vote of thanks was given by **Mr.Desikan**, 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**



### **Participation Certificate – Sample Copy**



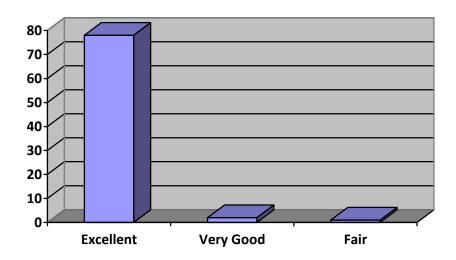
# **List of Attended Participants**

S.No	Name of the Institute/Organisation	Number of participants
1	A.R.J College of Engineering and Technology, Kumbakonam	1
2	A.V.C.College of Engineering, Mayladuthurai.	1
3	Apollo art and science college Chennai	1
4	Balaji institute of technology and science, Chennai	1
5	Bannari Amman Institute of technology Sathyamangalam Erode	1
6	GCE Thanjavur	1
7	Jansons Institute Of Technology,Perunthurai	1
8	Joginpally B.R. Engineering College, Hydrebad	1
9	K L UNIVERSITY,Guntur	1
10	Kamatachi industries Itd, Thoothukudi	1
11	Kings College of engineering, punalkulam.	57
12	KONGU ENGINEERING COLLEGE,PERUNDURAI	1
13	Mam college, Trichy	1
14	Mohamed sathak engineering college, Ramanathapuram	1
15	PSNA College of Engineering and Technology, Dindukal	1
16	RV college of engineering, Bengaluru	1
17	Sanjivani college,Maharashtra	1
18	Saranathan college of Engineering, Trichy	1
19	SASTRA University ,Thanjavur	1
20	Sree Chaitanya college of engineering, Telangana	1
21	SRM TPR Engineering College, Trichy	1
22	The Oxford College Of Engineering, Trichy	1
23	University College of Engineering Thirukkuvalai	1
24	Wheels India Ltd,Chennai	1

### **Feedback questions and responses**

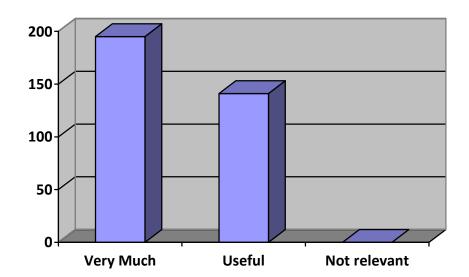
### 1. How satisfied were you with the session content?

Excellent	Very Good	Fair
78	2	1



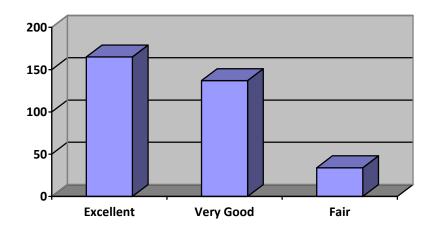
# 2. How relevant and helpful do you think it was for your job?

Very Much	Useful	Not relevant
195	141	0



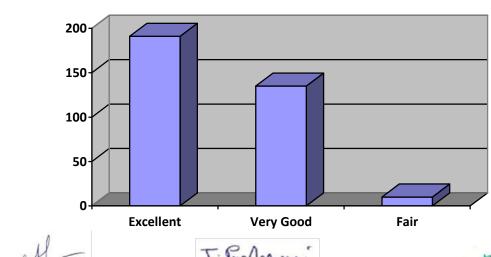
### 3. How satisfied were you with the session Video and Audio streaming?

Excellent	Very Good	Fair
165	137	34



### 4. Overall feedback for the event?

Excellent	Very Good	Fair
191	135	10



Coordinator (Dr.P.P.Shantharaman)

HOD/Mechanical

(Dr.T.Pushparaj)

2 muni

Principal (Dr.J.Arputha Vijaya Selvi)







#### DEPARTMENT OF MECHANICAL ENGINEERING

#### ACADEMIC YEAR 2020-21 / ODD SEMESTER

### **WEBINAR REPORT**

The Department of Mechanical Engineering and Research & Development section had jointly organized a National level webinar through online mode on "Application of Design Expert Software in Manufacturing Industry" on 22.07.2020 at 11.00 a.m. to 12.30 p.m. Welcome address was given by Dr. T. Pushparaj, Head of the Department / Mechanical, Kings College of Engineering.

Resource person **Dr. M. Varatharajalu**, was introduced by **Dr. P. P. Shantharaman**, Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on "**Application of Design Expert Software in Manufacturing Industry**". In his lecture, he explained how Design Expert software will be helpful in Manufacturing Industry regarding designing the component proportions, optimizing the results, catagoric design includes various tools in design of experiments.

In this webinar, **490** participants in **116** colleges have been registered from various institutions. Among these, **335** 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**



### **Participation Certificate – Sample Copy**



# **List of Attended Participants**

S.No	Name of the Institute/Organisation	Number of participants
1	A.R.J College of Engineering And Technology	7
2	Aalim Muhammed Salegh College of Engineering	2
3	Aditya Ins. Of Tech And Mgt Tekkali	1
4	Aits College	1
5	Amrita Institue of Engineering	2
6	Andhra University College of Engineering (A)	1
7	Anna University College Of Engg Thirukkuvalai	1
8	Annamacharya Ins of Tech Tirupati	7
9	Arasu Engineering College	1
10	Avs College Of Technology	1
11	Cai College Of Engineering	1
12	Christ College of Engineering, Irinjalakuda	1
13	Christ The King Engineering College	2
14	Cit Sandwich Polytechnic College	1
15	Dhanalakshmi Srinivasan Engg College Perambalur	1
16	Dktes Tei	1
17	E. G. S. Pillay Engg. College	8
18	Er.Perumal Manimekalai College Fo Engineering	4
19	Ghss.Sanarpatti.624304., Dindigul	2
20	Government College Of Technology, Coimbatore.	1
21	Government Degree College J&K	1
22	Government Engineering College Valsad Gujarat	1
23	Holy Cross Home Science College, Thoothukudi.	1
24	Hyderabad Institute Of Technology And Management	2
25	Ibra College Of Technology, Ibra, Oman	1
26	Ifet College Of Engineeing	13
27	Institute of Aeronautical Engg,(Iare), Hyderabad	1
28	Jansons Institute of Technology	8
29	Jeppiaar Institute of Technology	1
30	K Ramakrishnan College	4
31	K S R Polytechnic College	3
32	K.L.N. College of Engineering	1
33	K.S.K College of Engg And Tech,	4
34	K.S.Rangasamy College Of Technology	1
35	Kalasalingam Academy Of Research And Education	2

36	Karpagam Academy of Higher Education	1
37	Karunya Institute Of Technology And Sciences	1
38	Kings Collage of Engineering	31
39	Knowledge Institute Of Technology	2
40	Kongu Arts And Science College	23
41	Kongu Engineering College	1
42	Kumaraguru College of Technology	1
43	Lakshmi Ammal Polytechnic College	6
44	M.A.M.College of Engg And Technology	1
45	Mahendra Institute Of Engineering And Technology	2
46	Mailam Engineering College	8
47	Manoj M K	1
48	Marthandam College of Engg Tech	2
49	Mea Engineering College	2
50	Meenakshi Academy of Higher Edu And Research	1
51	Mohamed Sathak Engineering College	3
52	Morning Star Polytechnic College	1
53	Mother Terasa College of Engg And Technology	3
54	Murugesan Institute Of Technology	1
55	Muthayammal Engineering College	1
56	Nadar Saraswathi College Theni	4
57	Nandha Arts And Science College, Erode	1
58	Nandha Engineering College	9
59	Nehru College of Management	1
60	Noida Institute of Engg And Tech Greater Noida	1
61	Parisutham Institute Of Technology And Science	2
62	Pragati Engineering College	2
63	Psna College of Engg And Technology	9
64	R C Patel Institute Of Technology	1
65	Pt. Ddu Rajkeey Ashram Inter College, Deoria. U.P.	1
66	Rajalakshmi Engineering College	3
67	Rajiv Gandhi College of Engg Tech	1
68	Rajkiya Engineering College, Kannauj	1
69	Rmk College Of Engineering And Technology	1
70	S A Engineering College	2
		1

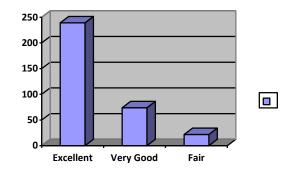
71         Sanjivani College Of Engineering         4           72         Saranathan College of Engineering         4           73         St.Peter's Institute of Higher Education And Research         6           74         Surya Engineering College, Erode         1           75         Syed Ammal Engineering College, Ramanathapuram         1           76         Tagore Institute Of Engineering And Technology         5           77         Tamil Nadu Teachers Education University, Chennai.         1           78         Thandai Periyar Government Institute Of Technology         2           79         The Kavery Engineering College         1           80         Thiagarajar Polytechnic College         2           81         Trichy Engineering College         1           82         Uce Pattukkottai, Kajamadam         1           83         Vel Tech R&D Institute Of Science And Technology         1           84         Velammal Institute of Technology, Chennai 601204         1           85         Vignan's Institute Of Information Visakhapatnam         1           86         Velalar College of Engineering And Technology         2           87         VIT         2           88         Vsvn Poly College, Virudhunagar         1 <th></th> <th></th> <th></th>			
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Surya Engineering College, Erode  75 Syed Ammal Engineering College, Ramanathapuram  76 Tagore Institute Of Engineering And Technology  77 Tamil Nadu Teachers Education University, Chennai.  78 Thandai Periyar Government Institute Of Technology  79 The Kavery Engineering College  80 Thiagarajar Polytechnic College  81 Trichy Engineering College  81 Trichy Engineering College  82 Uce Pattukkottai, Rajamadam  1 Silve Tech R&D Institute Of Science And Technology  1 Vel Tech R&D Institute Of Science And Technology  1 Vel Tech R&D Institute Of Science And Technology  1 Velaumal Institute of Technology, Chennai 601204  85 Vignan's Institute Of Information Visakhapatnam  1 VIT  86 Velalar College of Engineering And Technology  2 Sastra Deemed To Be University  87 VIT  88 Vsvn Poly College, Virudhunagar  89 Sastra Deemed To Be University  90 Scad College Of Engineering And Technology  4 Shri Mata Vaishno Devi University  91 Shri Mata Vaishno Devi University  92 Sir Issac Newton College  93 Sree Chaitanya College of Eng  94 Sree Rama Engineering College  95 Sree Sevugan College, Devakottai  96 Sri S Ramasamy Naidu Poly Sattur  97 Sri Satya Sai University of Tech & Medical Sciences  1 Smr Trp Engineering College  99 Sri Satya Sai University of Tech & Medical Sciences  1 Smr Trp Engineering College  10 Sri Venkateswaraa College  10 Sri Venkateswaraa College  10 Sri Surya Engineering College, Batur  10 Smr Trp Engineering College  10 St. Joseph's Institute Of Technology  10 St. Surya Engineering College, Erode  10 Swarnandhra College Of Engg. Tech.	72	Saranathan College of Engineering	4
75 Syed Ammal Engineering College, Ramanathapuram 76 Tagore Institute Of Engineering And Technology 77 Tamil Nadu Teachers Education University, Chennai. 78 Thandai Periyar Government Institute Of Technology 79 The Kavery Engineering College 80 Thiagarajar Polytechnic College 81 Trichy Engineering College 81 Trichy Engineering College 82 Uce Pattukkottai, Rajamadam 83 Vel Tech R&D Institute Of Science And Technology 84 Velammal Institute of Technology, Chennai 601204 85 Vignan's Institute Of Information Visakhapatnam 86 Velalar College of Engineering And Technology 87 VIT 88 Vsvn Poly College, Virudhunagar 89 Sastra Deemed To Be University 60 Scad College Of Engineering And Technology 91 Shri Mata Vaishno Devi University 90 Scad College Of Engineering And Technology 91 Shri Mata Vaishno Devi University 92 Sir Issac Newton College 93 Sree Chaitanya College of Engg 94 Sree Rama Engineering College -Tirupati 95 Sree Sevugan College of Devakottai 96 Sri S Ramasamy Naidu Poly Sattur 97 Sri S. Ramasamy Naidu Memorial Poly College Sattur 98 Sri Satya Sai University of Tech & Medical Sciences 100 Sri Venkateswaraa College 101 Srm Trp Engineering College 102 St. Joseph's Institute of Technology 103 St. Peter's Institute of Technology 104 St. Xavier's College, Playamkottai 105 Surya Engineering College, Frode 106 Swarnandhra College Of Engg. Tech.	73	St.Peter's Institute of Higher Education And Research	6
76 Tagore Institute Of Engineering And Technology 77 Tamil Nadu Teachers Education University, Chennai. 1 Thandai Periyar Government Institute Of Technology 2 The Kavery Engineering College 80 Thiagarajar Polytechnic College 81 Trichy Engineering College 82 Uce Pattukkottai, Rajamadam 83 Vel Tech R&D Institute Of Science And Technology 84 Velammal Institute of Technology, Chennai 601204 85 Vignan's Institute Of Information Visakhapatnam 1 Velalar College of Engineering And Technology 9 Virt 9 Sastra Deemed To Be University 90 Scad College Of Engineering And Technology 91 Shri Mata Vaishno Devi University 92 Sir Issac Newton College 93 Sree Chaitanya College of Engg 94 Sree Rama Engineering College -Tirupati 95 Sree Sevugan College of Deps Scad College Of Engineering Poly College Sattur 97 Sri S. Ramasamy Naidu Memorial Poly College Sattur 98 Sri Sairam Engineering College. 99 Sri Satya Sai University of Tech & Medical Sciences 100 Sri Venkateswaraa College 101 Srm Trp Engineering College 102 St. Joseph's Institute of Higher Education And Research 103 St. Peter's Institute of Higher Education And Research 104 St. Xavier's College, Palayamkottai 105 Surya Engineering College, Erode 106 Swarnandhra College of Engg. Tech.	74	Surya Engineering College, Erode	1
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The Kavery Engineering College  80 Thiagarajar Polytechnic College  81 Trichy Engineering College  82 Uce Pattukkottai, Rajamadam  83 Vel Tech R&D Institute Of Science And Technology  84 Velammal Institute of Technology, Chennai 601204  85 Vignan's Institute Of Information Visakhapatnam  86 Velalar College of Engineering And Technology  87 VIT  88 Vsvn Poly College, Virudhunagar  89 Sastra Deemed To Be University  90 Scad College Of Engineering And Technology  91 Shri Mata Vaishno Devi University  92 Sir Issac Newton College  93 Sree Chaitanya College of Engg  94 Sree Rama Engineering College -Tirupati  95 Sree Sevugan College ,Devakottai  96 Sri S Ramasamy Naidu Memorial Poly College Sattur  97 Sri S. Ramasamy Naidu Memorial Poly College Sattur  98 Sri Sairam Engineering College,  99 Sri Satya Sai University of Tech & Medical Sciences  100 Sri Venkateswaraa College  101 Srm Trp Engineering College  102 St. Joseph's Institute Of Technology  103 St. Peter's Institute of Higher Education And Research  104 St. Xavier's College, Palayamkottai  105 Surya Engineering College, Erode  106 Swarnandhra College Of Engg. Tech.	77	Tamil Nadu Teachers Education University, Chennai.	1
80 Thiagarajar Polytechnic College 81 Trichy Engineering College 82 Uce Pattukkottai, Rajamadam 83 Vel Tech R&D Institute Of Science And Technology 84 Velammal Institute of Technology, Chennai 601204 85 Vignan's Institute Of Information Visakhapatnam 86 Velalar College of Engineering And Technology 87 VIT 88 Vsvn Poly College, Virudhunagar 89 Sastra Deemed To Be University 60 Scad College Of Engineering And Technology 91 Shri Mata Vaishno Devi University 92 Sir Issac Newton College 93 Sree Chaitanya College of Engg 94 Sree Rama Engineering College -Tirupati 95 Sree Sevugan College, Devakottai 96 Sri S Ramasamy Naidu Poly Sattur 97 Sri S. Ramasamy Naidu Memorial Poly College Sattur 98 Sri Sairam Engineering College, 99 Sri Satya Sai University of Tech & Medical Sciences 100 Sri Venkateswaraa College 101 Srm Trp Engineering College 102 St. Joseph's Institute Of Technology 103 St. Peter's Institute Of Technology 105 Surya Engineering College, Erode 106 Swarnandhra College of Engg. Tech.	78	Thandai Periyar Government Institute Of Technology	2
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96 Sri S Ramasamy Naidu Poly Sattur 2 97 Sri S. Ramasamy Naidu Memorial Poly College Sattur 1 98 Sri Sairam Engineering College, 2 99 Sri Satya Sai University of Tech & Medical Sciences 1 100 Sri Venkateswaraa College 1 101 Srm Trp Engineering College 3 102 St. Joseph's Institute Of Technology 8 103 St.Peter's Institute of Higher Education And Research 104 St.Xavier's College, Palayamkottai 105 Surya Engineering College, Erode 2 106 Swarnandhra College Of Engg. Tech.	94	Sree Rama Engineering College -Tirupati	1
97 Sri S. Ramasamy Naidu Memorial Poly College Sattur  98 Sri Sairam Engineering College,  99 Sri Satya Sai University of Tech & Medical Sciences  100 Sri Venkateswaraa College  101 Srm Trp Engineering College  102 St. Joseph's Institute Of Technology  103 St.Peter's Institute of Higher Education And Research  104 St.Xavier's College, Palayamkottai  105 Surya Engineering College, Erode  106 Swarnandhra College Of Engg. Tech.	95	Sree Sevugan College ,Devakottai	3
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105 Surya Engineering College, Erode 2 106 Swarnandhra College Of Engg. Tech. 1	103	St.Peter's Institute of Higher Education And Research	6
106 Swarnandhra College Of Engg. Tech. 1	104	St.Xavier's College, Palayamkottai	1
2 Mariana Conego of English Toom	105	Surya Engineering College, Erode	2
107 Syed Ammal Engineering College, Ramanathapuram 1	106	Swarnandhra College Of Engg. Tech.	1
	107	Syed Ammal Engineering College, Ramanathapuram	1

108	Tagore Institute Of Engineering And Technology	2
109	Tamil Nadu Teachers Education University, Chennai.	1
110	Thandai Periyar Government Institute Of Technology	1
111	Thanthai Roever Arts And Science College	1
112	The Kavery Engineering College	1
113	Thiagarajar Polytechnic College	1
114	Trichy Engineering College	2
115	Uce Pattukkottai,Rajamadam	1
116	Vel Tech R&D Institute Of Science And Technology	2

# Feedback questions and responses

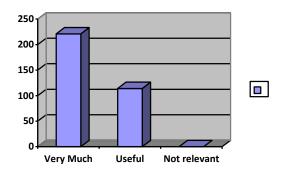
### 1. How satisfied were you with the session content?

Excellent	Very Good	Fair
239	74	22



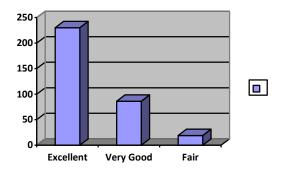
# 2. How relevant and helpful do you think it was for your job?

Very Much	Useful	Not relevant
221	114	0



### 3. How satisfied were you with the session Video and Audio streaming?

Excellent	Very Good	Fair
230	86	19



### 4. Overall feedback for the event?

Excellent	Very Good	Fair
219	103	13



Coordinator (Mr.S.Sabanayagam) HOD/Mechanical

(Dr.T.Pushparaj)

Principal

(Dr.J.Arputha Vijaya Selvi)







#### DEPARTMENT OF MECHANICAL ENGINEERING

#### ACADEMIC YEAR 2019-20 / EVEN SEMESTER

### **WEBINAR REPORT**

The Department of Mechanical Engineering and Dr. A. P. J Abdul Kalam Memorial Foundation had jointly organized a National level webinar through online mode on "Recent Trends in Automotives" on 10.06.2020 at 11.00 a.m. to 12.30 p.m. Welcome address was given by Dr. P. P. Shantharaman, Professor / Mechanical, Kings College of Engineering.

Automotives, Singapore, was introduced by Dr. P. P. Shantharaman, Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on "Recent Trends in Automotives". In his lecture, he explained about the various concepts of current Automotive systems such as Engine Ignition Systems, Types of vehicles (Hybrid, Electric and Gasoline), Automated door opening and closing system, Headlights and its customization and various additional features of current trends.

In this webinar, **343** participants from **153** colleges have registered from various institutions. Among these, **140** 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



### **Participation Certificate – Sample Copy**



# **List of Attended Participants**

S.No	Name of institute/Organisation	Number of participants
1	6230 TAGORE INSTITUTE OF ENGINEERING AND TECHNOLOGY, Attur	1
2	A B I T Institute Of Technology	1
3	A.B.I.T. Polytechnic. Shendre, Satara.	1
4	A.R.J College of Engineering and Technology	2
5	A.V.C.COLLEGE OF ENGINEERING	1
6	AAA COLLEGE OF ENGINEERING AND TECHNOLOGY	7
7	Aalim Muhammed Salegh College of Engineering	1
8	Academy of Maritime Education and Education (AMET), Deemed to be University	4
9	ACS COLLEGE OF ENGINEERING, BANGALORE-74	1
10	Adarsha institute of technology and research centre vita Khanapur Dist Sangli	1
11	Aditya Engineering College	1
12	ADM COLLEGE FOR WOMEN AUTONOMOUS	1
13	AIHT	1
14	AITRC Vita	5
15	AITSR	1
16	Alpha College of Engineering and Technology	1
17	Amet university	1
18	Anand Institute of Higher Technology	2
19	Andhra University College of Engineering (A)	1
20	Anil Neerukonda Institute of Technology and Sciences	1
21	Anjalai Ammal Mahalingam Engineering College	1
22	Anna university	1
23	Anna University College of Engineering Thirukkuvalai 610204	1
24	Annamacharya institute of technology and sciences, Rajampet	3
25	Annamalai University	2
26	ARASU ENGINEERING COLLEGE	3
27	Arifa Institute Of Technology	1
28	Arts science and commerce college Kolhar	1
29	ARULMIGU KALASAKLIGAM POLYTECHNIC COLLEGE,KRISHNAKOIL,VIRUDHUNAGAR.	1
30	As-salam college of engineering and technology	1
31	AVS COLLEGE OF TECHNOLOGY	4
32	B.V.P.I.T. (D.S.), UMRAKH, BARDOLI, SURAT, GUJARAT	1
33	Baba Institute of technology and science	1
34	Balas Al-Wataniya Gen.Trad.Cont.Co	1
35	BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM-638401	5
36	Basaveshwar engineering college Vidyagiri Bagalkot	8
37	BASVESHWAR ENGINEERING COLLEGE BHAGALKOT	1

20	Phowathi waman'a callage (A) shannai 100	1
38	Bharathi women's college (A), chennai-108	1
39	Birajdar Institute	1
40	BIT Sathyamangalam	1
	BIT, Sathyamangalam	1
42	Brahma valley COERI Nashik	1
43	Butler Polytechnic Vadodara	1
44	BVPIT(DS),UMRAKH, BARDOLI	2
45	CALCUTTA INSTITUTE OF TECHNOLOGY CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	1
46		1
47	Chennai Institute of Technology	1
	College of Fisheries Engineering	1
49	Cusrow Wadia institute of technology	2
50	Department of mechanical engineering gct	1
51	Dhanalakshmi srinivasan college of art and science for Women Autonomous	1
52	Dhanalakshmi Srinivasan engineering college	1
53	Dhanalakshmi srinivasan institute of technology	1
54	Dr. Mahalingam College of Engineering and Technology	1
55	Dr.Kalam polytechnic college	1
56	EGS PILLAY ENGINEERING COLLEGE	10
57	Er.perumal manimekalai college of engineering	5
58	Faculty of Engg & Tech, Annamalai University	1
59	G H Patel College of Engineering & Technology	1
60	Ganadipathy tulsi's Jain engineering college. Vellore	1
61	GEC VALAD	1
62	Geetanjali institute of technical studies dabok Udaipur	1
63	GH raisoni College of engineering nagpur	1
64	GITS Udaipur	1
65	Government College of engineering, sengipatti, Thanjavur	8
66	Government college of technology coimbatore	1
67	Government Engineering College Valsad	1
68	Government Polytechnic, Jalgaon	1
69	GRT INSTITUTE OF ENGINEERING AND TECHNOLOGY, TIRUTTANI	2
70	Holy Mary Institute of Technology and Science Hyderabad	1
71	HR INTITUTE OF TECHNOLOGY, GHZ	1
72	ICICI BANK LTD	1
73	IIEST SHIBPUR	1
74	Infant Jesus College Of Engineering	1
75	INSTITUTE OF MANAGEMENT SCIENCES UNIVERSITY OF LUCKNOW	1
76	Jaishri Ram Engineering college	6
77	JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY	1
78	Jeppiaar Engineering College	3
79	K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY	2
80	Karpagam Academy of Higher Education	1

81       Karpagam institute of technology       1         82       KITT Deemed to be University       1         83       Kings College of Engineering.       82         84       KISHORI RAMAN PC GOLLEGE MATHURA       1         85       KIN COLLEGE OF ENGINEERING, POTTAPALAYAM       1         86       Kongu Arts and Science College (Autonomous)       2         87       Kongu engineering college       2         88       KSKCET       1         89       L. S. Raheja College of Arts and Commerce       2         90       L. NMU Darbhanga       2         91       Lord Jegannath College of Engineering and Technology       1         92       Madurai institute of technology       1         93       M.A.M.COLLEGE of ENGINEERING       5         94       M.A.M.SCHOOL OF ENGINEERING       5         95       Mahan Bachitat Singh College of Engineering and Technology Jammu       2         96       Mahendra Engineering College       1         97       Mahendra Institute of Engineering and Technology       1         98       Mam school of Engineering       1         99       Manikandam college of engineering       1         100       Maratha Mandal Engineering College <th></th> <th></th> <th></th>			
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84       KISHORI RAMAN PG COLLEGE MATHURA       1         85       KLN COLLEGE OF ENGINEERING, POTTAPALAYAM       1         86       Kongu Arts and Science College (Autonomous)       2         87       Kongu engineering college       2         88       KSKCET       1         89       L. S. Raheja College of Arts and Commerce       2         90       LMU Darbhanga       2         91       Lord Jegannath College of Engineering and Technology       1         92       Madurai institute of technology       1         93       M.A.M.COLLEGE of ENGINEERING and TECHNOLOGY       2         94       M.A.M.SCHOOL OF ENGINEERING       5         95       Mahant Bachittar Singh College of Engineering and Technology Jammu       2         96       Mahendra Engineering College       1         97       Mahendra Engineering College       1         98       Mam school of Engineering       1         100       Maratha Mandal Engineering College       1         101       MOHAMED SATHAK ENGINEERING COLLEGE       2         102       Mookambigai College of Engineering College       2         103       Motherterasa Polytechnic College, Illupur       4         104       muthayanmal	82	KIIT Deemed to be University	1
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Rongu Arts and Science College (Autonomous)   2	84	KISHORI RAMAN PG COLLEGE MATHURA	1
87       Kongu engineering college       2         88       KSKCET       1         89       L. S. Raheja College of Arts and Commerce       2         90       LNMU Darbhanga       2         91       Lord Jegannath College of Engineering and Technology       1         92       Madural institute of technology       1         93       M.A.M.COLLEGE of ENGINEERING and TECHNOLOGY       2         94       M.A.M.SCHOOL OF ENGINEERING       5         95       Mahant Bachittar Singh College of Engineering and Technology Jammu       2         96       Mahendra Engineering College       1         97       Mahendra Institute of Engineering       1         98       Mam school of Engineering       1         100       Maratha Mandal Engineering College       1         101       MoHAMED SATHAK ENGINEERING COLLEGE       2         102       Mookambigai College of Engineering       2         103       Motherterasa Polytechnic College, Illupur       4         104       muthayammal engineering college       2         105       NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY       1         106       NYPEMI Kanpur       1         107       P ES INSTITUTE OF TECHNOLOG	85	KLN COLLEGE OF ENGINEERING, POTTAPALAYAM	1
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	124	Sigma Institute of Engineering , Vadodara	1

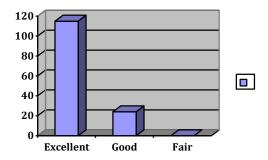
Page 594 of 747

125	Smt. Premilatai Chavan Polytechnic, Karad	1
126	SONA COLLEGE OF TECHNOLOGY	1
127	Spm polytechnic kumathe	1
128	Sri krishna college of engineerinng and technology	1
129	Sri Manakula Vinayagar Engineering College	2
130	Sri Ramakrishna Polytechnic College	2
131	Sri Satya Sai University of Technology & Medical Sciences	1
132	SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY COIMBATORE 62	1
133	Sri Venkateswaraa college of Technology	2
134	SRM Institute of Science and Technology, Kattankulathur	2
135	ST.JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY THANJAVUR	2
136	SVR ENGINEERING COLLEGE	1
137	SYED AMMAL ENGINEERING COLLEGE	1
138	Tadipatri Engineering College	1
139	Tatva Institute of Technological Studies, Modasa	1
140	Thamirabharani engineering college	1
141	TRC Mahavidyalay	1
142	UNIVERSAL COLLEGE OF ENGINEERING AND TECHNOLOGY	1
143	University College of Engineering Pattukkottai,Rajamadam	1
144	USHA RAMA COLLEGE ENGINEERING & TECHNOLOGY	1
145	V.s.b college of engineering technical campus	1
146	V.V.P. Engineering College	1
147	Vaish college of engineering	1
148	Velammal Institute of Technology	2
149	Vellalar college for women	1
150	VIGNAN INSTITUTE OF SCIENCE AND TECHNOLOGY	7
151	VIVEKANANDA POLYTECHNIC COLLEGE, KUMMANGUDI	1
152	Wollega University, Nekemte, Ethiopia	1
153	YADAVRAO TASGAONKAR COLLEGE OF ENGINEERING AND MANAGEMENT	1

# **Feedback questions and responses**

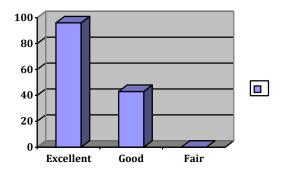
# 1. Content of the Program?

Excellent	Good	Fair
116	24	0



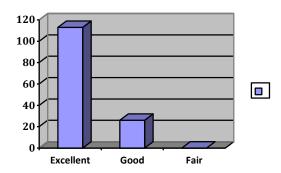
### 2. Quality of Audio/Video Streaming?

Excellent	Good	Fair
97	43	0



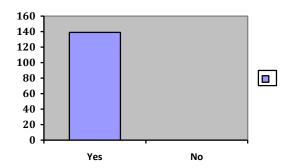
### 3. Way of Presentation?

Excellent	Good	Fair
114	26	0



### 4. Are you interested in future webinars in Kings?

Yes	No
140	0

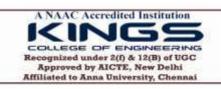


(D1.F.P.Shantharaman)

HOD/Mechanical
(Dr.T.Pushparaj)

Principal (Dr.J.Arputha Vijaya Selvi)







### DEPARTMENT OF MECHANICAL ENGINEERING

#### ACADEMIC YEAR 2019-20 / EVEN SEMESTER

### **WEBINAR REPORT**

The Department of Mechanical Engineering and Research & Development section had jointly organized a National level webinar through online mode on "Fundamentals of Product Design" on 23.05.2020 at 11.00 a.m. to 12.30 p.m. Welcome address was given by Dr. T. Pushparaj, Head of the Department / Mechanical, Kings College of Engineering.

Resource person **Dr.N.L.Parthasarathi**, **Scientific officer**, **IGCAR**, **Chennai**, was introduced by **Dr. P. P. Shantharaman**, Professor/Mechanical, Kings College of Engineering. The resource person had given the lecture on "**Fundamentals of Product Design**". In his lecture, he explained about the Wire framing apps, Graphic design apps, Prototyping tools, Research and data analytics tools (e.g., spreadsheets, sophisticated A/B testing apps), CAD (computer aided design) software, Project management apps (e.g., Trello) and Product roadmap apps (e.g., Product Plan)

In this webinar, **520** participants in **121** colleges have been registered from various institutions. Among these, **337** participants from various Engineering College, polytechnic college and Arts College have attended the webinar. Vote of thanks was given by **Mr.M.Melwin J Sridhar**, 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**



### <u>Participation Certificate – Sample Copy</u>



2

<del>49</del>

# **List of Attended Participants**

S.No	Name of the Institute/Organisation	Number of participants
1	A.R.J College of Engineering And Technology	7
2	Aalim Muhammed Salegh College of Engineering	2
3	Aditya Ins. Of Tech And Mgt Tekkali	1
4	Aits College	1
5	Amrita Institue of Engineering	2
6	Andhra University College of Engineering (A)	1
7	Anna University College Of Engg Thirukkuvalai	1
8	Annamacharya Ins of Tech Tirupati	7
9	Arasu Engineering College	1
10	Avs College Of Technology	1
11	Cai College Of Engineering	1
12	Christ College of Engineering, Irinjalakuda	1
13	Christ The King Engineering College	2
14	Cit Sandwich Polytechnic College	1
15	Dhanalakshmi Srinivasan Engg College Perambalur	1
16	Dktes Tei	1
17	E. G. S. Pillay Engg. College	8
18	Er.Perumal Manimekalai College Fo Engineering	4
19	Ghss.Sanarpatti.624304., Dindigul	2
20	Government College Of Technology, Coimbatore.	1
21	Government Degree College J&K	1
22	Government Engineering College Valsad Gujarat	1
23	Holy Cross Home Science College, Thoothukudi.	1
24	Hyderabad Institute Of Technology And Management	2
25	Ibra College Of Technology, Ibra, Oman	1
26	Ifet College Of Engineeing	13
27	Institute of Aeronautical Engg,(Iare), Hyderabad	1
28	Jansons Institute of Technology	8
29	Jeppiaar Institute of Technology	1
30	K Ramakrishnan College	4
31	K S R Polytechnic College	3
32	K.L.N. College of Engineering	1
33	K.S.K College of Engg And Tech,	4
34	K.S.Rangasamy College Of Technology	1
35	Kalasalingam Academy Of Research And Education	2

36	Karpagam Academy of Higher Education	1
37	Karunya Institute Of Technology And Sciences	1
38	Kings Collage of Engineering	31
39	Knowledge Institute Of Technology	2
40	Kongu Arts And Science College	23
41	Kongu Engineering College	1
42	Kumaraguru College of Technology	1
43	Lakshmi Ammal Polytechnic College	6
44	M.A.M.College of Engg And Technology	1
45	Mahendra Institute Of Engineering And Technology	2
46	Mailam Engineering College	8
47	Manoj M K	1
48	Marthandam College of Engg Tech	2
49	Mea Engineering College	2
50	Meenakshi Academy of Higher Edu And Research	1
51	Mohamed Sathak Engineering College	3
52	Morning Star Polytechnic College	1
53	Mother Terasa College of Engg And Technology	3
54	Murugesan Institute Of Technology	1
55	Muthayammal Engineering College	1
56	Nadar Saraswathi College Theni	4
57	Nandha Arts And Science College, Erode	1
58	Nandha Engineering College	9
59	Nehru College of Management	1
60	Noida Institute of Engg And Tech Greater Noida	1
61	Parisutham Institute Of Technology And Science	2
62	Pragati Engineering College	2
63	Psna College of Engg And Technology	9
64	R C Patel Institute Of Technology	1
65	Pt. Ddu Rajkeey Ashram Inter College, Deoria. U.P.	1
66	Rajalakshmi Engineering College	3
67	Rajiv Gandhi College of Engg Tech	1
68	Rajkiya Engineering College, Kannauj	1
69	Rmk College Of Engineering And Technology	1
70	S A Engineering College	2

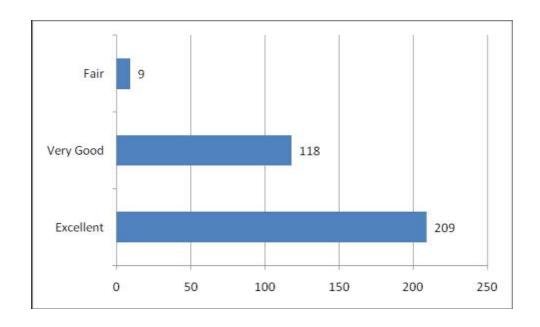
71	Sanjivani College Of Engineering Autonomous	2
72	Saranathan College of Engineering	4
73	St.Peter's Institute of Higher Education And Research	6
74	Surya Engineering College, Erode	1
75	Syed Ammal Engineering College, Ramanathapuram	1
76	Tagore Institute Of Engineering And Technology	5
77	Tamil Nadu Teachers Education University, Chennai.	1
78	Thandai Periyar Government Institute Of Technology	2
79	The Kavery Engineering College	1
80	Thiagarajar Polytechnic College	2
81	Trichy Engineering College	1
82	Uce Pattukkottai,Rajamadam	1
83	Vel Tech R&D Institute Of Science And Technology	1
84	Velammal Institute of Technology, Chennai 601204	1
85	Vignan's Institute Of Information Visakhapatnam	1
86	Velalar College of Engineering And Technology	2
87	VIT	2
88	Vsvn Poly College, Virudhunagar	1
89	Sastra Deemed To Be University	6
90	Scad College Of Engineering And Technology	4
91	Shri Mata Vaishno Devi University	16
92	Sir Issac Newton College	2
93	Sree Chaitanya College of Engg	2
94	Sree Rama Engineering College -Tirupati	1
95	Sree Sevugan College ,Devakottai	3
96	Sri S Ramasamy Naidu Poly Sattur	2
97	Sri S. Ramasamy Naidu Memorial Poly College Sattur	1
98	Sri Sairam Engineering College,	2
99	Sri Satya Sai University of Tech & Medical Sciences	1
100	Sri Venkateswaraa College	1
101	Srm Trp Engineering College	3
102	St. Joseph's Institute Of Technology	8
103	St.Peter's Institute of Higher Education And Research	6
104	St.Xavier's College, Palayamkottai	1
105	Surya Engineering College, Erode	2

106	Swamon dhas Callage Of Enga Tash	1
	Swarnandhra College Of Engg. Tech.	1
107	Syed Ammal Engineering College, Ramanathapuram	1
108	Tagore Institute Of Engineering And Technology	2
109	Tamil Nadu Teachers Education University, Chennai.	1
110	Thandai Periyar Government Institute Of Technology	1
111	Thanthai Roever Arts And Science College	1
112	The Kavery Engineering College	1
113	Thiagarajar Polytechnic College	1
114	Trichy Engineering College	2
115	Uce Pattukkottai,Rajamadam	1
116	Vel Tech R&D Institute Of Science And Technology	2
117	Velammal Institute of Technology, Chennai 601204	1
118	Vellalar College For Women	1
119	Vignan's Institute Of Information Visakhapatnam	1
120	VIT	2
121	Vsvn Poly College, Virudhunagar	1

# Feedback questions and responses

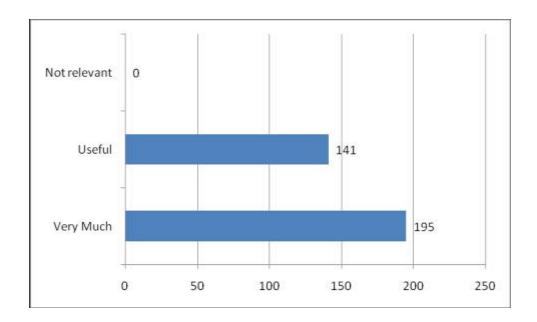
# 1. How satisfied were you with the session content?

Excellent	Very Good	Fair
209	118	9



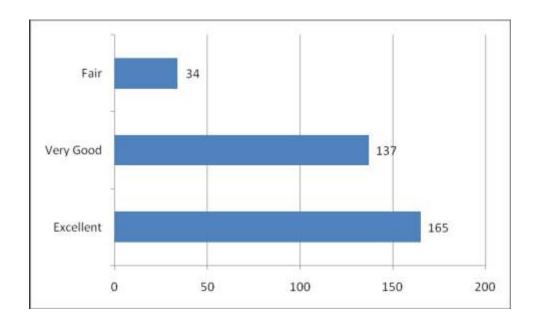
# 2. How relevant and helpful do you think it was for your job?

Very Much	Useful	Not relevant
195	141	0



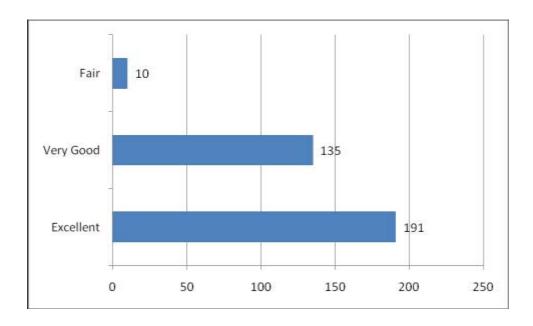
### 3. How satisfied were you with the session Video and Audio streaming?

Excellent	Very Good	Fair
165	137	34



### 4. Overall feedback for the event?

Excellent	Very Good	Fair
191	135	10



1.1.50

Coordinator (Dr.P.P.Shantharaman)

T. Purhang

HOD/Mechanical (Dr.T.Pushparaj)

Principal

(Dr.J.Arputha Vijaya Selvi)







### DEPARTMENT OF MECHANICAL ENGINEERING

### ACADEMIC YEAR 2019-20 / EVEN SEMESTER

### **WEBINAR REPORT**

- The Department of Mechanical Engineering had organized a First National level webinar through online mode on "MACHINE TOOLS" on 21.05.2020 at 11.00 a.m. to 12.30 p.m.
- Welcome address was given by **Dr. T. Pushparaj**, Head of the Department / Mechanical, Kings College of Engineering.
- Resource person **Dr. S. Sivasankar**, Professor/Mechanical, Government College of Engineering, Sengipatti, Thanjavur was introduced by **Dr. P. P. Shantharaman**, Professor/Mechanical, Kings College of Engineering.
- The resource person had given the lecture on "MACHINE TOOLS"
  - In his lecture, he explained the metal cutting tool theory
  - solve simple numerical problem on related concepts and
  - taught various materials used for cutting tools.

In the end of the session, he had given some objective type questions to participants. The participants also answered the questions actively.

- In this webinar, **513** participants in **107** colleges have been registered from various institutions. Among these, **90** participants from various Engineering College, polytechnic college and Arts College have attended the webinar.
- Vote of thanks was given by **Mr.J.Rajaparthiban**, 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.

# Resource person Dr.S. Sivasankar, GCE, Thanjavur, delivered his lecture through online mode (video conferencing using Cisco Webex App)











### **Webinar Brochure**



Participation Certificate - Sample Copy

# **List of Registered participants**

SN	Name of the Institution	No. of
1	K.S.K COLLEGE OF ENGINEERING AND TECHNOLOGY	participants
2	Parisutham Institute of Technology and Science	5 2
3		47
4	Kings College of Engineering Saranathan college of Engineering	9
5	Arifa Institute of Technology	26
6	K. Ramakrishnan College of Engineering	18
7	ARASU ENGINEERING COLLEGE	7
8	A.V.C.College of Engineering	1
9	IARE	1
10	SJCET, THANJAVUR	7
11	Noorul Islam center for higher education	1
12	SRI SAIRAM ENGINEERING COLLEGE	4
13	Sri Venkateswara college of engineering	1
14	SREE CHAITANYA COLLEGE OF ENGG KARIMANAGAR TS	7
15	Moradabad Institute of Technology, Moradabad	1
16	PSCMRCET, VIJAYAWADA	6
17	Chennai Institute of Technology	1
18	Thandai Periyar Government Institute of Technology	1
19	Prakasam engineering college	3
20	SRI RAMAKRISHNA INSTITUTE OF TECH,COIMBATORE	3
21	Indur Institute of Engineering and Technology, Siddipet	1
22	KPR INSTITUTE OF ENGG AND TECHNOLOGY, COIMBATORE	1
23	Government College of Technology	1
24	CIT SANDWICH POLYTECHNIC COLLEGE	1
	POTTI SRIRAMULU CHALAVADI MALLIKARJUNA RAO	
25	COLLEGE OF ENGG AND TECH	1
26	Velammal Institute of Technology, Chennai 601204	2
27	MARTHANDAM COLLEGE OF ENGG AND TECHNOLOGY	1
28	ARJ college of engineering and technology	4
29	K Ramakrishnan college of Technology	7
30	Pallavi Engineering college	1
31	E.G.S Pillay Engineering College	6
32	Lakshmi ammal polytechnic college	100
33	Government College of engineering,thanjavur	45
34	SRI.S.RAMASAMY NAIDU MEMORIAL POLY COLLEGE,SATTUR.	2
35	M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR.	1
36	SSSUTMS	1
37	Morning Star polytechnic College	5
38	Kalasalingam Academy Of Research And Education	1
39	National Institute of Technology, Trichy	1
40	Pastor lenssen polytechnic college, Tirunelveli	2
41	Noida Institute of Engineering and Technology Greater Noida	1
42	Pragati engineering college	1
43	Hitkarini College of Engineering & Technology, Jabalpur	3
44	Anna university	4

15	Character Callery English	2
45	Surya Engineering College, Erode.	2
46	University College of Engineering, Pattukkottai  IMA/Chennai	1
47		1
48	Jeppiaar Institute of Technology	2
49	Government Engineering College, Valsad	12
50	Sastra deemed to be university	19
51	Periyar centenary polytechnic college	7
52	Kongu arts and science college Erode	15
53	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY	7
54	Cheran college of engineering	1
55	Dote	1
56	Tagore Institute of Engineering and Technology	1
57	National Engineering college	1
58	Mahath Amma Institute of Engineering and Technology	1
59	St.peter's Institute of Higher Education and Research	31
60	MIET Engineering College	1
61	Government College of Technology, Coimbatore-13	1
62	P.K.R ARTS COLLEGE FOR WOMEN	1
63	Cheran College of Engineering	1
64	IIT INDORE	1
65	Indra Ganesan College of Engineering	1
66	Csi college of Engineering	1
67	Mailam Engineering College	2
68	Nehru College of Management	2
69	NANDHA ENGINEERING COLLEGE	2
70	PRIST DEEMED TO BE UNIVERSITY, THANJAVUR	1
71	NADAR SARASWATHI COLLEGE OF ENGG AND TECHNOLOGY	2
72	ANNAMALAI POLYTECHNIC COLLEGE	1
73	Karpagam Academy of Higher Education	1
74	Tamil Nadu Teachers Education University, Chennai.	2
75	VRS COLLEGE OF ENGINEERING AND TECHNOLOGY	1
76	Er.Perumal Manimekalai College of Engineering, Hosur	4
77	Sri Venkateswaraa College Of Technology	3
78	Loyola College, Chennai	1
79	TAGORE INSTITUTE OF ENGG AND TEC, Attur, Salem DT	1
80	P.K.R ARTS COLLEGE FOR WOMEN	1
81	Aalim Muhammed Salegh College of Engineering	3
82	AVS COLLEGE OF TECHNOLOGY	2
83	Dhanalakshmi srinivasan institute of technology	3
84	Sir Issac Newtown College of Engineering and Technology	1
85	Holy Cross Home Science College, Thoothukudi	3
86	Madurai Kamaraj University Madurai	1
87	NPR College of Engineering and Technology	1
88	Ibra college of technology Ibra, Oman	1
89	Mahendra Institute of Engineering and Technology	1
90	Andhra University College of Engineering (A)	1
91	Syed Ammal Engineering College	2
92	Vellalar college for women	1

93	Mohamed Sathak Engineering College	1
94	TAGORE INSTITUTE OF ENGG AND TECH, Attur, Salem DT	1
95	Nehru College of Management	1
96	CIT SANDWICH POLYTECHNIC COLLEGE	2
	Mahatma Gandhi Chitrakoot Gramodaya Vishvavidhyalaya Chitrakoot	1
97	India	
98	Dr. Mahalingam College of Engineering and Technology	1
99	Meenakshi Academy of Higher Education and Research	1
100	TRICHY ENGINEERING COLLEGE	1
101	VSVN POLYTECHNIC COLLEGE, VIRUDHUNAGAR	1
102	S. V. R. Engineering College	1
103	ANNAMALAI UNIVERSITY	1
104	Svr engineering college	1
105	KONERU LAKSHMAIAH UNIVERSITY	1
106	KL UNIVERSITY	1
107	SNS COLLEGE OF TECHNOLOGY	1

# <u>List of Attended Participants</u>

SN	Name
1	RAM VIGNESH B
2	M.Vinodhini
3	VIVEKNIJANTHAN L
4	JOTHI PALAVESAM .P
5	Dr.J.JEEVAMALAR
6	A V A R DURGA RAO
7	M.Vignesh
8	RAM VIGNESH B
9	Aswin M
10	S.MURUGANANTHAM
11	A V A R DURGA RAO
12	SUSHEEL S
13	VIVEKNIJANTHAN L
	KARTHIKEYAN S R
15	Mr.S.KANAGASABAI
16	C.John Selvaraj
17	Ravi Engineer
18	P.Sibbi Raj
19	KANAGASABAI S
20	Bhavesh Patel
21	Arulmozhi N
22	R.Ajithkumar
23	EMANDI MAHIPAL
24	Meeraja.N
25	JAYABALAJI S
26	Bharat Patel
27	Jinal Patel
28	S.Lakshmanan

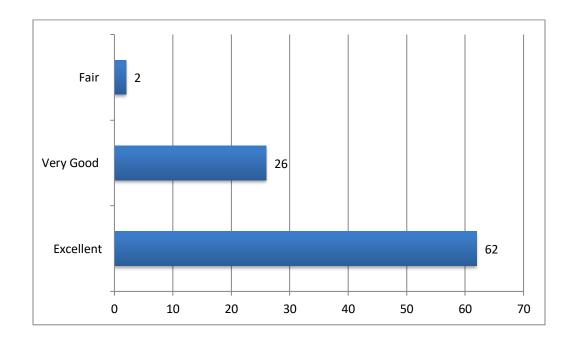
20	C. L. alvelamon an
29	S.Lakshmanan
30	A.DINESHKUMAR
31	A.DINESHKUMAR
32	KARTHIKEYAN SELVARAJ
33	VIVEKNIJANTHAN L
34	NIKITHA P
35	GEJENDHIRAN S
36	R. AME RAYAN
37	NIVEDHAA R K
38	Gopi K
39	Ranjith.R
40	G.v.siva sankaran
41	NIKITHA P
42	Saravana kumar K
43	Ranjith.R
44	GANESH V V
45	Vijayan A
46	IDHAYACHANDRAN M
47	M.kailash kumar
48	R ASHWIN
49	Raja.S
50	SUNDAR RAJ. C
51	S SENTHIL RAJA
52	KOPPOLU SREENU BABU
53	Raja.S
54	SAKTHIVEL M
55	R DHANARAJ
56	R. Baskaran
57	A PREM KUMAR
58	J PRASANA GANESH
59	Dr.V.SIVARAMAKRISHNAN
60	ARAVIND U
61	Aswiyn Ram SV
62	SIVAPRAKASH C
63	UDHAYAKUMAR K
64	VISHAL D
65	GOPALAN N
66	SIVAKUMAR . S
67	Prof.Y.M.SIDDARAMAIAH
68	Hemalkumar N Lakdawala
69	Manoj S
70	BABU M
71	VISHAL D
72	S.MURUGANANTHAM
73	SAKTHIVEL A
74	LAKSHMANA MOORTHY
75	S.AUTHILINGAM
76	Kaleeshvaran S

77	Manoj.S
78	Kaleeshvaran.S
79	SAKTHIVEL M
80	R. Vinoth Kumar
81	ARAVINTH S
82	Galanki Ravali
83	SRIBANRAJ M
84	SRIBANRAJ M
85	MUTHUKUMARAN D
86	C.N.MURUGANANDAM
87	SASIKUMAR A
88	Dr T SHANTHI
89	Dr.R.Sri Siva
90	Dr. A.Palanisamy

# Feedback questions and responses

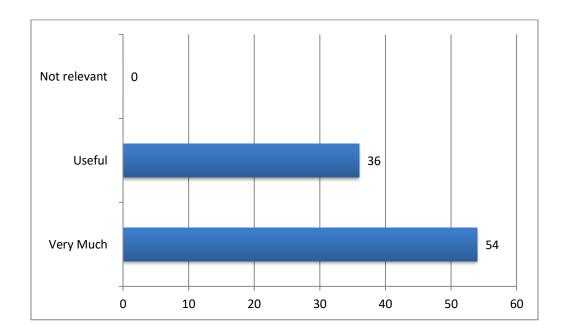
# 1. How satisfied were you with the session content?

Excellent	Very Good	Fair
62	26	2



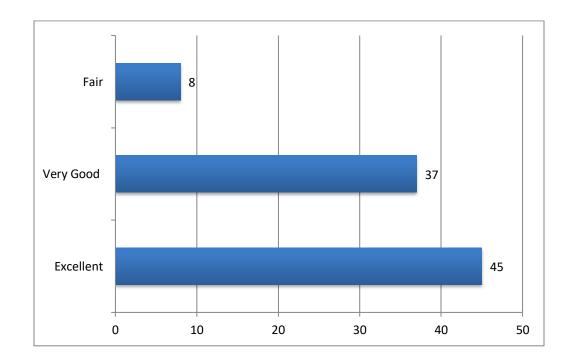
# 2. How relevant and helpful do you think it was for your job?

Very Much	Useful	Not relevant
54	36	0



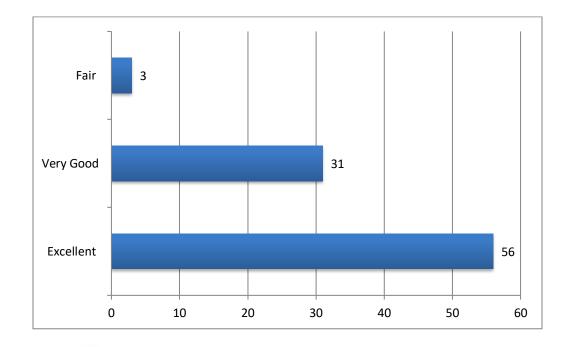
# 3. How satisfied were you with the session Video and Audio streaming?

Excellent	Very Good	Fair
45	37	8



# 4. Overall feedback for the event?

Excellent	Very Good	Fair
56	31	3



(.1. 70

Coordinator (Dr.P.P.Shantharaman)

T. Purposet

HOD/Mechanical (Dr.T.Pushparaj)

Principal

(Dr.J.Arputha Vijaya Selvi)







#### DEPARTMENT OF MECHANICAL ENGINEERING

#### Report on Industrial Visit / Even 2019-20

Name of the Event : Industrial Visit to Centre of Excellence for Training and

Research in Automation Technologies at PMIST, Vallam

**Number of Beneficiaries** : 80 (III Mechanical students)

**Date** : 07.03.2020

Outcome : The Hydraulics and Pneumatics lab of CETAT covers the

ME8694-Hydraulics and Pneumatics Professional core

subject in AU, R2017.

Photos :





Students at CETAT laboratory, PMIST, Vallam during industrial visit







# DEPARTMENT OF MECHANICAL ENGINEERING GUEST LECTURE ON LEAN MANUFACTURING

In our department, Guest lecture was conducted in the topic of Lean Manufacturing on 15.02.2020 between 2.00 p.m. and 4.30 p.m. at our Chera Hall. The resource person explained about Lean Manufacturing, Various Principles followed in Lean Manufacturing as well as the various industrial applications. Totally 131 students from second and third year Mechanical Engineering participated and benefited. More number of students interacted with resource person and clarified their doubts.

#### **Resource Persons:**

#### 1. Dr.S.Mahendran,

Asst.Prof/Head,

Department of Mechanical Engineering,

UCE-Thiruikuvalai.





The resource person explained about Lean manufacturing concepts

## **Guest Lecture Outcomes:**

- Gained the knowledge about the Lean Manufacturing.
- Learned the concept of the Lean Manufacturing tools.
- Understood the Lean methodology followed in Industries.
- The students were able to distinguish the conventional Manufacturing and Lean Manufacturing.







# DEPARTMENT OF MECHANICAL ENGINEERING Academic year -2019-20 Even Workshop Report

The Mechanical Engineering Department of Kings College of Engineering organized "Workshop on Welding Technologies" on 07.02.2020 between 02.00 p.m. and 04.30 p.m. at Chera Hall. The second and third year Mechanical students were attended this Workshop. Dr.P.P.Shantharaman, Co ordinator welcomed the gathering. In the first session, Mr.R.Shankar, Co-ordinator explained the principles of various welding technology. During second session, a practical class was conducted about the Arc, MIG and TIG welding practice in the Mechanical Workshop. The objective of the workshop is to gain the working principle of Arc, MIG and TIG welding. Totally 108 students from second and third year Mechanical Engineering participated and benefited. More number of students interacted about the welding techniques and clarified their doubts.



Dr.P.P.Shantharaman, Asso. Prof./Mech. welcomed the gathering

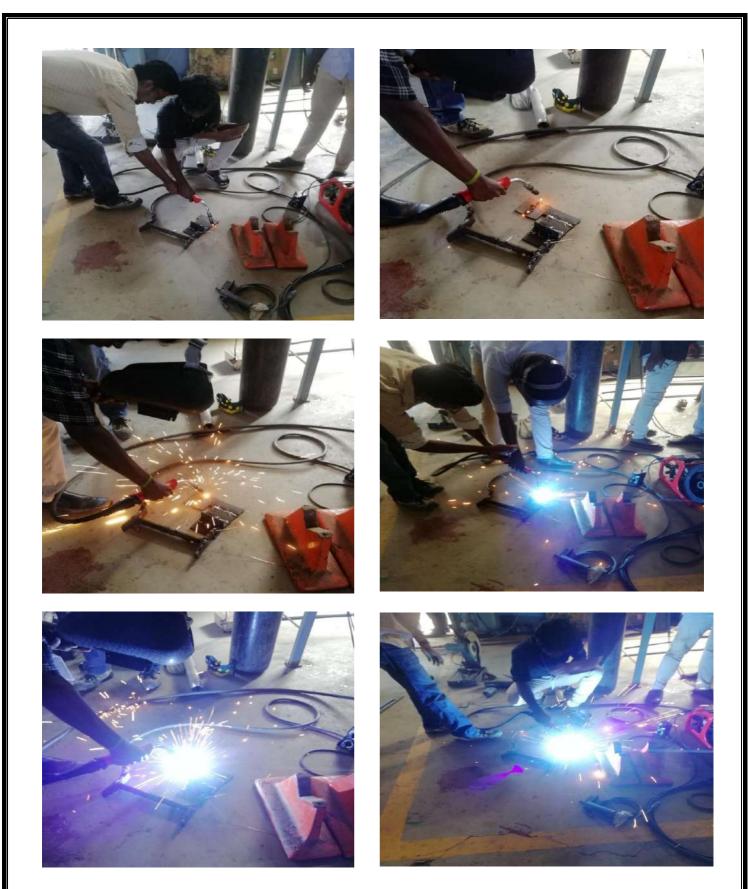


Mr.R.Shankar, Asst.Prof./Mech. explained the theoretical session of Workshop



Mr.G.Veeramani Technical Asst./ Mech. explained the safety measures in welding

:O\_\_\_\_\_



Second and Third year Students were practiced the Arc, TIG and MIG welding techniques

# **Workshop Outcomes:**

- Gained the knowledge about MIG in the Manufacturing processes.
- Learnt the concept and processes involved in welding.
- > Understood the mechanism used in Welding Technologies.
- > Students performed welding operations with appropriate process on various metals.

1.1.58

Staff Incharge

T. Purhang

**HOD** 

**Principal** 

J. Poomter







# DEPARTMENT OF MECHANICAL ENGINEERING GUEST LECTURE ON NON DESTRUCTIVE TESTING

In our department Guest lecture was conducted in the topic of Non Destructive Testing (NDT) on 29.01.2020 between 1.15 p.m. and 3.00 p.m. at our CAD Lab. The resource person Mr. S. Gowtham Raj explained about NDT Principles, types and the importance of testing methods. He explained the recent methods available in NDT and job opportunities available in this same field. Totally 66 students from third year Mechanical Engineering participated and benefited. More number of students interacted with resource person and clarified their doubts

#### **Resource Persons:**

## 1. Mr.S.Gowtham Raj,

Executive TETA Associate Trichy

## 2. Mr.S.Kumar,

NDT Trainer, TETA Associate
Trichy









The resource person explained about Various Techniques in NDT

### **Guest Lecture Outcomes:**

- Gained the knowledge about NDT in the manufacturing processes.
- Learned the concept and process of NTD using in the Industry.
- Understood the mechanism used in Advanced NDT.
- The students were able to distinguish the conventional NDT and Advanced NDT techniques.







#### **Department of Mechanical Engineering**

### Report on Project Expo - "Einstein Expo-2019"

# **Report**

The Project Expo-"Einstein Expo-2019" of Mechanical Engineering department for final year students was organized by department of Mechanical Engineering Department on 01.04.19 at CAD lab. The expo was inaugurated by Department head Dr.T.Pushparaj, and Chief guest Mr.S.Venkatesan,M.E., Prof./Mechanical, Anjalai Ammal Mahalingam Engineering College, Kovilvenni. In this Project expo, 30projects (118 students) were participated and presented their projects in given titles. Finally, based on their performance winners for the best presentation were selected and announced based on two categories namely Best Project and Innovative Project.

#### **Photos:**









# I Best Project

SI.No.	Project Title	Team members	Place
1	Development of Semi Automatic Seed Sowing Machine Using Cam Follower Mechanism to Reduce Seeding	Ramprasath R Sam Dhanraj Denny X Stephen Standly M Santhosh M B	I
2	Experimental Investigation and Mechanical Behavior of Al2024 MMC	Harisankar D Navaneethakrishnan K Rajarajan R Kabilan M	II

# II Innovative Project

SI.No.	Project Title	Team members	Place
1	Automatic Solar Powered Grass Cutting Machine	Arul selvan R Balasubramanian R Deepan S Kaviarasan M	I
2	Performance & Evaluation of Thermoelectric Refrigeration By Using Peltier Effect	Manohari M Vidhiya G Veereshwaran B Vengatesh A	II

Convener

HOD







# National Conference on Recent Advances in Mechanical Engineering – 2019

NCRAME-19

16th March 2019

# POST CONFERENCE REPORT

Organised by

Department of Mechanical Engineering Kings College of Engineering Punalkulam-613303, Pudukkottai Dt. Website: www.kingsindia.net

# PROGRAMME SCHEDULE

# National Conference on

# Recent Advances in Mechanical Engineering

Date: 16:03.2019 Venue : Pallava Hall

Timing	Programme schedule
8.45 am – 9.45 am	Registration
9.45 am – 10.35 am	Inauguration function of NCRAME -19
10.35 am – 10.50 am	Tea break
10.50 am – 11.15 am	Invited Talk
11.15 am – 1.00 pm	Technical Session - I
1.00 pm – 1.45 pm	Lunch break
1.45 pm – 3.50 pm	Technical Session - II
3.50 pm – 4.00 pm	Tea break
4.00 pm – 4.40 pm	Valedictory function

# **POST CONFERENCE REPORT OF NCRAME- 19**

The Department of Mechanical Engineering organized a one-day National Conference on Recent Advances in Mechanical Engineering – 2019 on 16<sup>th</sup> March 2019. This conference has provided a platform for researchers and academicians to share and exchange ideas on the various research topics in the fields such as Manufacturing; Energy and Thermal Engineering.

The conference had two sessions spread over entire day with expert's invited talks and interactive discussions. The total number of participants who has sent their willingness through mail to attend the conference was 60. Among them, 29 participants from various universities and institution across the country presented papers in the conference.

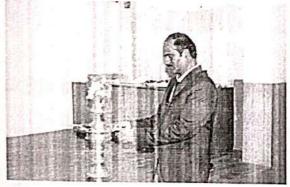
Dr.N. L. Parthasarathi, Scientific Officer E, Materials Development and Technology Division, IGCAR, Kalpakkam, inaugurated the conference, and delivered the keynote address to the academicians and researchers

On March 16<sup>th</sup> 2019, by 09:30 am., inauguration of the conference started with tamil thai vazhthu. The welcome address was given by Conference Chair Dr.T. Pushparaj, HOD/Mech.,KCE with a warm welcome and pleasant speech which has given a spark to the one day national conference.



Dr.T. Pushparaj, HOD/Mech, Welcomes the gathering.









Chief guest Dr.N. L. Parthasarathy inaugurating the conference by lighting of kuthuvillakku, beside him Dr.J.Arputha Vijaya Selvi, Principal along with them conference chair Dr.T.Pushparaj, and organizing secretary Prof.S.Giridharan.



Dr.N. L. Parthasarathy, Scientific Officer E, IGCAR receiving a memento from Dr.T.Pushparaj, HOD/Mech. KCE.



Dr.J.Arputha Vijaya Selvi, Principal, KCE., giving presidential address

The presidential address to the gathering was given by Dr.J.Arputha Vijaya Selvi, Principal, Kings College of Engineering. During her speech, she highlighted the following,

- Importance of the conferences is narrated from olden day to recent day..
- Various recent developments in Manufacturing, Energy sectors etc.,
- The words of the Principal gave so much of energy and motivated the students, faculties and the researchers to think innovatively in the field of Energy sectors.



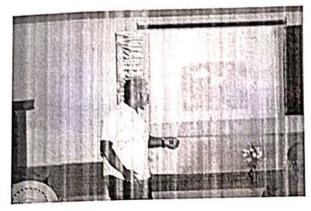
Proceedings of the conference was released by Dr.N. L. Parthasarathy, Scientific Officer E, IGCAR. alongwith them Dr.T.Pushparaj, HOD/Mech. KCE, Prof.S.Giridharan, AP/Mech. KCE.

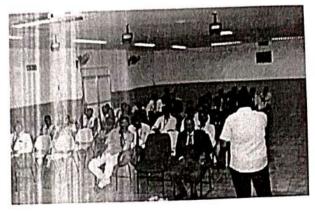
After the presidential address, our honorable chief Guest Dr.N. L. Parthasarathy released the proceedings of the National Conference on Recent Advances in Mechanical Engineering – 2019 and the first copy was received by the Dr.T.Pushparaj. This National conference has been considered as a knowledge hub for all the researchers from the various institutions across the country.

Chief guest Dr.N. L. Parthasarathy was introduced by Prof.S.Giridharan, AP/Mech. KCE. About his career track, awards and achievements received by him. And also he pointed various posts held by him in the course of his career, the present post in detail, and the role played by him in his present capacity.



Chief guest Dr.N. L. Parthasarathy giving the inaugural speech

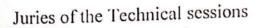


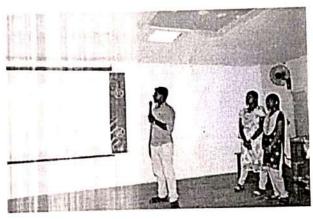


Chief guest Dr.N. L. Parthasarathy delivering the Invited talk

The chief guest, in his inaugural address to the gathering, pointed out that the new technology regarding robotics, especially that of underwater, its applications and the future trends. The power point presentation included the R&D being conducted around the world on under water robots, the results obtained and how these are being used in defence, underwater exploration and other fields.







Technical presentation by participants









# DEPARTMENT OF MECHANICAL ENGINEERING

#### **GUEST LECTURE**

Name of the Resource Persons : Mr.R.Saravanakumar, Toyota Motors

Mr.Parthiban, Engineers CADD Mr.Amuthan, Engineers CADD

Date of Lecture : 25.02.2019

Organised by : Mr.S.Rajesh Kumar, Mr. J.Prince Jerome Christopher

Asst.Prof/Mech

Mr.R.Saravanakumar,Project Manager,Toyota Motors, Mr.Parthiban, Director,Engineers cadd and Mr.Amuthan,Centre Head,Engineers cadd,Thanjavur visited our college on 25<sup>th</sup> February, 2019 on our invitation.

A power point presentation was given by Mr.R.Saravanakumar on the recent trends in industrial sector which includes automobile Industry requirements and other emerging trends. Mr.Amuthan presented a lecture about the various types of innovation softwares used in engineering field especially in mechanical engineering. The presentation was very well received by the students belonging to the III & IV year mechanical engineering. The presentation ended with a question and answer session where many students interacted with the guests for clarifications on their queries.





**Delivering lecture on trends in Automobiles** 





**Student Interaction** 







# DEPARTMENT OF MECHANICAL ENGINEERING ALUMNI INTERACTION

Name of the alumnus : Mr.M.Satish Kumar

Organization : Continental Automotives, Singapore

Date of visit : 05.02.2019

Mr.M. Satish Kumar, who belongs to 2010 batch of our college, visited our college on the 5<sup>th</sup> February, 2019 on our invitation. He is currently employed in M/S continental Automotive, Singapore in their R&D division. He has previously worked in Bosch India Ltd., Bangalore and holds a master degree in Systems Engineering & Management from National university of Singapore.

A power point presentation was given by Mr. Satish Kumar on the recent trends in automobile sector. This includes automatic transmission, driverless vehicles, fuel injection systems and other emerging trends. The presentation was very well received by the students belonging to the II & III year mechanical engineering. The presentation ended with a question and answer session where many students interacted with the guest for clarifications on their queries.



Delivering lecture on trends in Automobiles



**Interaction with faculty members** 



Audience : II and III year Mechanical Students



Question and answer session







#### **DEPARTMENT OF MECHANICAL ENGINEERING**

### INDIAN SOCEITY OF MECHANICAL ENGINEERS (ISME)

#### **REPORT**

In our Department of Mechanical Engineering, under the Indian Society of Mechanical Engineers (ISME), a Guest Lecture conducted on recent trends in Manufacturing Process by Dr.S.Siva Sankar Professor & Head, Government College of Engineering, on 28/01/2019 in our college. This resource person explained about the recent trends in Manufacturing and its applications. This Guest Lecture was useful to our mechanical engineering II year students. In this event totally 68 students participated.



Students listening to the Lecture



Lecture by Dr.S.Sivasankar to the ISME students of mechanical.

# **Guest Lecture Outcomes:**

- An introduction to Research Methodology.
- A brief knowledge about various manufacturing processes.
- An introduction to latest trends in Manufacturing processes.
- Advantages and applications of various processes.
- An introduction to lean Manufacturing.
- A wide exploration on research articles.



# COLLEGE OF ENGINEERING (NAAC Accordited Institution) (Approved by AICTE New Delhi Affiliated to Anno University: Chemical)



A National level technical symposium
MEUS 2K18
Was organized by
The Department of Mechanical Engineering
(19h SEPT, 2018)

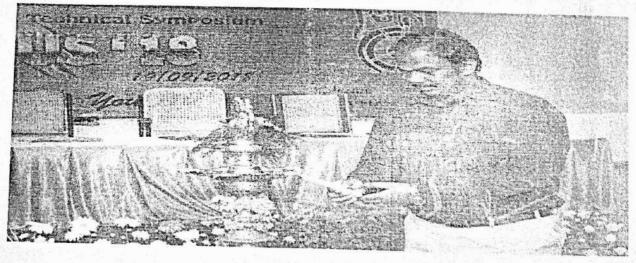
# **SYMPOSIUM REPORT**

On behalf of Management, Principal and Mechanical Engineering Association (MEA) we are glad to inform that the National Level Technical Symposium MEUS 2K18\_was conducted on 19.09.2018 for the Mechanical Engineering students. We have received around 40 papers from various Institutions in the state level, from which 24 papers were selected and registered.

## **INAGURATION**

Around 9.00 am registration was started at Chera Hall. The inaugural session of MEUS 2K18 Started with the Prayer Song and Lightening of Holy lamp at 9.30 am (19.09.18). The Student vice president Mr. R. Sivaprasath delivered welcome address and explained to the gathering about the significance of that meeting. This was followed by the student President Mr. G. ALEXRAJA introducing the chief guest. The chief guest was then honored with shawl and momentum by Dr. R.RAJENDRAN (secretary of our college) and gave the presidential address.

Er. K. SRIRAM PRAKASH. Senior engineer, Boiler production, BHEL, Trichy, was the chief guest and he delivers a special address to the gathering.



# DESIGN CALCULATION:

The picking arm which is lifting the object so there is tensile load was acting.

# STRES=LOAD/AREA

P- The object weight is known as the load.

A-area of the cross section.

# BENDING STRESS:

We now apply the flexure formula: Bending Stress = My/I

We wish to find the maximum bending stress, which occurs at the outer edge of

M = maximum bending moment = 50,000 ft-lb. = 600,000 in-lb.(from

y = distance from the neutral axis of the cross section to outer edge of beam

I = moment of inertia of cross section; for rectangle I = (1/12) bd<sup>3</sup> = 1/12 (2"

Then, Maximum Bending Stress =  $M y / I = (600,000 \text{ in-lb})*(2 \text{ in})/(10.67 \text{ in}^4)^{\frac{1}{2}}$ 









# **GUESTORIAL SPEECH**

A motivational speech of our chief guest turned every one's blood enthuse who were presented there. His tolerating speech about our department makes students to think how far their destination was. They termed warmth with his inspirational speech.



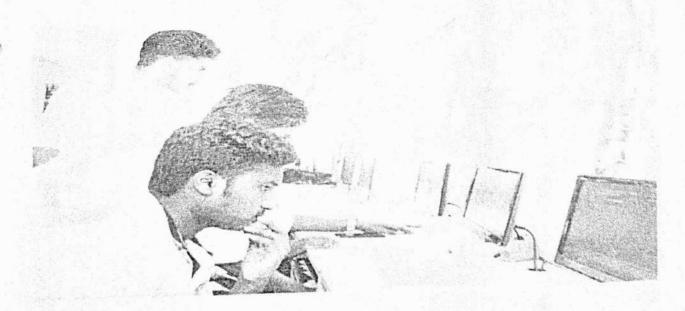
# TECHNICAL AND OTHER EVENT SESSION

The forenoon session went well with the Paper presentation and CADD contest events between 11.00 am to 1.45 p.m. A team of "Paper Evaluation Committee evaluated and finalized the first, second and third prizes. Also enthusiastic students of our department exhibited some technical models and charts. The "Technical Event Committee" organized the Model Making, Mr.Mechanic, Nut and Bolt, and Technical Quiz events between 2.30 p.m to 4.15 pm.

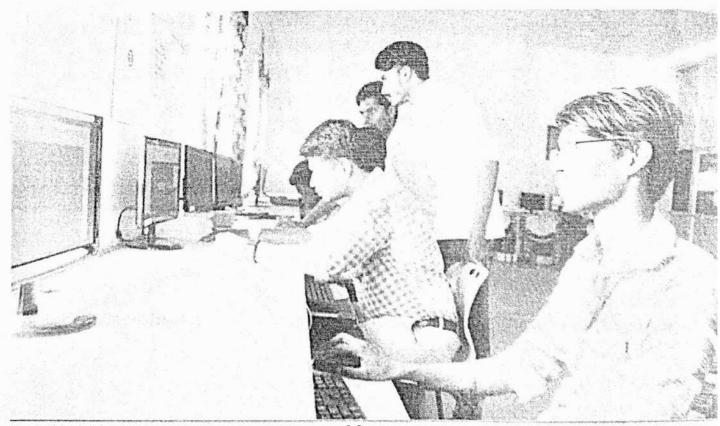
Cash prizes were awarded for the online photography event. First, second, third prizes in paper presentation were awarded with momentum and certificates. Participation certificates were given to all participants.



TECHNICAL EVENT SESSIONS







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## VALEDICTION

The National level Technical symposium MEUS 2K18\_came to an end with the valedictory function at 4.15 pm. Dr. T.PUSHPARAJ HOD/MECH, welcomed the participants for valedictory function and distributed the prizes and certificates to the winners in the technical events. Finally the Student Vice - President Mr. R.SIVAPRASATH delivered the vote of thanks and successfully concluded the symposium.



Student Co-ordinator

Staff or ordinator

Head of the Department







### DEPARTMENT OF MECHANICAL ENGG.

#### Report - One Day Workshop on Recent Advancements In Mechanical Engg.2018

**Department of Mechanical engineering** of our college organized a **One Day Workshop on Recent Advancements In Mechanical Engg.2018** for **Polytechnic Students** on 2 <sup>nd</sup> March 2018. The objective of this training program is to help the students to give guidance for their career opportunities and higher education. Eighty no. of students have participated in the program from various polytechnic colleges.

Welcome address was delivered by R.Suriyamurthy AP/Mech and Mr.T.Pushparaj HOD/Mech delivered the Inaugural address. In his inaugural address, he addressed about career opportunities for them. Also he insisted the students to continue their career by proceeding with undergraduate, post graduate and to end by completing their doctor of philosophy. While concluding, he insisted them for their higher education and importance of higher education and utilize the opportunities in our campus.

Session-1 was handled by R.ARUN Sr.Engineer BHEL Trichy. In his lecture ,he shared the latest technological advancements in Mechanical Engineering and Super critical Boilers. Also he explained the importance of Technical Education in future. Also he presented the PPTs about technological advancements and its applications. In session II Mr.V.Vinothkannan AP/Mech handled the students with Pro- e drawing software. He made no. of drawings in Pro-eand give lecture about the software and effective use of the same .The Pro-e demo and usage of them is made very impression among the students .Also it is new exposure for them.

Then in AN session Mr.H.Agilan AP/Mech delivered lecture in Alternate fuels and Pollution control .A highly impressive lecture made the students interest in his lecture. Then the students were given hands on training in CNC machines in our lab. by Mr.J.Prabakaran AP/Mech .After that, lab visit was made to the students and staff members accompanied them .In the end

Mr.N.Magesh AP/Mech delivered valedictory address. Then feed back from the strudenmts sharedin the dais and the participative certificates were distributed by the Hod/Mech Finally . Mr.B. Adichelvan delivered vote of thanks. With the national Anthem the program completed successfully with sweet memories.



R. Sury my Hy Coordinator.

HOD/Mech.

Principal







# National Conference on Recent Advances in Mechanical Engineering – 2016

NCRAME-16

29<sup>th</sup> December 2016

# Post Conference report

Organised by

Department of Mechanical Engineering
Kings College of Engineering

Punalkulam-613303, Pudukkottai Dt. Website: www.kingsindia.net

Organized by Department of Mechanical Engineering

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# **AGENDA**

Session - I	Inauguration	Venue: Chera Hall
09.45 am	Prayer song	
09.50 am	Welcome address – Dr.T.Pushparaj, HOD/Mech	
09.55 am	Lighting of Lamp	
<ul><li>10.00 am Honoring the Chief Guest by Dr.T.Pushparaj, HOD/Mech</li><li>10.05 am Presidential Address by Dr.S.Durairaj, Principal, KCE.,</li></ul>		D/Mech
		KCE.,
10.10 am	am Introduction of Chief Guest by Mr.G.Mathivanan, Asso. Prof/Mech	
10.15 am Felicitation Address by Dr.N.Jawahar, Dean R&D, TCE., Madurai		, TCE., Madurai
10.30 am	Releasing of Conference Proceedings by Principal	
10.35 am Tea Break		
Session II	Key Note Address & Paper Presentation	Venue: AV Hall
10.50 am	M Session Chair – Mr.P.P.Shantharaman Asso. Prof/Mech	
10.55 am	Key Note Address by Chief Guest	
11.15 am	Technical session - I	
1.00 pm	Lunch Break	
1.45 pm	Technical session - II	
3.50 pm	Tea Break	
Session III	Valedictory	Venue: AV Hall
4.00 pm	<ul> <li>4.00 pm Conference Report by Conference Chair – HOD/Mech</li> <li>4.10 pm Issuing of Certificate by Conference Chair - HOD/Mech</li> </ul>	
4.40		
4.10 pm	,	
4.10 pm 4.30 pm	Feed Back from Participants	
•	,	

Organized by Department of Mechanical Engineering

## **CONFERENCE REPORT OF NCRAME-16**

The Department of Mechanical Engineering organized a one-day National Conference on Recent Advances in Mechanical Engineering-2016 on 29<sup>th</sup> December 2016. This conference has provided a platform for researchers and academicians to share and exchange ideas on the various research topics in the fields such as Manufacturing, Energy and Thermal Engineering.

The Conference has two sessions spread over entire day with expert's invited talks and interactive discussions. Total number of participants who has sent their willingness through mail to attend the conference was 45. Among them 21 participants from various universities and institution across the country presented paper papers in the conference.

The experts and the resource persons were invited who have sound knowledge in the field of Manufacturing, Energy and Thermal Engineering are, Dr.N.Jawahar, Mechanical Engineering Department, Thiyagarajar College of Engineering, Madurai has addressed with their invited talk to the academicians and researchers during sessions.

On December 29<sup>th</sup> 2016, by 9.45 am, the conference started with the Tamilthai vazhthu – Inguration function. The welcome address was given by Conference Chair Dr.T.Pushparaj, HOD/Mechanical, Kings College of Engineering with a warm welcome and pleasant speech which has given a spark to the one day Nation Conference.

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Organized by Department of Mechanical Engineering

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Dr.T.Pushparaj. HOD/Mech, Welcomes the gathering



Chief guest Dr.N.Jawahar inaugurating the conference by lighting of kuthuvillakku, beside him seen are Dr.S.Durairaj, Principal, Kings College of Engineering and along with them Conference Chair Dr.T.Pushparaj. HOD/Mech, Kings College of Engineering.

Organized by Department of Mechanical Engineering

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Then as every auspicious function starts with a traditional way of LIGHT, being the source of all transitions and transformations, the conference officially inaugurated by lighting of kuthuvillakku by the Chief guest Thiru.Dr.N.Jawahar Professor / Mechanical, Thiyagarajar College of Engineering, Madurai, Dr.S.Durairaj, Principal, Kings College of Engineering and Dr.T.Pushparaj. HOD/Mech, Kings College of Engineering.

Then the HOD/Mechanical has presented a momento to Chief Guest Thiru. Dr.N.Jawahar Professor as a mark of respect in behalf of Kings College of Engineering.



Thiru.Dr.N.Jawahar Professor / Mechanical, Thiyagarajar College of Engineering, Madurai, receiving a memento from Dr.T.Pushparaj. HOD/Mech, Kings College of Engineering.



Prof.S.Durairaj, Principal, KCE, giving presidential address

The presidential address to the gathering was given by Prof.S.Durairaj, Principal, KCE During his speech, he highlighted the following,

- Importance of the conferences in narrated from olden days to recent day.
- We should have reasonable expectation of the problem.
- Discussed the various recents developments in Mechanical Engineering field.

The words of the principal gave so much of energy and motivated the students, faculties and the researchers to think innovatively in the field of energy sectors.

Organized by Department of Mechanical Engineering





Proceedings of the conference was released by Prof.N.Jawahar, along with them Dr.S.Durairaj, Principal, Kings College of Engineering, Dr.T.Pushparaj. HOD/Mech, Kings College of Engineering

Organized by Department of Mechanical Engineering

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After the presidential Address, our honorable chief guest Prof.N.Jawahar, has released the proceedings of the National Conference on Recent Advances in Mechanical Engineering – 2016 and the first copy was received by the Dr.S.Durairaj, Principal. And this National Conference has been considered as a knowledge Hub for all the researchers from the various institutions across the country.

Prof.N.Jawahar, was introduced by Prof.G.Mathivanan, Department of Mechanical Engineering about his career track and the awards and achievements received by him. And also he pointed various posts held by him in different government sectors and the present post in detail the role played by him the department of higher education and the training provided to the engineering students across the state and the off campus placement recruitment drive conducted by his department.



Introduction of Chief Guest by Mr.G.Mathivanan, Asso. Prof/Mech



Chief Guest Prof.N.Jawahar giving the inaugural speech

Invited talk was given by Prof.N.Jawahar, Mechanical Department, TCE, Madurai. In his speech, pointed out that the new technology regarding decisions science alternatively known as operation research is the discipline of applying advanced analytical methods for the analysis and evaluation of research options to make better decisions. Gave an overview of various techniques of decision science, particularly multi-criteria decision models, and their characteristics.



Prof.N.Jawahar, gives the Invited Talk in the first session of the conference

# Technical session – I: (11.15 am to 1.00 pm)

Mr.P.P.Shanthraman, Prof./Mech., KCE and Mr.H.Akilan Prof./Mech., KCE, the chairpersons of the Technical Session I and Mr.R.Suriyamurthy, Prof./Mech., KCE and Mr.N.Mahesh Prof./Mech., KCE, to judge the papers. Participants from various institutions had presented 21 research articles in both the sessions.



Technical presentation with active interaction with the Chairpersons of the session

Organized by Department of Mechanical Engineering

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## A National level technical symposium SPARCIENT 2K16 Was organized by The Department of Mechanical Engineering (17h SEB, 2016)

#### **SYMPOSIUM REPORT**

On behalf of Management, Principal and **Mechanical Engineering Association** (MEA) we are glad to inform that the National Level Technical Symposium **SPARCIENT 2K16\_**was conducted on 17..09.2016 for the Mechanical Engineering students. We received around 56 papers from various Institutions in the state level, from which 42 papers were selected and registered.

#### **INAGURATION**

Around 9.00 am registration was started at Chera Hall. The inaugural session of **SPARCIENT 2K16**. Started with Prayer Song and Lightening of Holy lamp at 9.30 am (09.02.18). The Staff Co-ordinator Mr. H.AGILAN delivered welcome address and explained to the gathering about the significance of that meeting. This was followed by the student President Mr .S.VENKATESH introducing the chief guest.

The chief guest was then honored with shawl and momentum by Dr. T.PUSHPARAJ HOD/MECH and gave the presidential address.

Dr.V.ANANDHAKRISHNAN. NIT, Trichy, , was the chief guest, he delivered a special address to the gathering.



# **GUESTORIAL SPEECH**

A motivational speech of our chief guest turned every one's blood enthuse who were presented there. His tolerating speech about our department makes students to think how far their destination was. They termed warmth with her inspirational speech.



#### **TECHNICAL AND OTHER TECHNICAL EVENT SESSION**

The forenoon session went well with the Paper presentation and CADD contest events between 11.00 am to 1.45 p.m. A team of "Paper Evaluation Committee evaluated and finalized the first, second and third prizes. Also enthusiastic students of our department exhibited some technical models and charts. The "Technical Event Committee" organized the Model Making, Mr.Mechanic, Nut and Bolt, and Technical Quiz events between 2.30 p.m to 4.15 pm.

Three cash prizes were awarded for paper presentation. First prize carried Rs.1200, Second prize Rs.900 and Third prize Rs.600 for <u>other events</u>, <u>shields were distributed for the first and second places according to their performances</u>. Participation certificates were given to all participants.

## **TECHNICAL EVENT SESSION (PAPER PRESENTATION**



#### **VALEDICTION**

The symposium **SPARCIENT 2K16** came to an end with the valedictory function at 4.15 pm. Dr. T.PUSHPARAJ HOD/MECH, welcomed the participants for valedictory function and distributed the prizes and certificates to the winners in the technical events. Finally the Student Vice - President Mr.S.Vasanth delivered the vote of thanks and successfully concluded the symposium.

**Student Co-ordinator** 

A. Smil Ruge

**Staff Co-ordinator** 

**Head of the Department** 







# DEPARTMENT OF MECHANICAL ENGINEERING INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME) REPORT

In our Department of Mechanical Engineering, under the Indian Society of Mechanical Engineers (ISME), a Guest Lecture conducted in **Heat and Mass Transfer and It's Applications** by Dr.S.Kumaragurbaran AP/TCE Madurai on 30/07/2016 in our college. This resource person explained about the available Heat Transfer methods and its technical facts. This Guest Lecture is very useful to our mechanical engineering III year students. In this event totally 104 students participated.



Lecture by Dr.S.kumaragurbaran to the III year MECH students.

ISME Coordinator

HOD/MECH

(R.SURIYAMURTHY)

R. Sury my / 28.07.16

(Dr.T.PUSHPARAJ)







oproved by AICTE, Affiliated to Anna University Accredited by NBA

# DEPARTMENT OF MECHANICAL ENGINEERING INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME) REPORT

In our Department of Mechanical Engineering, under the Indian Society of Mechanical Engineers (ISME), a Guest Lecture conducted in **Advanced IC Engines** Dr.A.Samuel Raja AP/TCE Madurai on 30/07/2016 in our college. This resource person explained about the recent technology developed in internal combustion engines. This Guest Lecture is very useful to our mechanical engineering IV year students. In this event totally 116 students were participated.



Lecture by Dr.A.Samuel Raja to the IV MECH students.

ISME Coordinator HOD/MECH

R. Suymethy | 28.07.16

(R.SURIYAMURTHY) (Dr.T.PUSHPARAJ)







# **INDEX**

# **CRITERION: 3.2.2**

# **Research and Development Section**

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2019-20	Kings Science Expo - 2020	12
	One day Seminar on Aero Engines and Air Frames	16
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	Seminar on Art of Writing a Paper	23
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	CCEEMTECHEXPO'2K17	32
2016-17	Workshop on Research Methodology & Statistical Tools for Research	34
	Workshop on Soft Computing	39







# RESEARCH AND DEVELOPMENT SECTION AND INSTITUTION'S INNOVATION CELL

#### WEBINAR REPORT

Research and Development section in association with Institution's Innovation Cell has organized a national webinar on "Patents and Trademarks" on 19th January, 2021.

Beneficiaries : Students, Research scholars and Faculty

Session : 12.30 A.M to 1.30.P.M

Venue : Online (Google meet)

Resource Person : Dr. A. Balaji Ganesh

**Dean Research** 

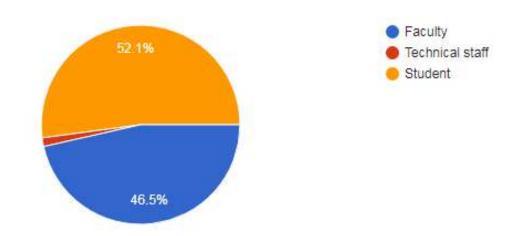
Velammal Engineering College, Chennai

The objective of this webinar is to impart in depth knowledge on Patents, trademarks and copyrights. Dr. M. Meenalochani, Assistant Professor/ Department of EEE, Kings College of Engineering welcomed the participants and introduced the Resource person. The resource person had given the lecture on Intellectual Property Rights. In this lecture, he clearly explained about patent, types of patent and the difference between patent and copyright. His lecture clearly depicted how to identify problems, idea/solution for a problem and the methodology of developing a product/service for the problem. He also explained how to patent the developed product/service. In this webinar, 200 participants registered from various Institutions all over India. Participants had their queries answered by the resource person at the end of the session. All the attended participants gave their valuable feed back after the webinar session and E-certificate has been sent to them through email. The webinar brochure, copy of certificate for participants, list of participants and feedback analyses are given below.

#### **Webinar Brochure**



#### **Details of Participants**



## **Sample Certificate**

Cert. No :FAG8B8-CE000105

Date : 23-1-2021



NAC Accredited & ISO Certified Institution
Recognized by UGC under 2(f) & 12(B)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Punalkulam, Gandarvakottati Taluk, Pudukkottai District - 613 303.



# Webinar on Patents & Trademarks Certificate of Participation

This is to certify that Mr.S. R. KARTHIKEYAN

from KINGS COLLEGE OF ENGINEERING,

has actively participated in the online webinar on Patents & Trademarks held on 19th January - 2021, organized by R&D Section & MHRD's - IIC.

Co-ordinators
Dr.M.Meenalochini & Mr.J.Niranjan Samuel

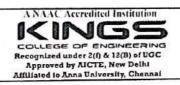
R&D Coordinator Dr.P.P.Shantharaman Principal Dr.J.Arputha Vijaya Selvi

AP/ECE JRF/ECE-R&D

This is an electronically generated certificate and does not need any signature

Made for free with Certify'em

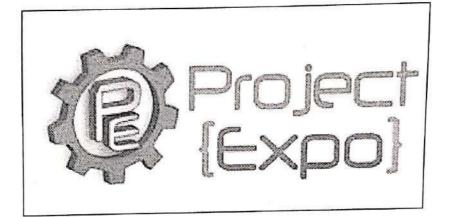






# KINGS PROJECT EXPO'21

09.04.2021



# **EXPO REPORT**

ORGANIZED BY
RESEARCH & DEVELOPMENT SECTION
KINGS COLLEGE OF ENGINEERING
PUNALKULAM - 613303
PUDUKKOTTAI DT

YouTube live stream: https://youtu.be/0LU-9BhrWE8

# **BACKGROUND & OBJECTIVE:**

Kings College of Engineering, Research & Development section in association with IIC & IEEE organized the "Kings Project Expo'21" for Engineering students on 09.04.2021. The main objective of this project expo is to provide a platform for the students to use their Engineering knowledge and bring the best inventions from their brains. It also allows students to work together in group to learn from each other. They shared their ideas and collectively galvanize those ideas to bring something innovative into implementation.

#### INAUGURAL SESSION

The Conference was inaugurated by the Chief Guest Dr.M.Kavitha,AP/Department of CSE, University College of Engineering, Rajamadam.





#### WELCOME ADDRESS

The welcome address was given by Dr.D.Sivakumar, Coordinator of Kings Science Expo'21. He welcomed the dignitaries, faculty members and the students from various educational Institutions across the state. Ms.T.Bhuvaneswari, Coordinator of Kings Science Expo'21 introduced about the chief guest. 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

#### PRESIDENTIAL ADDRESS

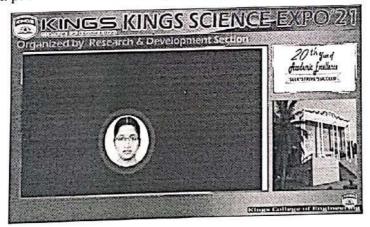
Dr.M.Kavitha,AP/Department of CSE, University College of Engineering, Rajamadam graced the occasion as chief guest and delivered the presidential address.

In her address, she lauded the Management and the academic administration of the institute for hosting Science expo. She insisted the students to make use of this platform as a rehearsal for their job. Students have to be clear with their ideas and to coordinate with the team members.



# FELICITATION ADDRESS

Dr.J.Arputha Vijaya Selvi, Principal of our college delivered the felicitation address. She appreciated all the final year students for their involvement. She insisted the students to show their technical knowledge in software and hardware tools, presentation skills, creativity, scope for further enhancement and promotion of interdisciplinary projects.



After the inaugural session project expo were conducted individually by all departments.

# EXPO DETAILS

71 batches participated in the Project expo. Students presented about their project through Google Meet. Each batch was given 10 - 15 minutes duration to explain their project. A Jury panel comprising of two senior faculty members evaluated the projects and gave feedback & valuable comments to the students. Based on the presentation, PPT content and outcome, marks were awarded by the Jury panel and 1 project was selected for rewards from each department.

#### PARTICIPANT DETAILS

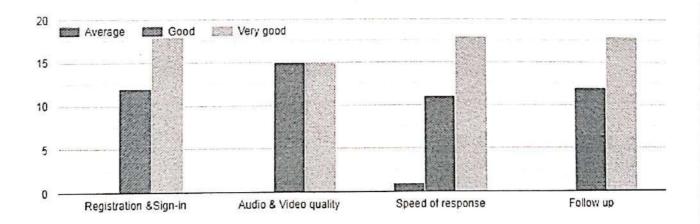
S.NO	DEPT	INTERNAL BATCHES	EXTERNAL BATCHES	TOTAL	WINNER
1	CIVIL	10	8	18	EXT(ARJCET)
2	CSE	10		10	INTERNAL
3	ECE	09	09	18	EXT(CKCET)
4	EEE	04	02	06	EXT(AAMEC)
5	MECH	17	02	19	INTERNAL
T	OTAL	50	21	71	

#### **OUTCOME:**

Final year students from various department and PG students were eagerly participated in the Project Expo'2021. Students gained knowledge about online presentation and got valuable feedback from the faculty members which will be very much useful for their viva voice examinations.

#### **FEEDBACK FROM THE PARTICIPANTS:**

How did you find the Expo



# Winners of the Kings Project Expo'21

Track	Title of the Project	Name of the Participants
Civil	Experimental Investigation of	C.Abirami, J.Bairavi, A.Sulomiya,
1	Self Cleaning Concrete by using Calcium	A.R.J. College of Engineering
1	Carbonate as Photocatalyst	And Technology, Mannargudí
CSE	Wireless IoT Based Solution for	Ms.Supritha C, Ms.Deepa N,
	Women Safety"	Ms.Shiyamala R, Ms.Shalini P
		Kings College of Engineering
ECE	Automated crop protection system	Ms.Saranraj K, Ms. Siva G,
552	using different sounds	Ms.Reno S, Mr.Vishwa N
		CK College of Engineering &
		Technology, Cuddalore
EEE	Maximum Power	Ms.Akila S, Ms.Dhanalakshmi R
	Point Tracking Algorithms For	Ms.Gobikha M, Ms.Latha M
	Photovoltaic Systems	Anjalai Ammal Mahalingam
	The state of the s	Engineering College,Kovilvenni
месн	Synthesis of Magnesium Metal Matrix	J. Augustine Albert, N. Kaviyarasan
	Composites using Powder Metallurgy	S. Krishna, R. Mohammed Yasin
	•	Sharif
		Kings College of Engineering

Ε	E	G	Н	1	
How did you find th	e Exp How did you find th	e Exp How did you find th	e Exp How did you find th	ne Exp Are you interested in	part
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Good	Very good	Very good	Yes	
Good	Good	Good	Good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Good	Good	Good	Good	Yes	
Very good	Very good	Very good	Very good	Yes	
Good	Good	Good	Good	Yes	
Good	Good	Good	Good	Yes	
Good	Very good	Very good	Very good	Yes	
Very good	Very good	Good	Good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Very good	Very good	Very good	Very good	Yes	
Good	Good	Good	Good	Yes	
Very good	Very good	Very good	Very good	Yes	
Good	Good	Good	Good	Yes	

COORDINATOR

(T.BHUVANEIMARI)

CONVENOR

J. 18- 22/4/2021

PRINCIPAL







## R & D Section

#### Seminar on "Soft Skills"

A Seminar on "Soft Skills" was organized on 24<sup>th</sup> January, 2020. Mr. J. Rajaparthiban, Assistant Professor/Mech and DRC Member welcomed the gathering. Mr. PP. Shantharaman, Associate Professor/Mech and DRC Convenor presided over the function. Mr. T. Pasupathi, AP/ECE, introduced the resource person to the gathering.







Mr. R. Ramachandran, Soft Skill Trainer, PWD (Retd), Govt. of Tamil Nadu was the resource persons. In his lecture, he briefed the students on the techniques and ways to improve their soft skills.

#### Details of Students Participated:

ECE	- 20	ı
LCL	- 40	

CSE	- 23
USE	- /.1

EEE - 08

Civil -15

I year - 36

Total - 148

J. Moruti

Principal









NAAC Accredited Institution Recognized under 2(f) & 12(B) act of UGC Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



Organized by Kings - Research & Development Section 05th June, 2020



## CALL FOR PROJECTS

web:www.kingsindia.net

#### CIVIL

Fiber Reinforced Concrete Load Deformation Behaviour Flood Forecasting GIS & Remote Sensing Applns. Ozonation for Colour Removal Riverbank Filtration Earthquake Geotechnical Engg., Ground Improvement Safety, Accident Analysis Intelligent Transport Systems

#### CSE / IT

Natural Computation Computational Game Theory Continuous & Real-timeComputation Distributed Algorithms Design & Analysis of Algorithm Inspiration of Biological Computing Nature Inspired Computing Model Theory for Computation Information & Commn. Complexity Graph Algorithms

Modeling and Simulation Antennas & Microwave Engg., ASICs / SOC / NOC **Biomedical Engineering** Embedded System / VLSI Design Image / Signal Processing MEMS and Piezo System Integration **Optimization Techniques** Terrestrial & Space Optical Networks Wireless /FSO

#### EEE

Renewable Energy -Green Energy Bio-medical Instrumentation Power Electronics Modern Power Systems Smart Grids VLSI in Power Electronics/Systems Embedded Systems Electrical Machines and Drives Control Systems & Instrum.

#### MECH

Renewable Energy Technology Production & Energy Management Robotics & Industrial Automation CAD/CAM Materials Manufacturing Safety Engineering Nano Composites & Characterization Design & Analysis

Submission of Abstract Acceptance Notification

: 02.06.2020 Registration (External) : Rs. 100/team : 03.06,2020 Internal (KCE) : No Fees

Last Date for Registration : 04.06.2020 Attractive

Dr. R. Rajendran - Mr.T.R.S. Muthukumaar - Dr. J. Arputha Vijaya Selvi - Dr. S. Sivakumar

R&D Convenor

Dr. P.P. Shantharaman Dr. M. Meenalochani Mr. T. Pasupathi Asst. Prof./ECE

## Organizing Committee

Mr. J. Rajaparthiban, Asst. Prof./MEL Dr. S. Udbayakumar, Asst. Prof./S&H







#### **KINGS SCIENCE EXPO - 2020**

## Report

Kings Science Expo-2020, an online Project Exposition is planned on 05.06.2020 with an exceptional idea to showcase the research talents, innovativeness, and creativity of all final year Engineering students. The main aim for conducting such a program is to enhance the knowledge of students and motivate them to compete in the global competitive engineering field. The Expo acted as a forum to bring together students of various Engineering colleges to discuss innovative ideas and diverse topics on next generation technologies. Students are encouraged to develop prototype projects on recent societal issues with better efficiency and low-cost.

#### **Objectives of the Expo:**

- To provide a forum for sharing new design and alternative technologies.
- To promote affable interactive environment leading to exchange of new research ideas.

#### **Topics of interest:**

- (i) Renewable Energy-Green Energy
- (ii) Bio-medical Instrumentation
- (iii) Power Electronics
- (iv) Power Systems
- (v) Modern Power Systems
- (vi) Smart Grids
- (vii) VLSI in Power Electronics/Systems
- (viii) Embedded Systems
- (ix) Electrical Machines and Drives
- (x) Control Systems and Instrumentation

The Expo for Electrical and Electronics Engineering is scheduled at 10.30 A.M through online mode using Cisco Webex platform. Totally five batches registered for the Expo out of which one is

external and the remaining four batches are internal. Each batch is provided 15 minutes for their project demonstration.

The details of participants are as follows:

Batch ID	Participants	College	Title of the Projects
1.	M.Jai Sai Ram J. Mohamed Kalifa T. Veeramani	Kings College of Engineering	Automatic Fish Feeder Using An Intelligent Feeding Controller
2.	A.Praveen kumar S.Parthiban P.Aravindan	Kings College of Engineering	Implementation of battery monitoring system using IoT for electric vehicle applications
3.	R.Pavithra M.Rasika R.SakthiSridevi	Kings College of Engineering	Prediction of Fault and Protection of Single Phase motor
4.	T.Mutharasan A.Pavithran R.Raguraman	Kings College of Engineering	Implementation of GSM based Control and Monitoring of Substation
5.	S.Vimalraj V.Sathish S.Arul selvan M.Kabilan	Anjalai Ammal Mahalingam Engineering college	A Novel approach for EFOP: Analysis and Control of Electrolytic-less LED driver

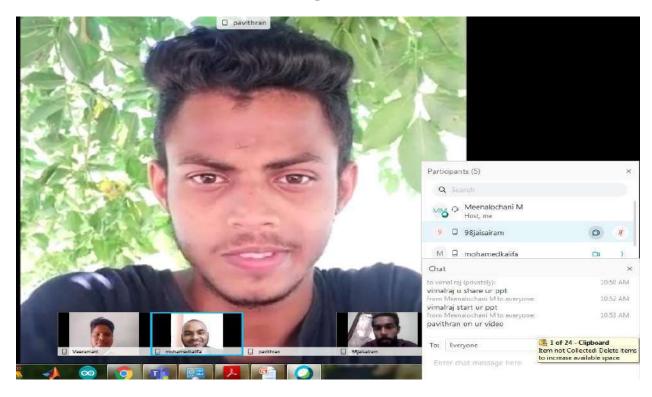
The participants are judged based on the following criteria:

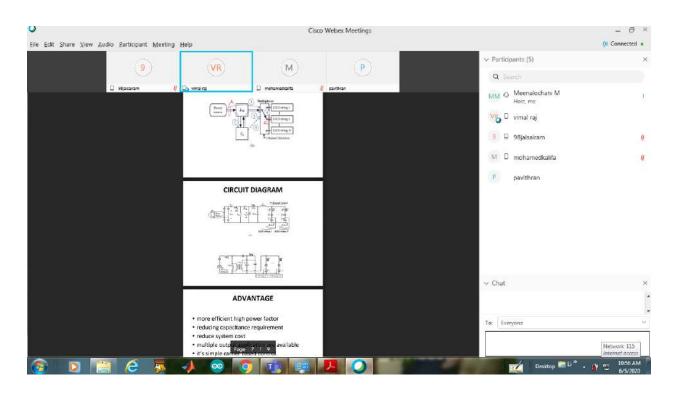
- Design (Compactness and the efficiency of work done)/Model of the project
- Innovation/Novelty
- Relevance with practical need
- Presentation skills
- Clarification of queries

#### **Outcomes of the Project Expo**

- Develop professionals having good skills, self-learning ability and confidence to support and contribute to the growth of relevant industries.
- This provides opportunity for the students to demonstrate their learning experience.

# **Snapshots**





One day National Seminar on

Aero Engines & Air Frames – 2018

"NSAEAF-18"

28th September 2018



Organized by Research & Development Section

#### KINGS COLLEGE OF ENGINEERING

NAAC Accredited Institution
(Approved by AICTE, New Delhi & Affiliated to Anna
University, Chennai)
Punalkulam -613303

Website: www.kingsindia.net

# **ORGANIZING COMMITTEE:**

#### **CHIEF PATRONS**

Dr.R.Rajendran, Secretary Mr.T.R.S.Muthukumaar, Chief Executive Officer.

#### PATRON

Dr.J.Arputha Vijaya Selvi, Principal. CO-PATRON

Dr. S.Sivakumar, Vice Principal.

#### ORGANIZING CHAIR

Prof. P.P.Shantharaman, AP/Mech.,

#### **ORGANIZING COMMITTEE:**

Prof.T.Pasupathi, AP/ECE
Prof.R.Ranitha, AP/CSE
Prof.K.Arun, AP/CIVIL
Prof.M.Mayapandi, AP/EEE
Prof.J.Rajaparthiban, AP/Mech,
Dr.A.L.Kavitha, AP/Chemistry.

# Please mail your registration form to;

The Organizing Chair, Seminar on Aero Engines & Air Frames, R&D Section, Kings College of Engineering, Punalkulam-613303

## For further information contact:

Mr.P.P.Shantharaman

- 9944876644

Mr.T.Pasupathi

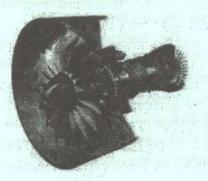
- 9894104645

#### SEMINAR CONTENT:

The seminar will be conducted in two sessions namely Aero Engines & Air Frames. The resource persons are Defence personnel from Indian Air Force, 3 TN Air Sqn (Tech), NCC, Trichy.

#### WHO CAN PARTICIPATE:

- UG/PG students
- Academicians
- Research scholars



#### REGISTRATION FEE:

UG/PG students : Rs.200 Academicians : Rs.250 Research scholars : Rs.300

Registration fee includes workshop kit & refreshments

#### VENUE:

The college is located 15km from Thanjavur Railway station and 10 km from Thanjavur New Bus Stand. (Between Thanjavur and Pudukkottai Highway)

#### ABOUT THE INSTITUTION

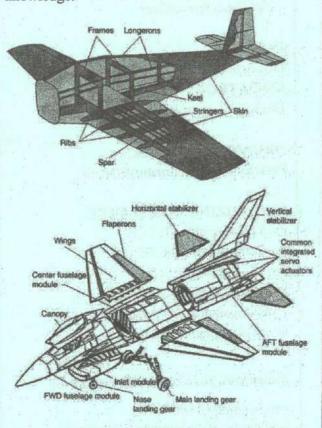
Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and underprivileged students of this region. KCE was established during 2001 and run by Raj Educational Trust (RET). KCE is approved by All India Council of Technical Education (AICTE), New Delhi and is affiliated to the Anna University, Chennai. KCE has acquired ISO certification by TUV, Rheinland, Germany and Accredited by NAAC. Five U.G. (B.E.,) and four P.G. (M.E.,) programmes are being offered.

The institution provides all basic and advanced amenities to the students and the faculty members as well. Utmost importance is given for quality education through modern teaching methodologies. Most modern and sophisticated laboratories, well qualified and experienced faculty members are the assets of the institution.

#### **OUR DEPARTMENT**

The department of Electronics & Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized centers for collaborative research by Anna University, Chennai. A significant number of projects funded by various government and non government funding sectors namely DRDO, MCIT, AICTE-New Delhi, TNSCST-Chennai, Analog Devices-USA and Texas Instruments-USA are successfully carried out. Faculty members are

encouraged to participate in the faculty development programs, Workshops and Seminars organized by other institutions in their research area as a step towards strengthening their domain knowledge.



## SEMINAR OBJECTIVE

The main objective of this seminar is to update the recent trends in Aero Engines and Air Frames for UG/PG students, faculty members and research scholars. The recent trends include the various types of Aero Engines & Air Frames used in Defence and their merits and demerits.

#### REGISTRATION FORMAT:

Participants are requested to provide the following details in the given format and send it by post or by email to: randd@kingsindia.net

# One day National Seminar on "Aero Engines & Air Frames"

#### **Registration Form**

Full Name	· <del></del>
Qualification	:
Organization	
Address	
Phone (Off)	
Phone (Res)	
Email	STATE OF EATHER PROPERTY
Fee Details	

Signature of the Applicant

Signature of the Sponsoring Authority with seal







#### R & D Section and IEEE STB

## Seminar on "Aero Engines and Air Frames"

A Seminar on "Aero Engines and Air Frames" was organized on 28<sup>th</sup> September, 2019. Mr. PP Santharaman, Associate Professor/Mechanical and DRC convener welcomed the gathering. Dr. S. Sivakumar, Vice Principal presided over the function and delivered presidential address. Mr. T. Pasupathi, AP/ECE, introduced the resource person to the gathering.

Sergeant **B. Rajesh**, Indian Air Force, 3TN Air Sqn (Tech). National Cadet Corps, Tiruchirappalli was the resource person. In his lecture, he briefed on the types of various engines and its applications in aircrafts. Also he shared his experience in assembling, testing of aircrafts and challenges faced during the work.



Traditional Welcoming of Guests



Welcome Address by Mr. PP Santharaman



Mr. T. Pasupathi, introducing the resource person to the gathering



Dignitaries on the dais



Presidential Address by Dr. S. Sivakumar, VP, KCE



Dr. S. Sivakumar, honouring the guest with shawl



Dr. S. Sivakumar, honouring the guest with momento





Sergeant B. Rajesh during the lecture



A view of the participants

Participants shared their experiences during seminar as feedback. Sergeant B. Rajesh, issued certificates to the participants.



One of the participant sharing the feedback



Mr. K. Arun, AP - DRC/Civil delivering vote of thanks



Distribution of Certificates



Organizing committee - AEAF'18

Mr. K. Arun, AP & DRC – Civil delivered vote of thanks. 104 participants from other institutions and 74 internal participants participated and got benefitted. The programme was concluded with national anthem.







#### R & D Section

#### Seminar on "Industrial Automation"

A Seminar on "Industrial Automation" was organized on 02<sup>nd</sup> January, 2019. Mr. J. Rajaparthiban, Assistant Professor/Mech and DRC Member welcomed the gathering. Mr. PP. Shantharaman, Associate Professor/Mech and DRC Convenor presided over the function and honoured the chief guest. Mr. K. Arun, AP/Civil, introduced the resource person to the gathering.

Mr. I. Karthic Subramaniyan, Assistant Professor, Department of Aerospace Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur, and Mr. R. Rakesh, Assistant Professor, Department of Electronics and Communication Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur were the resource persons. In their lecture, they briefed the various kinds of automation technologies including hydraulics, pneumatics, PLC and sensors in the forenoon session.



Welcome Address by Mr. J. Rajaparthiban, AP/Mech



Mr. K. Arun, AP/Civil introducing the resource person to the gathering



Mr. P P. Shantharaman, Associate Professor and DRC Convenor honouring the guest with shawl and Momento



Mr. T. Pasupathi, AP/ECE honouring the guest with shawl and Momento



Mr. I. Karthic Subramaniyan during the lecture





Mr. R. Rakesh during the lecture



A view of the participants

During the afternoon session, students visited the Centre of excellence for Training and Research in Automation Technologies (CETAT) at Periyar Maniammai Institute of Science and Technology, Thanjavur and learned the real time automation process with necessary tools.

### Number of Students Participated:

Mechanical Engineering - 63

ECE - 32

CSE - 25

EEE - 05

**Total** - 125





During demonstration at CETAT, PMIST, Thanjavur







### **Report - Special Lecture**

R&D section and ISTE Staff Chapter (TN 205) organized a special lecture "Dos & Don'ts in drafting Proposals" on 16.03.2019. Dr. S. Krishna Kumar, Senior Technical Officer, DRDO, Avadi, Chennai, was resource person. In his lecture, he insisted the staff members to prepare proposals according to the guidelines of the funding agency. In addition, he briefed on the smart technologies and innovations that are deployed for the surveillance of our nation. While concluding, he insisted the staff to advise the students to contribute their technical knowledge in an effective way for the betterment of our Nation.



Dr. S. Krishna Kumar delievering lecture.

Prepared by



#### Continue:

#### The seminar focusion on:

- · Definition of Research
- · Research thorse sounds
- · Citation writing practical
- · Experiments and Analysis
- · Resourch article writing
- Language iones.
- · Plagrarisos
- · Presentation

#### Resource Persons:

Foculties from reputed insutations like Nills and Faculty of Kings College of Expineering.

#### Registration feet

Spot registration is permitted. Scarned copy of the registration form must be sout through e-mail on/or before 28.81,2018.

IEEE Members Non-IEEE Member

Rx 100 Rs.250

The registration fee includes course material, lanch and netrodeness

#### Transport:

Porticipants can avail the transport facilities of the college.

#### Chief Parroom

De R. Rajendran Secretary

McT.R.S.Methokumaar, voc. Chief Expostive Officer

Dr. J. Asputha Vijaya Selvi. Principal.

#### Co.Patron

Dr.S.Sivakumar Vice Principal

#### Coordinature

Mr. T. Passenathe APPECE - RAD

Mr. J. Niranjan Samuel RERAD



#### Please most your registration from to:

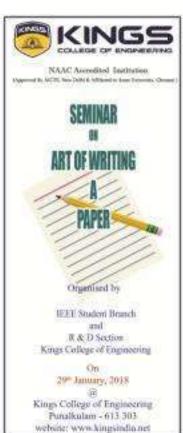
The Coordinator,

Somerur on Art of Writing a Paper, R & D Section, Kings College of Engg. Panalkolum- 613103.

Phone: 84362 - 382474

#### For faither information contact /

Mr. T. Pangushi 98941 04645 Mr. J. Niranjan Samuel - 99947 19168



#### About our Institution:

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 of Technical Education, New Delhi (AICTE) and in affiliated to Anna University. Chemias. The institution was established in the year 2001 on a sprawling campus of around 60 scres on the 'Bustievar-Padukkottai Highway and run by Raj Educational Trust (RET). The institution offers six LLG and four P.G programmes and centified with ISO 9001:2008. The state of the art teaching methodologies are used to inspert high quality education to the students including e-laiming.

#### About R. & D Section:

Department of Electronics & Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative respects by Anna University, Chemia. A significars number of projects funded by various povernment and non-government funding sectors nonely

DRDO.

MCCC.

AICTE. New Dolls.

TNSCST, Chermai. Analog Devices, USA &

Texas Instruments, USA are successfully carried dist.

Faculty members are encouraged to participate in the faculty development programs, workshops and seminars organized by other institutions in their rewarch area as a step towards strengthening their domain knowledge.

#### About the seminar;

Writing a scientific research paper is a prorequiste for tendentaking research. Substantial research effort is required to draft a scientific research paper by researchers. However scholars do not know how to draft a puper with the experimental results, auguired by the poor reviewed journals leading to rejection. Writing a research paper is an knowledge based skill.

This seminar offers a platform for the scholars to corich their art in writing research papers. This workshop helps to emphasize the value of research and enables them to have an opportunity to publish their research findings in journals and understand the best practices of publishing Journal papers.

#### Target Audience:

The seminar is open to Faculty Members. Students, Research Scholars and persons working in R&D Department and Industries.

Kings College of Engineering Pennikulare - 613 305 Seminar "Art of Writing a Paper" Registration Form Pieses fill this from and send it to so by small renddickingsindia.net 1. Name (in block letters): 2. Qualification. 3. Designation 4. Institution / Organization 5. Address for Communication : v. Phone No. / Mobile T. E-trial Signature of the applicant

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#### R & D Section and IEEE STB

### Seminar on "Art of Writing a Paper"

A Seminar on "Art of Writing a Paper" was organized on 29<sup>th</sup> January, 2018. Mr. T. Pasupathi, AP/ECE, welcomed and introduced the resource person to the gathering. Dr. J. Arputha Vijaya Selvi, Principal and IEEE SBC presided over the function and delivered presidential address. In her presidential address, she briefed the importance of research for students of engineering and technology. Also, she insisted the participants to undertake research and publish their findings in conferences and reputed journals and stressed that the research paper should reveal the uniqueness of the work carried out and clearly describe the strategies adopted in the work.

Dr. S. Bharathi Raja, Principal, Indra Ganesan College of Engineering, Tiruchirappalli, delivered inaugural address. In his address, he stressed on the importance of doing research. During the session I, he delivered talk on "Research to Reward". In his lecture, he briefed on the methods of research: Scientific method, Engineering method, Empirical method and Analytical method. Also he explained the steps involved in research: Literature survey, open problem, need for present research, experimentation, analysis, validation and results & discussion.



Dignitaries on the dais



Dr. S. Bharathi Raja delivering inaugural address

In addition, he advised the students to refer 'www.issn.org' which reveals the format of universally accepted research papers. Also, he stressed the importance of literature survey and points to be cited as: what author did, what methodology has been followed and results of the research work. Finally, he shared how to make an attractive power point presentation and intellectual property rights.



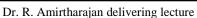


A view of the participants

One of the participant sharing the feedback

Dr. R. Amirtharajan, Associate Professor/SEEE, SASTRA University, Thanjavur delivered talk on "How to make an effective oral presentation without Plagiarism" during session-II. In his lecture, he briefed about making an effective presentation with case study on "Image steganography". During his lecture he demonstrated freeware plagiarism/grammar checking tools.







Dr. R. Amirtharajan issuing certificates to the participants

Dr. S. Sivakumar, Vice Principal presided over the valedictory function. Dr. R. Amirtharajan, issued certificates to the participants. Ms. Jaishree, student III ECE delivered vote of thanks. The programme was concluded with national anthem.

Coordinators

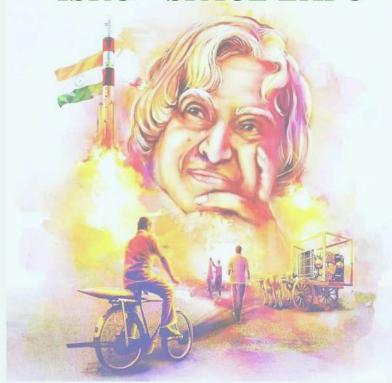
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### Proudly presents

### ISRO - SPACE EXPO



Shri. S. Pandian
Director
ISRO Propulsion Complex
Mahendragiri

has kindly consented to inaugurate the Expo

### All are invited

Venue: Kings College Campus, Chera Hall on 23rd March, 2018

Management, Principal, Staff & Students

Page 685 of 747







#### ISRO - SPACE EXPO

Kings College of Engineering, Thanjavur organized Space Expo in association with ISRO – Propulsion Complex (IPRC), Mahendragiri on  $23^{\rm rd}$  March, 2018. This event has been organized to cherish the achievements of ISRO in space science and to make awareness among the school and college students regarding the achievements of India in space technologies. The main focus of the SPACE EXPO organized by KCE in association with IPRC is to exhibit the latest technological advancement, related systems and technical services in the area of space science and engineering. Students have been made to know the opportunities for pursuing studies and career at ISRO.

Dr.J.Arputha Vijaya Selvi, Principal, welcomed the gathering. Dr.R.Rajendran, Secretary, presided over the function and delivered presidential address. In his presidential address, he briefed on the advancements made by ISRO on satellite development. Also he noted that Indian scientists are talented to develop low cost launch vehicles compared to NASA.

Shri. S.Pandian, Director, IPRC, Mahendragiri inaugurated the exhibition and delivered the keynote address. In his keynote address, he briefed on the future plans of ISRO in space technology. ISRO is in the process of developing satellites that helps the fishermen to navigate and detect cyclones locations. Finally, while concluding he stated ISRO has started working on sending human to space.

Shri.T.R.S.Muthukumaar, Chief Executive Officer, Dr.S.Sivakumar, Vice Principal, Shri.R.Annamalai, PRO, Heads & students of various departments of the college were present. Dr.V.Sureshkumar, Head – S&H delivered vote of thanks. More than 4,000 Students from various schools and colleges in and around Thanjavur and Pudukkottai districts visited the exhibition and got benefitted.

### **GLIMPSES OF ISRO SPACE EXPO**



Shri. S. Pandian, Director, IPRC, Mahendragiri is being received by Dr. R. Rajendran, Secretary, KCE



Shri.S. Pandian receives honour by NCC



Shri. S. Pandian led by NCC to the expo venue



Shri. S. Pandian inaugurates the expo. Secretary, CEO, Principal, Vice Principal and PRO are seen in picture



Shri. S. Pandian viewing the expo along the dignitaries



Shri. S. Pandian explains the happenings at IPRC to the dignitaries



Shri. S. Pandian interacting with faculties



School students viewing the expo



School students viewing the expo



School students viewing the expo



Dignitaries on the dais



A view of the participants at the seminar hall



Shri. S. Pandian inaugurating the expo



Dr. J. Arputha Vijaya Selvi, Principal delivering welcome address



Dr. S. Sivakumar introduces Shri. S. Pandian to the august gathering



Dr. R. Rajendran honours Shri. S. Pandian



Shri.T.R.S Muthukumaar,CEO, KCE honours Shri. S. Pandian



Dr. R. Rajendran, delivering presidential address





Shri.S. Pandian, delivering keynote address

Dr. V. Suresh Kumar, HOD/S&H and convenorspace expo delivering vote of thanks



Organizing Committee with the Director - IRPC









#### R & D Section

#### **CCEEM2K'17 TECH EXPO**

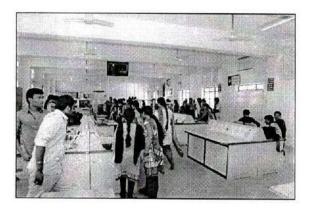
CCEEM2K'17 Tech Expo was jointly organized by Research & Development Section and IEEE Student Branch (STB16621) on 31<sup>st</sup> March, 2017. It was formally inaugurated by Dr. J. Arputha Vijaya Selvi, Dean (R&D).





A view of the projects displayed at the Project EXPO





Experts reviewing the projects displayed





Experts reviewing the projects displayed

Students of various streams of engineering from institutions all over the state came out with working models and exhibited them. A team of experts reviewed the projects based on Innovation/ Novelty, Working model/ Simulation result and Relevance to the field / social needs.

civil won by Kings College of Engineering for the project titled 'Behaviour of Expanded Polystyrene Brick', Best Domain Award – CSE won by Mepco Schlenk Engineering College, Sivakasi for the project titled 'Efficient Scientific Workflow Scheduling in Multitenant Cloud Environment', Best Domain Award – ECE won by P.R. Engineering College, Thanjavur, for the project titled 'Base Transceiver Station with Auto Power Generation using Renewable Energy Sources', Best Domain Award – EEE won by Kings College of Engineering for the project titled 'Homemade Gyromill Power Generation (HGPG)', Best Domain Award – MECH won by Kings College of Engineering for the project titled 'Extraction of Hydrogen from Water from Carbon Graphite Method and used as a Fuel',. The First prize was won by the team from civil engineering, Kings College of Engineering for the project titled 'Experimental Investigation of Influence of Marble Powder on Concrete as Partial Replacement of Cement' and Second prize was won by the team from Mepco Schlenk Engineering College, Sivakasi for the project titled 'Efficient Scientific Workflow Scheduling in Multitenant Cloud Environment'.



Team receiving First Prize from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – Civil from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – ECE from Dr. J. Arputha Vijaya Selvi



Team receiving Second Prize from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – EEE from Dr. J. Arputha Vijaya Selvi



Team receiving Best Domain Award – Mechanical from Dr. J. Arputha Vijaya Selvi

Mr. T. Pasupathi, AP/ECE proposed Vote of Thanks. .

## Contents:

- Problem Identification
- Planning the prerequisites
- Methodology for research
- Concepts of Validation
- · Analysis of results and concluding remarks
- Overview of statistical analysis tools

# Resource Persons:

VIT Business School, Assistant Professor, Dr. A. Vasumathi, Vellore. Faculty of Kings College of Engineering.

# Registration fees:

of the registration form must be sent through Spot registration is permitted. Scanned copy e-mail on/or before 20.02.2017.

Non IEEE Member IEEE Members

Rs.200 Rs.300 The registration fee includes course material, lunch and refreshment.

## Transport:

Participants can avail the transport facilities of the college.

# Chief Patrons:

Mr.T.R.S.Muthukumaar. MBA. Chief Executive Officer

### Patron:

Dr.S. Durairaj, B.E., M.E., Ph.D., PDF. Principal

## Co-Patron:

Dr.S.Sivakumar, B.E., M.Tech., Ph.D., Vice Principal

## Convenor:

Dr. J. Arputha Vijaya Selvi, B.E., M.E., Ph.D., Dean (R & D)

# Coordinator:

Mr. T. Pasupathi, M.E., (Ph.D).. AP/ECE - R&D

Mr. A. Herald, M.E., (Ph.D)..



## Please mail your registration form to: Workshop on Research Methodology & The Coordinator,

R & D Section, Kings College of Engg. Statistical Tools for Research, Punalkulam- 613303.

Mobile: 04362 - 282474

- 98941 04645 - 94868 02587 For further information contact : Mr. T. Pasupathi Mr. A. Herald



Approved By AICTE, New Delhi & Affiliated to Anna University, Chennai NAAC Accredited Institution

Research Methodology Statistical Tools Workshop on

Research

PRESEARCH

Organised by

Kings College of Engineering **EEE Student Branch** R & D Section

25th February - 2017

Kings College of Engineering website: www.kingsindia.net Punalkulam - 613 303

# About our Institution:

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 of 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 certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

# About R & D Section:

Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative cant number of projects funded by various research by Anna University, Chennai. A signifigovernment and non government funding sectors INSCST, Chennai, Analog Devices, USA and Texas Instruments, USA are successfully carried namely DRDO, MCIT, AICTE, New Delhi, pate in the faculty development programs, workshops and seminars organized by other institutions in their research area as a step out. Faculty members are encouraged to particitowards strengthening their domain knowledge. Electronics Electrical Jo Department Communication,

# About the workshop:

The aim of this workshop is to provide an initiative towards the complex research methods, either pursuing or planning to initiate research in any area of engineering. The orientation of the workshop is aimed towards understanding research in multiple perspectives and helps the participants to acquaint with recent developments.

### Eligibility:

The workshop is designed to cater to the needs of research scholars, final year UG/PG students and faculty members in engineering, science and management and allied fields pursuing or aspiring to do research.

### Outcome:

The participants will get a hands-on-session and will learn how to carry out statistical data analysis using them. By the end of the programme they will be able to develop their conceptual clarity and practical knowledge to run the software for analysis and interpreting the data for their research.



### Kings College of Engineering Punalkulam - 613 303 Workshop

on "Research Methodology & Statistical Tools for Research"

Registration Form
Please fill this form and send it to us by email randd@kingsindia.net.

1. Name (in block letters)

2. Qualification

3. Designation

4. Institution / Organization

5. Address for Communication:

6. Phone No. / Mobile

7. E-mail:

Signature of the applicant

Signature of the Head of the Department

#### KINGS COLLEGE OF ENGINEERING, PUNALKULAM

Research & Development Section

### Report - Workshop on "Research Methodology and Statistical Tools for Research"

IEEE Student Branch and R & D section of our college organized a one day workshop on "Research Methodology and Statistical Tools for Research" on 25<sup>th</sup> February, 2017. Dr. J. Arputha Vijaya Selvi, Dean (R & D) welcomed the gathering. Mr. T. Pasupathi, Assistant Professor, ECE, introduced the resource person to the gathering. Dr. J. Arputha Vijaya Selvi, honored Dr. A. Vasumathi, Professor & Programme Coordinator-MBA, VIT Business School, VIT University, Vellore.



Dr. J. Arputha Vijaya Selvi, Dean (R&D) delivering welcome address



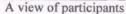
Mr. T. Pasupathi introducing the resource person



Dr. J. Arputha Vijaya Selvi honoring Dr. A. Vasumathi, Professor, VIT B School, Vellore

**Dr. A. Vasumathi,** delivered inaugural address. In her inaugural address, she briefed the three essentials for doing research: Hard work, Punctuality and Dedication. Also she stressed the importance of publishing the findings in reputed journals and research work should be time bound.

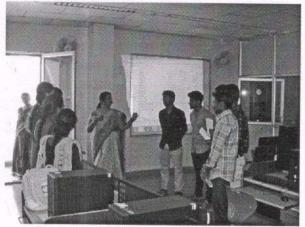






Dr. A. Vasumathi delivering inaugural address

Dr. A. Vasumathi, gave an introduction on using IBM SPSS for statistical analysis. A handson-session on using IBM Statistical Package for the Social Sciences (SPSS) for analyzing results obtained during experimentation was given. An empirical study on "The impact of Emotional Intelligence on Work Life Balance among the Faculty Members' Performance in the Educational Institutions, Tamil Nadu, India" was briefed. During the hands-on-session analysis, the above study was carried out using the questionnaire and datasets.

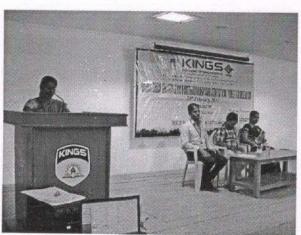


Dr. A. Vasumathi during Hands-on-session

Dr. J. Arputha Vijaya Selvi, honored Dr. V. R. Sarma Dhulipala, Assistant Professor, AU BIT Campus, Trichy. Ms. E. Suganya, Assistant Professor, R&D, introduced the resource person to the gathering.

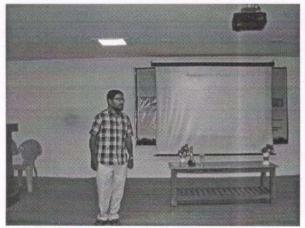


Dr. V. R. Sarma Dhulipala at the dias



Ms. E. Suganya introducing the resource person

During Session - II Dr. V. R. Sarma Dhulipala, Assistant Professor, AU BIT Campus, Trichy delivered lecture on "Research in Modern Era". In his lecture, he briefed about Systematic - research process, Logical - induction/deduction, Empirical - evidence based, Reductive - generalisation and Replicable - methodology. During the session III Dr. V.R. Sarma Dhulipala Tiruchirappalli, delivered lecture on "Paper Writing: Nitty - Gritty". In his lecture, he briefed that the title of the paper should be catchy, conceptual and scientific. He stressed the importance in writing abstract of the article and choosing keywords. He discussed that result and analysis part should be graphically illustrated and not descriptive.





Dr. V.R Sarma Dhulipala delivering lecture

Ms. E. Suganya delivering Vote of thanks

Dr. V.R. Sarma Dhulipala presided over the valedictory function issued the certificates to the participants. Ms. E. Suganya, Asst.Prof, R&D proposed the vote of thanks. 14 delegates from other institutions and 13 internal participants attended the workshop. The workshop was concluded with National Anthem.

Thesomothy submitted to Principal.

Workshop

Soft Computing

21st January, 2017

IEEE Student Branch and R&D Section Kings College of Engineering

Registration Form

Name

Designation

Institution

Mobile No.:

Email Id

IEEE Student Member (If yes enclose photocopy of membership card)

EEE Membership No. :.....

Address for Communication

Phone

E-mail

Signature of the Applicant

Signature of the Head of the Institution Photocoples of this form may also be used)

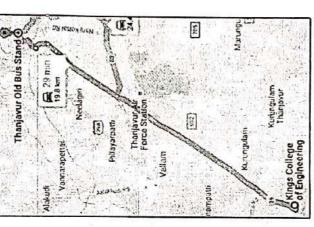
Registration

EEE Member

Rs.200/-Rs.300/-

Non IEEE Member

copy of the application form before 13.01.2017.IEEE members should enclose photocopy of membership Registration should be made by sending the scanned card along with the registration form to avail discount in registration fee.



Norkshop on Soft Computing The Coordinator R&D Section

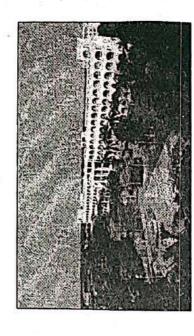
King College of Engineering Punalkulam, Thanjavur-613 303. e-mall : randd@kingsindia.net

For further information Mr. J. Niranjan Samuel: 99947 18168



Affiliated to Anna University, Chennai) Punalkulam, Thanjavur - 613 303 (Approved by AICTE, New Delhi,

Tamil Nadu.



Soft Computing Workshop on

Technically sponsored by

21st January, 2017

**EEE Madras Section CIS** 



IEEE Computational Intelligence Society

Jointly Organized by

IEEE Student Branch and R&D Section

### SBury moor

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 of Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennal. 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 certified with ISO 9001:2008. The state of the art teaching methodologies are used to impart high quality education to the students including e-learning.

### & D Section

The Department of Electronics & Communication, Electrical & Electronics Engineering and Mechanical Engineering are recognized as research centres for collaborative research by Anna University, Chennai. A significant number of projects funded by various government and non government funding sectors namely DRDO, MCIT, AlCTE, New Delhi, TNSCST, Chennai, Analog Devices, USA and Texas Instruments, USA are successfully carried out. Faculty members are encouraged to participate in the faculty development programs, workshops and seminars organized by other institutions in their research area as a step towards strengthening their domain knowledge.

# About the workshop

Soft computing is a vital area of research due to the tremendous advances in the spectrum of technologies. The Integration of soft computing techniques/tools such as Artificial Neural Networks, Fuzzy Logic, Genetic Algorithm, Evolutionary Computation and Machine Learning offers solutions where conventional approaches fail.

Unlike the normal computing, soft computing strives for exactness, accuracy, robustness and overall performance of the system. The capability of soft computing techniques in handling nonlinear data and optimization serves as a promising avenue for researchers in resolving greater challenges. This workshop aims to provide a forum to have an extensive discussion in the state-of-the-art approaches of soft computing techniques, applications & recent research issues by eminent experts in the field. Computing techniques in handling nonlinear data and optimization serves as a promising avenue for researchers in resolving greater challenges.

# Course Contents

- Introduction to fuzzy logic.
- Fuzzy logic based applications.
- Genetic algorithm and its applications.
- Introduction to neural network.
- Recent trends in neural network.

# About IEEE Madras Section

The Institute of Electrical and Electronics Engineers Inc. (IEEE), a nonprofit organization, is the world's leading professional association for the advancement of technology. IEEE Madras Section came into existence in 1973 and has crossed its silver jubilee year. The IEEE Madras Section conducts symposiums, conferences and technical lectures by eminent personalities from several fields. There are 24 societies registered through IEEE Madras section.



# Resource Persons

Dr. N. Kumarappan, Professor/EEE,

Annamalai university, Chidambaram.

Dr. P.S. Kannan,
Professor Emeritus,
Thiagarajar College of Engineering,
Madurai.

Dr. G. Giftson Samuel,
Professor/EEE,
Sir Isaac Newton College of Engineering.,
Nagapattinam.
and faculty members from Kings College of Engineering

Organizing Committee

Chief Patron
Mr. T. R.S. Muthukumaar,
Chief Executive Officer.

Patron
Dr. S. Durairaj,
Principal.

Co-Patron
Dr. S. Sivakumar,
Vice-Principal.

Convenor Dr. J. Arputha Vijaya Selvi, <sub>Dean.</sub>

Coordinators Ms E.Suganya, AP / ECE

Mr J.Niranjan Samuel, JRF / R&D



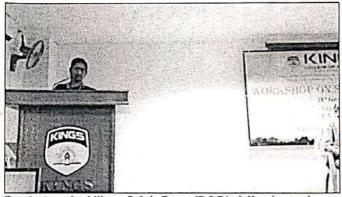


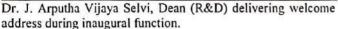


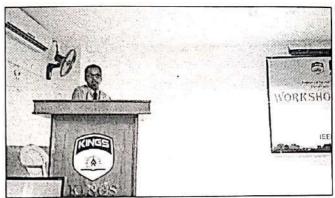
Research & Development Section

### Report - One Day Workshop on "Soft Computing"

IEEE Student Branch and R&D section, organized a one day workshop on "Soft Computing" on 28<sup>th</sup> January, 2017. Dr. J. Arputha Vijaya Selvi, Dean (R&D) welcomed the gathering. Mr. T. Pasupathi, Asst. Professor, ECE - R&D introduced the resource persons to the gathering. Dr. S. Sivakumar, Vice Principal, presided over the function and delivered the Inaugural address. In his address, he stressed the importance of soft computing and solutions to engineering problems.





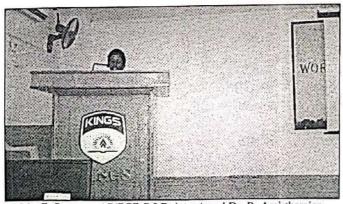


Dr. S. Sivakumar, Vice Principal, KCE delivering the inaugural address.



Dr. S. Sivakumar, Vice Principal, KCE delivering lecture.

**Dr. S. Sivakumar,** Vice Principal, Kings College of Engineering delivered a lecture on "Genetic Algorithm and its Applications". In his lecture, he briefed about the Holland's original Genetic Algorithm, Traditional algorithms, multiple optimal solution, basic components of genetic algorithm and its representation and flow of genetic algorithm. Also he demonstrated the concept of genetic algorithm with case studies.

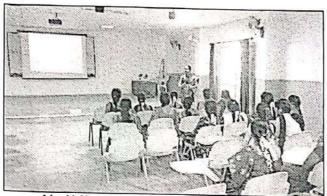


Ms. E. Suganya, AP/ECE-R&D, introduced Dr. R. Amirtharajan



Dr. R. Amirtharajan, SASTRA University, Thanjavur during the session.

Ms. E. Suganya, AP/ECE-R&D, introduced Dr. R. Amirtharajan, Associate Professor, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur, to the participants. Dr. R. Amirtharajan, delivered a lecture on "Soft Computing Techniques for Information Security". In his lecture, he stressed the importance of transferring the information securely. Also he briefed on the motivation and specific aims in information security. At the end of his lecture, he briefed with an example of transferring an image file securely over the network using soft computing techniques.







A view of participants

Ms. E. Suganya, AP/ECE-R&D, introduced Mrs. N. Hemavathi, AP/EEE to the participants. Mrs. N. Hemavathi, delivered a lecture on "Fuzzy Logic & its Applications". In her lecture, she briefed about the basic ideas of fuzzy sets, difference between crisp and fuzzy sets, process involved in fuzzy logic controller, examples for fuzzy logic based applications. In addition, she gave a demonstration on Fuzzy Logic using MATLAB.



Mr. S. Baskaran, Research Scholar, VELS University, Chennai sharing his feedback



Distribution of Certificates

Participants shared their feedback about the workshop. Certificates were distributed to the participants. 16 delegates from other institutions and 29 internal participants attended the workshop. Mr. J. Niranjan Samuel, JRF-R&D, proposed the vote of thanks. The workshop was concluded with National Anthem.

Submitted to Principal.

J. Monutai
31/1/17.

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### **INDEX**

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### **Entrepreneurship Development Cell**

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#### Entrepreneurship Development Cell

#### A report on Awareness Programme for Second Year Students

ED Cell of our college organized an "Awareness Programme" for all the second year students on 16.03.2021 (Tuesday). Mr. M. Martin, Field Coordinator, Field Coordinator, IEDP EDII Hub, SASTRA University, Thanjavur was invited as resource person and he handled the session with the concept of Entrepreneurship and also had shown various examples of renowned entrepreneurs who have been successful in their career. Students interacted with him and clarified their doubts. In that programme students from various departments attended and got benefited.





Mr. M. Martin delivering his speech to the students

Coordinator, ED Cell

J. 18/3/2021.

Principal







### Entrepreneurship Awareness Camp (22.01.2020 to 24.01.2020)

### Report

The Entrepreneurship Development Cell of Kings College of Engineering organized *Department of Science* and *Technology, Entrepreneurship Development Institute of India, Ahmedabad*, sponsored "Entrepreneurship Awareness Camp" from 22<sup>nd</sup> to 24<sup>th</sup>January 2020. Shri. R. Ellango, President, TIDITSSIA inaugurated the camp. Mr. K. Sudhakar, Coordinator welcomed the gathering. Ms. K. Abhirami, IQAC coordinator introduced the guests. Dr. R. Rajendran, Secretary, RET, delivered presidential address. Dr. J. Arputha Vijaya Selvi, Principal gave the highlights of the Camp. Dr. S. Sivakumar, Vice Principal felicitated.



Mr.K. Sudhakar, Coordinator, ED Cell Welcomed the gathering



During the invocation



Ms. K. Abhirami, IQAC coordinator introducing the guests



Dr. R. Rajendran, Secretary, RET, honouring the chief guest with shawl



Dr. R. Rajendran, Secretary, RET, delivering presidential address



Dr. J. Arputha Vijaya Selvi, Principal, summarizing the higlights of EAC



Mr. R. Ilango delivering inaugural address



Mr. Gopalakrishnan felicatating the gathering

During Session-I, Mr. P. Rajappa, Proprietor, M/s Mughil Engineering Works, Trichy on "Importance of Entrepreneurship".





Mr. P. Rajappa talks about importance of entrepreneurship

During session-II, Dr. M. Vasan, AP/ Commerce, A.V.V.M Sri Pushpam College, Poondi, Thanjavur handled on "Personality Characteristics/Traits of an Entrepreneur". Mr. Martin, Field Coordinator,

EDII, Govt. of Tamil Nadu handled on "Emerging Business Opportunities"



Dr. M. Vasan delivering lecture on the traits of an entrepreneur

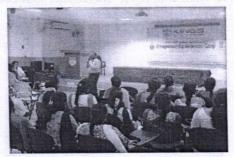


Mr. M. Martin elaborates the business Opportunity

On 23<sup>rd</sup> January, 2020, during Session-I, Mr. K. Sushil Kumar, General Manager, Tamil Nadu Industrial Investment Corporation handled on "Govt. Schemes of Assistance and policy for Setting-up Small Business Venture". During session-II, Mr. R. Michael, Retd. Manager, Punjab National Bank explained the "Support and financial assistance from Govt. agencies, banks, financial institutions, SFCs etc."



Mr. Sushil kumar delivering lecture About Government Schemes



Mr. R. Michael giving tips about to obtain Financial assistance from Govt. agencies and banks

As a part of the camp an industrial visit to "M/s. Nagabushanam Associates, CNC Centre, Trichy M/s. RMK Engineering Industries, Trichy and M/s. Finlay CNC Centre, Trichy" was arranged for the participants.













Students at the industries during the visit

On 24<sup>th</sup> January, 2020, during session – I, Mrs. Bindu Balakrishnan, Assistant General Manager, TREC STEP, NIT, Trichy on "Network of Support Institutions and legal formalities to setting-up Enterprise". During Session-II, Mr. K. Ramachandran, Former Professor, Irrigation Management Training Institute, Trichy on "Developing soft skills in creativity, developing communication skills and problem solving".



Mrs. Bindu delivering information about Legal formalities to setting-up enterprise



Mr. R. Ramachandran imparting soft skills about the developing of communication, problem-solving skills

During Session-III, Entrepreneur Mr. Pagutharivu Muthusamy on "Successful entrepreneur". Mr. K. Vijay, Student member, ED Cell proposed the vote of thanks, Feedback from the participants. Final year students of Kings College of Engineering participated.



Mr. Pagutharivu sharing his entrepreneurial experience with the participants



Student during the feedback session



Participants of the Camp along with the Dignitaries during the valedictory function

Coordinator ED Cell

[ R. SUDIHAKAR]

J. 100 29/2/2020.

Principal



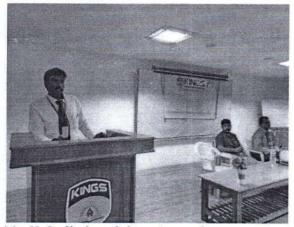




#### **Motivation Progrrame**

### <u>Jointly organized by Institution Innovation Council & Entrepreneurship Development</u> <u>Cell</u>

Entrepreneurship Development Cell in association with Institution Innovation Council, Kings College of Engineering organized a Motivation Programme to "Promote Entrepreneurship Culture" among the students on 28.09.2019. Mr.K. Sudhakar, Coordinator, ED Cell welcomed the gathering and introduced the resource person. Mr. R. Balakrishnan, Convenor IIC, KCE honoured the guest with shawl and momento.



Mr. K. Sudhakar delivering welcome address



Mr. K. Sudhakar honouring the guest

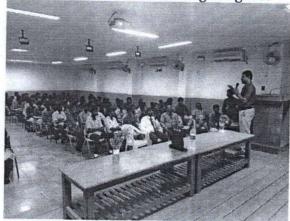
Dr. M. Vasan, Assistant Professor, PG & Research Development of Commerce, AVVM Sri Poondi Pushpam College, Poondi delivered lecture. In his lecture, he shared how to create the entrepreneurial culture among the students. During the lecture, he motivated the students using the video clips and real world examples about the domestic and international entrepreneurs. Also discussed about the challenges and problems faced by the entrepreneurs. During the Q&A session, students cleared their doubts regarding setting up an enterprise. Students expressed their positive feedback regarding the session.



Mr. R. Balakrishnan honouring the guest



Dr. M. Vasan, delivering lecture



Divinity dustain, derivering recture

A view of the participants

Mr. R. Balakrishnan, Convenor IIC, KCE proposed vote of Thanks. All the arrangements were made by members of IIC and EDC, KCE.

J. Marting.

PRINCIPAL







### A report on Entrepreneurship Awareness Camp

ED Cell of our college organized an entrepreneurship awareness camp for the Final Year students on 22.02.2019 (Friday). Mr. G. Raveendran, General Manager, District Industries Center, was invited as resource person and he delivered his speech about entrepreneurial culture. He also briefly narrated about various schemes, procedures, subsidy facilities, online approval process available to start and run various types of businesses. Also, he explained about the trainings provided for the entrepreneurs who are yet to start the business. He clarified the queries posed by the students with suitable examples. Interested students from various departments have attended and got benefited.





Mr. G. Raveendran, GM, Dic addressing the participants



A view of the participants in the awareness camp

Aligher VP.

J. Principal



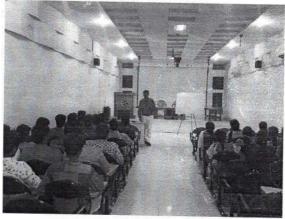




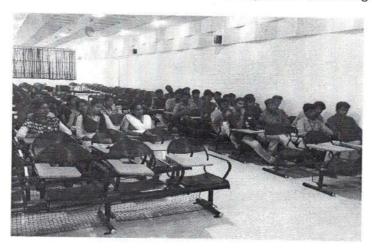
A report on Motivational and Awareness Programme organised by ED Cell . ED Cell of our college organized a motivation programme for the ED Cell Club members and students on 28.03.2019 (Thursday). Mr. R. Rajasekar, Properitor, V3 Technologies, Thanjavur, invited as resource person and he preached about the concept of business and the role of Micro, Small and Medium Scale, Innovation Driven Enterprises which helps in starting new business. Students were interacted with him actively and clarified their doubts. In that programme 31 students from various departments attended and got benefited.



Honoring the Resource Person



Mr. R. Rajasekar delivering his speech



A view of participants listening to the speech

Coordinator, ED Cell

Q July

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Principal





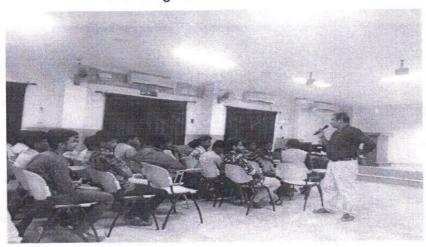


### A report on Orientation Programme on "Entrepreneurship"

ED Cell of our college organized an Orientation programme on "Entrepreneurship" programme for second year students on 10.04.2019 (Wednesday). Dr. J. Swaminathan, Assistant Professor, AVC College of Engineering, Mannampandal, Mayiladuthurai, invited as resource person and he gave away the concept of Entrepreneurship, Technopreneur and Idea generation which helps in inducing the young talents for the benefit of the society along with technical skills. Students were interacted with him and clarified their doubts. In that programme students from various departments attended and got benefited.



Honoring the Resource Person



Dr. J. Swaminathan delivering his speech

Coordinator, ED Cell

VP POLYEIS

Principal







A report on Awareness and Motivational Programme organised by ED Cell

ED Cell of our college organized an awareness and motivation programme for the ED Cell

Club members on 25.08.2018 (Saturday). Mr. N. Subramanian, Co-Founder, Agg innov.

Tiruchirappalli, invited as resource person and he delivered the speech about the basic concepts and various practical applications in the field of entrepreneurship. In that

programme 87 students from various departments attended and got benefited.



Honoring the Resource Person



Mr. N. Subramanian delivering the lecture



A view of participants listening to the lecture

Coordinator, ED Cell

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Principal







A report on Awareness and Motivational Programme organised by ED Cell

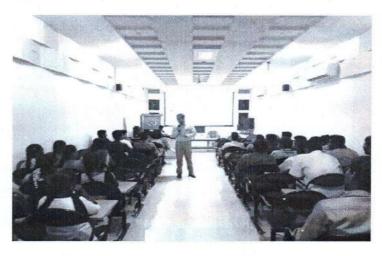
ED Cell of our college organized an awareness and motivation programme for the ED Cell Club members (Final Year) on 19.08.2017 (Saturday). Mr. A. Adarsh Mittal, Field Coordinator, EDII Hub, Govt. of Tamil Nadu (SASTRA) was invited as resource person and he delivered his speech with practical applications in the field of entrepreneurship. In that programme more than 130 students from various departments attended and got benefited.





Honoring the Resource Person

Mr. A. Adarsh Mittal delivering the lecture



A view of participants listening to the lecture

Co ordinator, ED Cell

Principal







#### A report on Awareness Programme organised by ED Cell

en 12.09.201 (Tuesday). Mr. P. Ravindran, Assistant General Manager, State Bank of Inida, Thanjavur invited as resource person and he delivered a talk about the State Bank of India's exclusive schemes for Entrepreneurs and also he listed the Central and State Governments schemes. In that programme 31 ED Club members from various departments attended and got benefited.





Welcome note delivered by ED Cell Coordinator

Honoring the Chief Guest and Resource person



An Overview of the participants

ED Cell Coordinator

Principal







### **INDEX**

**CRITERION: 3.2.2** 

### **IEEE Madras Section – Student Branch Activities**

Sl.No.	Details of the event	Page No.
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2	International Webinar on Amazon Web Services with EC2, EB and S3	3
3	One day Workshop on Graphic Designing and Animation – 2D & 3D	4
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### KINGS COLLEGE OF ENGINEERING

### IEEE STUDENTS BRANCH STB 16621

### Webinar Report

A two days webinar on "Design Procedures for Patent and IT Industry Revolution" was organized by Department of Electrical & Electronics Engineering in association with IEEE Student Branch STB 16621 on 17th & 18th July, 2020. On day 1 Mr. C. John Selvaraj, AP/EEE welcomed the participants and Mr. S.R. Karthikeyan, AP/EEE introduced the resource person. Mr. A. Terance Ruban, WNS Global Services Pvt. Ltd. Chennai delivered lecture. On Day 2, Mr. Sakthivel introduced the resource person. Prof. R. Kaja Bantha Navas, Sathyabama Institute of Science & Technology, Chennai delivered lecture. Mr. S.R. Karthikeyan, AP/EEE proposed vote of thanks. Around 120 people participated in the

Que amos hullo 12020.

Mr. R. Sundaramoorthi Membership No. 93086892

Kings College of Engineering

J. Popultiol 2020



TWO DAYS WEBINAR SERIES

ON

"DESIGN PROCEDURES FOR PATENT AND IT INDUSTRY REVOLUTION"

17th & 18th JULY 2020 11.00 a.m to 12.30 p.m Registration Link: https://forms.gle/sNdTLHYtGPTTtjaQ8

DAY1:

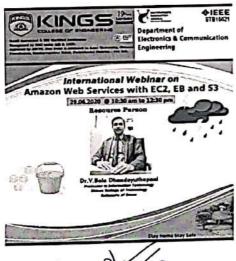
RESOURCE PERSON A. Terence Ruban Assistant Vice President, WNS Global Services Pvt Limited, Chennai. Title: Walk Through IT/ITES Industry

RESOURCE PERSON Prof.R.Kaja Bantha Navas Assistant Professor, School of Mechanical Engineering Sathyabama Institute of Science and Technology, Chennai Title: Patent Drafting and Procedure

### KINGS COLLEGE OF ENGINEERING IEEE STUDENTS BRANCH STB 16621

### WEBINAR REPORT

Department of Electronics and Communication Engineering and IEEE Student Branch (16621) was jointly organized its First International webinar on "Amazon Web Services with EC2, EB and S3" on 29th June, 2020. A total of 377 registrations were received from various institutions spread over India and abroad. Dr. J. Arputha Vijaya Selvi, Principal, presided over the webinar. The convener of this webinar, Mrs. N. Mangaiyarkarasi, HOD/ECE, welcomed the participants and introduced the resource person to the participants. Dr. V. Bala Dhandayuthapani, Professor in Information Technology, Shinas Institute of Technology, Oman delivered the lecture. In his lecture, he briefed on Cloud Computing, AWS Global Cloud infrastructure, Creating an account in AWS, Elastic Compute Cloud, Simple Storage Service and Elastic Bean Stack with live demonstrations. Dr. V. Bala Dhandayuthapani clarified the queries raised by the participants. Mr. P. Raja Pirian, AP/ECE, delivered the vote of thanks. Mr. J. Niranjan Samuel, JRF/ECE-R&D, moderated the session. A total of 327 members from various institutions at India, Denmark, Indonesia, Oman and Singapore were participated in this programme. J. 18/2020



Report by

Mr. P. Raja Pirian, AP/ECE Kings College of Engineering, Punalkulam, Pudukkottai rajapirian@gmail.com 94349595

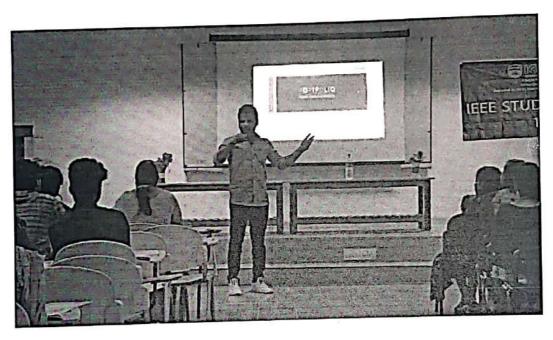


### COLLEGE OF ENGINEERING (NAAC Accredited Institution) (Approved by AICTE New Delhi Affiliated to



### Workshop on "Graphic Designing and Animation - 2D & 3D"

A one day workshop on "Graphic Designing and Animation – 2D & 3D" was jointly organized o 15.02.2020 by Department CSE and IEEE Students Branch (STB-16621) for the students with a objective to offer a better understanding of animation and also to empower their creativenes Mr.G.Vaitheeswaran, Graphic Designer and 3D Modeler, Olir Designs and Mr.Royal Ricard, Graphic Designer and Director, Olir Designs were the resource persons of the workshop. The students of the workshop obtained a working knowledge on Photoshop, Illustrator and Premier Pro which is graphic and animation software through hands on session. A total of 87(External: 48, Internal: 35 students attended the programme. The workshop was coordinated by Ms.R.Sugantha Lakshn AP/CSE and Mrs.G.Chandra Praba AP/CSE. The workshop highlighted on the basics of graphics an animation software's through hands-on experience with the industry standard.



Report by K. Allew 22/2/20 Ms.K.Abhirami Membership No. 96021784 Kings College of Engineering J. Poputi







#### Workshop on "Machine Learning using Python"

A workshop on Machine Learning using Python was organized by IEEE STB 16621 and Department of ECE on 14th February, 2020. Mr. P. Raja Pirian, Assistant Professor/ECE welcomed the gathering. Mrs. N. Mangaiyarkarasi, HOD/ECE presided over the function and delivered presidential address. Mrs. P. Thirumagal, AP/ECE, introduced the resource person to the gathering. Mr. Karthi Renganathan, Business Head, IFANDFOR Endeavours, Chennai delivered inaugural address. In his inaugural address, he motivated the students to involve themselves in IoT Domain and carry out their project work in the area of Machine Learning for their career development.

During the session, Mr. Karthi, briefed on the basics of Machine Learning and introduction to python. Also he illustrated Linear Regression, Trees and forests can be used for statistical analysis in ML. During the hands-on-session, he demonstrated the applications, such as clustering concept, Neural network in a detailed manner. A total of 77 students (including participants from other institutions) participated and gained knowledge in the area of machine learning and python.



Report by

Mr. P. Raja Pirian

Membership No. 94349595

Kings College of Engineering

rajapirian@gmail.com

J. 18/2/2020







### **IEEE STUDENT BRANCH 16621**

### REPORT- TWO DAY FDP on "Research Issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources"

The Department of Electrical and Electronics Engineering, IEEE Student branch, ISTE Student branch and MHRD'S Institutions Innovation Cell have jointly organized a two day Faculty Development Programme on "Research Issues and Solutions in Sustainable Energy Conversion and Renewable Energy Sources" on 01.11.19 &2.11.19.

Dr.S.Sivakumar, Vice Principal presided over Inaugural session.
Dr.M.Venkatakirthiga Associate Professor/EEE, National Institute of Technology, Trichy

delivered the Inaugural address.

In the first session, resource person has started about the general Introduction about Optimization Algorithms classification such as Genetic Algorithm, Particle swarm optimization techniques. Then she has given complete overview of Genetic Algorithm principles, flowchart, codings basics and implementation. She also has given how optimization Algorithms can be used in research Problems. During this session, the participants were actively interacted with the resource person.

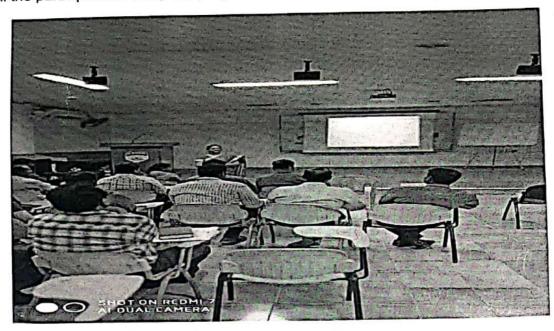
During the second session resource person has given an idea about Distributed Generation and she has explained how Islanding detection techniques can be used in Micro Grid. Through demonstrated pictures of distributed Generation she has given idea about how to solve the research problems in distributed Generation. Finally she has mentioned that research problems and solutions in Distributed Generation. The session was very informative and the participants were interacted with the resource person.

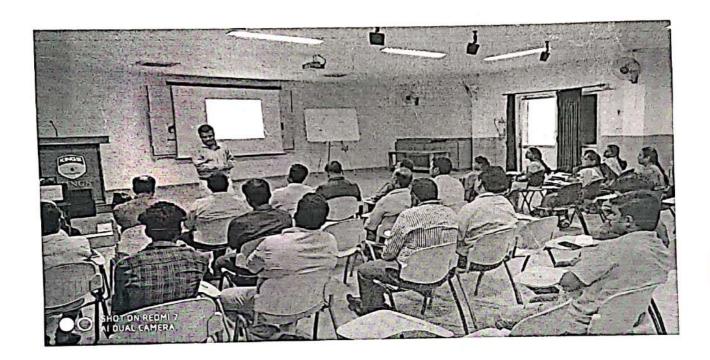
Dr.S.Sivakumar, Vice Principal, Kings College of Engineering has delivered a lecture on "Applications of Genetic Algorithms". He has given detailed concepts of Genetic Algorithms flow chart and basic definitions etc. He also demonstrated testing of GA Codings using Matlab. During this session, resource person has elaborated the GA tools for various research problems. This session was very interactive.

In the second day of FDP, Dr.V.Mohan, Professor/EEE, E.G.S Pillay Engineering College, Nagappattinam. He started the lecture from basics of Power Electronics, different types of converters, research module, research problems in Renewable Energy and Al tools used in converters. He also given a complete module of Research perspective in Smart Grid and Renewable Energy Sources and structured research steps. After the session he has interacted with the participants. This session was very interactive and informative.

Dr.M.Meenalochani, Assistant Professor/EEE, Kings College of Engineering has delivered a lecture on "Soft Computing techniques". She has given detailed basic concepts of soft switching and hard switching. Then, she has explained about Fuzzy logic systems, Membership functions, formation of rules. She has also given an idea about how to design Fuzzy Controllers for various Applications. This session was very informative.

Mr.C.John selvaraj,AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the psogram ended with the National anthem





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### **IEEE STUDENT BRANCH 16621**

Department of Electronics and Communication Engineering and IEEE Student Branch (16621), organized a one day workshop on "IoT using Raspberry Pi" on 19th July 2019. Totally 60 students have enthusiastically participated from various institutions. The objective of this workshop was to motivate the students and to involve them in IoT domain and also the students to get more ideas about IoT and Raspberry Pi and its interfacing systems.

Mr.A.Jeevanantham, Assistant Professor, IT, Kongu Engineering College was the resource person. In his lecture, he briefed on IoT, Architecture of Raspberry Pi, hardware specifications of IoT, GPIO and its uses. During the forenoon session, he demonstrated Interfacing of LED and AC appliances with Raspberry Pi and also controlled them via cloud.

Report by

Mr. P. Raja Pirian

Membership No. 94349595

Kings College of Engineering

rajapirian@gmail.com

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### KINGS COLLEGE OF ENGINEERING IEEE STUDENTS BRANCH STB 16621

### Guest Lecture on "Data Converters"

IEEE Student Branch and Dept. of Electronics & Communication Engineering organized a guest lecture on "Data Converters" on 07th March, 2017. Dr. J. Arputha Vijaya Selvi, IEEE SBC & Dean (R & D) welcomed the gathering. Mrs. R. Sowmyalakshmi, Assistant Professor/ECE, Anna University, BIT campus, Thiruchirapalli, delivered lecture. In her lecture, she briefed on overview of Data converters, ADC architectures, DAC architectures, comparator calibration techniques and precision techniques. Mr.P.Rajapirian, AP/ECE delivered the vote of thanks.



Reported by Dr. J. Arputha Vijaya Selvi, SBC & Dean, Kings College of Engineering, Punalkulam, Pudukkottai Member ID: 90234387 vijayas\_02@yahoo.co.in

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### KINGS COLLEGE OF ENGINEERING

### **IEEE STUDENTS BRANCH STB 16621**

### Awareness Talk

An Awareness Talk on "Neural Networks & Education in Abroad" was delivered to IV year ECE on 16th August 2016. Mrs. S.R. Revathy, Research Scholar, Gandhigram Rural Institute, Gandhigram, delivered lecture. In her lecture, she briefed basic concepts of neural network. The session was more interactive and students got benefitted.



Reported by
Dr. J. Arputha Vijaya Selvi,
(IEEE STB Counselor)
Dean,
Kings College of Engineering,
Punalkulam, Pudukkottai
Member ID: 90234387
vijayas\_02@yahoo.co.in

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### **CRITERION: 3.2.2**

### **INSTITUTION'S INNOVATION COUNCIL (IIC)**

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	My Story-Motivational session by successful Entrepreneur	
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	Webinar on "Awareness talk on Entrepreneurship"	
	Webinar on" Entrepreneurship development phases"	
	Workshop on" National Educational policy and National Innovation & Start-up Policy"	8
	Session on "Business Model Canvas"	11
	Orientation session for all students and faculties of Institute by innovation Ambassador	14
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2019-20	Smart India Hackathon-2020	24









# ACADEMIC YEAR 2020-21(ODD SEMESTER) THREE DAYS ONLINE WEBINAR

On

"Motivational sessions and Workshop" 4.12.2020 to 07.12.2020

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized a three days webinar on "Motivational sessions and workshop" during 4.12.2020 - 7.12.2020.

Objective:

The main objective of this webinar is to provide ideas & the latest research and innovations by successful Entrepreneur and Innovators. It provides a platform for the Teaching Faculties and students to upgrade and know about the Innovation and Entrepreneur skills. In addition, this programme will help to improve the student's ability in carrying out simple innovation and Entrepreneurship to bring up professional discussions.

Resource persons:

04.12.2020: Session 1: "Mystory-Motivational session by Successful Innovators" by Mr.S.Sachin, In-Gen Motor cycles

05.12.2020: Session 2: Workshop on "Entrepreneurship and Innovation as Career Opportunity" by Mr.K.Amirtha Ganesh, Armada Industrial Automation

07.12.2020: Session 3: "Mystory-Motivational session by Successful Entrepreneur" by Mr.M.Senthilkumar, Geomeo&Jio Vio Healthcare

President:

Dr.J.Arputha vijaya selvi, Principal, KCE

Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

Convener

Mr.R.Balakrishnan, Assistant Professor / ECE

Member

Mr.R.Shankar, Assistant Professor / MECH

Quarter series-I

Programme Type: Motivational sessions and workshop

Promotion in social media: Facebook and Instagram

Inaugural session was started through Google Meet(online) by 10.50 A.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 delivered by Mr.R.Shankar AP/Mechanical and Introduction about IIC Quarter-I Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE. Participants:

External: 125; Internal: 45 Total: 170

Session 1- "Mystory-Motivational session by successful Innovators" by Mr.S.Sachin,
In-Gen Motorcycles

In the first day of IIC Quarter-I Series, resource person has started general Introduction about Electric Vehicles. During the session he has explained about all the basics of IC Engines, Motor classifications and applications. Then he has given complete overview of Vehicles principles, types and how to get patents. He also has given how to design vehicle and can be used in research applications. During the session, the participants have actively interacted with the resource person.

Session 2:Workshop on "Entrepreneurship and Innovation as career opportunity" by Mr.K.Amirtha

Ganesh, Armada Industrial Automation

In the second day of IIC Quarter-I Series, session was started by 11.00 a.m. Introduction about the resource person was delivered by Mr.R.Balakrishnan, Convener, IIC. During the session, resource person has given an idea about how to start the Innovation and Entrepreneur. He has started from the basics of research and patents through his practical exposure. He has explained about Entrepreneur skills and ideas how to build a simple product through videos. Through demonstrated pictures of Defense field he has given idea about how to start the innovation and products. 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.

### Session 3:" Mystory-Motivational session by Successful Entrepreneur" by

### Mr.M.Senthilkumar, Geomeo & Jio Vio Healthcare

In the Day-3, session has started by 6.00 p.m after the Resource person Introduction. During the session resource person has started from his career experience and given an idea about how to become an Entrepreneur through simple examples. Initially he has started with the story of his journey at a Product Management Company and how different types of products are designed. Finally he has mentioned that general Instructions and guidelines to solve real world problems to become an Entrepreneur. The session was very informative and the participants have interacted with the resource person.

### Benefits Interms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted about Innovation start ups and Entrepreneur skill set.
- Programme helped to initiate how to be a successful Entrepreneur.
- Portrays the accelerated learning curve for students in involving innovation start ups and Product development.
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges, and keeps your neural pathways active.

### Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

### **Event Photographs**



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**Event Photograph-1** 



Event Photograph-2



Event Photograph-3



Event Photograph-4

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President-IIC&Principal









# ACADEMIC YEAR 2020-21(ODD SEMESTER) THREE DAYS ONLINE WEBINAR

On

### "WORKSHOP ON ENTREPRENEURSHIP"

22.1.2021 to 25.1.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized a three days webinar on "Workshop on Entrepreneurship" during 22.1.2021 - 25.1.2021.

### Objective:

The main objective of this webinar is to motivate a person for entrepreneurial career and to make him capable of perceiving and exploiting opportunities for enterprises and become a successful Entrepreneur. It provides a platform for the Teaching Faculties and students to upgrade and to know about the Entrepreneur skills. In addition, this programme will help to improve the student's ability in carrying out Entrepreneurship to bring up professional discussions.

### Resource persons:

22.1.2021: Session 1:"Design Thinking, Critical thinking and Innovation Design" by Mr.S.Mukeshwaran, HOD/Management studies, ARJCET, Mannargudi

23.1.2021: Session 2: "Awareness talk on Entrepreneurship" by
Mr.E.Kishorekumar, Managing Partner, KAM Motors, LLP Thanjavur

25.1.2021: Session3: "Entrepreneurship Development Phases" by Mr.M.Martin, Field Coordinator, IEDP-EDII, SASTRA University

### President:

Dr.J.Arputha Vijaya Selvi, Principal, KCE

### Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

### Convener

Mr.R.Balakrishnan, Assistant Professor / ECE

### Member

Mr.R.Shankar, Assistant Professor / MECH

### Quarter series-I

**Programme Type:** Workshop on Entrepreneurship

Promotion in social media: Face book and Instagram

Participants:

Inaugural session was started through Google Meet(online) by 10.50 A.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 delivered by Mr.R.Balakrishnan AP/ECE and Introduction about IIC Quarter-II Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

External: 105; Internal: 40 Total: 145

Session 1- "Design Thinking, Critical thinking and Innovation Design" by Mr.S.Mukeshwaran,
HOD/Management studies, ARJCET, Mannargudi

In the first day of IIC Quarter-II Series, 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.

## Session 2: "Awareness talk on Entrepreneurship" by Mr.E.Kishorekumar, Managing Partner, KAM Motors, LLP Thanjavur

In the second day of IIC Quarter-II Series, the session was started by 11.00 a.m. Introduction about the resource person was delivered by Mr.R.Balakrishnan, Convener, IIC. During the session, resource person has given a general idea about how to start the Entrepreneur and explained general information. He started from the basics of Entrepreneur skills through his practical exposure. The session enlightens the mindset of students regarding the field of entrepreneurship. He also shared some tips like how to manage resources wisely, become a self-promoter and the level playing field of technology and much more. The entire session was interactive through snapshots pictures and live examples. The session was very informative and the participants interacted with the resource person.

### Session 3: "Entrepreneurship Development Phases" by Mr.M.Martin, Field Coordinator,

### **IEDP- EDII, SASTRA University**

In the third day of IIC Quarter-II Series, the session was started by 11.00 a.m after the Resource person Introduction. During the session resource person has started from his career experience and given an idea about how to become an Entrepreneur through simple examples. and explained about development phases. He talked about the various personality traits that are required to be an entrepreneur, quoting the examples of some inspiring and established entrepreneur. He also discussed the importance of 4 p's that are PLAN, PREPARE, PRACTICE and PROCESS. He also talked about the right connections needed in a business world and also how exit planning is also important.

Finally he has mentioned that general Instructions and guidelines to solve real world problems to become an Entrepreneur. The session was very informative and the participants have interacted with the resource person.

### Benefits in terms of Learning/Skills/Knowledge obtained:

- To understand the historical background of entrepreneurship in Tamilnadu and India.
- Identification of opportunities in entrepreneurship
- All the participants have benefited about Innovation start ups and Entrepreneur skill set.
- Programme helped to initiate how to be a successful Entrepreneur.
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges.

### Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Shankar AP/Mech, Member of IIC delivered the vote of thanks.

### **Event Photographs**

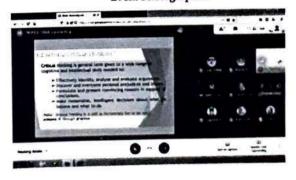








Event Photograph-2



Event Photograph-4

J. Morte 12021

President-IIC&Principal

Kings College of Engineering Punalkulam- 613 303









# ACADEMIC YEAR 2020-21(ODD SEMESTER) ONLINE WEBINAR

On

"WORKSHOP ON NATIONAL EDUCATION POLICY AND NATIONAL INNOVATION AND STARTUP POLICY"

27.1.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized webinar on "Workshop on National Educational Policy and National Innovation and start up policy" on 27.1.2021.

### Objective:

The main objective of this webinar is to provide awareness about National Educational Policy for Innovation and start up policy among the students. It provides a platform for the Teaching Faculties and students to know about the Policy rules and general Guidelines.

### Resource persons:

Session 1:" Orientation Session on National Education Policy (with a focus on Innovation and Entrepreneurship)" by Dr.K.Sudhakar, Assistant Professor, T&P, Kings College of Engineering.

Session 2: "Orientation Session on National Innovation and Startup Policy (NISP) "
by Mr.B.Suresh Babu, Assistant Professor, T&P, Kings College of Engineering

### **President:**

Dr.J.Arputha Vijaya Selvi, Principal, KCE

### Vice- President

Mr.R.Sundaramoorthi, Assistant Professor / EEE

### Convener

Mr.R.Balakrishnan, Assistant Professor / ECE

### <u>Member</u>

Mr.R.Shankar, Assistant Professor / MECH

### Quarter series-I&II

**Programme Type:** workshop on National Educational policy

Promotion in social media: Facebook and Instagram

Inaugural session was started through Google Meet(online) by 10.50 A.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 delivered by Mr.R.Balakrishnan AP/ECE.

Participants:

External: 55; Internal: 40 Total: 95

Session 1:" Orientation Session on National Education Policy (with a focus on Innovation and Entrepreneurship)" by Dr.K.Sudhakar, Assistant Professor, T&P, Kings College of Engineering

In the first session of IIC Quarter-I Series, the resource person started general Introduction about National Educational Policy(NEP) is a comprehensive framework to guide the development of education in the country. NEP Which explains elementary education to higher education as well as vocational training in both rural and urban India. The policy aims to transform India's education system by 2021. During the session he explained about all the NEP Procedures. He also explained the NEP proposes sweeping changes including opening up of Indian higher education to foreign universities, dismantling of the UGC and the All India Council for Technical Education (AICTE), introduction of a four-year multidisciplinary undergraduate programme with multiple exit options, and discontinuation of the M Phil programme. During the session, the participants have actively interacted with the resource person.

Session 2: "Orientation Session on National Innovation and Startup Policy (NISP) "
by Mr.B.Suresh Babu , Assistant Professor, T&P, Kings College of Engineering

In the second day of IIC Quarter-II Series, session was started by 11.00 a.m. Introduction about the resource person was delivered by Mr.R.Balakrishnan, Convener, IIC. The resource person started general Introduction about National Innovation and start up policy. The National Innovation and Startup Policy 2019 for students and faculty of Higher Education Institutions (HEIs) is a guiding framework to enable the institutes to actively engage students, faculties and staff in innovation and entrepreneurship related work. The policy aims to transform India's education system by 2021. During the session he explained about all the NISP Procedures. During the session, the participants have actively interacted with the resource person.

Benefits interms of Learning/Skills/Knowledge obtained:

- All the participants have benefited about National Educational Policy for start up and Innovation.
- Programme helped to know about general Instructuions about National Educational Policy.

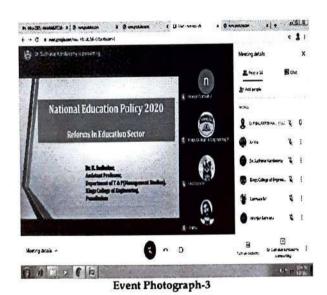
### Feedback session:

The feedbacks from the participants were collected. Mr.R.Shankar AP/Mech, Vice President, IIC delivered the vote of thanks.

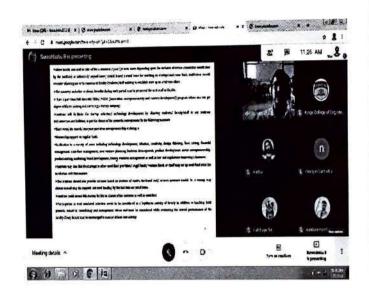
### **Event Photographs**



**Event Photograph-1** 



Vice President-IIC& AP/EEE



**Event Photograph-2** 



Event Photograph-4

J. Muka 30/1/2021

President-IIC&Principal

PRINCIPAL
Kings College of Engineering
Punalkulam- 613 383.









### ACADEMIC YEAR 2020-21(EVEN SEMESTER) WEBINAR

On
"Business Model Canvas"

28.5.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized webinar on "Business Model Canvas" on 28.5.2021

Objective:

The main objective of this webinar is to provide ideas of business model canvas& the latest research and innovations by successful Entrepreneur and Innovators. It provides a platform for the Teaching Faculties and students to upgrade and know about the business and Process. In addition, this programme will help to improve the student's ability in carrying out how to start the business and Entrepreneur to bring up professional discussions.

### Resource persons:

28.05.2021: "Business Model Canvas" by

Mr. Aditya Nath Mishra Founder & Director (Optasia Foundation)

### 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.Niranjan J. Niranjan Samuel, JRF/R&D.

### Quarter series-III

Programme Type: Webinar on Business Model canvas

Promotion in social media: Facebook and Instagram

Inaugural session was started through Google Meet(online) by 05.50 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 delivered by G.Latchayasri, IIC Student Member and Introduction about IIC Quarter-II and Quarter-III Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

### Participants:

External: 125; Internal: 45 Total: 170

Session 1- "Business Model Canvas" by

Mr. Aditya Nath Mishra Founder & Director (Optasia Foundation)

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. Resource person started general Introduction about his carrier and development. During the session, he has explained about his own company Optasia Foundation process and functions. In his lecture, he explained what is business Modal Canvas? and other functions of business. He mentioned that how different businesses successfully run by different managing partner. He also described business plan and different models such as value propagation, customer relationship, customer segment and channel. Then he has given complete overview of each and every segments of business model process with lots of examples. Particularly, he pointed out Ola and face book. He also has given how to design model for business and can be used in innovation. In addition, he delivered the complete details of value reposition which involves Innovation, service ,boosting sales, customer acquisition, customer retention and organization. During the session, the participants have actively interacted with the resource person.

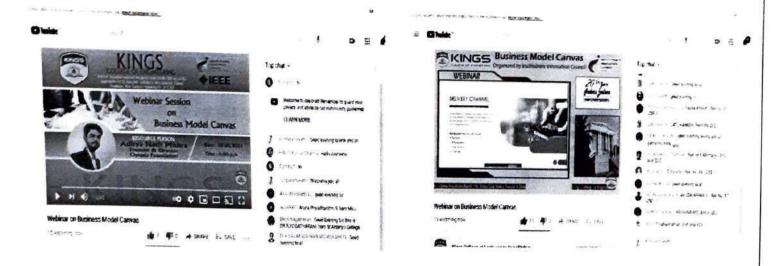
### Benefits Interms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted about Business model idea and Process of Business.
- Webinar helped to initiate different modules of Business.
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges, and keeps your neural pathways active.

### Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

### **Event Photographs**



### Event Photograph-1

# WEBINAR KEY PARTNER Webinar on Business Model Canvas Webinar on Business Model Canvas Webinar on Business Model Canvas The Manual Control of Control

SUBSCRIBED

**Event Photograph-3** 

Kings College of Engineering Punalkulam

Vice President-IIC& AP/EEE

J. M. 3/8/2024

**Event Photograph-2** 

President-IIC&Principal

3









# ACADEMIC YEAR 2020-21(EVEN SEMESTER) WEBINAR

# On "ORIENTATION SESSION ON IPR"

29.5.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized webinar on "Orientation session on IPR" on 29.5.2021

### Objective:

The main objective of this webinar is to provide ideas of Intellectual Property Rights. It provides a platform for the Teaching Faculties and students to upgrade and know about the IPR and Procedures of Copyrights and Trade mark. In addition, this programme will help to improve the student's ability in carrying out simple innovation and how to convert to Patent.

### Resource persons:

29.05.2021: Orientation session for all students and faculties of Institute by Innovation
Ambassadors " by Mr.K.Suresh Babu AP/Management, Kings College of Engineering

### 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.Niranjan J. Niranjan Samuel, JRF/R&D.

### Quarter series-III

Programme Type: Orientation session

Promotion in social media: Instagram

Inaugural session was started through Google Meet(online) by 05.50 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 delivered by G.Latchayasri, IIC Student Member and Introduction about IIC Quarter-II and Quarter-III Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

### Participants:

External: 111; Internal: 45 Total: 156

Orientation session for all students and faculties of Institute by Innovation Ambassadors "by Mr.K.Suresh Babu AP/Management, Kings College of Engineering

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. In the initial part of his lecture, he has mentioned that IP Introduction and what he gathered information at Innovation Ambassador training at Chennai. During the session, he categorized as different section such as categories of Intellectual property, Important of IPRs, Kinds of IPRs, Patent, Copyright, Trade mark and Geographical Indicators. He has given broad idea related to Intellectual property and functions such as Problem identification, Ideation, novelty and IP. He has given clear explanation about important of IPRs and patents. He also explained criteria of patentability such as home appliances related to novelty, Inventive steps and utility. The session was very informative and the participants have interacted with the resource person.

### Benefits Interms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted about IPR and copy rights.
- Webinar helped to initiate how to get Patent rights and developing Product.
- Portrays the accelerated learning curve for students in involving Intellectual Property Rights and Product development
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges, and keeps your neural pathways active.

### Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

### **Event Photographs**



**Event Photograph-1** 



**Event Photograph-2** 

Vice President-IIC& AP/EEE

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President-IIC&Principal









# ACADEMIC YEAR 2020-21(EVEN SEMESTER) WEBINAR

On

"Workshop on Prototype/Process Design and Development-Prototyping"
31.5.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized webinar on "Workshop on Prototype/Process Design and Development-Prototyping" on 31.5.2021

Objective:

The main objective of this webinar is to provide ideas of Prototype and Process Design and innovations projects by Research fellow. It provides a platform for the Teaching Faculties and students to upgrade and know about the Innovation and product development. In addition, this programme will help to improve the student's ability in carrying out simple innovation and to bring to product through professional discussions.

### Resource persons:

31.05.2021: "Workshop on Prototype/Process Design and Development-Prototyping" by Dr.P.Narasimman AP/EEE, Kings College of Engineering

### 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.Niranjan J. Niranjan Samuel, JRF/R&D.

### Quarter series-III

Programme Type: workshop

Promotion in social media: Facebook and Instagram

Inaugural session was started through Google Meet(online) by 05.50 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 delivered by G.Latchayasri, IIC Student Member and Introduction about IIC Quarter-II and Quarter-III Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

### Participants:

External: 140; Internal: 45 Total: 185

### "Workshop on Prototype/Process Design and Development-Prototyping" by Dr.P.Narasimman AP/EEE, Kings College of Engineering

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. During the session resource person has started from his research experience and different tools are used in Prototype design and process design in order to develop the prototype. He has broadly given the agenda such as Introduction about prototype; free software's available to develop a prototype, basic circuit designing, Tinker CAD software and applications etc. He clearly explained from basics of prototype through some practical examples such as LED TV and Refrigerator. In addition with, other practical examples were also given such as agriculture field and real world problem COVID-19 .He has given plenty of problems and solutions in order to get product through flowchart. Finally he has mentioned that general Instructions and guidelines to solve real world problems to convert prototype to product. The session was very informative and the participants have interacted with the resource person.

### Benefits Interms of Learning/Skills/Knowledge obtained:

- All the participants have benefitted about product design.
- Webinar helped to initiate how to get developing Product.
- Portrays the accelerated learning curve for students in involving Product development
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges, and keeps your neural pathways active.

### Valedictory Function:

The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

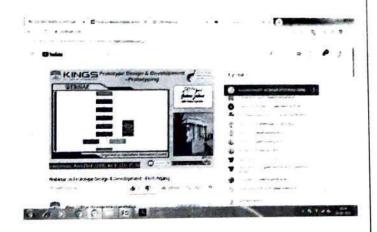
### **Event Photographs**



**Event Photograph-1** 



**Event Photograph-3** 



**Event Photograph-2** 



Event Photograph-4

Vice President-IIC& AP/EEE

President-IIC&Principal









# ACADEMIC YEAR 2020-21(EVEN SEMESTER) WEBINAR

On

"BUILDING AN INNOVATION/ PRODUCT FIT FOR MARKET, ANGEL INVESTMENT/VC FUNDING OPPORTUNITY FOR EARLY STAGE ENTREPRENEURS"

& ORIENTATION SESSION

4.6.2021-7.6.2021

### REPORT

Institution's Innovation Council (IIC) of Kings College of Engineering organized webinar on "Building an Innovation/Product fit for Market, "Angel Investment/VC Funding opportunity for Early stage Entrepreneurs" and "Orientation session on Innovation "from 4.6.2021 to 7.6.2021.

Objective:

The main objective of this webinar is to provide ideas of building an Innovation/Product fit for Market ,Idea of Angel Investment/VC Funding opportunity for Early stage Entrepreneurs and Idea of Innovation. It provides a platform for the Teaching Faculties and students to upgrade and know about the Innovation and Entrepreneur skills. In addition, this programme will help to improve the student's ability in carrying out how to build Product through simple innovation and Entrepreneurship to bring up professional discussions.

### Resource persons:

04.06.2021: Session 1: "Building an Innovation/Product fit for Market" by

RK.Mishra,Director of Destarity EntertainmentPvt Ltd

Bhubaneshwar, Orissa, India

05.06.2021: Session 2: Session on "Angel Investment/VC Funding Opportunity for Early

Stage Entrepreneurs "by

Prof.B.Srisundar, Assistant Professor in Management studies, Annai college of Arts&Science, Kovilacheri, Kumbakonam

07.06.2021: Session 3: Orientation session for all students and faculties of Institute by Innovation Ambassadors" by

Mr.T.Pasupathi, AP/ECE, Kings College of Engineering

### 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.Niranjan J. Niranjan Samuel, JRF/R&D.

### Quarter series-III

<u>Programme Type</u>: Webinar and Orientation session <u>Promotion in social media</u>: Facebook and Instagram

### **Inaugural Session:**

Inaugural session was started through Google Meet(online) by 05.50 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 delivered by G.Latchayasri IIC Student Member and Introduction about IIC Quarter-II and Quarter-III Series was delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

### Participants:

External: 125; Internal: 45 Total: 170

# Session 1- "Building an Innovation/Product fit for Market" by RK.Mishra,Director of Destarity EntertainmentPvt Ltd Bhubaneshwar, Orissa, India

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. During the session, resource person raised to fundamental questions such as what is product? What is Innovation? How to fit for market? .He has broadly explained different products and market value procedures. He also discussed innovation concepts and how to convert Innovation ideas to product. He has given broad idea related to product fit for market and functions. He also explained current trend in Innovation through his experience. The session was very informative and the participants have interacted with the resource person.

# Session 2: Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs "by Prof.B.Srisundar, Assistant Professor in Management studies, Annai college of Arts&Science, Kovilacheri, Kumbakonam

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. In the initial part of his lecture, he has mentioned that general Introduction about Entrepreneurs role and development. During the session, he explained about Angel Investment and VC funding opportunity for Entrepreneur. He has given broad idea related to different types of Angel Investment such as types of business, partnership, types of Investing like Incubators and Accelerators, Venture capital and private equity. He also explained how to become an Entrepreneur and roles. The session was very informative and the participants have interacted with the resource person. The session was very informative and the participants have interacted with the resource person.

# Session 3:" Orientation session for all students and faculties of Institute by Innovation Ambassadors" by Mr.T.Pasupathi, AP/ECE, Kings College of Engineering

The session was started by 6.00 p.m. Introduction about the resource person was delivered by G.Latchayasri, IIC Student Member. In the initial part of his lecture, he has mentioned that simple introduction about Innovation basics also shared information gathered at Innovation Ambassador training at Chennai. During the session, he broadly explained difference between Innovation and Invention. He also described Innovation types and different Innovators and top 10 greatest innovators of all time. He has given broad idea related to Innovation and how to convert to product in to Patents. He has exposed pictures related to various Innovations types and awarded persons. The session was very informative and the participants have interacted with the resource person.

### Benefits Interms of Learning/Skills/Knowledge obtained:

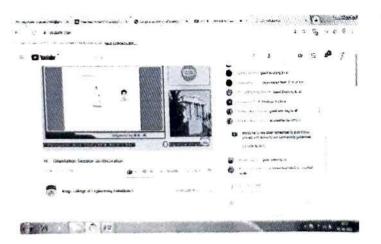
- All the participants have benefitted about Angel Investment Innovation and Entrepreneur skill set through Angel Investment concepts.
- Programme helped to initiate how to be a successful Entrepreneur.
- Portrays the accelerated learning curve for students in involving innovation and Product development through practical examples
- It helps to gain new experiences, trains students brain to handle a wide range of Challenges, and keeps your neural pathways active.

### Valedictory Function:

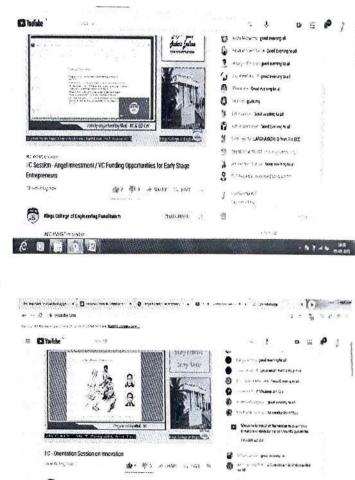
The feedbacks from the participants were collected. Mr.R.Sundaramoorthi, Vice President, IIC delivered the vote of thanks.

### **Event Photographs**





Vice President-IIC& AP/EEE





President-IIC&Principal

NAME OF THE EVENT

: SMART INDIA INTERNAL HACKATHON 2020

NAME OF THE DEPT

: INSTITUTION INNOVATION COUNCIL(IIC)

NUMBER OF BENEFICIARIES

: 22 Teams-(132 Members)

NAME OF THE RESOURCE PERSONS :1.Dr.J.Arputha Vijaya Selvi, Principal

2.Dr.S.Sivakumar, Vice Principal

NAME OF THE JURY MEMBERS

: 1.Ms.R.Revathi, AP/CIVIL

2.Dr.S.M.Uma, Asso. Prof /CSE

3.Mr.P.Rajapirian, AP/ECE 4.Mr.J.Arokiaraj, AP/EEE

5.Dr.P.P.Shantharaman, Asso. Prof /MECH

DATE

: 13.1.2020

PHOTOS:







Fig 2:Participants presenting the Ideas



Fig 3:Resource persons& Jury members interacting with



Fig 4 CISCO Device Logo Contest Publicity

**IIC** President