



**INTERNAL QUALITY ASSURANCE CELL
EVENTS ORGANIZED**

**ACADEMIC YEAR
2020-21**



**INTERNAL QUALITY ASSURANCE CELL
SPOKEN TUTORIAL WORKSHOP EXECUTION STATUS – STUDENTS**

2020-21 (ODD)

Date	Title	Department	No. of participants
12.08.2020	LaTeX	CIVIL	33
12.08.2020	Inkscape	CIVIL	21
12.08.2020	Qcad	CIVIL	18
12.08.2020	Drupal	CSE	44
12.08.2020	Java	CSE	43
12.08.2020	Linux	CSE	48
12.08.2020	Inkscape	ECE	33
12.08.2020	Scilab	ECE	35
12.08.2020	Arduino	ECE	49
12.08.2020	LaTeX	EEE	15
12.08.2020	Inkscape	EEE	15
12.08.2020	LaTeX	MECHANICAL	68
12.08.2020	OpenFOAM	MECHANICAL	59
TOTAL			521

Total number of workshops :14
Total number of Students participated :521

2020-21 (EVEN)

Date	Title	Department	No. of participants
18.02.2021	Blender	CIVIL	33
18.02.2021	Blender	CIVIL	21
18.02.2021	GIMP	CIVIL	18
18.02.2021	LaTeX	CSE	44
18.02.2021	PHP and MySQL	CSE	48
18.02.2021	Blender	CSE	45
18.02.2021	eSim	ECE	49
18.02.2021	LaTeX	ECE	33
18.02.2021	GIMP	ECE	35
18.02.2021	eSim	EEE	8
18.02.2021	GIMP	EEE	34
18.02.2021	Blender	MECHANICAL	4
18.02.2021	Blender	MECHANICAL	60
18.02.2021	GIMP	MECHANICAL	40
TOTAL			472

Total number of workshops 14
Total number of Students participated 472

Semester Training Planner Summary (STPS)

[Dashboard](#)

[? Instructions](#)

STEP 1: Upload students Master Batch Student List :

[MB Masler Batch Student List](#)

STEP 2: Complete the STPF :

[STPF - Semester Training Planner Form](#)

STEP 3: Select Participant List :

[Select Participant List](#)

Kings College Of Engineering, Pudukkottai

July - December, 2020

Total : 14

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	Aug. 12, 2020	LaTeX	Civil Engineering	33	Participant List Certificate request awaiting at Training manager
2	Aug. 12, 2020	Inkscape	Civil Engineering	21	Participant List Certificate request awaiting at Training manager
3	Aug. 12, 2020	Drupal	Computer Science and Engineering	44	Participant List Certificate request awaiting at Training manager
4	Aug. 12, 2020	Java	Computer Science Engineering (CSE)	43	Participant List Certificate request awaiting at Training manager
5	Aug. 12, 2020	LaTeX	Electronics and Communication Engineering	(0 / 55)	
6	Aug. 12, 2020	Inkscape	Electronics and Communication Engineering	33	Participant List Certificate request awaiting at Training manager
7	Aug. 12, 2020	LaTeX	Electrical and Electronics Engineering (EEE)	15	Participant List Certificate request awaiting at Training manager
8	Aug. 12, 2020	Inkscape	Electrical and Electronics Engineering (EEE)	15	Participant List Certificate request awaiting at Training manager
9	Aug. 12, 2020	LaTeX	Mechanical Engineering	68	Participant List Certificate request awaiting at Training manager
10	Aug. 12, 2020	OpenFOAM	Mechanical Engineering	59	Participant List Certificate request awaiting at Training manager
11	Aug. 12, 2020	Linux	Computer Science and Engineering	48	Participant List Certificate request awaiting at Training manager
12	Aug. 12, 2020	Sollab	Electronics and Communication Engineering	35	Participant List Certificate request awaiting at Training manager
13	Aug. 12, 2020	Arduino	Electronics and Communication Engineering	49	Participant List Certificate request awaiting at Training manager
14	Aug. 12, 2020	Qcad	Mechanical Engineering	40	Participant List Certificate request awaiting at Training manager
15	Aug. 12, 2020	Qcad	Civil Engineering	18	Participant List Certificate request awaiting at Training

Firefox automatically sends some data to Mozilla so that we can improve your experience.

Choose What I Share x



Semester Training Pla...

Document1 - Microsof...

12:14 PM

January - June, 2021 Total : 14

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	Feb. 18, 2021	Blender	Civil Engineering	33	 Participant List Participation certificates available
2	Feb. 18, 2021	Blender	Civil Engineering	21	 Participant List Certificate request awaiting at Training manager
3	Feb. 18, 2021	GIMP	Civil Engineering	18	 Participant List Certificate request awaiting at Training manager
4	Feb. 18, 2021	LaTeX	Computer Science and Engineering	44	 Participant List Certificate request awaiting at Training manager
5	Feb. 18, 2021	PHP and MySQL	Computer Science and Engineering	48	 Participant List Certificate request awaiting at Training manager
6	Feb. 18, 2021	Blender	Computer Science Engineering (CSE)	45	 Participant List Certificate request awaiting at Training manager
7	Feb. 18, 2021	eSim	Electronics and Communication Engineering	3	 Participant List Certificate request awaiting at Training manager
8	Feb. 18, 2021	LaTeX	Electronics and Communication Engineering	33	 Participant List Certificate request awaiting at Training manager
9	Feb. 18, 2021	GIMP	Electronics and Communication Engineering	35	 Participant List Certificate request awaiting at Training manager
10	Feb. 18, 2021	eSim	Electrical and Electronics Engineering (EEE)	8	 Participant List Certificate request awaiting at Training manager
11	Feb. 18, 2021	GIMP	Electrical and Electronics Engineering (EEE)	34	 Participant List Certificate request awaiting at Training manager
12	Feb. 18, 2021	Blender	Mechanical Engineering	4	 Participant List Certificate request awaiting at Training manager
13	Feb. 18, 2021	Blender	Mechanical Engineering	80	 Participant List Certificate request awaiting at Training manager
14	Feb. 18, 2021	GIMP	Mechanical Engineering	40	 Participant List Participation certificates available

July - December, 2020 Total : 14

#	Semester Start Date	Software Course	Department	Participant List Status	Action
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Firefox automatically sends some data to Mozilla so that we can improve your experience.

Choose What I Share X



Semester Training Pla...

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ACADEMIC YEAR 2020-21 (ODD SEMESTER)

28.10.20

**INTERNAL QUALITY ASSURANCE CELL
REPORT ON INTERNAL WEBINAR SERIES**

Series of Internal Webinars was planned and organized by Internal Quality Assurance Cell during the month of September and October. NAAC revised accreditation framework, Outcome Based Education, Criterionwise strengthening aspects were covered during the webinar.

Principal Dr.J.Arputha Vijaya Selvi highlighted on the quality aspects and insisted for practical approaches in teaching-learning. Vice-Principal Dr.S.Sivakumar insisted on utilization of online resources and also handled session on criterion 4. IQAC Coordinator Ms.K.Abhirami, handled webinar series. Sessions were handled online mode through google meet platform between 12.30pm -2.00pm. Faculty members from all departments attended the webinar series.

Date	Coverage	Presentation Session snap
09.09.20	NAAC accreditation framework Criteria -I	
10.09.20	NAAC – Criteria-II	

Date	Coverage	Presentation Session snap
05.10.20	Outcome Based Education	 <p>KINGS COLLEGE OF ENGINEERING IQAC WELCOMES STAFF MEMBERS TO WEBINAR-3 On Outcome Based Education (OBE) Framework Dt. 05.10.2020</p>
21.10.20	Criteria-V, VI	 <p>KINGS COLLEGE OF ENGINEERING IQAC WELCOMES STAFF MEMBERS TO WEBINAR-4 On NAAC CRITERION 5,6 Dt. 21.10.2020</p>
27.10.20	Criteria-IV, VII, OBE Implementation	 <p>KINGS COLLEGE OF ENGINEERING IQAC WELCOMES STAFF MEMBERS TO WEBINAR-5 On OBE Implementation and Criterion-7 Dt. 27.10.2020</p>



IQAC

ACADEMIC YEAR 2020-21

12.07.20

INTERNATION WEBINAR ON

“Innovative Teaching Methodologies”

Programme Report

INTERNAL QUALITY ASSURANCE CELL (IQAC) in association with INSTITUTE INNOVATION COUNCIL (IIC) and RESEARCH AND DEVELOPMENT CELL (R&D CELL) organized **International Webinar on “Innovative Teaching Methodologies”** By **Dr.Jai Rangunathan**, Coordinator of Programs, School of Ocean Technology, Marine Institute – Memorial University of Newfoundland, Canada on 10.07.2020 through Google meet platform (Online mode).

Webinar started with the welcome address of Principal **Dr.J.Arputha Vijaya Selvi**, Felicited by **Dr.R.Rajendran**, Secretary and speaker introduction by Vice-Principal **Dr.S.Sivakumar**.

Resource person **Dr.Jai Rangunathan** shared his profound knowledge on the topic, highlighting about Flipped classrooms, Virtual labs to complement practical learning experiences with variety of interactive activities, insisted for creative pedagogical approaches. Wide ICT enabled methodologies was also quote by the speaker. Moodle and other suitable LMS utilization by faculties was also insisted by the resource person. At the end of the session, speaker answered queries raised by the participants. Total of 337 participants attended the webinar from all over the world. Programme was hosted by IQAC coordinator **Ms.K.Abhirami**, AP/CSE. At the end of the session Vote of thanks was proposed by **Mr.R.Sundaramoorthi**, AP/EEE and Vice-President, IIC. Technical support was provided by **Mr.T.Pasupathi** AP/ECE, DRC member.

WEBINAR POSTER

IQAC **KINGS** **KINGS** **INSTITUTION'S INNOVATION COUNCIL**
COLLEGE OF ENGINEERING
NAAC Accredited & ISO Certified Institution
Recognized by UGC under 2(F) & 12(B)
Approved by AICTE New Delhi, Affiliated to Anna University, Chennai.
Punalikulam, Pudukkottai - 613 303

INTERNAL QUALITY ASSURANCE CELL (IQAC)
In association with
INSTITUTE INNOVATION COUNCIL (IIC)
RESEARCH & DEVELOPMENT CELL (R&D)
Cordially invite you for the
INTERNATIONAL WEBINAR
ON
“INNOVATIVE TEACHING METHODOLOGIES”

Dr.JAI RAGUNATHAN
CO - ORDINATOR OF PROGRAMS
SCHOOL OF OCEAN TECHNOLOGY
MARINE INSTITUTE
MEMORIAL UNIVERSITY OF NEWFOUNDLAND,
CANADA

No Registration Fee
E-Certificate will be Provided
Registration Link:
<https://bit.ly/2CM6xLL>

DATE : 10.07.2020 **TIME : 10.30 - 12.00 NOON**

CONVENERS
Ms.K.ABHIRAMI, AP/CSE, IQAC CO - ORDINATOR
Mr.R.SUNDARAMOORTHY, AP/EEE, IIC VICE-PRESIDENT
Mr.T.PASUPATHI, AP/ECE, DRC MEMBER /ECE

TARGET AUDIENCE
FACULTY MEMBERS FROM COLLEGES, UNIVERSITIES

CONTACT FOR SUPPORT
9841013972, 9994718168

Dr.J.ARPUTHA VIJAYA SELVI
PRINCIPAL

WEBINAR INVITATION



The poster features logos for IQAC, Kings College of Engineering, and Institution's Innovation Council. The text is centered and uses various colors and bold fonts to highlight key information.

IQAC **KINGS** COLLEGE OF ENGINEERING
NAAC Accredited & ISO Certified Institution
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(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Punalkulam, Near Thanjavur, Pudukkottai District - 615505

INSTITUTION'S INNOVATION COUNCIL

INVITATION
The Management, Principal, Staff & Students of Kings College of Engineering
Cordially Invite you to the
International Webinar on Innovative Teaching Methodologies
Organized by
Internal Quality Assurance Cell (IQAC)
In Association with
Institute Innovation Council (IIC)
Research & Development Cell (R&D)
on 10/07/2020 | 10.30 a.m. to 12.00 noon
Resource Person



Dr. Jai Ragnathan
Co-Ordinator of Programs
School of Ocean Technology
Marine Institute
Memorial University of Newfoundland,
CANADA
All are Invited

WEBINAR SAMPLE CERTIFICATE



The certificate features logos for IQAC, Kings College of Engineering, and Institution's Innovation Council. The text is centered and uses various colors and bold fonts to highlight key information.

IQAC **KINGS** COLLEGE OF ENGINEERING
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(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Punalkulam, Near Thanjavur, Pudukkottai District - 615505

INSTITUTION'S INNOVATION COUNCIL

CERTIFICATE OF PARTICIPATION

This is to certify that **Mr./Ms. ABHIRAMI.K**
of **Kings College of Engineering** has
Participated in the International Webinar on "INNOVATIVE TEACHING
METHODOLOGIES" organized by the Internal Quality Assurance Cell (IQAC), in
association with Institution's Innovation Council (IIC) and Research &
Development Cell (R&D), Kings College of Engineering, Punalkulam, on
10.07.2020

Certificate id :VGAETY-CE000288

Mr.T.PASUPATHI DRC MEMBER
Mr.R.SUNDARAMOORTHY IIC VICE PRESIDENT
Ms.K.ABHIRAMI IQAC COORDINATOR
Dr.J.ARPUTHA VIJAYA SELVI PRINCIPAL

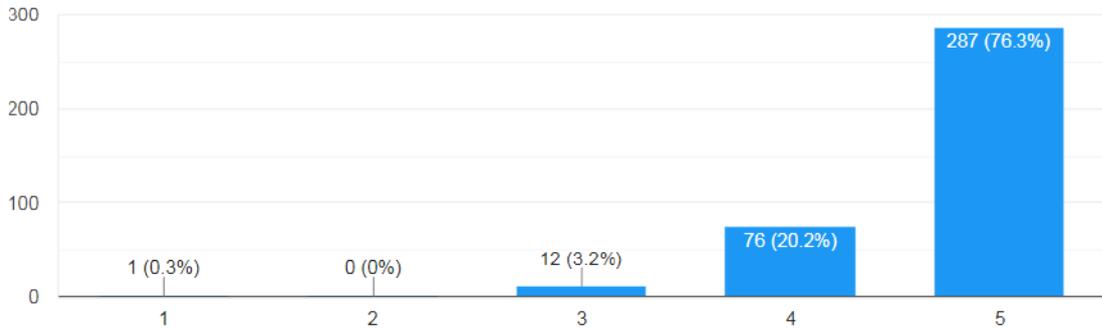
THIS IS AN ELECTRONIC GENERATED CERTIFICATE AND HENCE NO AUTHORIZED SIGNATURE REQUIRED

Faculty members from Andhra Pradesh, Andaman & Nicobar Islands, Gujarat, Haryana, Hyderabad, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Puduchery, Rajasthan, Telangana, UP, West Bengal of India and Other country participants from Oman, Malawi, Ghana attended the webinar.

WEBINAR FEEDBACK

Overall rating about the webinar (1-lowest, 5-highest)

376 responses



Would you like to join in future events

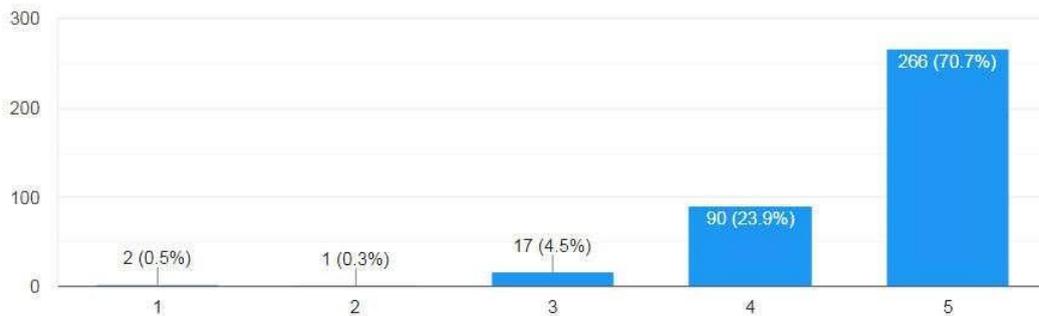
376 responses



About the webinar (5 being highest in scale)

How relevant and helpful was the session to you (1-Not so, 2-Somewhat, 3-Helpful, 4-Very helpful, 5-Extremely helpful)

376 responses



**FACULTY MEMBERS FROM THE FOLLOWING INSTITUTIONS/ UNIVERSITY
ATTENDED THE WEBINAR**

ARJ COLLEGE OF ENGINEERING	DR MGR EDUCATIONAL AND RESEARCH INSTITUTE
AVC COLLEGE OF ENGINEERING	Dr.SNS COLLEGE OF EDUCATION
AAA COLLEGE OF ENGINEERING	ER.PERUMALMANIMEKALAI COLLEGE OF ENGINEERING
ADI SHANKARA INSTITUTE OF ENGINEERING	FATIMA COLLEGE
ADI SHANKARA INSTITUTE OF ENGINEERING	FRANCIS XAVIER ENGINEERING COLLEGE
ADITHYA INSTITUTE OF TECHNOLOGY	GNaNAMANI COLLEGE OF TECHNOLOGY
AIMAN COLLEGE OF ARTS AND SCIENCE	GOVT ARTS COLLEGE FOR WOMEN
ALAGAPPA GOVT. ARTS COLLEGE	GOVT. ENGG. COLLEGE
AMRITA VISHWA VIDYAPEETAM	HINDUSTAN COLLEGE OF ARTS AND SCIENCE
ANNA ADHARSH COLLEGE OF WOMEN	HOLY CROSS COLLEGE
ANNAMACHARYA INSTITUTE OF TECHNOLOGY	IDHAYA COLLEGE FOR WOMEN
ANNAMALAI UNIVERSITY	IGNTU
APA COLLEGE OF ARTS AND CULTURAL	ITM
ARIFA INSTITUTE OF TECHNOLOGY	J.B.INSTITUTE OF ENGG. & TECHNOLOGY
ARUMUGAM PILLAI SETTHAI AMMAL COLLEGE	JAYALAKSHMI NARAYANASWAMI COLLEGE OF EDUCATION
AS-SALAM COLLEGE OF ENGINEERING AND TECHNOLOGY	JB INSTITUTE OF ENGG. & TECHNOLOGY
ASHOKA INSTITUTE OF ENGG. & TECHNOLOGY	JEPPIAAR INSTITUTE OF TECHNOLOGY
AVC COLLEGE OF ENGINEERING	JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN
BABU BANARASI DAS UNIVERSITY	KSR COLLEGE OF ARTS AND SCIENCE FOR WOMEN
BALAJI INSTITUTE OF ENGINEERING AND TECHNOLOGY	KSR COLLEGE OF ENGINEERING
BARATHIAR CENTENARY MEMORIAL GOVT. WOMEN'S POLY.	KAMALA INSTITUTE OF TECH. & SCIENCE
BHARATH CORPORATE	KAMARAJ COLLEGE
BHARATHIAR UNIVERSITY	KANDASWAMI KANDARS COLLEGE
BISHOP HIBER COLLEGE	KASTHURIBA COLLEGE FOR WOEMN
BON SECOURS COLLEGE FOR WOMEN	KINGS COLLEGE OF ENGINEERING
CARDOMOM PLANTERS ASSOCIATION COLLEGE	KALAIIGNARKARUNANAIDHI INSTITUTE OF TECH.
CHAUDHARY CHARAN SINGH UNIVERSITY	KONGU ARTS AND SCIENCE COLLEGE
CMR TECHNICAL CAMPUS	KUMARAGURU COLLEGE OF TECHNOLOGY
D.B. JAIN COLLEGE	KVGHS
DHANALAKSHMI SRINIVASAN INSTITUTE OF RESEARCH AND TECH.	LADY DOAK COLLEGE
DHANALAKSHMI SRINIVSAN ENGINEERING COLLEGE	LOGANATHA NARAYANASAMY GOVT COLLEGE
DHARMAPURAM GNANAMBIGAI GOVT. COLLEGE	LORD JEGANNATH COLLEGE OF EDUCATION
DHARMAPURAM ADHINAM ARTS COLLEGE	MR GOVT. ARTS COLLEGE
DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	MR GOT ARTS COLLEGE
DK INTERNATIONAL RESEARCH FOUNDATION	MAM SCHOOL OF ENGINEERING
DMI ENGINEERING COLLEGE	MSS WAKF BOARD COLLEGE
	M.V.MUTHIAH GOVT COLLEGE FOR WOMEN
	MADURAI KAMARAJ UNIVERSITY
	MADURAI SIVAKASI NARDARSPIONEER
	MEENAKSHI WOMEN COLLEGE
	MAHENDRA ENGINEERING COLLEGE

MAILAM ENGG. COLLEGE
MAM COLLEGE OF ENGG & TECH
MAR GREGORIOS COLLEGE
MINISTRY OF EDUCATION MOAMED
SATHAK ENGG. COLLEGE
MOUNT ZION COLLEGE OF ENGG. & TECH.
MTPG RESEARCH INSTITUTE
MUTHAYAMMAL ENGG. COLLEGE
NARAYANA E-TECHNO SCHOOL
NAZARETH MARGOSCHIS COLLEGE
NOVA COLLEGE OF EDUCATION
NSV DEGREE & PG COLLEGES
OPJS UNIVERSITY CHURU
PA COLLEGE OF EDUCATION
PACHAIYAPPAS COLLEGE PATTUKOTTAI
POLYTECHNIC COLLEGE PERI INSTITUTE
OF TECHNOLOGY PERIYAR CENTENARY
POLYTECHNIC COLLEGE
PKN ARTS AND SCIENCE COLLEGE
PONDICHERRY ENGG. COLLEGE
PRAGATI MAHAVIDHYALAYA PG COLLEGE
PRATHYUSHA ENGG. COLLEGE
PSG COLLEGE OF TECHNOLOGY
SRI BHUVANENDRA COLLEGE
SRI KANYAKA PARAMESWARI ARTS
& SCIENCE
SRI MANAKULA VINAYAGAR ENGG.
COLLEGESRI MEENAKSHI GOVT ARTS AND
SCIENCE COLLEGE
SRI RAMAKRISHNA INSTITUTE OF
TECHNOLOGY
SRI SAIRAM ENGINEERING COLLEGE
SRI VENKATESAPERUMAL COLLEGE OF
ENGG. SRM INSTITUTE OF SCIENCE AND
TECHNOLOGY
SRM UNIVERSITY
SSN COLLEGE OF ENGG.
ST. JOSEPHS COLLEGE OF ENGG.
ST. XAVIER COLLEGE OF EDUCATION
ST. JOSEPH COLLEGE OF ENGG.
ST. JOSEPHS COLLEGE-AUTONOMOUS
ST. THOMAS COLLEGE OF ARTS AND
SCIENCESUREYA COLLEGE OF ENGG
SYED AMMAL ENGG. COLLEGE
TAGORE GOVT COLLEGE OF EDUCATION

PSGR KRISHNAMMAL COLLEGE FOR WOMEN
PSN COLLEGE OF EDUCATION
PTMTM COLLEGE
QUEENS COLLEGE OF ARTS & SCIENCE
RMD ENGINEERING COLLEGE
RAJIV GANDHI COLLEGE OF ENGG. &
TECHNOLOGY
SR COLLEGE
ST HINDU COLLEGE
SA ENGINEERING COLLEGE
SBK COLLEGE
SACS MAVMM ENGG. COLLEGE
SAI TIRUMALA NVR ENGG. COLLEGE
SANKETIKA INSTITUTE OF TECH & SCIENCE
SARAH TUCER COLLEGE
SDM COLLEGE
SELVEM COLLEGE OF TECHNOLOGY
SETHU INSTITUTE OF TECHNOLOGY
SHASH INFOTECH
SHINAS COLLEGE OF TECHNOLOGY
SIR THEAGARAYA COLLEGE
SONA COLLEGE OF TECHNOLOGY
SOURASHTRA COLLEGE
TAMIL UNIVERSITY
TAMILNADU PHYSICAL EDUCATION AND
SPORTS
TBML COLLEGE
THE INSTITUTE OF ENGINEERS
THE KRISAR ACADEMY
THE MADURA COLLEGE
THE STANDARD FIREWORKS
RAJARATNAM COLLEGE FOR WOMEN
THIAGARAJAR COLLEGE
THIRU KOLANJI APPAR GOVT ARTS
COLLEGE UNIVERSITY INSTITUTE OF
TECHNOLOGY VEL TECH
VHSN COLLEGE
VIGNANA BHARATHI INSTITUTE
OF TECHNOLOGY
VIVA COLLEGE OF ARTS, COMMERCE
AND SCIENCE
VIVEKARNANA COLLEGE OF TECHNOLOGY FOR
WOMEN
ZAMORINS GURUVAYURAPPAN COLLEGE



ACADEMIC YEAR 2020-21 (EVEN SEMESTER)

27.04.21

Report on Webinar & Mock Audit for NBA

Kings College of Engineering, Punalkulam organized a “**Webinar & Mock Audit for NBA**” under the aegis of AICTE Margadarshan scheme by experts from its mentor institute NIT, Trichy on 23.4.2021 through virtual mode. Since Nov 2018, Under Margadarshan scheme with NIT, Trichy as the hub and mentor institute, Kings College of Engineering is accelerating various initiatives towards raising quality in technical education. Institute also has signed MoU with Siemen’s Centre of Excellence, NIT, Trichy as a part of this initiative.

Under the directions and motivations of **Dr. Mini Shaji Thomas, Director, NIT Trichy**, efforts to meet the objective of Margadarshan are made. **Dr.N.Sivakumaran, Professor and Chief Coordinator**, Department of ICE, NIT, Trichy and **Dr.G.Saravana Illango, Associate Professor and Co-coordinator**, Department of EEE is supporting the initiatives. Under this scheme Expert interactions, Faculty Development Programmes, Industrial visits and student internships, Project works were completed successfully.

Dr.M.Venkata Kirthiga, Associate.Prof/EEE, NITT, Dr.P.Raja Associate.Prof/EEE, NITT, Dr.S.Moorthi, Associate Prof/EEE, NITT were the expert members of the webinar & mock audit for NBA. **Dr.R.Rajendiran, Secretary presided over the programme, Dr.J.Arputha Vijaya Selvi, Principal offered felicitations. Dr.S.Sivakumar Vice-Principal**, HODs and faculty members participated in the programme.

Highlighting the NBA accreditation process, the expert members from NIT, Trichy shared their experiences about Outcome-Based-Education. Focusing on key areas of accreditation process, the session gave an mock audit experience to the participants. Highlighting the significance of NBA accreditation, criterion and process of NBA accreditation, key aspects to be given importance towards accreditation was insisted by the experts. As per the evaluation criteria of NBA, suggestions to enhance the quality aspects of the processes were shared by the experts during the session.

The key takeaways of the Webinar & Mock Audit for NBA are

- Establish quality conscious system to offer Outcome Based Education
- Set benchmark for processes to achieve Mission, Vision of the institute
- Higher importance to impart practical knowledge, skills, industrial interactions
- Periodical interaction with all stakeholders, review meet

Experts from NIT-T has facilitated and accelerated NBA accreditation preparedness among the participants. Webinar & Mock Audit for NBA has helped the participants with ideas to fill in gap areas to attain OBE. Suggestions to achieve set target under varying potential of entrants was also shared by the experts.

WEBINAR SNAPSHOT

The screenshot captures a Google Meet session. The central video area shows a presentation slide with the heading "Outcome Based Education". The top left corner of the meeting window indicates "Venkatakirithiga Murali is presenting". On the right side, a participant list shows several attendees, with the presenter's name at the top. Below the list are icons for mute, video off, and chat. The bottom of the window features a Windows taskbar with various application icons and a system tray showing the time as 11:37 AM on 4/23/2021.

Webinar on NBA & Mock Audit

V Venkatakirithiga Murali is presenting

Outcome Based Education (OBE)

- **Institutions adopting OBE**
 - bring changes to the curriculum by dynamically adapting to the requirements of the different stakeholders
(Precare global engineers who will have to solve problems and shoulder challenges which are not even known today!)
 - Students, Parents, Industry Personnel and Recruiters
 - all about feedback and outcomes.
 - requirement of the accreditation
(to bring the programmes comparable to global standards / practice)

Substitution has been a one of the solution to overcome the gap between the industry and building better competencies (including learning to learn and lifelong learning)

Webinar on NBA & Mock Audit

11:40 AM
4/23/2021

Webinar on NBA & Mock Audit

V Venkatakirithiga Murali is presenting

OBE addresses the following key questions

- What do you want the students to have or able to do?
- How can you best help students achieve it?
- How will you know what they have achieved it?
- How do you close the loop / feedback?
- Who are our stakeholders?
- What services do we provide?
- Do constituencies understand our objectives?
- What services, facilities and policies must be present?
- How do we measure our results?
- How do we use these results for Continuous Quality Improvement?
- Are we achieving our objectives and improving?
- Are our constituencies satisfied?

Webinar on NBA & Mock Audit

11:49 AM
4/23/2021

Webinar on NBA & Mock Audit

Venkatakirthiga Murali is presenting

Benefits of OBE for Faculty Members

- Faculty members are referred to as Change of Agents in OBE.
 - Teaching will become a far more creative and innovative career.
 - Faculty members will no longer feel the pressure of having to be the "source of all knowledge".
 - Faculty members shape the thinking and vision of students towards a course.

Participants in call:

- Abhirami K (You)
- abimalalaresi T
- agilan hari
- Anurekha Physics
- AROKIA RAJ J
- Arun Kannan

Webinar on NBA & Mock Audit

12:06 PM 4/23/2021

Webinar on NBA & Mock Audit

Venkatakirthiga Murali is presenting

Administrative System for Implementation of OBE

- Course Coordinator
- Module Coordinator
- Programme Coordinator
- Programme Assessment Committee
- Department Advisory Board
- Internal Quality Assurance Cell (IQAC)

Participants in call:

- D.Vennila, ECE and 50 more
- j
- R
- D
- S
- Venkatakirthiga Murali

Webinar on NBA & Mock Audit

12:16 PM 4/23/2021

Webinar on NBA & Mock Audit

Venkatakirthiga Murali is presenting

Evaluation Criteria

Criterion 1:

Vision, Mission and Program Educational Objectives (60)

- Statement of Vision and Mission – (5)
- Statement of PEOs – (5)
- Dissemination of the above – (10)
- Process for defining the above – (25)
- Consistency of PEOs with Mission and Vision – (15)

Participants: narasimman p, Venkatakirthiga Murali, Melwin J Sridhar M, Raja P

Webinar on NBA & Mock Audit

12:34 PM 4/23/2021

Webinar on NBA & Mock Audit

Venkatakirthiga Murali is presenting

Evaluation Criteria

Criterion 9:

Student support system (50)

- Mentoring system to help at individual level – (05)
- Feedback analysis and reward – (10)
- Feedback on facilities – (05)
- Self learning – (05)
- Career guidance, placement and training - (10)
- Entrepreneurship cell - (05)
- Co-curricular and extr-curricular activities – (10)

Participants: Raja P, Venkatakirthiga Murali, Melwin J Sridhar M, Dr. G.SHANKARAKALIDOSS

Webinar on NBA & Mock Audit

1:03 PM 4/23/2021

Webinar on NBA & Mock Audit

67

You 12:20
Sure sir we will do as you mentioned

Dr. Arputhavijaya Selvi 12:20
yes sir.

Dr. Arputhavijaya Selvi 12:49
Suggestions to set levels for Target attainment as Students' potential varies.

You 12:59
We are following BT level based Internal assessments.

Send a message to everyone

Webinar on NBA & Mock Audit

1:08 PM
4/23/2021

Webinar on NBA & Mock Audit

67

Add people

IN CALL

- Abhirami K (You)
- abimalalanasi T
- agilan hari
- Anurekha Physics
- AROKIA RAJ.J
- Arun Kannan

Webinar on NBA & Mock Audit

1:09 PM
4/23/2021

Webinar on NBA & Mock Audit

66

Add people

IN CALL

- Abhirami K (You)
- abimalalaresi T
- agilan hari
- Anuradha Physics
- AROKIA RAJ J
- Arun Kannan

Webinar on NBA & Mock Audit

1:12 PM 4/23/2021

Webinar on NBA & Mock Audit

65

Add people

IN CALL

- Abhirami K (You)
- abimalalaresi T
- agilan hari
- Anuradha Physics
- AROKIA RAJ J
- Arun Kannan

Raja P is presenting

Pasupathi T has left the meeting

Webinar on NBA & Mock Audit

Raja P is presenting

1:25 PM 4/23/2021

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graph TD
    A[Apply for Accreditation of Programs  
Step 1. Fill and Submit SAT, Step 2. Submit the Balance PDF, Step 3. Submit Visit dates] --> B{Whether program satisfies essential pre-qualifier program}
    B -- Yes --> C[Step 1. Fill and Submit SAT, Step 2. Submit the Balance PDF, Step 3. Submit Visit dates]
    B -- No --> D[Program is not processed further for accreditation and shortcomings are being communicated to the institution.]
  
```

Webinar on NBA & Mock Audit

(70)

Add people

IN CALL

- Abhirami K (You)
- Abhirami K
- abimalisarasj T
- agilan hari
- AROKIA RAJ J
- Arun Kannan

Webinar on NBA & Mock Audit

Microphone, Camera, and Screen sharing icons.

Present now



ACADEMIC YEAR 2020-21 (EVEN SEMESTER)

20.04.21

**WEBINAR report
“Create Your Own Future through Innovation”**

MoE, IIC & IEEE STB jointly organized webinar titled **“Create Your Own Future through Innovation”** on **17.04.21** between **11.30am and 1.00pm** through online mode. Final year students from all branches and staff members attended the session.

With the objective of imparting the significance of **“Innovation- a driving factor for being successful in life”**, the webinar was organized. Supritha.C, IV year CSE student welcomed the gathering and Shiny Roja.F, IV year CSE introduced the resource person. **Dr.J.Arputha Vijaya Selvi, Principal** felicitated the programme.

Mr.Amirtha Ganesh.K, Director of Armada Industrial Automation & Partner, Three Dots Innovation was the resource person for the session. Mr.Armirth Ganesh is an Alumni of KCE and is an entrepreneur since 2009. He is an Development Executive in TCIL IT, Govt. of India, Pondicherry, Automation Trainee in TCIL IT Govt. of India, Trichy, District Coordinator (Thanjavur) for Rural Education System from BSS Govt. of India.

With the introduction of technology for the use of common man, multi-faceted role of engineers, gradually with proven innovative model illustration, the webinar triggered young minds to engage in such efforts. Women safety based innovative model, e-waste management model, milk vendor support model etc were few models illustrated during the session. Opportunities for engineers through innovative implications were elaborated in detail. Innovation recognition and student project work awards from TNSCST, DRDO, AICTE was detailed during the session. Session also covered support provided by government and banking sectors to promote entrepreneurship.

Key takeaway of the webinar includes

- Innovative models and adaptation to technologies to solve real world problems are need of the hour
- Entrepreneurship will significantly contribute to the growth of individual, society and nation as a whole

Ms.K.Abhirami, AP/CSE, Mr.Niranjan Samuel, JRF/R&D coordinated the webinar session. Mr.R.Balakrishnan, Convener IIC, Mr.R.Sundaramoorthi, Vice-President, IIC supported the initiative. Session feedback was recorded through google form based posting from participants. A.Sarika delivered Vote of Thanks for the session.

Programme was live telecasted at Kings youtube channel.
<https://www.youtube.com/watch?v=4AWlf84sfvI>

KINGS COLLEGE OF ENGINEERING Webinar on Create your Own Future through Innovation

CHILD RESCUE SYSTEM FROM BORE WELL

20th year of Academic Excellence
SEEK*STRIVE*SUCCEED

Organized by MoE - ICC & IEEE STB

Automation, Thanjavur, Mr. K. Amirthaganesh, Managing Partner, Three Dots Innovator

Kings College of Engineering

Create your own Future through Innovation

191 views • Streamed live on 17 Apr 2021

12 0 SHARE SAVE ...

Top chat replay

- 7/36 / III - ECE
- T. sheela 28 T. sheela/28
- Kawya Annadurai good afternoon
- S. Santosh Kumar Santosh kumar S_CSE IV
- 19_CSE_Nancy Priya A. Nancy Priya...final yr CSE
- P. Preetha B preetha final cse
- 28_SHALINI.A IV-CSE shalini A
- Kaartah_Mystery A. Karthik IV CSE
- 26_Nivethitha.S S.NIVETHITHA II ECE
- 21_CSE_Pooja Ezhilkumaran Pooja.E...Final CSE
- 17_CSE_Keerthana B B. Keerthana final CSE
- Abhirami K Technology for the use of common man - mapping with innovation is good
- Love me Babe B. Tharik Salman... Final CSE 🙏
- 😊
- Shiny Roja Good afternoon 😊 Shiny Roja IV - CSE
- Shiyamala R Shiyamala R, IV CSE



ACADEMIC YEAR 2020-21 (ODD SEMESTER)

11.12.20

INTERNAL QUALITY ASSURANCE CELL

REPORT ON HANDS-ON SESSION ON

“VIDEO CREATION AND YOUTUBE STANDARD”

Internal Quality Assurance Cell organized Hands-on session titled “Video creation & Youtube standard” on 09.12.20 between 11.30am and 12.45pm. Mr.M.Aswin, Assistant Professor, Mechanical Department handled the session.

Coverage included creation of Lecture Video sessions, tips to be followed etc. PC stream as well as android stream based tools/ apps suitable for video creation was highlighted during the session. Voice over screen recording feature was highlighted. Free apps and tools was listed during the presentation. Using Powerpoint slide transition effect, creation of video with suitable effects was demonstrated. Also, for problem based subjects inclusion of symbols, equations was highlighted.

Compact storage options, sharing videos, streaming video features was also explained during the session. Tips for Youtube streaming was also shared. HoDs and faculty members from all departments attended the session.

SESSION SCREENSHOT



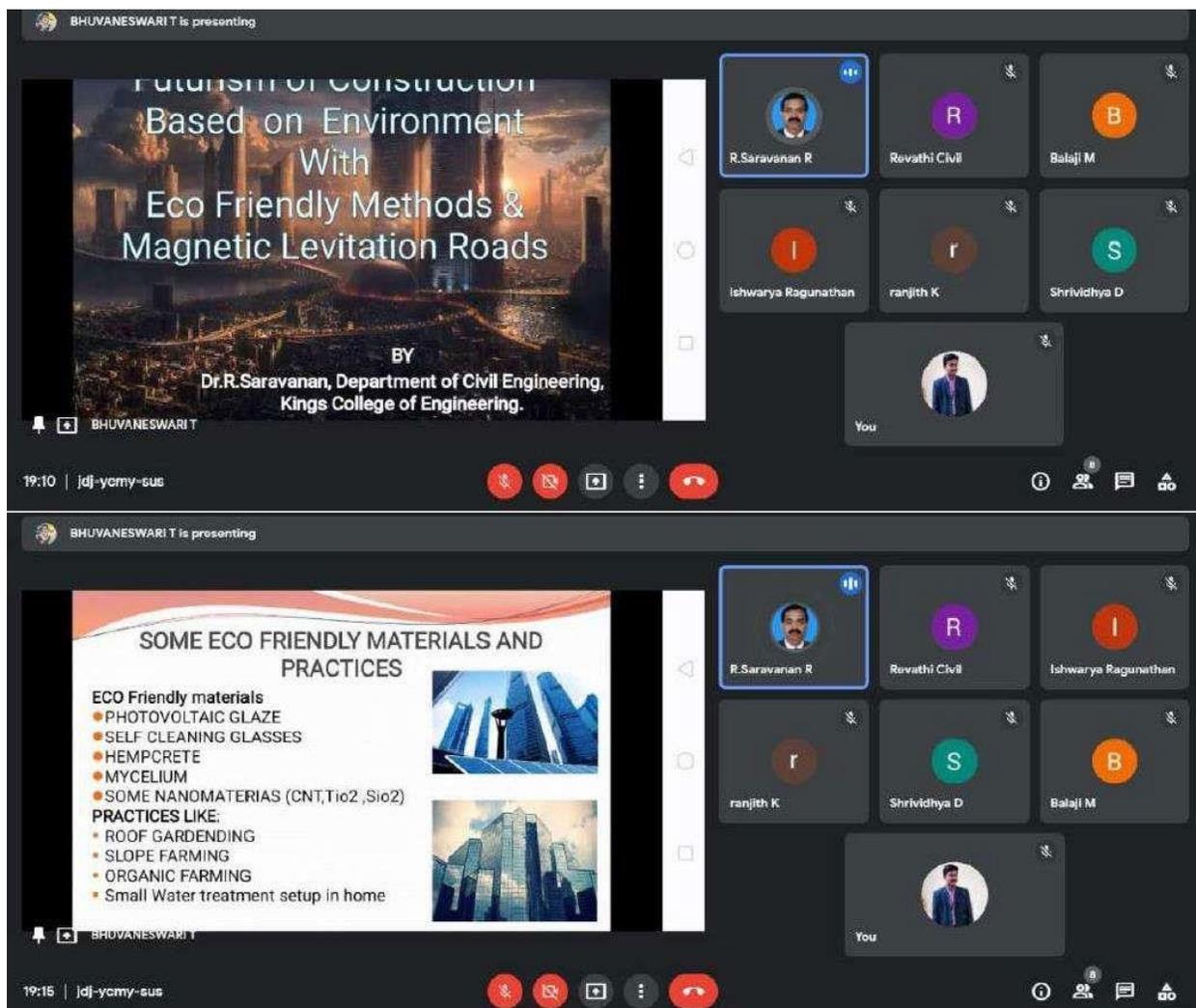
VIEW OF PARTICIPANTS





**DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020 – 21 (EVEN SEM)
INTERNAL STAFF WEBINAR – 24.06.2021**

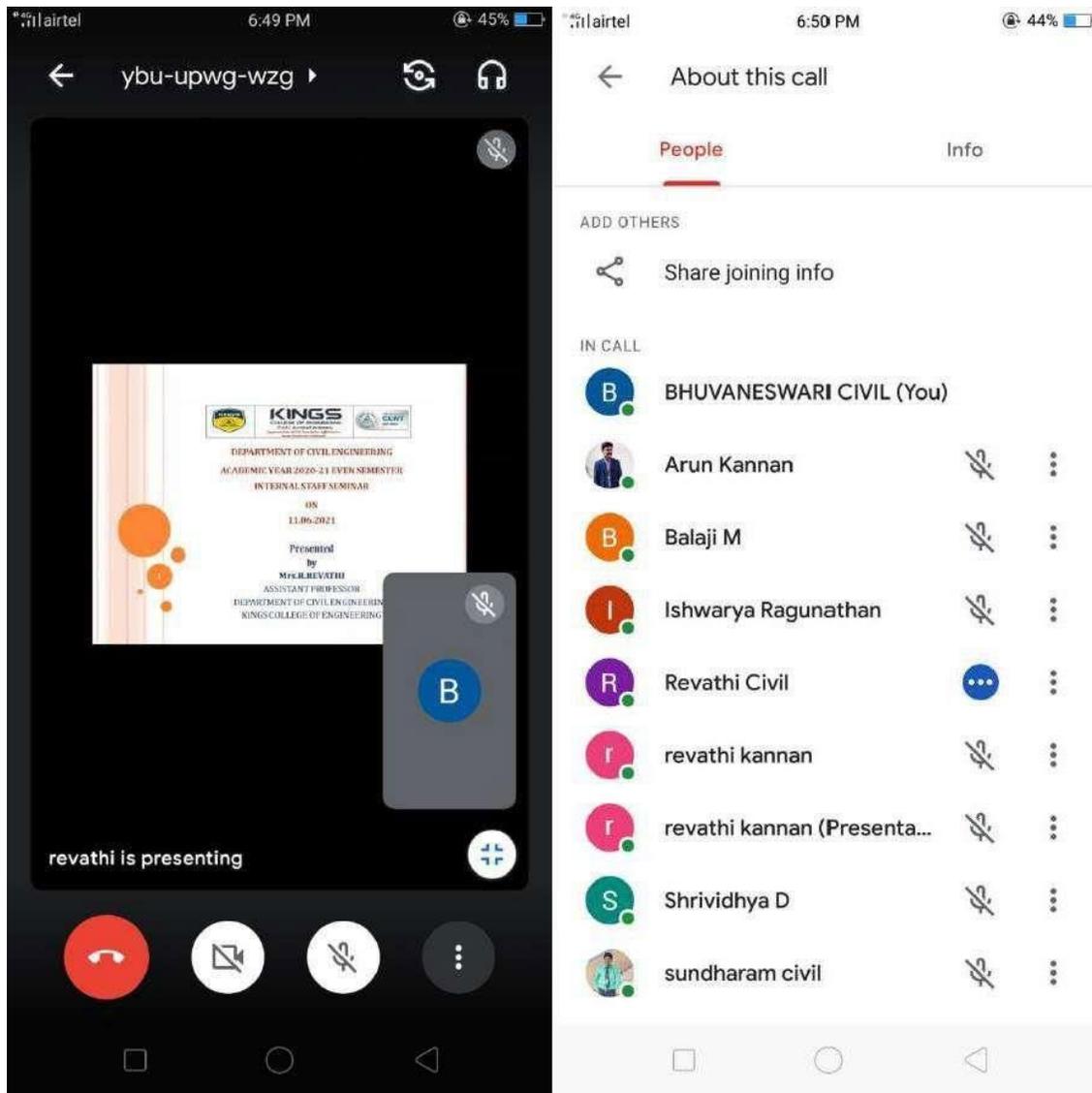
Ms.T.Bhuvaneshwari, Assistant Professor, Department of Civil Engineering organized an Internal staff webinar on 24.06.2021 through google meet. Ms.R.Revathi, HoD /Civil, welcomed the faculty members. **Dr.R.Saravanan/Prof** delivered the webinar on **“Futurism of construction based on Environment with eco friendly methods & Magnetic Levitation roads”**. In his webinar he briefed about the various eco friendly materials and nanotechnology research and development.





**DEPARTMENT OF CIVIL ENGINEERING ACADEMIC
YEAR 2020 – 21 (EVEN SEM) INTERNAL STAFF
WEBINAR – 11.06.2021**

Ms.T.Bhuvaneshwari, Assistant Professor, Department of Civil Engineering organized an Internal staff webinar on 11.06.2021 through google meet. Ms.V.Ishwarya , welcomed the faculty members. **Ms.R.Revathi**, HoD /Civil delivered the webinar on **“Durability properties of concrete made from agricultural waste”**. In her webinar she briefed about the various new durability test methods and suggested to implement those test for our students project.





DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021/EVEN
INTERNAL STAFF SEMINAR – REPORT

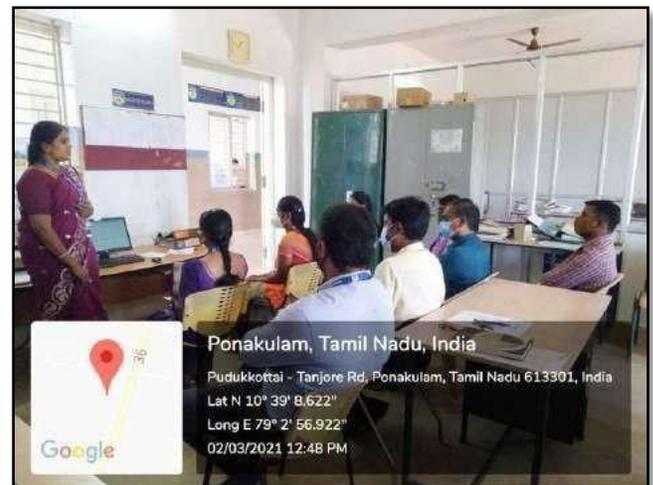
02/03/2021

Background & Objective

Department of Civil Engineering had organized an Internal Seminar for the Department staff members for accessing online journals. The purpose of this seminar is to equip the faculty in new techniques through accessing online journals (SPRINGER journal).

Seminar Session

A Seminar was held in the Department of Civil Engineering on 2nd March, 2021 at 12:45PM. The seminar was presided over by **Ms.R.Revathi, HoD.**, Department of Civil Engineering. All the faculties were present in the seminar. **Ms.D.Shrividhya/AP** delivered her seminar talk on **“Construction and Demolition Waste Management” - A REVIEW”**



Seminar talk by Ms.D.Shrividhya/AP

Theme: sustainable C&D waste management is becoming increasingly essential to protect public health and natural ecosystems. This paper proposes a conceptual C&D waste management framework to maximize the 3R (reduce, reuse and recycle) and minimize the disposal of

construction waste by implementing sustainable and comprehensive strategy throughout the lifecycle of construction. In addition, a life cycle based C&D waste sustainability index is developed. This approach can be used to make decisions related to selection of material, sorting, recycle/reuse and treatment or disposal options for C&D waste. waste management systems include waste avoidance and minimization through recycling/reusing, waste to energy options (where possible) and safe disposal and discharge.

Outcome :

The Seminar clearly highlighted the reduction and management strategies to minimize the construction and demolition waste. Staff Members also got an idea about the usage of recycled wastes in construction industry like recycled aggregate, timber, bricks, glass plastic, pipes dredging, paints and varnishes etc., This seminar proves to be very effective in such a way that, it highlighted the lifecycle assessment approach. Also this seminar provides the wide scope for managing the construction and demolition wastes into sustainable usage of resources. Finally, discussions were made among faculty members in various re-utilization of recycled construction and demolition wastes again in a construction. Staff members shared their views regarding seminar and gave their valuable feedback.



**DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021 (ODD SEMESTER)
CO-PO MAPPING - PROCESS REPORT**

Background & Objective

Outcome-based education (OBE), also known as standards-based education, is an educational theory that bases each part of an educational system around goals (outcomes). By the end of the educational programme, each student should have achieved the goal. In order to strengthen OBE practice, it is necessary to amend Course Outcome (CO) and Programme outcome (PO).

Draft Session on CO-PO Mapping

Draft session on CO-PO mapping was presented by Mr.K.Arun, IQAC member/Civil to the department staff members on 17.11.2020. In the Drafting session department Programme outcome (PO), Programme specific outcome (PSO), Programme Educational objectives (PEO), Course Outcome (CO) were summarized and CO-PO mapping was clarified to the staff members.



DRAFT SESSION 17.11.2020

CO-PO Mapping Presentation at Seminar Hall

In continuation to the draft session, Staff members were asked to prepare CO-PO Mapping, CO Attainment, Course Articulation Matrix and Assessment paper quality matrix for their corresponding subjects. Department level presentation was organized at the Seminar hall (PALLAVA HALL) on 18.11.2020. Ms.M.Priya, AP/Civil, Mr.R.Sundharam, AP/Civil & Mr.K.Arun, AP/Civil presented the CO-PO mapping for their respective subjects. The presentation was monitored by Principal, Vice Principal, Hod's of various departments and IQAC coordinator. Suggestions and Feedback were given by the expert members for the betterment of the CO-PO Mapping.



PRESENTATION AT PALLAVA HALL ON 18.11.2020

CO-PO Mapping Presentation at Department

Form the feedback and suggestions given by Principal, Vice Principal, Hod's and IQAC coordinator changes were made in the CO-Po mapping and again department level presentation were done by staff members for their corresponding subjects.





CO-PO MAPPING PRESENTATION AT DEPARTMENT

Outcomes

The staff members got a clear overview of Programme outcome (PO), Programme specific outcome (PSO), Programme Educational objectives (PEO), Course Outcome (CO) and the importance of proper CO-PO Mapping for obtaining OBE.



**DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021 (EVEN SEMESTER)
INTERNAL SEMINAR - REPORT**

Background & Objective:

Outcome-based education (OBE), also known as standards-based education, is an educational theory that bases each part of an educational system around goals (outcomes). Already we are following OBE in our educational practices. In order to practice OBE efficiently, an internal seminar to students was conducted by Department of CIVIL Engineering on **01.03.2021** at IT Block Seminar hall by 01:15 PM.

Briefing on Institution & Department Vision, Mission:

Ms.R.Revathi, HoD/Civil, narrated the Vision & Mission of KINGS COLLEGE OF ENGINEERING. In addition she also explained the Vision & Mission of DEPARTMENT OF CIVIL ENGINEERING. She also described about the purpose of Vision & Mission and how it can be achieved through OBE.



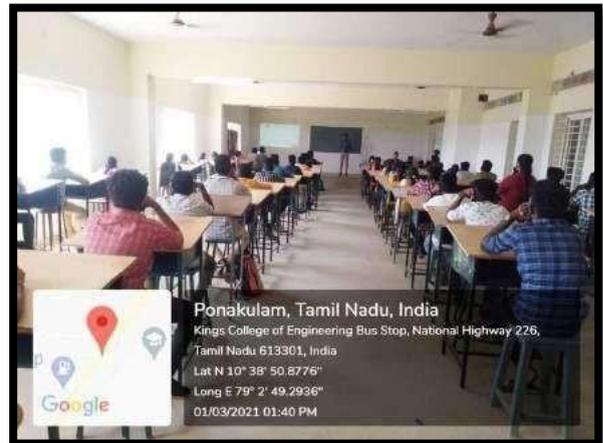
Briefing on Institution & Department Vision, Mission by Ms.R.Revathi, HoD/Civil

CO-PO-PSO-PEO:

The session was continued by **Mr.K.Arun, IQAC Member/Civil**. He listed out the Course outcome (CO), Programme outcome (PO), Programme specific outcome (PSO) and Programme Educational Objective (PEO) for the department of Civil Engineering. He also detailed about the difference between Course outcome and Programme outcome, and how PSO and PEO can be attained for a specific Programme. CO for a particular subject was also explained for better understanding of the students.



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 Rd, Ponakulam, Tamil Nadu 613301, India
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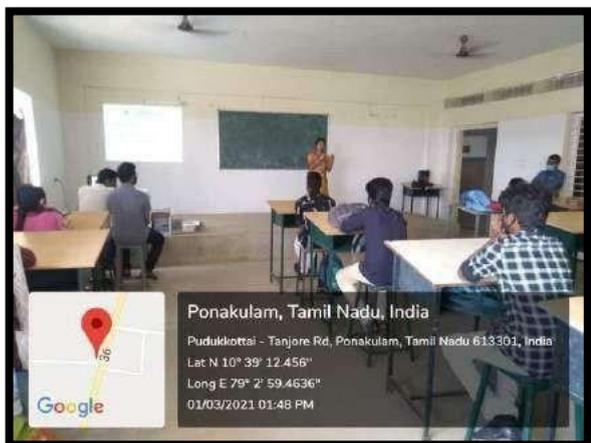


Ponakulam, Tamil Nadu, India
 Kings College of Engineering Bus Stop, National Highway 226,
 Tamil Nadu 613301, India
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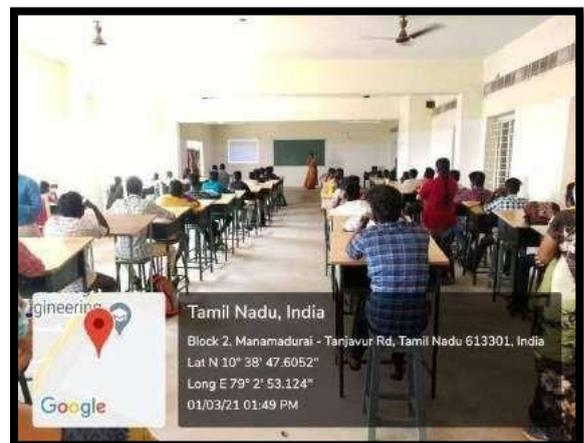
Briefing on CO-PO-PSO-PEO by Mr.K.Arun, IQAC Member/Civil.

BLOOMS TAXONOMY (BT):

The session was next followed by **Ms.T.Bhuvaneswari, PAC Member/Civil.** She presented about the 6 levels of BLOOMS TAXONOMY. She also detailed about, how we are implementing the Blooms Taxonomy in our Assessment examinations.



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 01/03/2021 01:48 PM



Tamil Nadu, India
 Block 2, Manamadurai - Tanjavur Rd, Tamil Nadu 613301, India
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 01/03/21 01:49 PM

Briefing on Blooms Taxonomy by Ms.T.Bhuvaneswari, PAC Member/Civil.

QB Format :



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Tamil Nadu, India
 Kings College of Engineering Bus Stop, National Highway 226,
 Tamil Nadu 613301, India
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Briefing on New QB format by Mr.R.Sundharam, Dy. CE/Civil.

Finally, the session was concluded by **Mr.R.Sundharam, Dy.CE/Civil**. He explained about our new Question bank format, which includes the Blooms Taxonomy levels and course outcome for each question.

Outcome

All the II, III & IV Yr students and staff members from department of Civil Engineering were benefited by the internal seminar. Students gained clear view about our OBE practices and CO-PO-PSO-PEO. Students were motivated for achieving the Vision and Mission through OBE. In addition Blooms Taxonomy implementation and new QB format were well understood by the students, which will help them in their preparation for assessments in a better manner.



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021/EVEN
INTERNAL STAFF SEMINAR – REPORT

Background & Objective

Department of Civil Engineering had organized an Internal Seminar for the Department staff members for accessing online journals (SPRINGER). The purpose of this seminar is to equip the faculty in new techniques through accessing online journals.

Seminar Session

A Seminar was held in the Department of Civil Engineering on 14 February, 2021 at 11:00AM. The seminar was presided over by **Ms.R.Revathi, HoD**, Department of Civil Engineering. All the faculties were present in the seminar. **Ms.V.Ishwarya/AP** delivered her seminar talk on "**Internet of Things based Smart Waste Bin Monitoring and Municipal Solid Waste Management System for Smart Cities.**"



Seminar talk by Mr.V.Ishwarya /AP

The themes discussed were: Smart Waste Bin Monitoring and MSW for Smart Cities.

The significant contribution of this paper:

- i. The proposed model will provide efficient, real-time and IoT-based garbage collection solutions to municipal solid waste management.
- ii. It will improve environmental quality leading to reduce health issues by delivering scheduled emergency alerts.
- iii. It will reduce the cost and provide an efficient way to use resources.
- iv. It will help in reducing the traffic congestion as well as noise due to the municipal transportation.
- v. It will reduce the man power effort of municipal management by providing effective usage of garbage bins.

Outcome

The Seminar clearly highlighted the smart techniques and method for waste collection, transporting and disposal. Staff Members also got an idea in waste collected through IoT-based system and more effective as compared to traditional methods and in terms of waste-truck route optimization and cost reduction of the system. Based on IoT, the waste will be collected on time that reduces the pollution ratio in the environment in order to save people from many diseases. Finally, discussions were made among faculties on advanced techniques for bin management. Staff members shared their views regarding seminar and gave their feedback.



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021/EVEN
INTERNAL STAFF SEMINAR – REPORT

11/02/2021

Background & Objective

Department of Civil Engineering had organized an Internal Seminar for the Department staff members for accessing online journals (MAT). The purpose of this seminar is to equip the faculty in new techniques through accessing online journals.

Seminar Session

A Seminar was held in the Department of Civil Engineering on 11th February, 2021 at 11:30AM. The seminar was presided over by **Ms.R.Revathi, HoD**, Department of Civil Engineering **Mr.K.Ranjith /AP** delivered his seminar talk on "**Analysis of plain Concrete pavement in ANSYS and "Analysis of compressive strength of concrete using different Sulphonated Naphthalene Polymer based admixtures"**."



Seminar talk by Mr.K.Ranjith /AP

The themes discussed were: ANSYS, Super plasticizers, ready mix concrete, pre-stressed concrete.. pumped Concrete Sulfonated Naphthalene Polymer base.

The significant points of the paper:

- From the paper it is very clear that the finite element modeling for concrete pavement is very essential. ANSYS 11.0 is very good tool and the results obtained are the contours of stress, strain and forces.
- The deformed shapes are also visible. The stresses and strains in terms of different colors are also visible.
- The test of compressive strength of concrete for SNP (Master Rheobuild 623) shows that, as the water cement ratio increases the strength of the concrete declines.
- Using this super plasticizer in concrete, the highest values are obtained for the lowest water cement ratio and this is about 4200 psi.
- The same thing is also happened for SNP (Con-Lub) and SNP (Master Rheobuild 1100) that when the water cement ratio increases the strength of concrete decreases.
- The highest value of compressive stress for SNP (Con-Lub) is obtained at 28 days for 0.30 w/c ratio is closer to 4400 psi and for SNP (Master Rheobuild 1100) the highest value is obtained at 28 days for 0.30 w/c ratio is closer to 4400 psi.

Outcome

The Seminar highlighted the new method to solve complex elasticity and structural analysis problems in civil and aeronautical engineering. The finite element method is a numerical procedure that can be applied to obtain approximate solutions to a variety of problems in engineering. There are many ways to reduce permeability of concrete. The most economical way is reducing the water / cement ratio. The results have shown substantial improvement in the properties of concrete after use of the admixtures. Finally, discussions were made among faculties on advanced techniques in ANSYS. Staff members shared their views in ANSYS software and shared their suggestions.



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021/EVEN
INTERNAL STAFF SEMINAR – REPORT

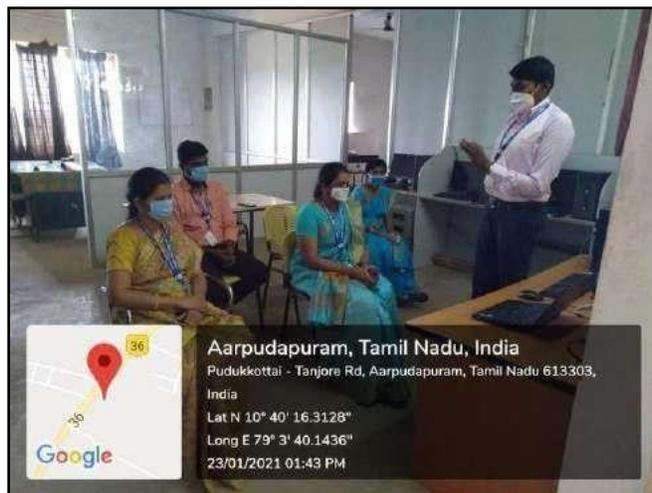
23/01/2021

Background & Objective

Department of Civil Engineering had organized an Internal staff Seminar for the staff members for accessing online journals (Springer). The purpose of this seminar is to equip the faculty in new techniques through accessing online journals.

Seminar Session

A Seminar was held in the Department of Civil Engineering on 23rd January, 2021 at 01:15PM. The seminar was presided over by **Ms.R.Revathi, HoD.**, Department of Civil Engineering. All the faculties were present in the seminar. **Mr.R.Sundharam/AP** delivered his seminar talk on “**SEISMIC PERFORMANCE OF EXISTING WATER TANK AFTER CONDITION RANKING USING NON-DESTRUCTIVE TESTING**”



Seminar talk by Mr.R.Sundharam /AP

The themes discussed were: Seismic diagnosis and seismic retrofit for the existing tanks. DER, i.e., degree (*D*), extent (*E*) and relevancy (*R*) rating technique was employed to find out the condition

index of the elevated service reservoir (ESR). The ranking assessment of the elevated service reservoir was carried out using different non-destructive tests (NDTs). Numerous techniques have been originated and applied to improve the seismic behavior of these structures. Among all the natural disasters, earthquakes, being the most destructive and affecting structures, have also created a need to raise the current safety levels in structures. As per the recommendations of the prevalent codes, several existing structures were analyzed, designed and detailed. To make existing weak structures safe against future natural forces and possible earthquakes, retrofitting is one of the best options. In this research work, retrofitting techniques used are diagonal braces as a retrofitting system, FRP as a newly emerging material, and damper as technology.

Outcome

The Seminar obviously underlined the seismic vulnerability of the existing structures and the assessment of the elevated service reservoirs using non-destructive tests. The merits and demerits of the structure under seismic activity were discussed. Also the DER rating techniques used to find out the condition ranking of ESR and safety evaluation for rehabilitation or reconstruction, increasing the base shear of the structures using bracing, damper and FRP were also presented. At the end of seminar, discussions were done among the faculty members in various retrofitting techniques for different structures. Staff members shared their views regarding seminar and gave their feedback.



DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021/EVEN
INTERNAL STAFF SEMINAR – REPORT

12/01/2021

Background & Objective

Department of Civil Engineering had organized an Internal Seminar for the Department staff members for accessing online journals. The purpose of this seminar is to equip the faculty in new techniques through accessing online journals.

Seminar Session

A Seminar was held in the Department of Civil Engineering on 12th January, 2021 at 01:00PM. The seminar was presided over by **Ms.R.Revathi, HoD**, Department of Civil Engineering. All the faculties were present in the seminar. **Ms.T.Bhuvaneshwari/AP** delivered her seminar talk on “Experimental Verification of Modal Identification of a High-rise Building Using Independent Component Analysis”.



Seminar talk by Ms.T.Bhuvaneshwari/AP

The themes discussed were: ICA method, a novel method for identification of the modal parameters from the decomposed modal responses, Blind Source Separation techniques, robust

mathematical model and so on. The study aims to experimentally validate the blind source separation using ICA method and propose a novel method for identification of the modal parameters from the decomposed modal responses. Based on the robust mathematical model, ICA can calculate the natural frequency and damping ratio effectively using the probability distribution function of the instantaneous natural frequency determined by Hilbert transform of the decomposed modal responses and the change in the output covariance. The mode shapes obtained by ICA method agree with those by the analytical and peak picking methods. Advantage of using ICA is verified by reversing the separate modes obtained by ICA. The restoring of the outcome of ICA results in the original output signal without any deterioration in the data quality.

Outcome

The Seminar clearly highlighted the new techniques and method to validate the parameters. Staff Members also got an idea in the validity of the proposed method which paves the way for more effective output-only modal identification for assessment of existing steel-concrete buildings. The ICA and Hilbert transform-based scheme can identify explicitly modal parameters of existing buildings. Finally, discussions were made among faculties in various new techniques. Staff members share their views regarding seminar and gave their feedback.



**DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR
2020-2021 (ODD SEMESTER) BLOOMS TAXONOMY
SEMINAR REPORT**

Date: 08.12.2020

Time: 03:15 – 04:00 PM

Background & Objective

Internal Quality Assurance Cell & Department of Civil Engineering had organized, Internal Seminar on BLOOMS TAXONOMY for the Department staff members for better understanding of the BT process.

Seminar Session

A seminar was organized on 08th December 2020 at the Department of Civil Engineering. **Ms.T.BHUVANESWARI**, PAC member/Civil delivered the seminar on BLOOMS TAXONOMY. Since we are already following BLOOMS TAXONOMY in our Assessment Examinations, she clarified about the revisions made in the Blooms taxonomy. She also mentioned the effectiveness of using BT in Assessment Examinations which will be reflected in the Learning outcome. Finally she concluded her seminar with appropriate examples for all the VI Levels.



BT SEMINAR SESSION

Outcome

The Seminar clearly highlighted the impact of BLOOMS TAXONOMY in our Assessment exams. Staff Members also got a clear picture about various levels of BT and its usage.



ACADEMIC YEAR 2020-21 (ODD SEMESTER)

09.12.20

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INTERNAL SEMINAR ON “BLOOM’S TAXONOMY” - REPORT

Internal Staff seminar on “Bloom’s Taxonomy” was organized on 08.12.20 between noon to 1.00pm. Ms.K.Abhirami, IQAC Coordinator elaborated on the BT framework. All CSE staff members attended the session.

Importance of Planning by faculty right from Curriculum implementation, appropriate teaching methodologies and assessment approaches and their relation with BT action verbs were covered.

Need for concentrating on Higher Order Thinking Skills (HOTS) among students, promoting creativity was insisted. Applying and Creative level differences was highlighted during the session.

For all level, commonly used action verbs were highlighted, verbs that needs attention while it is used was also explained. Example questions for all levels were shared during the session.





ACADEMIC YEAR 2020-21 (ODD SEMESTER)

17.12.20

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PROCESS REPORT ON OBE IMPLEMENTATION**

Strengthening CO attainment analysis and Outcome based education, series of meetings were planned and held at department level and institute level. IQAC member of the department and Programme Advisory Committee member of the department coordinated the process of freezing the Course Articulation Matrix, Course Outcome Alignment Matrix(COAM) for courses, Course Assessment Plan (CAP), Assessment Paper Quality matrix for courses (ODD semester).

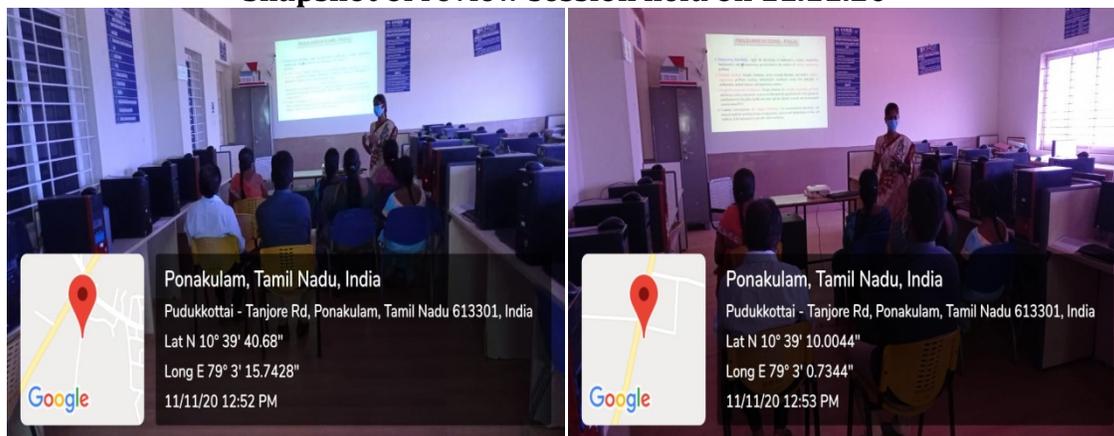
In continuation to the OBE presentation made on 5.10.20 and 27.10.20, series of department level presentation sessions and staff review sessions were planned during Nov-Dec'20. For 12 Programme outcomes, competency and performance indicator was finalized initially.

As per the circular dt.05.11.20 it was planned to derive Course articulation matrix and COAM, CAP for odd semester courses. Draft version was prepared initially and review sessions was held on difference dates. On 11.11.20 between 12.30pm-2.00pm for the draft version was presented by Ms.K.Abhirami, IQAC coordinator.

Presentation coverage

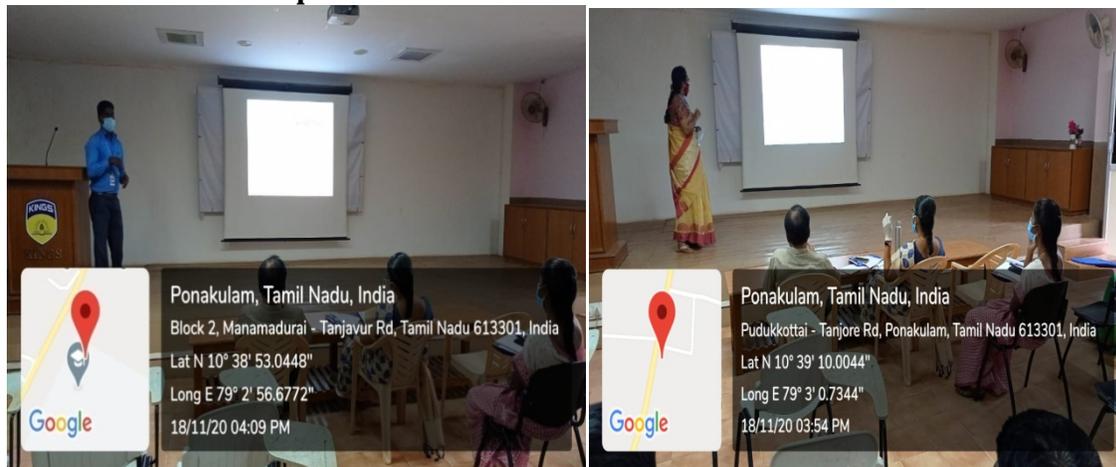
- PO-Competency, Performance Indicator
- OBE implementation steps
- Correlation level identification
- Course Articulation Matrix & justification
- CAP
- COAM
- APQM

Snapshot of review session held on 11.11.20



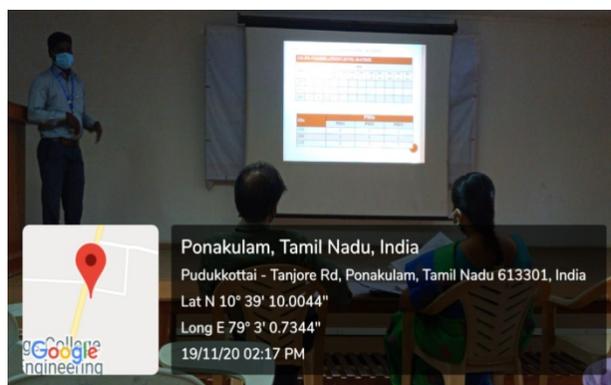
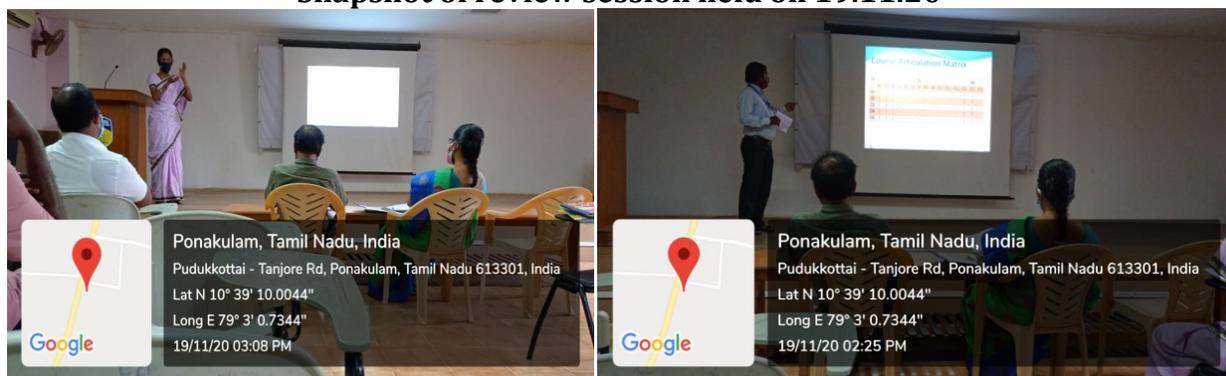
On 18.11.20, Ms.S.Puvaneswari, Mr.M.Arun, made a presentation on course articulation matrix, CAP, COAM, APQM for the course TOC and Data Structures respectively. In the presence of Principal and Vice-Principal Institute level presentation was made on the day. Recommendations and suggestions were given after deliberations. (Duration between 3.30-4.30pm)

Snapshot of review session held on 18.11.20



Institute Level presentation continued on 19.11.20 (between 2.00pm – 4.30pm). Presentation for the courses DS, CNS, WASN was made by Mr.M.Arun, Mr.S.Rajarajan and Ms.K.Abhirami on the day. Deliberations and discussion were held during the session.

Snapshot of review session held on 19.11.20



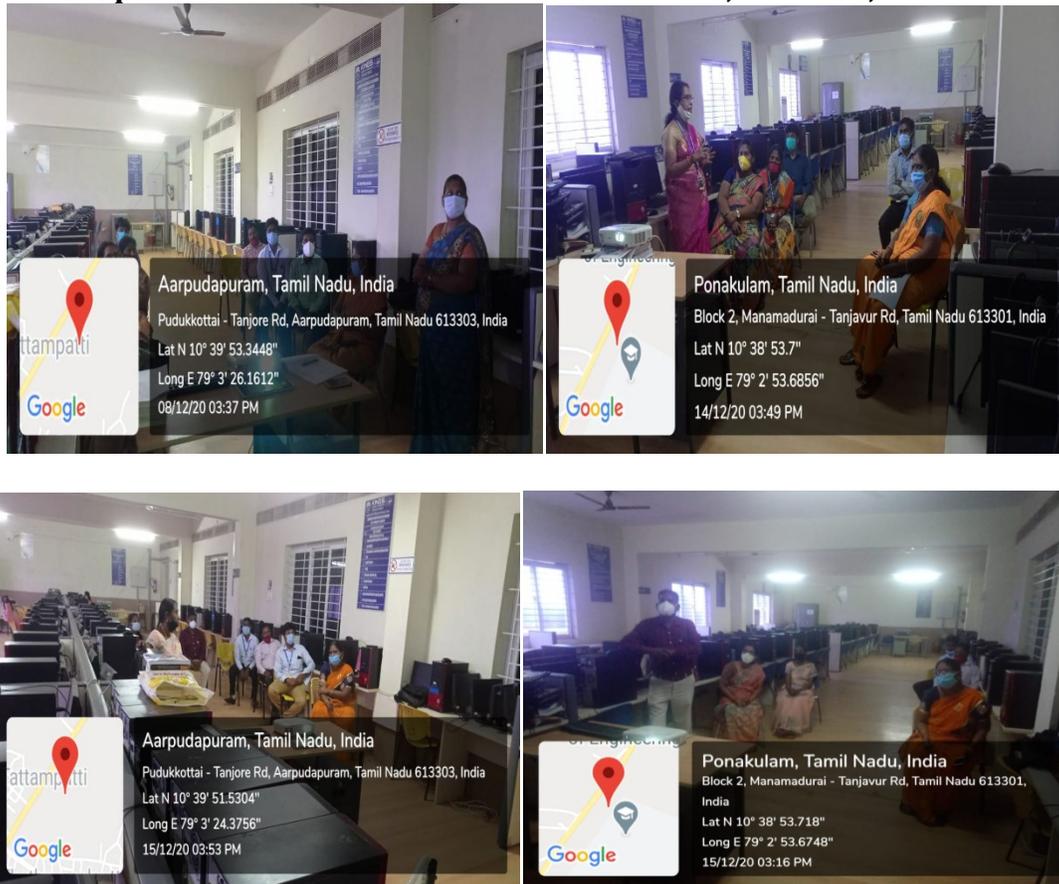
On 23.11.20 Review-II session held between 3.00-4.30pm. Faculty members made representations, suggestions on the OBE components. Coursewise aspects on performance indicator, raising teaching approaches to achieve targeted outcome was discussed. Add-on courses / Laboratory practices that can be mapped / experiential learning exercises for courses unmapped to labs was also discussed.

Snapshot of Review session-II held on 23.11.20

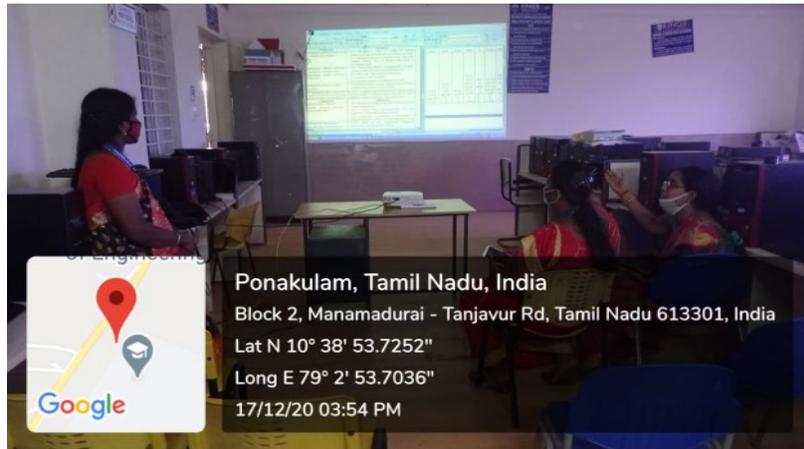


On 8.12.20, review session for the course PDD, 14.12.20 review session for the course TOC, 15.12.20 review session for the course OOPS, PSPP was held.

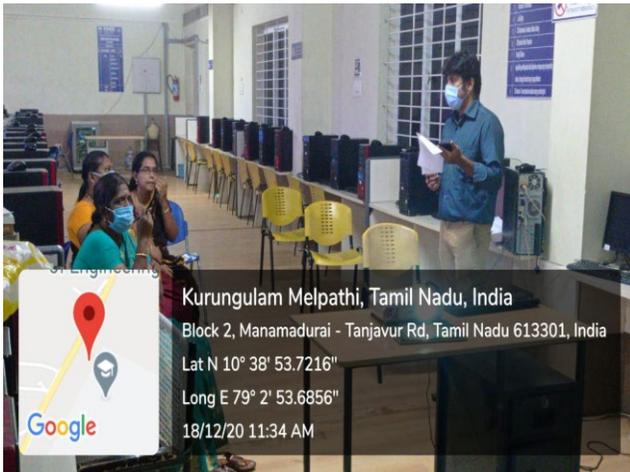
Snapshot of Review session-II held on 8.12.20, 14.12.20, 15.12.20



Presentation and review session snapshot(Dt.17.12.20)



Presentation and review session snapshot (Dt.18.12.20)

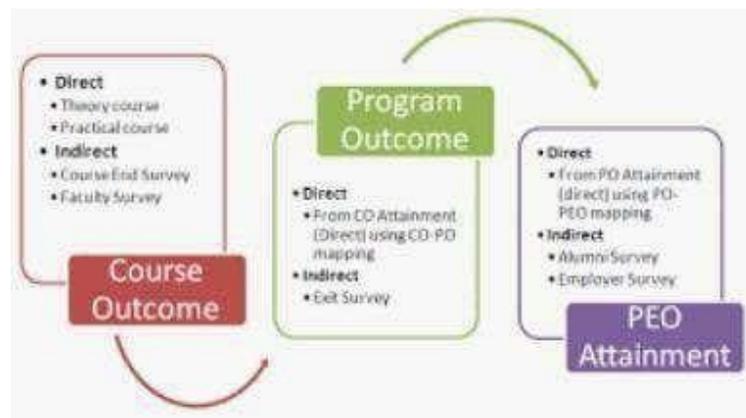


Freezing of Course Articulation matrix, CAP, COAM, Assessment paper quality matrix was made after series of discussions, review session and presentations.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2020 -2021) ODD SEM

REPORT ON CO-PO-PSO-PEO MAPPING AND IMPLEMENTATION





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2020 -2021 (ODD SEM)**

18-12-2020

REPORT ON CO-PO-PSO-PEO MAPPING AND IMPLEMENTATION

In order to strengthen the efforts towards outcome based education, Department level meeting with all the staff members was organized on 16-11-2020 (Monday) between 11.00 a.m to 12.30 p.m at HOD cabin.

Totally 16 staff members attended the session.

Mrs.N.Mangaiyarkarasi, HOD/ECE, discussed the following points during the meet.

In OBE implementation, the first step is to identify, analyze and to confirm the following formats for every regulation. (One time initiative).

1. Program Outcome – Competencies – Performance Indicators
2. Course Articulation Matrix
3. Program Articulation Matrix
4. PO-PEO-PSO attainment analysis (for every batch)

In addition to that, the course attainment analysis, PO mapping & Assessment pattern attainment process were revised by including the following in the course plan.

1. Course Assessment Plan (CAP)
2. Course Outcome Alignment Matrix (COAM)
3. Assessment Paper Quality Matrix (APQM)

Department IQAC member Mrs.D.Vennila, AP/ECE, gave the overview about the CO-PO-PSO-PEO mapping for a course. Department NAAC tack force member Mr.P.Rajapirian, AP/ECE detailed about CAP,COAM and APQM.



Finally, HOD insisted all the staff members to derive the CO-PO mapping for the subjects they have handled during the 2020-2021 odd semester.

The derived CO-PO mapping and implementation was discussed in the department level meeting with all the staff members on 18-11-2020 (Wednesday) between 02.00 p.m to 03.30 p.m at DSP Lab. Totally 16 staff members attended the session.

Department IQAC member, gave the presentation on CO-PO-PSO-PEO mapping for the subject **CS8351- Digital Principles and System Design.**



Mrs. D.Vennila, AP/ ECE presenting on CO-PO-PSO-PEO mapping

There are 12 Program Outcomes (POs) and 3 Program Specific Objectives (PSOs) and 3 Program Educational Objectives (PEOs) in the subject.

The course outcome is mapped with performance indicators and then with program outcomes. Then the CO is mapped with PSOs. Finally the **Course Articulation Matrix** is derived.



Mapping of CO with Performance Indicators.

The Review meeting with Principal, Vice Principal, IQAC Coordinator and all the staff members was organized on 20-11-2020 (Friday) between 01.30 p.m to 04.30 p.m at Pallava Hall.

All the 17 staff members attended the review meeting.

Mrs.D.Vennila,AP/ECE, Mr.R.Balakrishnan, AP/ECE, Mr.S.sivakumar, AP/ECE,

Mr.K.Sudarsanan,AP/ECE gave presentation on CO-PO-PSO-PEO mapping and implementation for their subjects.



Mrs.D.Vennila,AP/ECE, gave presentation on CS8351 – Digital Principles and System Design



Mr.R.Balakrishnan, AP/ECE presenting the CO-PO-mapping for Antennas and Microwave Engg



Mr.S.sivakumar, AP/ECE explaining the CO-PO-mapping for Electronic Circuits-I



Mr.K.Sudarsanan,AP/ECE gave presentation on CO-PO mapping for Signals and Systems

Staff members gave their views during the presentation.

Finally, some modifications and suggestions were given by the Principal, Vice Principal and IQAC coordinator. And also they insisted to correct it and finalize the final version of CO-PO mapping at department level with all the department staff members.

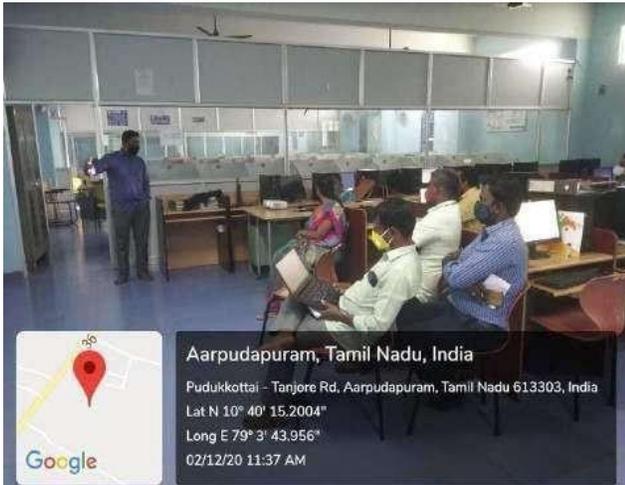
Final Department level meeting with all the staff members was organized on 02-12-2020 (Wednesday) between 11.00 a.m to 12.30 p.m at DSP Lab to finalize the final version of CO-PO-PSO-PEO mapping and implementation of CAP, COAM & APQM.



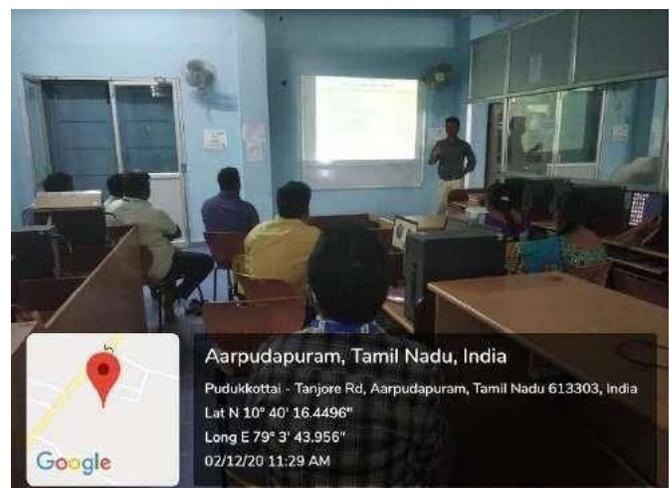
Mr.W.Newton David Raj, AP/ECE presenting the CO-PO mapping for Electronic Devices.



Mr.R.Thandayuthapani, AP/ECE presenting the CO-PO mapping for Microprocessor.



Mr.S.Sivakumar, AP/ECE presenting the CO-PO-mapping for Electronic Circuits-I



Mr.T.Pasupathi, AP/ECE presenting the CO-PO-mapping for Optical communication.

Finally, HOD asked to complete the final version of CO-PO mapping and she insisted to attach the CO-PO-PSO-PEO mapping and implementation of CAP, COAM & APQM in their respective subject course plan to get approval.

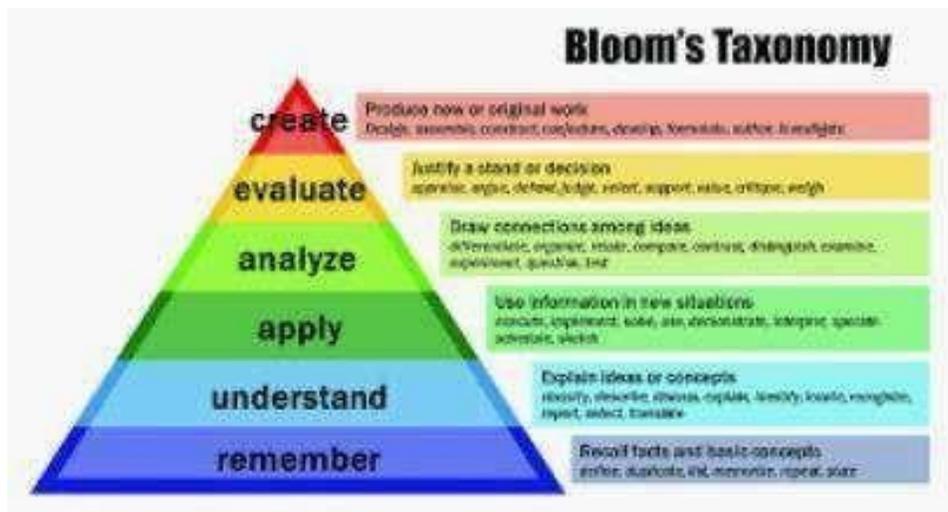


Mrs.N.Mangaiyarkarasi, HOD/ECE discussed the final version of CO-PO mapping with all the staff members.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2020 -2021) ODD SEM

REPORT
ON
INTERNAL STAFF SEMINAR
(BLOOMS TAXONOMY)
(02-12-2020)





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2020 -2021 (ODD SEM)**

04-12-2020

REPORT ON INTERNAL STAFF SEMINAR on BLOOMS TAXONOMY

In KCE, department of Electronics and Communication Engineering, has organized an internal staff seminar on “Blooms Taxonomy” for ECE faculty members on 02-12-2020 (Wednesday) in DSP lab between 10.30 a.m to 11.30 a.m.

Totally 14 staff members have enthusiastically attended the session.

The seminar mainly focuses on the various levels of Blooms Taxonomy such as Remembering, understanding, Applying, Analyzing, Evaluating and Creating and how to take question paper based on this Blooms Taxonomy.

Mrs.D.Vennila, IQAC member of ECE, explained clearly about the Question paper setting for Continuous Assessment Test and Model Exam based on the Bloom’s Taxonomy for both theory paper and problematic papers.

For a sample, one theory question paper and one problematic question paper was explained.

OR0551- Renewable Energy Sources – Theory paper.

CS 8351 – Digital Principles and System Design – Problematic Paper.

Discussions were also carried out with all the staff members for these question papers.

The clarifications regarding the questions under creative level and evaluating level, BT words were also rectified.



Mrs. D.Vennila, AP/ ECE handling the session on Blooms Taxonomy

Finally we all had an idea to set the question papers according to Blooms Taxonomy.



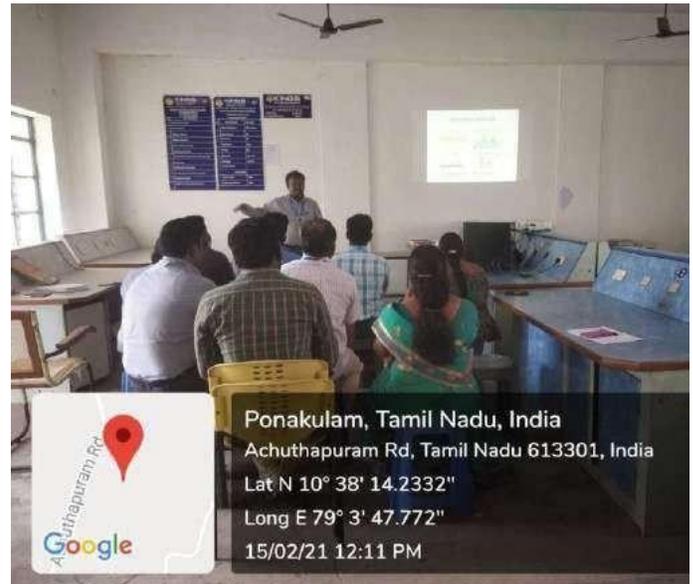
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-21(ODD SEM)

INTERNAL STAFF TECHNICAL SEMINAR

17.02.2021

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



Mr.P.Raja Pirian, AP/ECE, delivering the lecture.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2020-21(ODD SEM)
INTERNAL STAFF TECHNICAL SEMINAR

03.03.2021

Department of Electronics and Communication Engineering & IEEE Students Branch STB 16621 jointly organized a Internal Staff Technical Seminar *Internet of Things Applications for Connected Vehicles and Intelligent Transport Systems* on 02.03.2021. Mrs.N.Mangaiyarkarasi, HOD/ECE welcomed the faculties. **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.Sivakumar, AP/ECE, delivering the lecture.



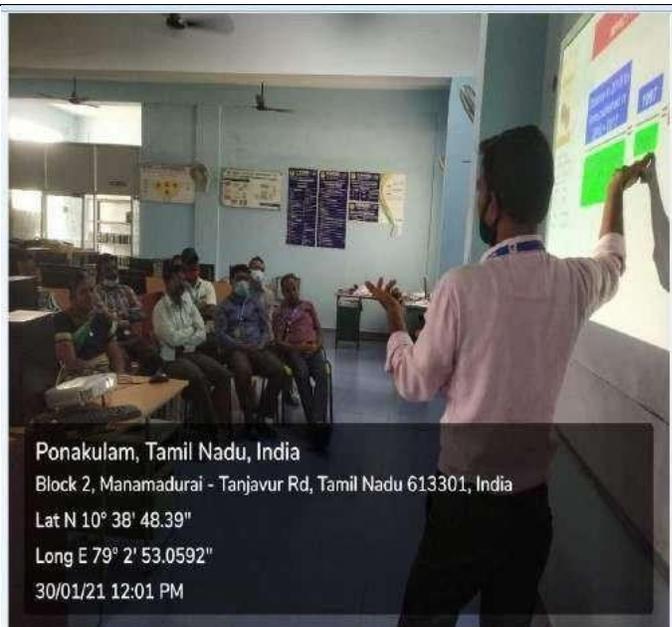
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2020-21(ODD SEM)
INTERNAL STAFF TECHNICAL SEMINAR

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).



Ponakulam, Tamil Nadu, India
Block 2, Manamadurai - Tanjavur Rd, Tamil Nadu 613301, India
Lat N 10° 38' 48.39"
Long E 79° 2' 53.0592"
30/01/21 11:39 AM



Ponakulam, Tamil Nadu, India
Block 2, Manamadurai - Tanjavur Rd, Tamil Nadu 613301, India
Lat N 10° 38' 48.39"
Long E 79° 2' 53.0592"
30/01/21 12:01 PM

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

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-21 / EVEN SEMESTER

BT level seminar Report

Date & Venue: 08/12/2020, Hall no.111

Presented by: Mr.S.R.Karthikeyan, AP/EEE

On Behalf of Department of Electrical & Electronics Engineering, Mr.S.R.Karthikeyan, AP/EEE has presented a seminar on “**Bloom’s Taxonomy Level** “with the staff members of Department of Electrical & Electronics Engineering.

In this meeting, the following points have been discussed:

- Explanation about various BT levels and their applications.
- A brief introduction to level 5 and level 6 and discussed the importance.
- Explanation about action words under various levels.
- Enlisted similarity among few words repeated in BT levels (example: ‘choose’ – This word repeats in two levels L5 and L6, but the levels vary).
- Insisted the faculty members to frame a question paper that covers all BTlevels from L1 to L6.
- Instructed the faculty members to frame the question paper with proper % in BT level



Snapshots from seminar sessions



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-21 / ODD SEMESTER

PO, PSO mapping and Process Report

Date & Venue: 21/11/2020, PALLAVA HALL

Name of the Event: Review meeting

Presented by: Staff members of Department of EEE

On Behalf of Department of EEE, faculty members of Department of Electrical & Electronics Engineering has presented their individual Course Articulation Matrix, Assessment Paper Quality Mapping, Course outcome Alignment Matrix and Course Assessment Plan in front of Respected Principal and Vice Principal.

In this meeting, the following points have been discussed:

- Presented the syllabus of EEE (Regulation 2017).
- Presented the course objective of their individual course
- A brief introduction to PO'S of the Department.
- Explanation about program indicators under various levels.
- Discussed on how the mapping made among the CO's with the Department PO's and PSO's.
- Discussed on how the CO's mapped with their Course plan.
- Explained about framing the Course Articulation Matrix (CAM), Course Assessment Plan (CAP) and Course Outcome Articulation Matrix (COAM) with various program indicators and BT levels with their justification.



Pudukkottai - Tanjore Rd, Ponakulam, Tamil Nadu 613301, India

Latitude 10.651008° Longitude 79.049145°

LOCAL 15:16:43 GMT 09:46:43 FRIDAY 11.20.2020 ALTITUDE 0 METER



Snapshots of the meeting held

Date & Venue: 11/12/2020, Hall no.111

Name of the Event: “**PO, PSO MAPPING**”, a department level presentation

Presented by: S.R.Karthikeyan, AP/EEE

On Behalf of Department of Electrical & Electronics Engineering, Mr.S.R.Karthikeyan, AP/EEE has presented a seminar on “**PO, PSO MAPPING**” with the staff members of Department of EEE.

In this meeting, the following points have been discussed:

- Explanation about various PO levels and their applications.
- A brief introduction to PSO’S and discussed the importance.
- Explanation about program indicators under various levels.

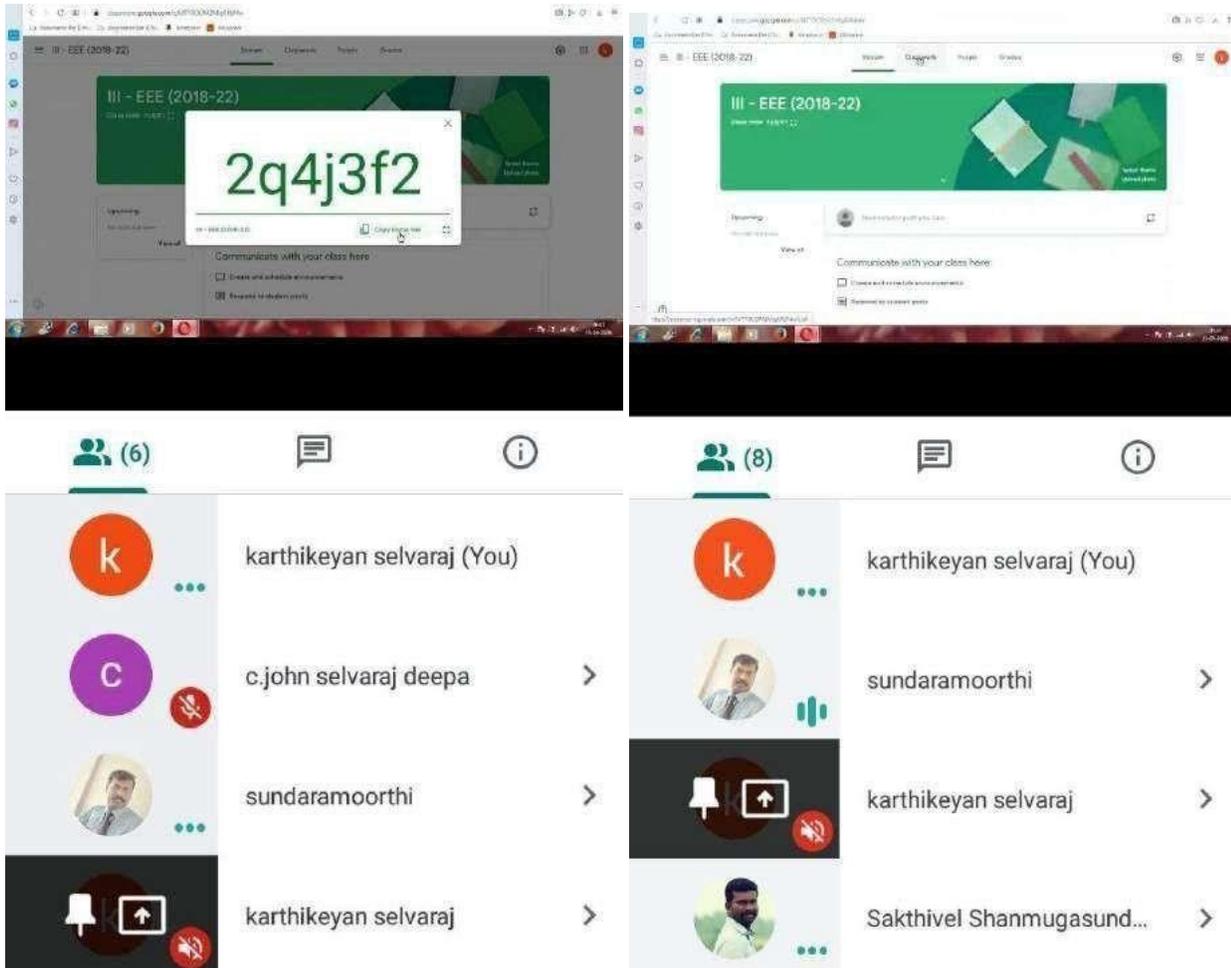
- Enlisted similarity among few sentences repeated in PI levels and clarified the justification to specific CO among them.
- Insisted the staff members to frame a question paper that covers all BT levels from L1 to L6.
- Instructed the staff members to frame the Course Articulation Matrix (CAM), Course Assessment Plan (CAP) and Course Outcome Articulation Matrix (COAM).



Snapshots from the Seminar session



**Department of Electrical & Electronics Engineering
 Academic year 2020-21 (ODD)
 Internal staff Webinar Report – Google Classroom**



Google classroom usage was discussed with the staff members of Department of Electrical & Electronics Engineering on 15/09/2020. Some of the salient features of Google Classroom were discussed in the meeting.

1. Google Classroom is easy to use. Compared to other LMS (Learning Management Systems) that have been popular over the past decade, Google Classroom is amazingly simple.

2. Google Classroom helps to communicate more efficiently. Enter the email addresses of the students just once, and classroom communication is done. Just by entering the student in the classroom, the teacher has an email group, a discussion group, and a Google Calendar automatically created. And it's easy to add and remove students from the class as necessary.

3. Google Classroom helps you to communicate more effectively. Probably more important than being easy to use and efficient, the communication tools are also very effective. Because it is all Cloud-based, there is no more "losing" of Assignments by students. If a student is absent, communication is seamless. Just last month, Google Classroom added a parent notification feature to keep parents informed about what is going on in the "classroom."

4. Google Classroom is more cost-effective and better for the environment. If every student has a device that connects to the Internet already, every sheet of paper that we save only makes the school more efficient and more environmentally responsible.



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020-21 (EVEN)**

Internal Staff Webinar on – Report

Title of the Webinar : “Gravity Based Power Generator”

Date : 19.05.2021

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

Beneficiaries : EEE Faculty Members- 8

On behalf of Department of EEE, IEEE Branch has organized Internal Seminar on “Gravity Based Power Generator” for faculty members, Department of EEE on 19.04.2021. The main objective of the internal seminar is to provide exposure to various research areas to our faculty members.

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

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

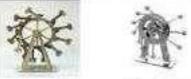
He mentioned the gravity value of various planets in solar system:

Planet	Acceleration due to gravity, “g” (m/s²)
Mercury	3.59
Venus	8.87
Earth	9.81
Moon	1.62
Mars	3.77
Jupiter	25.95
Saturn	11.08
Uranus	10.67
Neptune	14.07
Pluto	0.42

1:33 PM 4G VoLTE 46% 1:33 PM 4G VoLTE 46% 1:34 PM 4G VoLTE 46%

HISTORY OF PERPETUAL MOTION (Cont)

- Recently in 2009, two scientists from Taiwan (Chao Chao Yang, Yuh-chen Hong) have published their patent, where they have used the same principle of geometric electricity.
- And a Russian scientist Nikolai Dmitriev in January 2010, 2011 used the same principle to increase the torque of existing devices.



Device of Nikolai Dmitriev (2010) Device of Yuh-chen Hong

Density of various Planet

Planet	Acceleration due to gravity, "g" (m/s ²)
Mercury	3.7
Venus	8.87
Earth	9.81
Mars	3.8
Jupiter	23.1
Saturn	10.0
Uranus	10.5
Neptune	11.0
Pluto	0.62

Figure shows the dependence of gravity. Here it shows the variation of gravity.

Drawbacks in Utilising Renewable Energy Sources
Like Solar, Wind & Hydro

- Solar** - Solar doesn't work in night. Solar doesn't work in cloudy or foggy situations.
- Wind** - Irregularly available. Not everywhere.
- Hydro** - It requires specific geographical areas.

The above mentioned sources mainly depend on atmospheric conditions and geographical areas.

Geothermal energy - It is not continuous and independent of atmospheric conditions and geographical areas.

5

5

6

karthikeyan sr (You)

thirumagal p

karthikeyan selvaraj **NEW**

karthikeyan selvaraj

karthikeyan sr (You)

thirumagal p

karthikeyan selvaraj **NEW**

karthikeyan selvaraj

karthikeyan sr (You)

thirumagal p

karthikeyan selvaraj

AROKIA RAJ, J **NEW**



**Department of Electrical & Electronics
Engineering Academic year 2020-21 (Even)
Internal staff Webinar Report – Curriculum
Enrichment**

Date : 29.04.2021 through Google Meet. (8 – Faculty Members)

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020 – 2021 EVEN SEMESTER
CURRICULUM ENRICHMENT**
(Incorporation of Professional responsibilities (PR), Ethics, Gender Sensitization,
Environment & Sustainability into curriculum delivery)

EVEN SEMESTER COURSES

SEM	COURSE TITLE	TOPIC	ACTIVITY	COVERAGE			STAFF SIGN
				GS	PE	ES	
IV	EE8401 – Electrical Machines-II	Dismantle of Machines	Local Visit – Kings Power Room & Electrical Machines Lab			√(E)	
	EE8402 – Transmission & Distribution	Distribution Transformer	Local Visit Sub Station – Thirukanurpatti		√		
	IC8451 – Control Systems	Automation	Case Study	√		√	
	EE8412 – Technical Seminar	Any Topic	Seminar	√	√	√	
VI	EE8691 – Protection & Switchgear	Relays	Local Visit – Kings Power Room		√		
	EE8005 – Special Electrical Machines	Stepper & Servo Motor	Dismantle of Machines	√	√		

GS- Gender Sensitization
PE- Professional Ethics
ES – Environment & Sustainability

Participants: You, thirumag..., karthikey..., ARDOLA

Curriculum Enrichment was discussed with the staff members of Department of Electrical & Electronics Engineering on 29/04/2021.

Objectives of Curriculum Enrichment:

Curriculum enrichment programmes encourage students to learn through different methods as they enjoy engaging projects and activities beyond the syllabus. Enrichment programmes can incorporate topics which develops the student's' curiosity to learn something new and fun.



DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-21 / ODD SEMESTER
BT level seminar Report

Date & Venue: 08/12/2020, Hall no.203

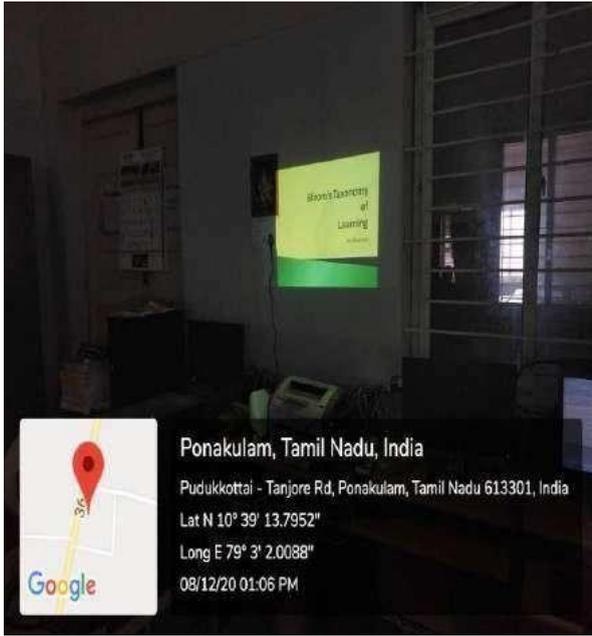
Presented by: Dr.PP.Shantharaman, Assoc. Prof/Mechanical

On Behalf of Department of Mechanical Engineering, Dr.PP.Shantharaman, Assoc.Prof/Mechanical has presented a seminar on “**Bloom Taxonomy Level** “with the staff members of Department of Mechanical Engineering.

In this meeting, the following points have been discussed:

- Explanation about various BT levels and their applications.
- A brief introduction to level 5 and level 6 and discussed the importance.
- Explanation about action words under various levels.
- Enlisted similarity among few words repeated in BT levels (example: ‘choose’ – This word repeats in two levels L5 and L6, but the levels vary).
- Insisted the staff members to frame a question paper that covers all BT levels from L1 to L6.
- Instructed the staff members to frame the question paper with proper %in BT level





Snapshots from the Seminar session



DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR 2020-21 / ODD SEMESTER
PO,PSO mapping and Process Report

Date & Venue: 18/11/2020, Hall no.203

Name of the Event: “**PO, PSO MAPPING – AN INTRODUCTION**”, a department level presentation

Presented by: **ASWIN.M**, Asst. Prof/Mechanical

On Behalf of Department of Mechanical Engineering, Mr.M.ASWIN, Asst.Prof/Mechanical has presented a seminar on “**PO, PSO MAPPING – AN INTRODUCTION**” with the staff members of Department of Mechanical Engineering.

In this meeting, the following points have been discussed:

- Explanation about various PO levels and their applications.
- A brief introduction to PSO'S and discussed the importance.
- Explanation about program indicators under various levels.
- Enlisted similarity among few sentences repeated in PI levels and clarified the justification to specific CO among them.
- Insisted the staff members to frame a question paper that covers all BT levels fromL1 to L5.
- Instructed the staff members to frame the Course Articulation Matrix (CAM), Course Assessment Plan (CAP) and Course Outcome Articulation Matrix (COAM).



Snapshots from the Seminar session

Date & Venue: 21/11/2020, PALLAVA HALL

Name of the Event: Review meeting, Trial 1

Presented by: Staff members of Department of Mechanical Engineering

On Behalf of Department of Mechanical Engineering, Staff members of Department of Mechanical Engineering has presented their individual Course Articulation Matrix, Assessment Paper Quality Mapping, Course outcome Alignment Matrix and Course Assessment Plan in front of Respected Principal and Vice Principal.

In this meeting, the following points have been discussed:

- Presented the syllabus of Mechanical Engineering (Regulation 2017).
- Presented the course objective of their individual course
- A brief introduction to PO'S of the Department.
- Explanation about program indicators under various levels.
- Discussed on how the mapping made among the CO's with the Department PO's and PSO's.
- Discussed on how the CO's mapped with their Course plan.
- Explained about framing the Course Articulation Matrix (CAM), Course Assessment Plan (CAP) and Course Outcome Articulation Matrix (COAM) with various program indicators and BT levels with their justification.



Snapshots of the meeting held

Date & Venue: 27/11/2020, PALLAVA HALL

Name of the Event: Review meeting, Trial 2

Presented by: Staff members of Department of Mechanical Engineering

With suggestions from the Review meeting, Trial 1, Staff members of Department of Mechanical Engineering has presented their improved version of CO, PSO, PO mapping in front of Respected Principal and Vice Principal.

In this meeting, the following points have been discussed:

- Presented the syllabus of Mechanical Engineering (Regulation 2017).
- Presented the course objective of their individual course.
- A brief introduction to PO'S and improved version of PSO'S with the effective feedback from The Principal and The vice Principal.
- Explanation about improved program indicators under various levels.
- Discussed on how the mapping made among the CO'S with the Department PO'S and PSO'S. Also discussed how the suggestions from the previous trials implemented in the presentation.
- Explained about framing the Course Articulation Matrix (CAM), Course Assessment Plan (CAP) and Course Outcome Articulation Matrix (COAM) with various program indicators and BT levels with their justification. Also discussed how the suggestions from the previous trials implemented in the presentation.



Snapshots of the session



Academic year 2020-21 (ODD)
Internal staff seminar Report

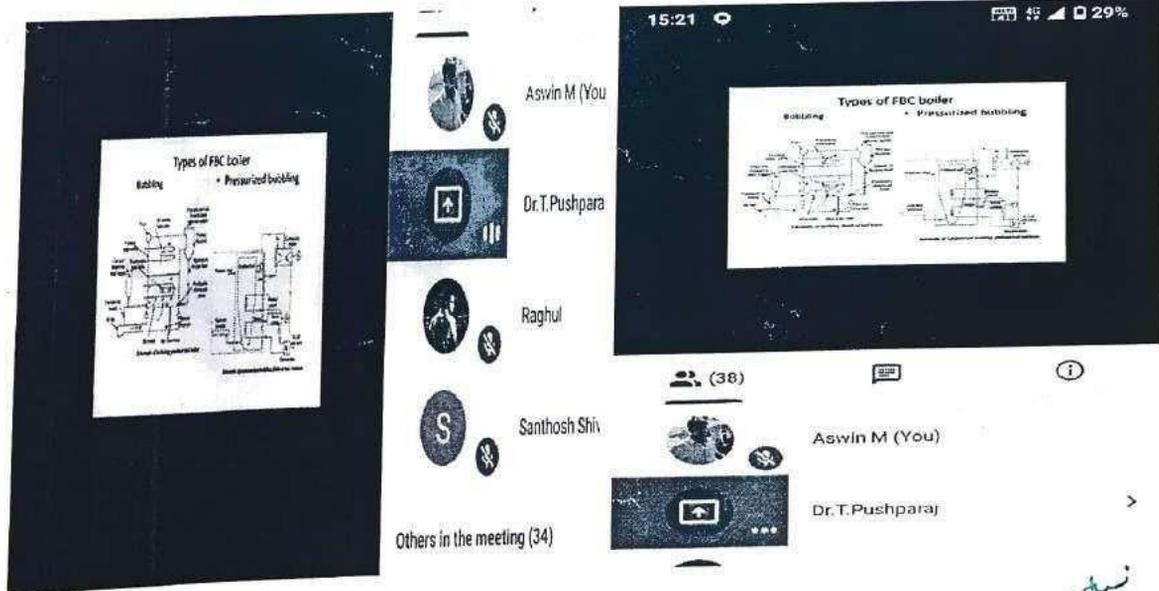
Title: Recent Trends in Power Plant Engineering
Staff Name: Dr.T.Pushparaj

Internal staff seminar about "Recent trends in Power plant engineering" was arranged for final year Mechanical Students on 24/09/2020 at 03.00 pm. Dr T.Pushparaj gave the on line seminar in Google meet platform. About 76 final year Mechanical students were participated and gained the knowledge.

The important seminar points were given below

- Introduction to Rankine cycle and its events.
- Schematic diagram of the boiler.
- Discussed about various types of boilers.
- An introduction to co generation power plants.
- Briefly explained the role of Diesel power plant.
- Explained the working of gas turbines.
- Advantages & disadvantages of nuclear energy.
- Recent trends in power plants especially renewable energy.
- Importance of hydel power plant.
- Latest innovations in wind turbine power plants.
- Advancements in Tidal power plants.

Snapshots of the seminar



T. Pushparaj
HoD/MECH 29/9/2020

J. Praveen
29/9/2020
PRINCIPAL



**Department of Mechanical Engineering
Academic year 2020-21 (ODD)
Internal staff seminar Report**

Date & time : 12.09.2020 & 11.15 am

Venue : Room no.203



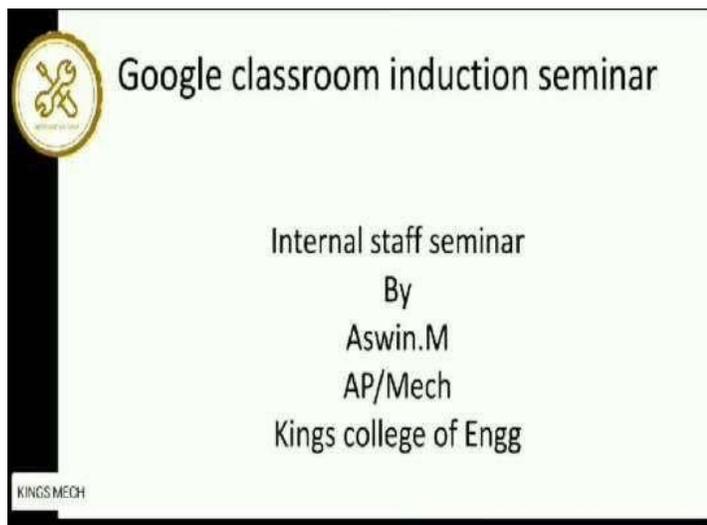
Meeting regarding Google classroom usage has been discussed before staff members of Department of Mechanical Engineering on 12/09/2020 at 11.15 a.m. Here few points are discussed:

1. Google Classroom is easy to use. Compared to other LMS (Learning Management Systems) that have been popular over the past decade, Google Classroom is amazingly simple.
2. Google Classroom helps you to communicate more efficiently. You enter the email addresses of the students just once, and classroom communication is done. Just by entering the student in the classroom, the teacher has an email group, a discussion group, and a Google Calendar automatically created. And it's easy to add and remove students from the class as necessary.
3. Google Classroom helps you to communicate more effectively. Probably more important than being easy to use and efficient, the communication tools are also very effective. Because it is all Cloud-based, there is no more "losing" of assignments by students. If a student is absent,

communication is seamless. Just last month, Google Classroom added a parent notification feature to keep parents informed about what is going on in the “classroom.”

4. Google Classroom is more cost-effective and better for the environment. If every student has a device that connects to the internet already, every sheet of paper that we save only makes the school more efficient and more environmentally responsible.
5. A tutorial on Google classroom has been prepared and uploaded on YouTube and shared with students as well as staff members. The link is : https://youtu.be/uMxj_GcOwnc

Snapshots of the video



VIRTUAL LAB SESSIONS
2020-21



**DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2020-2021 (ODD SEMESTER)
VIRTUAL LAB SESSIONS**

25.01.2021

Background & Objective:

Department of Civil Engineering has conducted Virtual lab sessions for II year, III year & IV Year civil students during the academic year 2020-21 (Odd Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students. This would help in learning basic and advanced concepts through remote experimentation even during the pandemic situation as well as the teaching learning process can be excelled.

Virtual Lab Sessions:

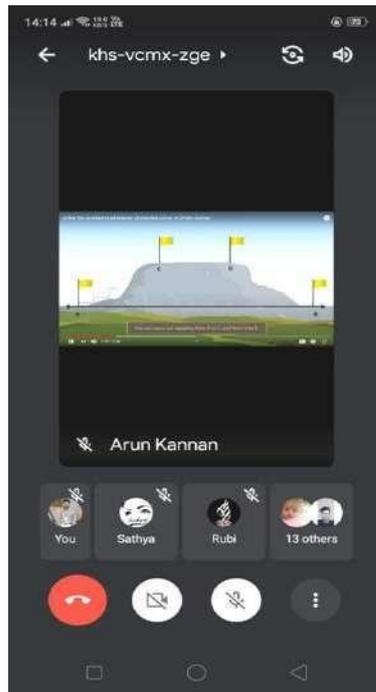
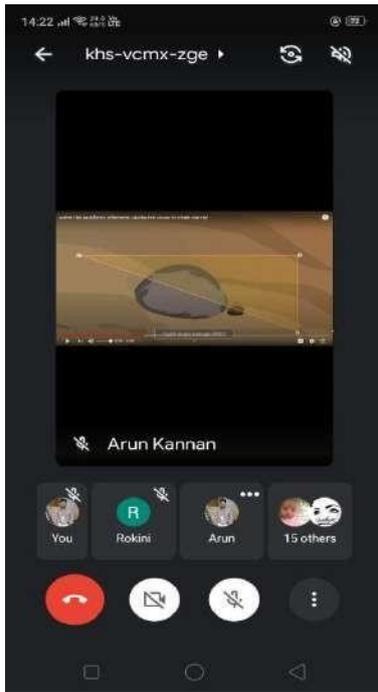
For II Year civil students virtual lab sessions were conducted on Construction Materials laboratory and Surveying Laboratory. It presents the laboratory aspects of this subject, in an imaginary way. Students have an opportunity to view before and after doing the experiment to gauge whether his or her understanding has increased, and to make the student more comfortable while doing experiments.

For III Year civil students virtual lab sessions were conducted on Soil Mechanics Laboratory and Water & Waste Water Analysis Laboratory. Soil properties are required to decide the building foundation. It is critical to quantify the various properties of water in order to predict its behaviour under different conditions for the safe design of treatment plants.

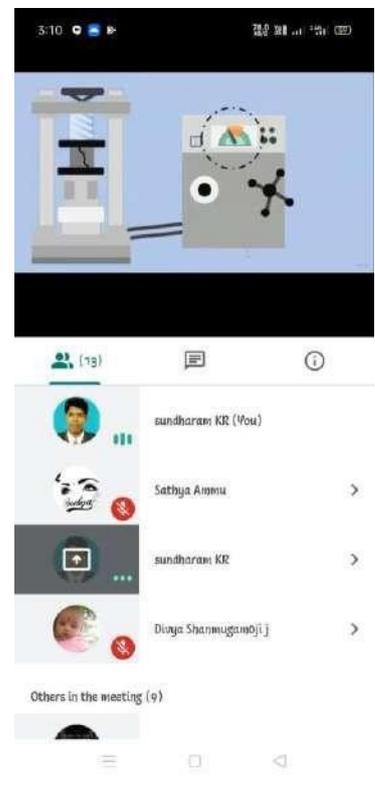
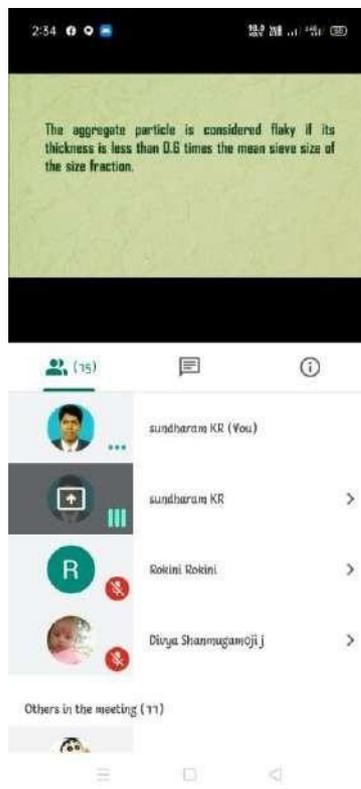
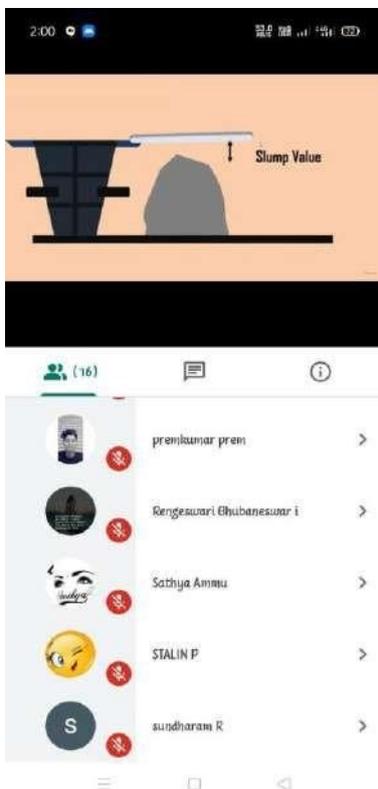
For IV Year civil students, in curriculum we have only project work. But virtual lab sessions were also conducted for them in order to enhance their laboratory skills. Virtual lab sessions were conducted on Strength of Materials Laboratory, Structural Dynamics laboratory and Transportation Engineering Laboratory.

S.NO	YEAR/SEM	LAB NAME	STAFF INCHARGE
1	II/III	Surveying Laboratory	Mr.K.Arun, AP/Civil
2	II/III	Construction Material Laboratory	Mr.R.Sundharam, AP/Civil
3	III/V	Waste Water Engineering laboratory	Ms.V.Ishwarya, AP/Civil
4	III/V	Soil Mechanics laboratory	Ms.M.Priya, AP/Civil
5	IV/VII	Structural Dynamics Lab	Mr.S.R.Elwin Guru Chanth, AP/Civil
6	IV/VII	Strength of Material lab	Ms.R.Revathi, HoD/Civil
7	IV/VII	Transportation Engineering Lab	Ms.K.Jeyashankari, AP/Civil

II Yr Virtual Lab Sessions

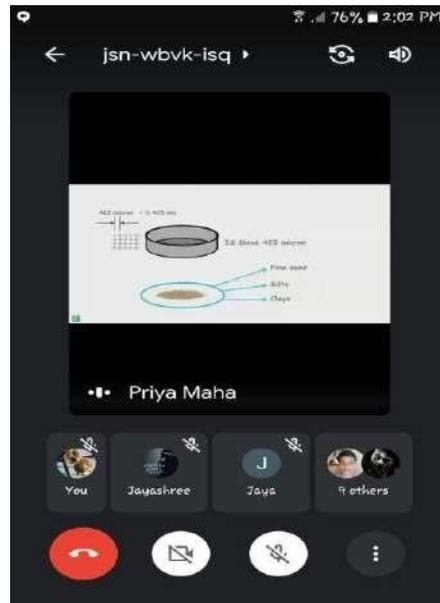
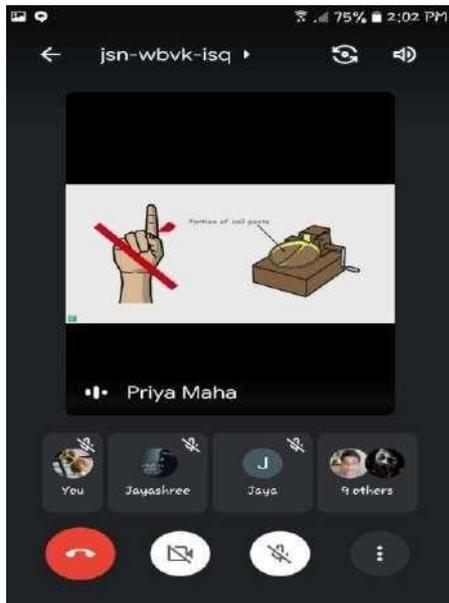


Surveying Laboratory by Mr.K.Arun, AP/Civil



Construction Materials Laboratory by Mr.R.Sundharam, AP/Civil

II Yr Virtual Lab Sessions

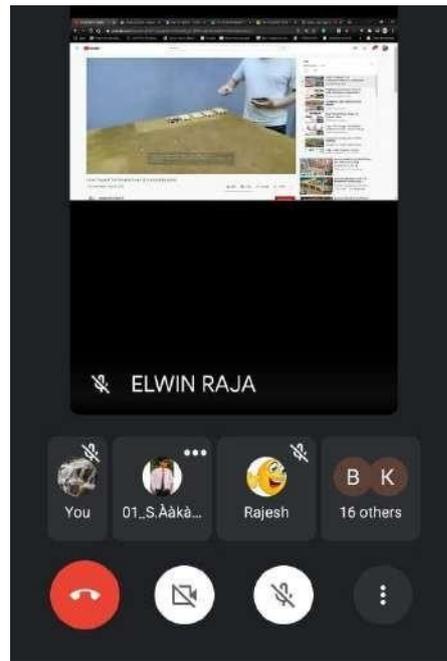
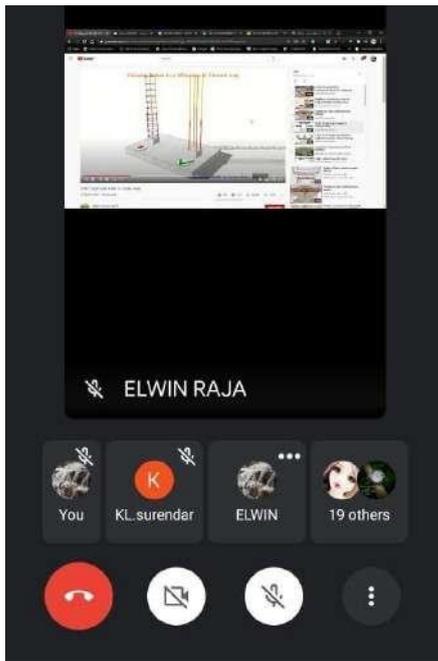


Soil Mechanics Laboratory by Ms.M.Priya, AP/Civil

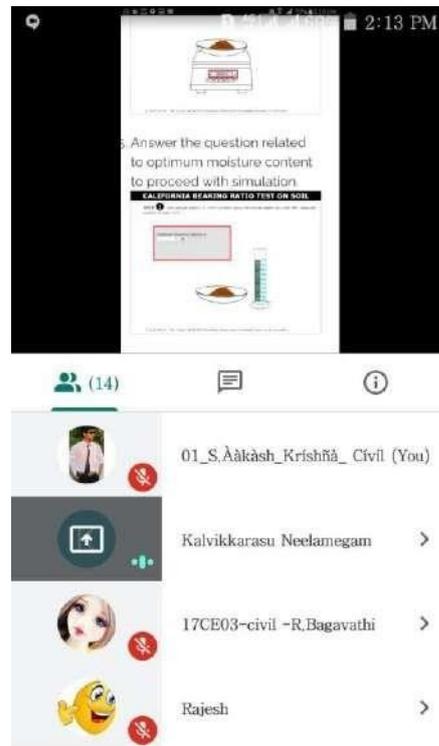
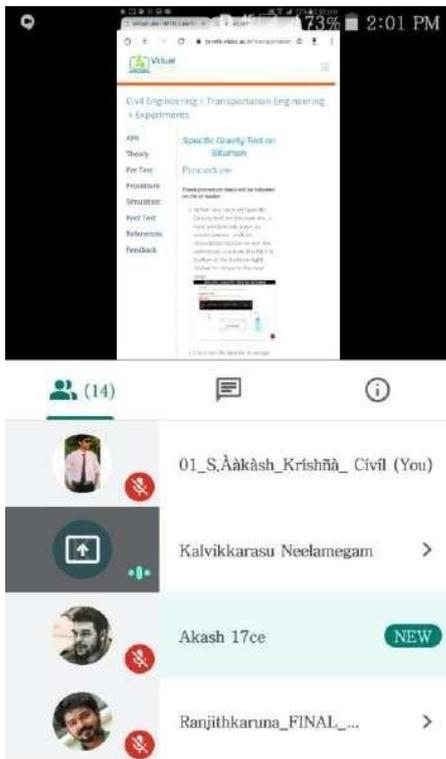


Water & Waste Water Analysis Laboratory by Ms.V.Ishwarya, AP/Civil

II Yr Virtual Lab Sessions



Structural Dynamics Laboratory by Mr.S.R.Elwin Guru Chanth, AP/Civil



Transportation Engineering Laboratory by Ms.K.Jeyashankari, AP/Civil



Strength of Materials Laboratory by Ms.R.Revathi, HoD/Civil

Outcome

- ❖ Virtual lab allows flexibility for the teacher who is not limited by using resources within a strict timeframe.
- ❖ Virtual Labs will be more effective and realistic because of providing additional inputs to the students like accompanying audio and video streaming of an actual lab experiment and equipment.
- ❖ The students can explore the experimental procedures prior to actually performing it in the laboratory, and are therefore being much more informed on what is to be done in the laboratory and what results to expect.
- ❖ The use of the virtual laboratory allows the students to exercise the same in numerous ways in the web which is not easily experimented in the traditional laboratory.
- ❖ Virtual lab showcase the content being taught, which will keep students interested, and provides a form of interaction that could not normally be easily conducted in the classroom.
- ❖ Students will easily understand the concepts and methods by virtually seeing the experiments instead of listening to lectures.
- ❖ Around 19 - II year, 28-III year & 39-IV Year civil students were benefited using virtual lab sessions.



12.05.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2020-21 (EVEN SEM)
VIRTUAL LAB REPORT
Inter process Communication

Objective

- To enthuse students to conduct experiments by arousing their curiosity.
- To help them in learning basic and advanced concepts through remote experimentation
- To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.

Background & Objective:

Department of CSE has conducted Virtual lab sessions for II year during the academic year 2020-21 (EVEN Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students.

Date : 12.05.21 for CSE (No. of participants: 45)

Session coverage:

- Processes-Process Concept ,
- Process Scheduling,
- Inter process Communication

Photos



Virtual Lab Session on Inter process Communication for IV Year – 45 students were attended



11.01.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2020-21 (ODD SEM)
VIRTUAL LAB REPORT
Sorting Techniques

Background & Objective:

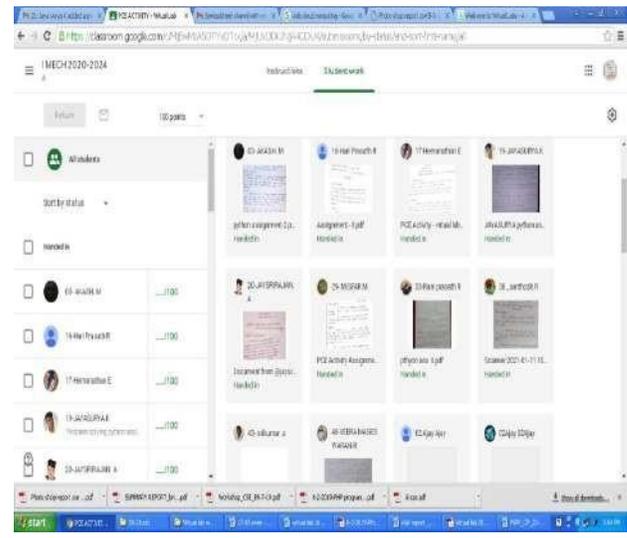
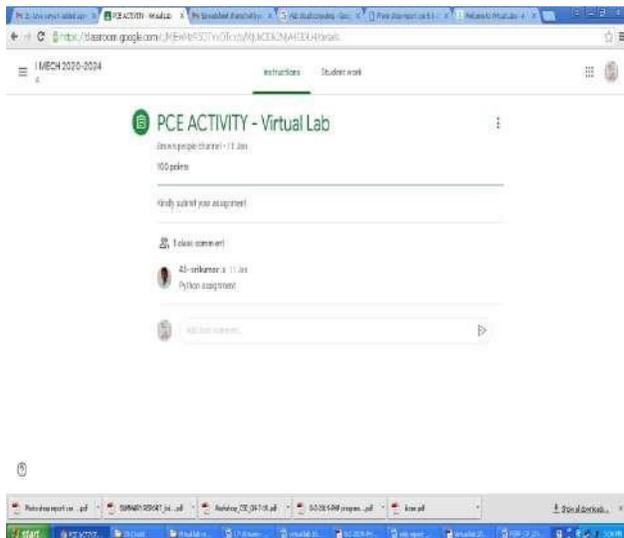
Department of CSE has conducted Virtual lab sessions for I year during the academic year 2020-21 (Odd Semester). Laboratories are the important environment for students learning, where students get hands on training. During the pandemic period, Virtual labs play a major role in providing remote-access to the laboratories for the students. This would help in learning basic and advanced concepts through remote experimentation even during the pandemic situation as well as the teaching learning process can be excelled.

Date : 31.08.19 for I Year MECH (No. of participants: 45)

Session coverage:

- Selection sort
- Insertion sort
- Merge sort, Histogram

Photos



Virtual Lab Session on Sorting Technique for I Year – 38 students were attended



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KINGS
COLLEGE OF ENGINEERING
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2020-2021) EVEN SEM

REPORT ON VIRTUAL LAB SESSIONS





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2020-2021) EVEN SEMESTER**

REPORT ON VIRTUAL LAB SESSION

In KCE, department of Electronics and Communication Engineering, has organized a Virtual lab session for second and third year B.E-ECE students on 10-05-2021 (Monday) through Online mode.

The main objective of this lab session is to enrich our student learning by teaching them courses by implementation and performance features of a virtual lab environment for an electronic circuit's course. The primary purpose of the tool is to provide an environment that mimics some of the failure modes of a real lab, which aids the student in learning debugging techniques and to get familiarized with the usage of the tool for Electronic circuits applications.

For second year students, the virtual lab session was conducted in the title of “**Circuit design and simulation lab**” on **10-05-21 Afternoon session**. The topics covered under this title are RC phase shift oscillator, Wien bridge Oscillator, Hartley Oscillator, Colpitts Oscillator, Astable and Monostable multivibrators, Schmitt trigger circuit, Twin T Oscillator, Analysis of Power Amplifiers, Tuned collector Oscillator

Totally 40 students from II ECE have attended this lab session.

RC Phase shift Oscillator by using OP-AMP

Capacitance(c): 1µf Output Frequency(f0): 250Hz supply voltage: 10V
Resistance(R): 2600 ohm Resistance(R1): 26000 ohm Resistance(Rf): 754000 ohm
Calculate Resistance Auto Data Run

Astable Multivibrator

CRO Output

Input Voltage Output Voltage

Voltage(V)

16 (16) 1 D.Vennila, ECE (You)



BJT- CE INPUT CHARACTERISTICS

INSTRUCTION

EXPERIMENTAL TABLE

Serial No.	Collector-Emitter Voltage 2.500 V	
	Base-Emitter Voltage V	Base Current(μ A)
1	0.02000	2.058
2	0.2000	2.661
3	0.1000	2.307
4	0.5800	4.580

CONTROLS

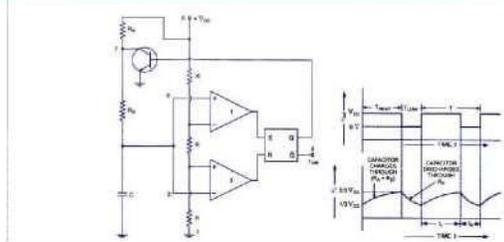
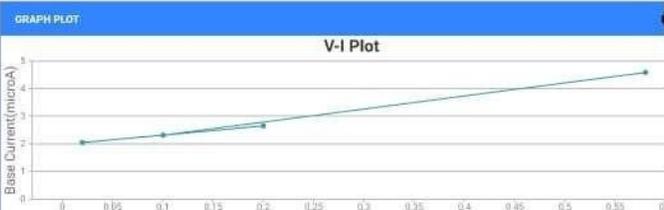
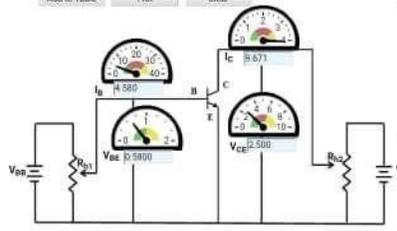
R_{B1} Ohms 29

R_{B2} Ohms 25

Pin 11

Take another sets of and Base Current reading another Collector-Em

Add to Table Plot Clear



(16)

1

D.Vennila, ECE (You)

09_Gayathri K

Mrs. D.Vennila, AP/ECE handling the virtual lab session for II ECE students

Virtual Labs

HOME PARTNERS CONTACT

Theory Pretest Procedure Simulation Posttest References Feedback

Wein bridge oscillator using operational amplifier.

Wein bridge oscillator

Instructions

OUTPUT TO CRO

GRAPH PLOT

You are presenting

You're presenting to everyone

Stop presenting

II YEAR ECE (2020-21) EVEN

25_Mithu D 31_Chandni C 32_Ashvi B 33_S Shashni 34_Sowthika B 40_Sudha D 41_Sivani 42_Vaishali D 43_Jayamalar U 44_27 PPRNIT... 26_Neelitha A 30_Gayathri K

Virtual Labs

HOME PARTNERS CONTACT

Procedure Simulation Posttest References Feedback

Wein bridge oscillator

Instructions

OUTPUT TO CRO

GRAPH PLOT

Output voltage(mV)

time(t)

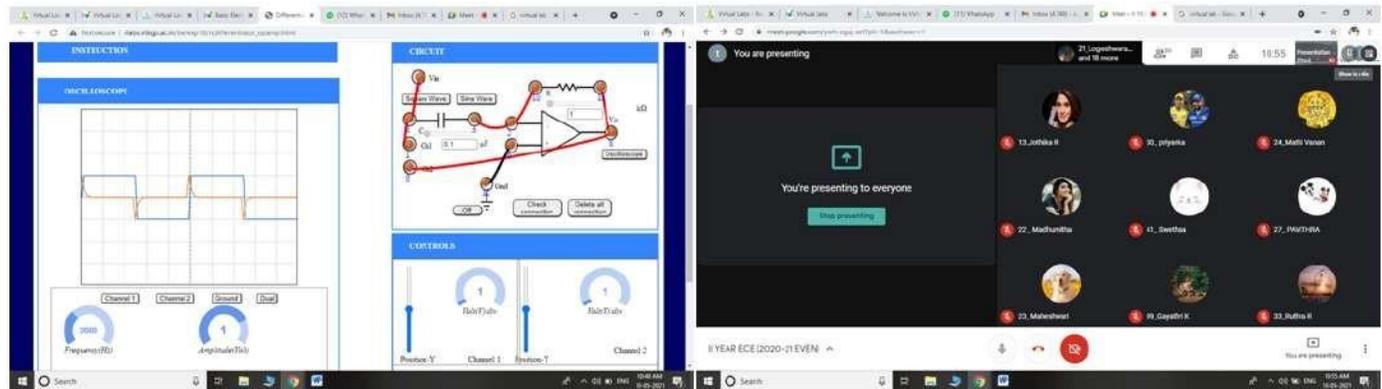
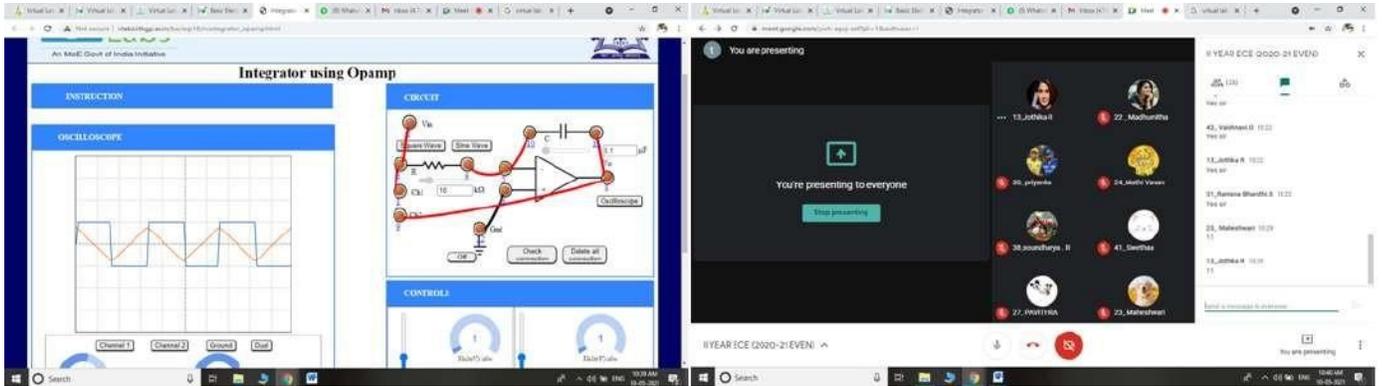
EXPERIMENTAL TABLE

Slk	Resistance (k)	Capacitance (uF)	Frequency (kHz)
1	10	0.01	159.15
2	10	0.01	159.15
3	10	0.01	159.15
4	10	0.01	159.15

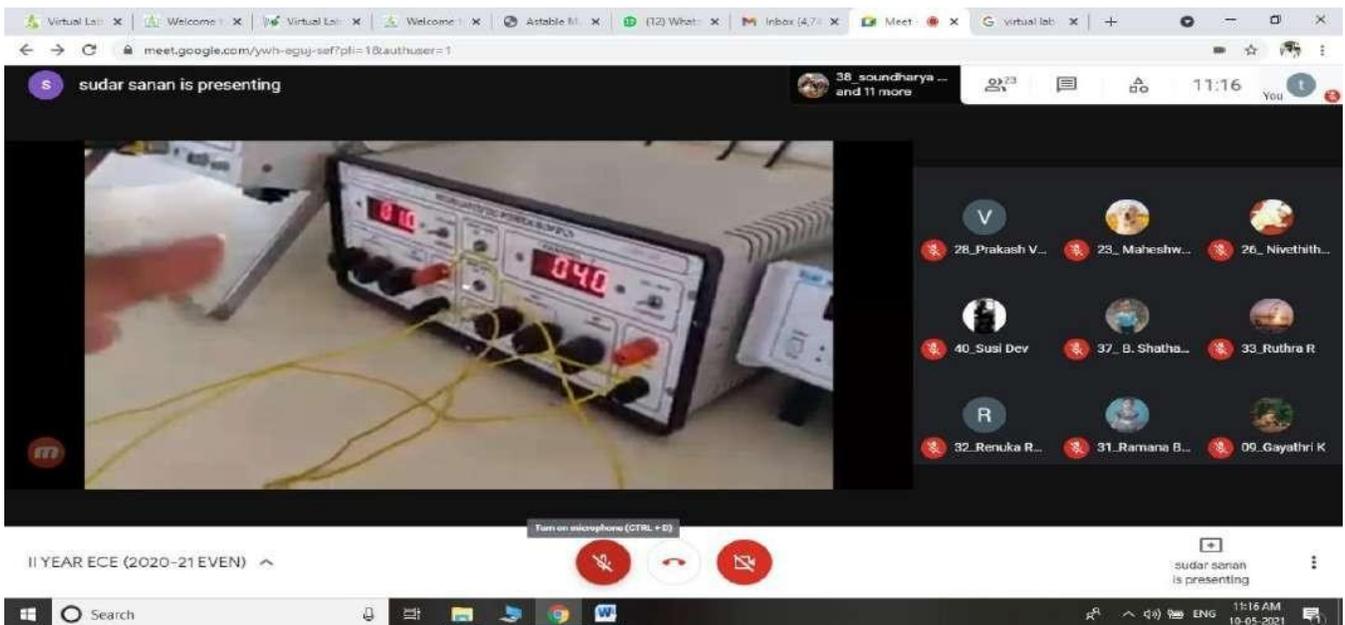
Mrs.U. Jeyamalar, AP/ECE handling the virtual lab session for II ECE students

For second year students, the virtual lab session was conducted in the title of “LIC lab” on 10-05-21 Forenoon session. The topics covered under this title are Inverting and Non inverting differential amplifiers, Integrator and Differentiator, Astable & Monostable Multivibrators using Op-amp, Frequency multiplier and Schmitt trigger circuit.

Totally 40 students from II ECE have attended this lab session.

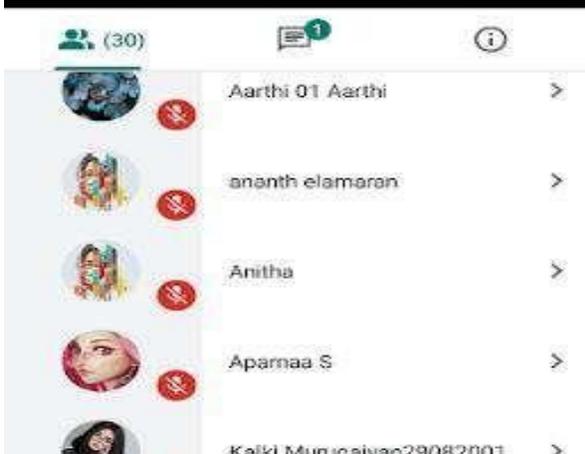
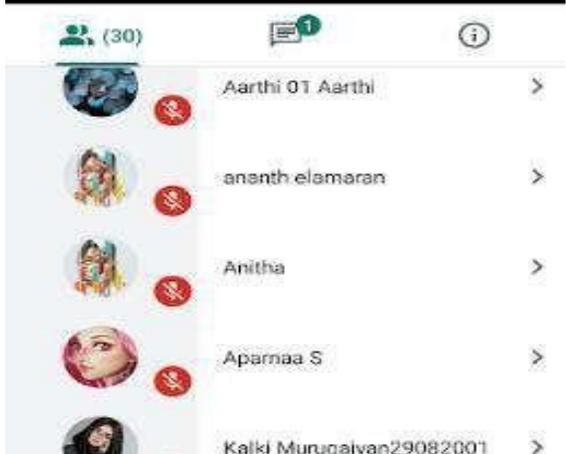
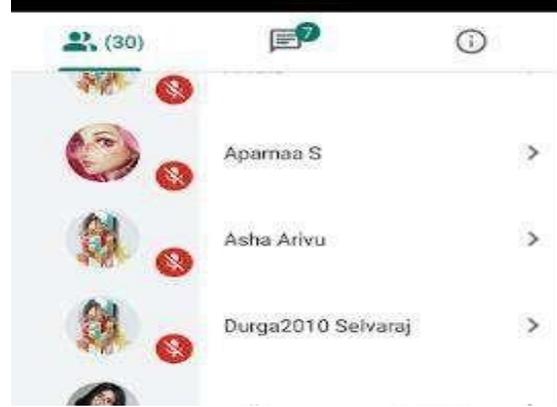
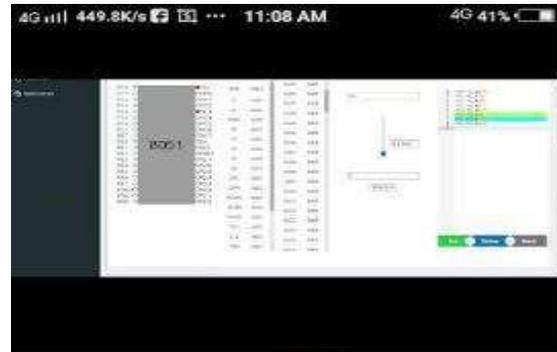


Mr. R.Thandayuthapani, AP/ECE handling the virtual lab session for II ECE students



Mr. K.Sudarsanan, AP/ECE handling the virtual lab session for II ECE students

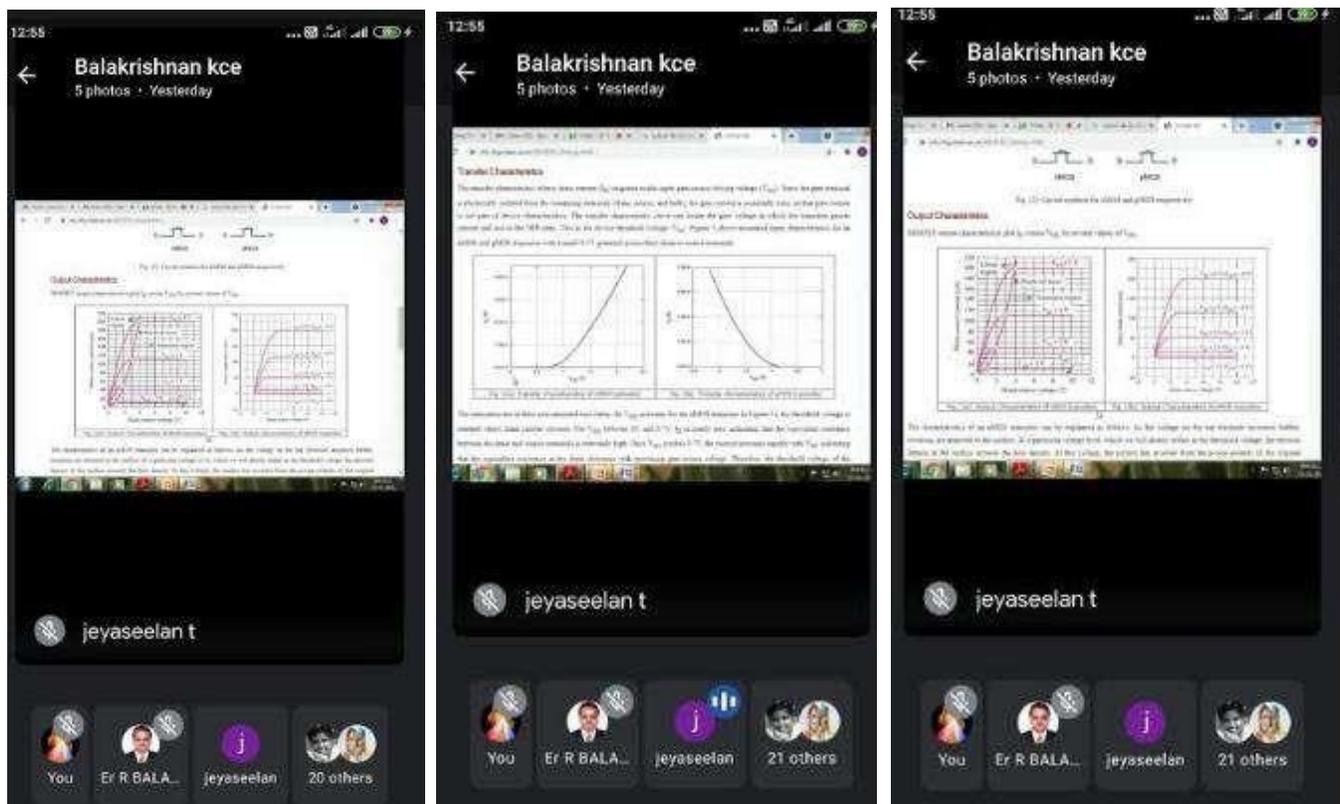
For third year students, the virtual lab session was conducted in the title of “**Microprocessor and Microcontroller lab**” on **10-05-21 Forenoon session**. The topics covered under this title are Basic Arithmetic and logical operations, Traffic Light Controller, Stepper motor control, Digital clock, Keyboard display, Printer status, Serial and Parallel Interface. Totally 36 students from III ECE have attended this lab session.



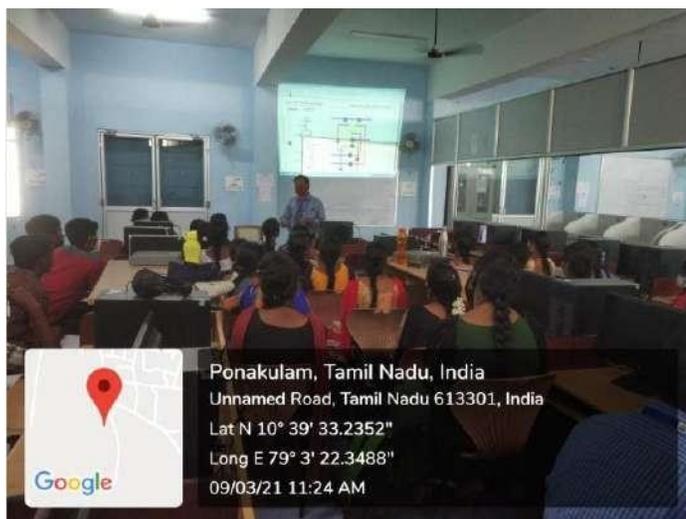
Mr.R.Sathyaraj, AP/ECE handled the virtual lab session for III ECE students.

For third year students, the virtual lab session was conducted in the title of “**VLSI Design lab**” on **10-05-21 Afternoon session**. The topics covered under this title are Design of an Adder using HDL, Design of an Multiplier using HDL, Design of an Arithmetic Logic Unit, Finite state machine design using HDL, Universal Shift register Design using HDL, CMOS Inverter & Inverting Amplifier, CMOS Basic gates & Flip-flops and Synchronous counter using Flip-flops.

Totally 36 students from III ECE have attended this lab session.



Mr. T. Jeyaseelan, AP/ECE & Mr.R.Balakrishnan, AP/ECE handling the virtual lab session for III ECE students.



Mr.T. Jeyaseelan, AP/ECE handled the virtual lab session Phase-I on 09-03-21 for III year students.
 Totally 35 students from III ECE have attended this lab session and gained knowledge.



Department of Electrical & Electronics Engineering
Academic year 2020-21 (ODD)
Virtual Lab Report

Objective

1. To provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
2. To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
3. To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.
4. To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

Electrical Machines Lab

In this lab we will perform load test and speed control on separately excited DC motor.

Electrical Machines → List Of Experiments

Load Test On Separately Excited DC Motor

1. A DC shunt motor works on the AC mains.
 a) unsatisfactorily
 b) satisfactorily
 c) not at all
 d) none of the above
- 2) In a DC Motor, unidirectional torque is generated with the help of
 a) brushes
 b) commutator
 c) end plates
 d) both(a) & (b)
- 3) The counter emf of a DC motor
 a) Often exceeds the supply voltage
 b) aids the applied voltage
 c) helps in energy conservation by controlling current input.
 d) regulates the armature voltage.
- 4) If pole flux of DC motor approaches to zero its speed will
 a) approach a stable value between zero and infinity
 b) approach infinity
 c) no change due to corresponding change in back emf
 d) approach zero

Submit Reset

Instant Test Results

No. of questions you got right:	4 out of 4
The questions you didn't get right:	
Grade in percentage:	100%

Take the quiz again View solution

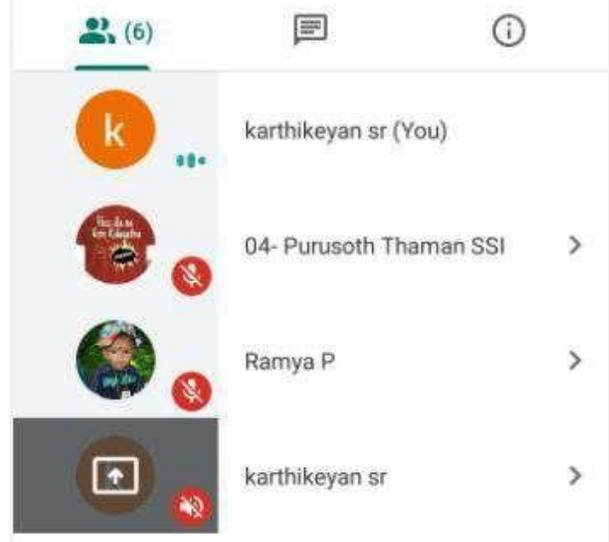
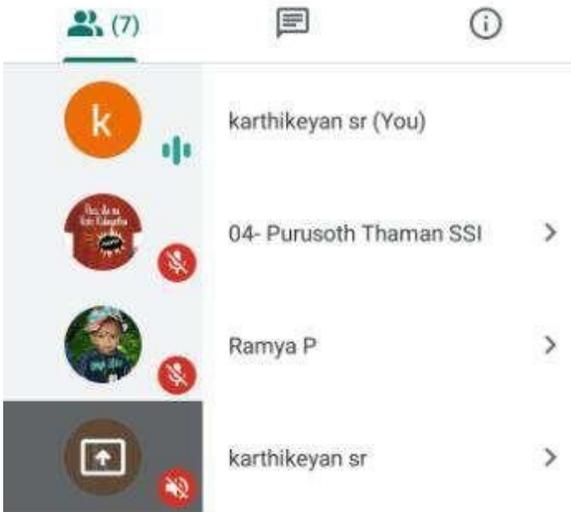
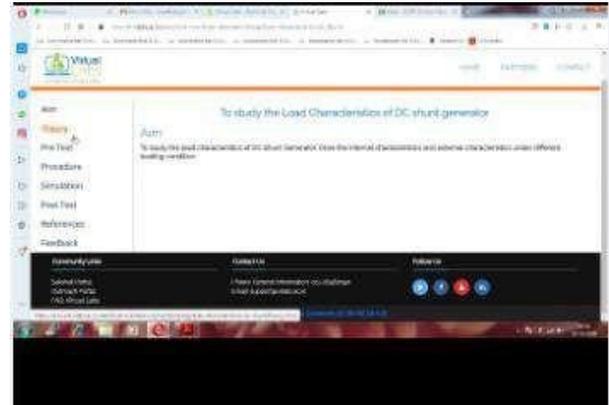
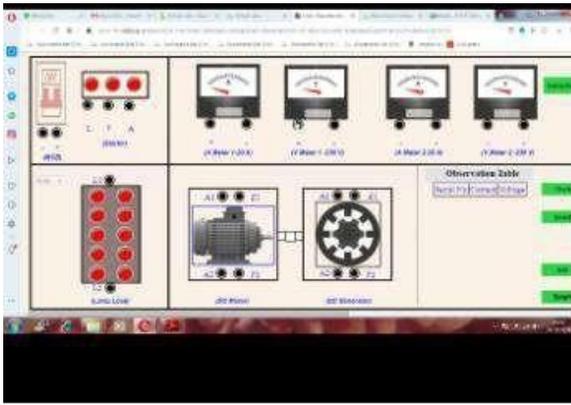
Solution - Google Chrome

about:blank

Test Solution

Question 1=a
 Question 2=d
 Question 3=c
 Question 4=b

Note: The solutions in red are the ones to the questions you had incorrectly answered.



Snapshot from Virtual lab

Snapshot from Virtual lab class

Evaluation from Quiz

SNo	Name of the Student	Mark / 100
1	Bharanitharan.S	60
2	Krishna .M.E	100
3	Pandidevi.P	100
4	Purusothaman.R	80
5	Ragul.V	100
6	Regina.R	100
7	Yugeshwaran.B	60
8	SarathKumar.A	60

Date: 15.10.2020

Students: II EEE – 8 Members



Department of Mechanical Engineering Academic year 2020-21 (EVEN)

Department of Mechanical Engineering has conducted Virtual lab sessions for I year students of EEE during the academic year 2020-21 even. The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. In the Thematic Session, Mr.M.ASWIN, AP/MECH, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Session:

For I Year EEE students virtual lab sessions were conducted on vibration and machining process by IIT, Kharagpur, on 24-4-2021

Moment Of Inertia-Connecting Rod

College of Engineering, Pune
(An Autonomous Institute of Government of Maharashtra)

Mass Of Connecting Rod(M): kg
 Length(L): m

Click Here to set the connecting rod into Oscillations

	Period of 10 Oscillations	Period of 1 Oscillations($t/10$)
Trial 1	<input type="text"/>	<input type="text"/>
Trial 2	<input type="text"/>	<input type="text"/>
Trial 3	<input type="text"/>	<input type="text"/>

Average Time Period T : (t1+t2+t3) / 3

Calculate Moment Of Inertia, J_o : $mgL^2 / 4\pi^2$

Moment of Inertia about the CG, J_G : $J - mL^2$

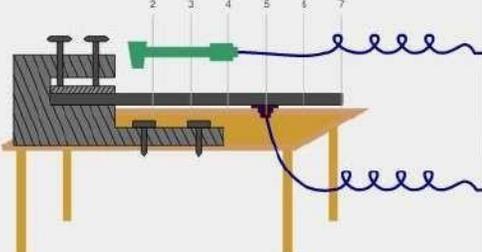
About Us | Contact Us | Feedback
Copyright ©2011, COEP-Virtual Lab.

← → ↻ Not secure | va-coep.vlabs.ac.in/ImpactTestCantilever/ImpactTestCantilever.html

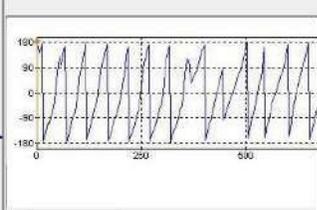
Apps Reading list

Modal Analysis On A Cantilever

College of Engineering, Pune
(An Autonomous Institute of Government of Maharashtra)



Observations from the plot(Frequency Response Function, FRF)
Record the frequencies corresponding to peaks in the graph and discuss with your teacher about the reasons for differences observed, if any:



Vibration Analyzer

CONTROL PANEL

Cross Section

Width(b) : m Height(d1) : m Length(l) : m

Cross Section Area : m²

Moment of Inertia : m⁴

Material of Cantilever:

Density : kg/m³

Young's Modulus : x 10⁹ N/m²

Select the node before press "Hit The Hammer" button

at Node :

Give all the Values then Click the Hammer button

f_{nt} : Hz

Snapshots of the session

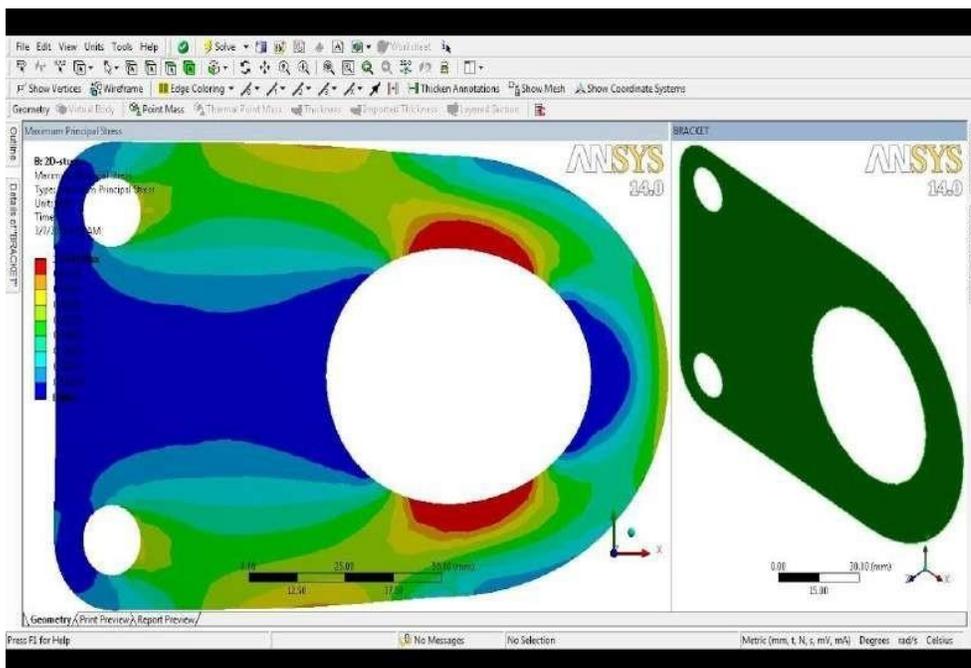


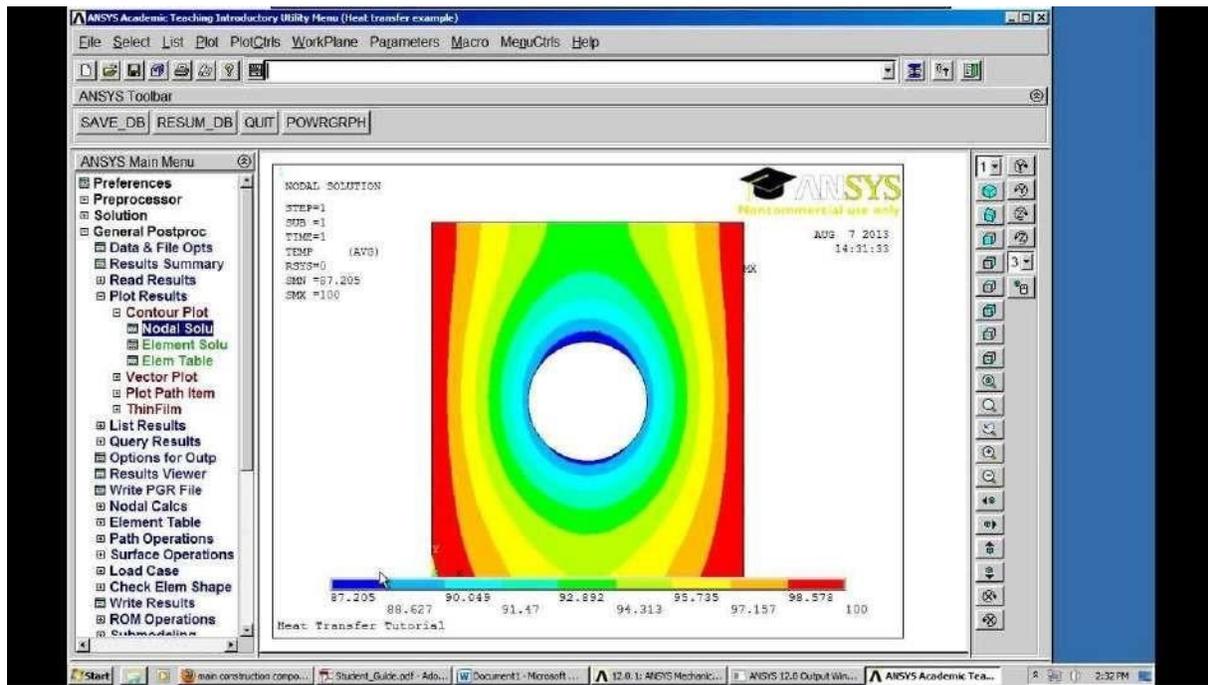
Department of Mechanical Engineering Academic year 2020-21 (Odd)

Department of Mechanical Engineering has conducted Virtual lab sessions for IV year students of Mechanical Engineering during the academic year 2020-21 Odd through Online mode (Google meet). The main objective of the Virtual laboratory is to provide remote-access to Labs in various disciplines of Engineering. In the Thematic Session, Mr.M.ASWIN, AP/MECH, explained the theme of the virtual lab sessions. This would help in learning basic and advanced concepts through remote experimentation.

Virtual Lab Session:

For IV Year Mech students virtual lab sessions were conducted on ANSYS Simulation by Mr.M.Aswin,Ap/Mech on 20-9-2021 through Google Meet online platform.





Snapshots of the session

**ALUMNI PROGRAM
2020-2021**



DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-21 EVEN SEM

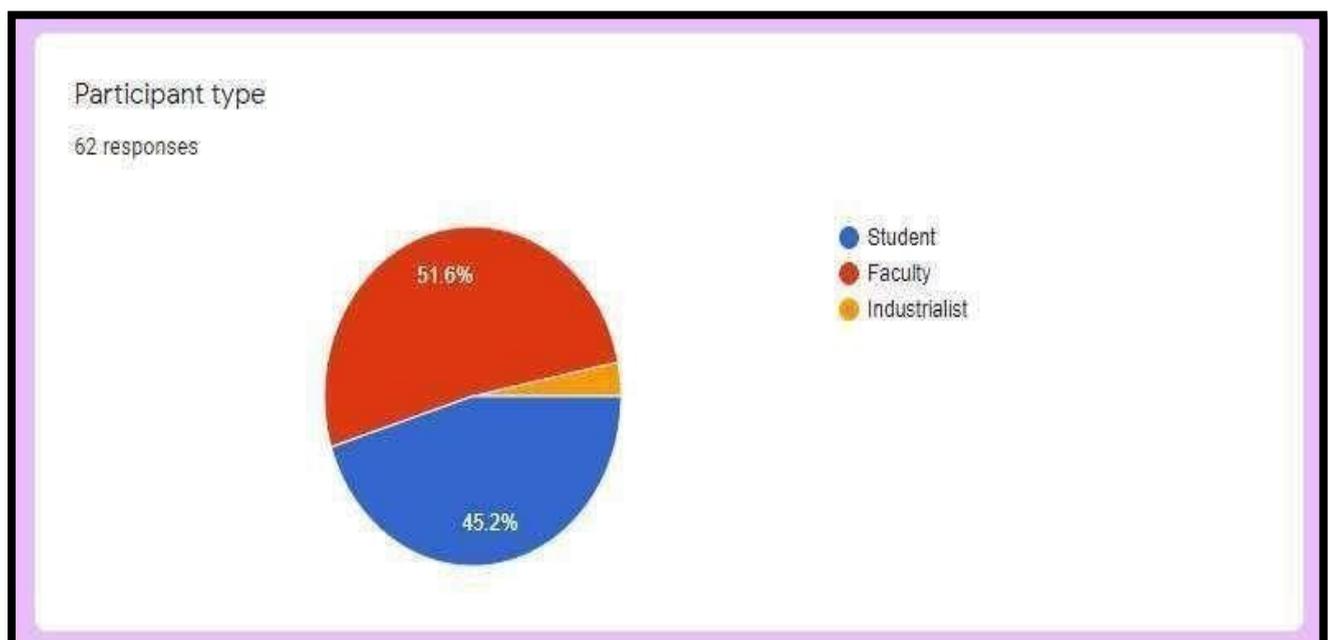
“ALUMNI TALK ON CONCRETE 3D PRINTING” ON 10.06.2021 REPORT

BACKGROUND & OBJECTIVE

Department of Civil Engineering and Research & Development cell of Kings College of Engineering organized an Alumni Talk on “**CONCRETE 3D PRINTING**” on 10.06.2021. As a Civil Engineer, it is essential to be well versed with advanced technologies related to concrete. This alumni talk provides a platform for the UG/PG students and Industrialists to enhance themselves in concrete 3D printing. Ms.T.Bhuvaneshwari, AP/civil and Mr.K.Arun, AP/civil were the organizers of the Alumni Talk.

INAUGURAL SESSION

The Alumni talk commenced online at 10:00 AM and was live streamed through our college YouTube channel. Mr.K.Arun, AP/Civil, hosted the event. He delivered the welcome address. Ms.T.Bhuvaneshwari, AP/civil also introduced about the resource person, who is our renowned Alumni of 2014-18 Batch, **Mr.M.P.Salaimanimagudam**, Proprietor, Magudam group of research, Thanjavur. She elaborated the qualification and work experience of the resource person. She also detailed about the conference, journal publications and memberships held by the resource person. Around 62 participants from various Educational institutions and Industries eagerly participated in the online Alumni talk.



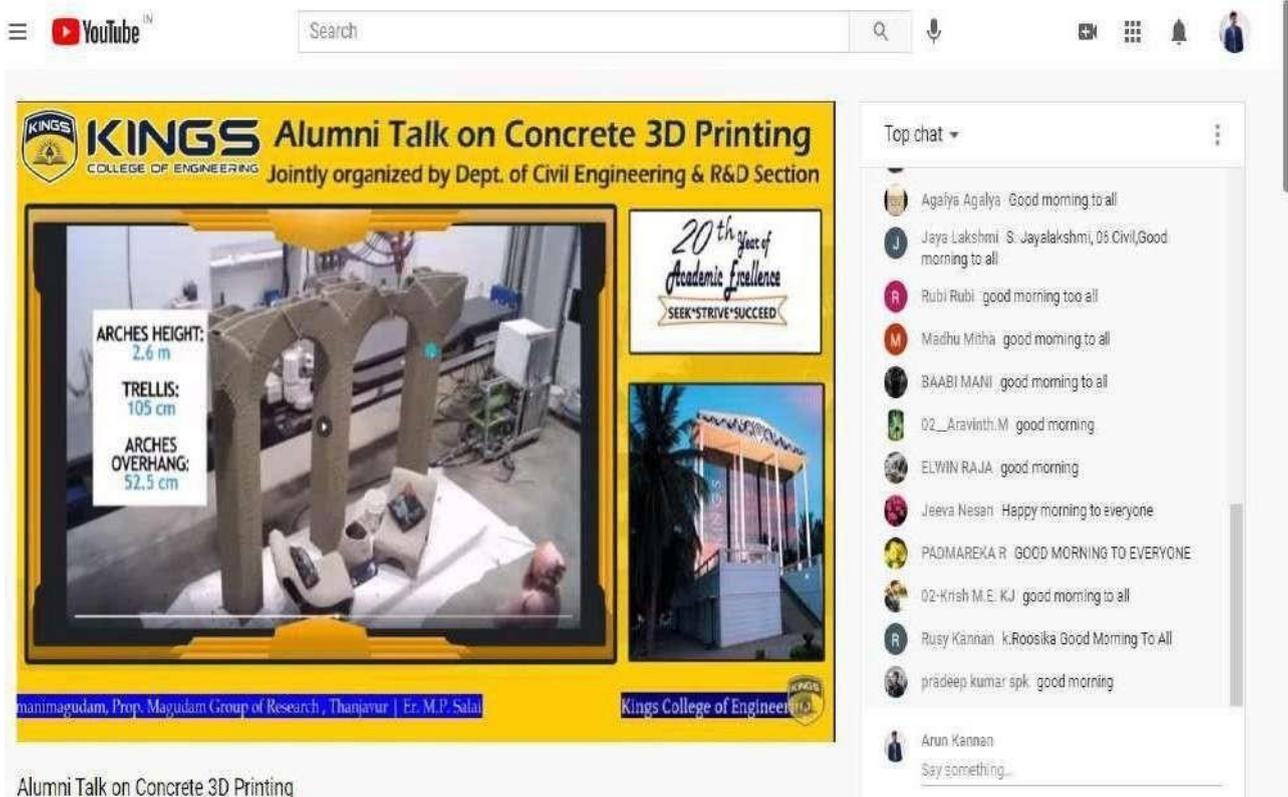
WORKSHOP SESSION

The resource person explained the concepts of concrete 3D printing, in an elaborate manner. In addition he presented the process of 3D printing and its scope in future. He also highlighted the practical examples which were very well understood by the participants.



The image shows a YouTube video player interface. The main content is a promotional poster for an event. The poster features the Kings College of Engineering logo and text: "KINGS COLLEGE OF ENGINEERING", "DEPARTMENT OF CIVIL ENGINEERING", "IN ASSOCIATION WITH RESEARCH & DEVELOPMENT CELL ORGANIZES ALUMNI TALK ON 'CONCRETE 3D PRINTING'", "10.06.2021 10:30 AM - 11:30 AM", and "Stay Home Stay Safe". A portrait of Er. N.P. Salaimanmagudam is included. The YouTube interface includes a search bar, a microphone icon, and a chat window on the right with messages from participants.

Alumni Talk on Concrete 3D Printing



The image shows a YouTube video player interface. The main content is a video showing a concrete 3D printed structure. The video has a yellow border and includes text: "KINGS Alumni Talk on Concrete 3D Printing", "Jointly organized by Dept. of Civil Engineering & R&D Section", "ARCHES HEIGHT: 2.6 m", "TRELLIS: 105 cm", "ARCHES OVERHANG: 52.5 cm", "20th years of Academic Excellence", "SEEK*STRIVE*SUCCEED", and "Kings College of Engineering". The YouTube interface includes a search bar, a microphone icon, and a chat window on the right with messages from participants.

Alumni Talk on Concrete 3D Printing

VALEDICTORY SESSION

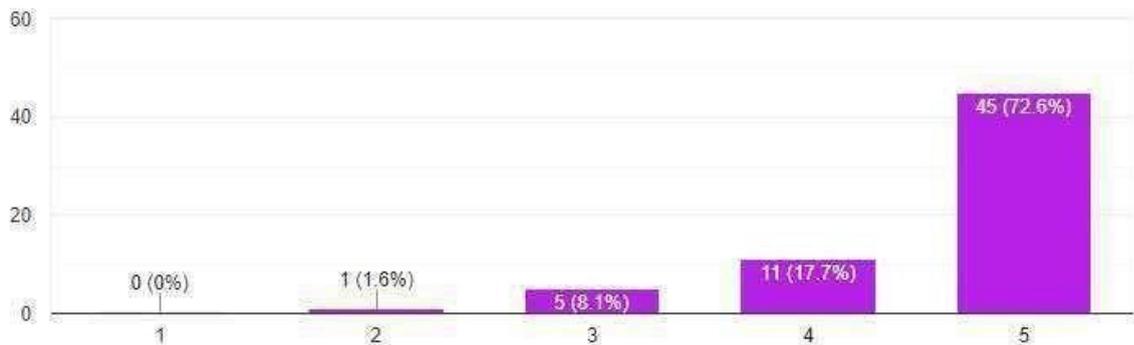
At the end of the Alumni talk, the session was concluded with vote of thanks. Mr.R.Sundharam, AP/Civil, delivered the vote of thanks. He expressed his sincere thanks to the participants for their interest and active participation. He heartily expressed his sincere gratitude to the Management, Principal, Vice Principal, Staff members and the students for their extended support. Finally he concluded by appreciating the organizers for their passionate efforts with which they carried out the difficult task of making the workshop a grand success.

FEEDBACK FROM THE PARTICIPANTS:

FEEDBACK FOR ALUMNI TALK ON "CONCRETE 3D PRINTING" ON 10.06.2021

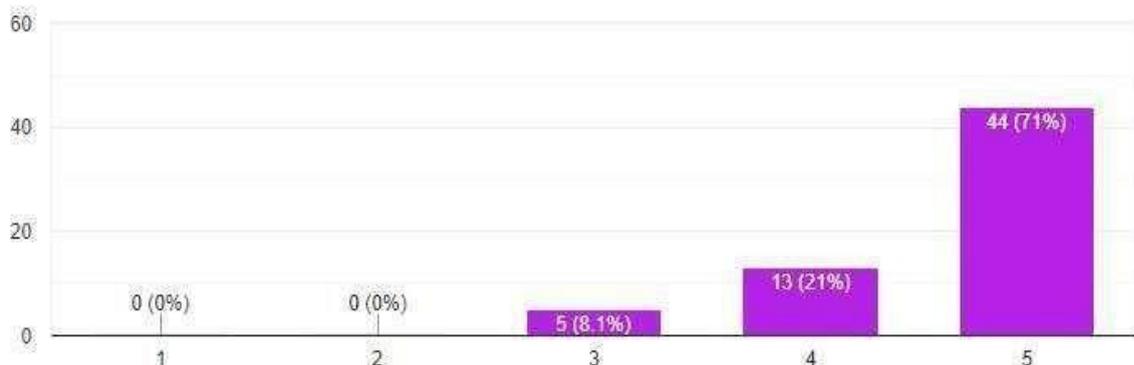
How satisfied were you with the Alumni Talk?

62 responses



How satisfied were you with the session content?

62 responses



What were your key take aways from this event?

62 responses

Super

About the 3D printing

Scope of 3D printing

Learnt about the new developments in 3D printing

3D designing

importance of accuracy of 3D model for successful concrete 3D printingprinting

Knowledge

Very informative session

the techniques of concrete usage in 3d printing

PARTICIPANT CERTIFICATE:



OUTCOME:

Participants gained knowledge about concrete 3D printing and also gave very good feedback at the end of the Alumni Talk. All the Participants showed interest to attend our future workshops too. We are very much excited to note that, the number of views for this video in our college YouTube channel is increasing day by day and crossed more than 400 views, which shows the success of this alumni talk. (<https://youtu.be/8mGn0IS-VA0>).



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



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR (2020-2021) EVEN SEM**

REPORT ON STAKEHOLDER INTERACTION BY RENOWNED ALUMNI

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.

ANNEXURES

20th Year of Academic Excellence

KINGS COLLEGE OF ENGINEERING
KINGS COLLEGE OF ENGINEERING
Approved by AICTE, Anna University, Chennai
KINGS COLLEGE OF ENGINEERING

IEEE STB16621

CRY

Department of Electronics & Communication Engineering
Organizes Webinar on
Fundamentals of Antenna and its Design Tools

Date : 27-02-2021 (Saturday)
Time : 11 : 00 a.m. - 12.00 p.m.

Resource Person

Ms.T.SWETHA
Alumni of Kings College of Engineering
PG SCHOLAR
Anna University, Chennai.

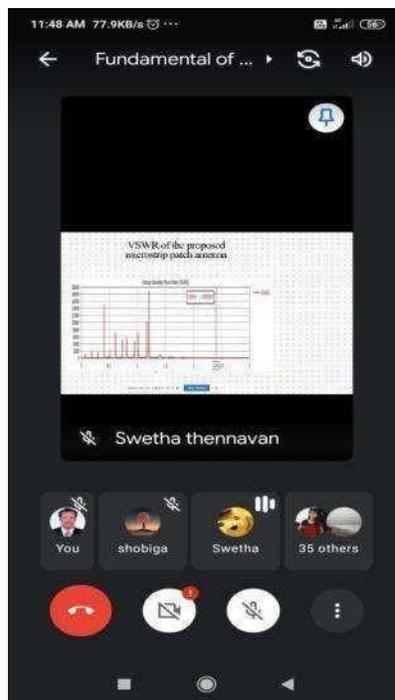
Mr.P.Raja Pirian & Mrs.U.Jeya Malar
Coordinators

Mrs.N.Mangaiyarkarsi
HoD / ECE

Dr.J.Arputha Vijaya Selvi
Principal

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

Poster for the Webinar



Resource Person Presenting the Webinar



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR (2020-2021)

MOTIVATIONAL TALK

15.09.2020

AGENDA

3.00 to 3.05	Silent prayer
3.05 to 3.10	Welcome speech [Mr. C. John Selvaraj AP/EEE]
3.10 to 3.15	Keynote address: [Er. Veeramani, GM Electricals]
3.15 to 4.15	Motivational Talk [Er. Veeramani, GM Electricals]
4.15 to 4.25	Interact with students [Er. Veeramani, GM Electricals]
4.25 to 4.30	Vote of thanks [Mr. C. John Selvaraj AP/EEE]



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

"Motivational Talk"

Presented by Alumni

15.09.2020

Resource Person:

Er.M.Veeramani (Alumni: 2015-19 Batch)

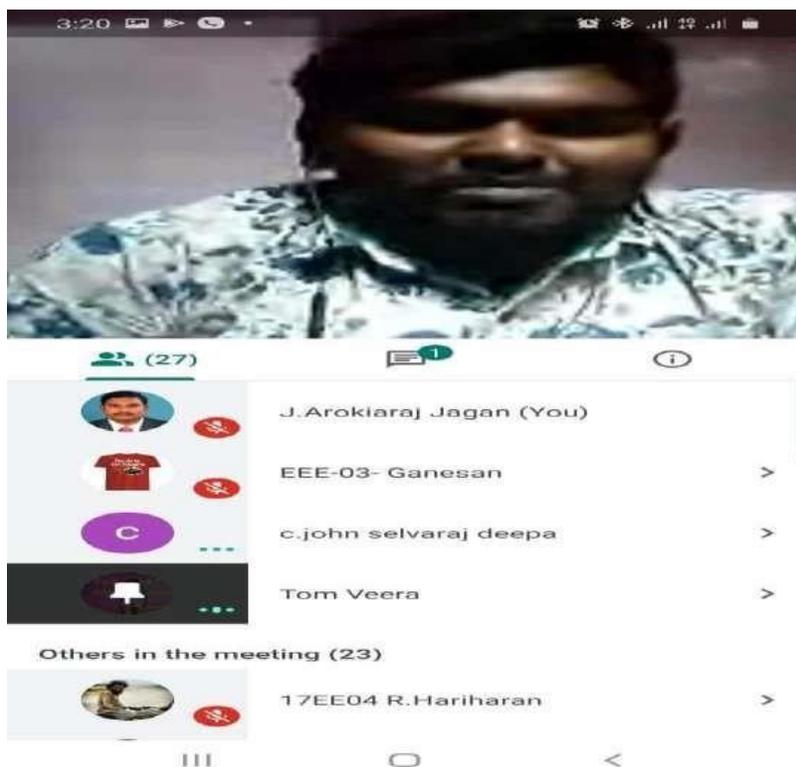
Project Manager, GM Electricals,

Kumbakonam.

Platform: Google meet

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.



DEPARTMENT OF MECHANICAL ENGINEERING

ALUMNI INTERACTION

Name of the alumnus : Mr. S.Gowthaman

Organization : Entrepreneur

Date of visit : 23.09.2021

Mr. S.Gowthaman, who belongs to 2019 batch of our college, visited our college on the 23rd September, 2021 on our invitation. He is currently doing business in food and beverage in Thanjavur.

A power point presentation was given by Mr. S.Gowthaman on the recent trends in business and marketing. This includes customer attraction way of communications to the customers. 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



Audience : II and III year Mechanical Students



DEPARTMENT OF MECHANICAL ENGINEERING

ALUMNI INTERACTION

Name of the alumnus : Mr. R.R.Pravin

Organization : Programmer Analyst at Cognizant

Date of visit : 20.08.2020

Mr. Mr. R.R.Pravin, who belongs to 2019 batch of our college, He is giving special address through online mode on the 20th August, 2020 on our invitation. He is currently working as Programmer Analyst at Cognizant Chennai.

A power point presentation was given by Mr. R.R.Pravin on the SAP, MM, Worksoft Certify, Tosca, SAP Testing and role of Programmer Analyst. 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.

