

SKCT DIGEST



SPECIAL ISSUE - 33
04 - 09 JAN 2021



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Principal

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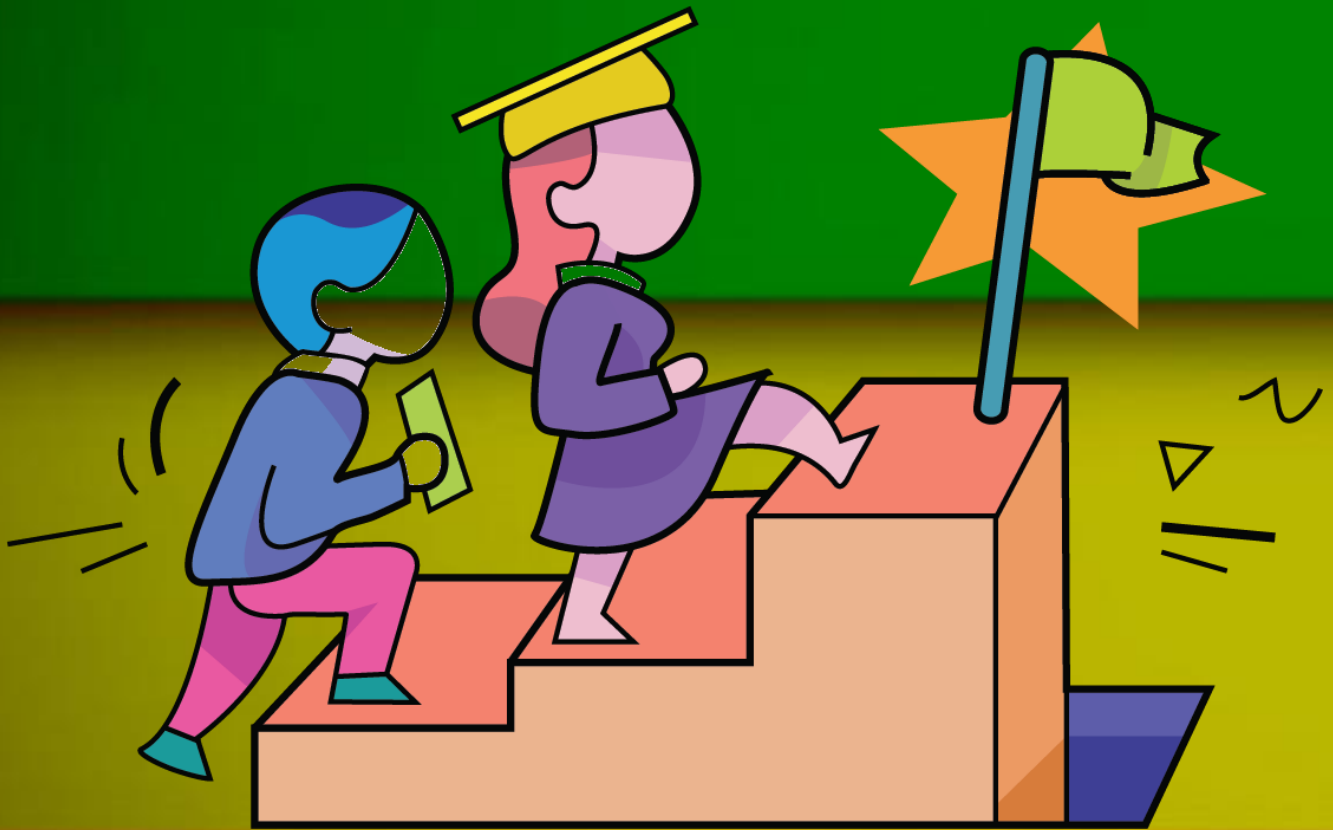
Ms S Thenmozhi, ECE

Ms B Pavithra, SSH

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STUDENTS' PARTICIPATION



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IT | NPTEL TOPPER IN SOFT SKILL DEVELOPMENT



Ms Hareni M
Second Year IT
A Section

Dear All,

Congratulations!!

We are happy to inform you all that **Ms. HARENI.M**, Department of Information Technology has secured the "**TOPPER**" position in the NPTEL exam held on 19th Dec 2020 for the course "**Soft Skill Development**" as per the results declared on 31.12.2020.

The results of other subjects examination held on 17th/18th/19th/20th Dec 2020 will be released shortly.

Thanks & Regards,
Team NPTEL



Ms Hareni M, Student of Second B.Tech. IT A Section, secured the "**Topper**" position in the NPTEL exam on "**Soft Skill Development**".

ECE | STUDENTS' ACHIEVEMENTS | IDEATHON |
SECOND POSITION | AROGYA SURAKSHA

IDEATHON
WINNERS

Second Position
KARTHIKEYAN G
ASHWIN NARAYAN P.K
DHARUN PRASAD V
Sri Krishna College of Technology

First Position
ASHWINI .P. HEGDE
SUBRAMANYA
NAVYA HEBBAR
Siddaganga Institute of Technology

Third Position
SRUTHY S NAIR
ANNA LEKSHMI S
ALEENA PADMADAS
ANJANA VIJAYAN
LBS Institute Of Technology for Women

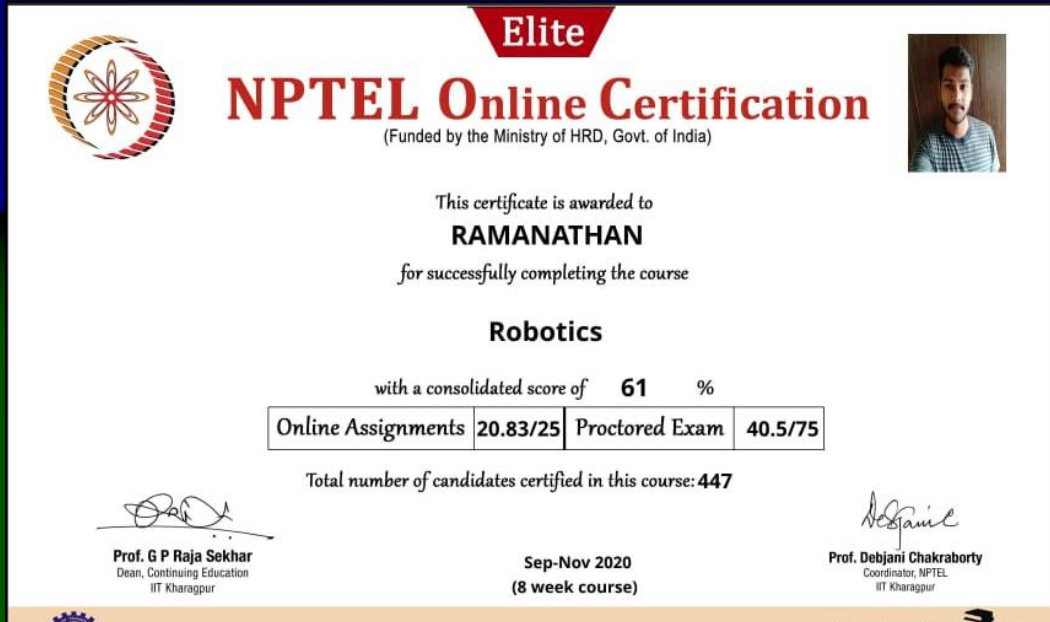
Congratulations

IDEATHON

Congratulations


Mr Karthikeyan G, Mr Ashwin Narayan P K and Mr Dharun Prasad V, Students of Second B.E. ECE A Section, secured the Second Position for presenting an idea on “**Arogya Suraksha**” in Ideathon hosted by IEEE Student Branch, College of Engineering, Perumon. Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, mentored the students.

MECH | NPTEL COURSE ON ROBOTICS



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
RAMANATHAN
for successfully completing the course

Robotics

with a consolidated score of **61** %

Online Assignments	20.83/25	Proctored Exam	40.5/75
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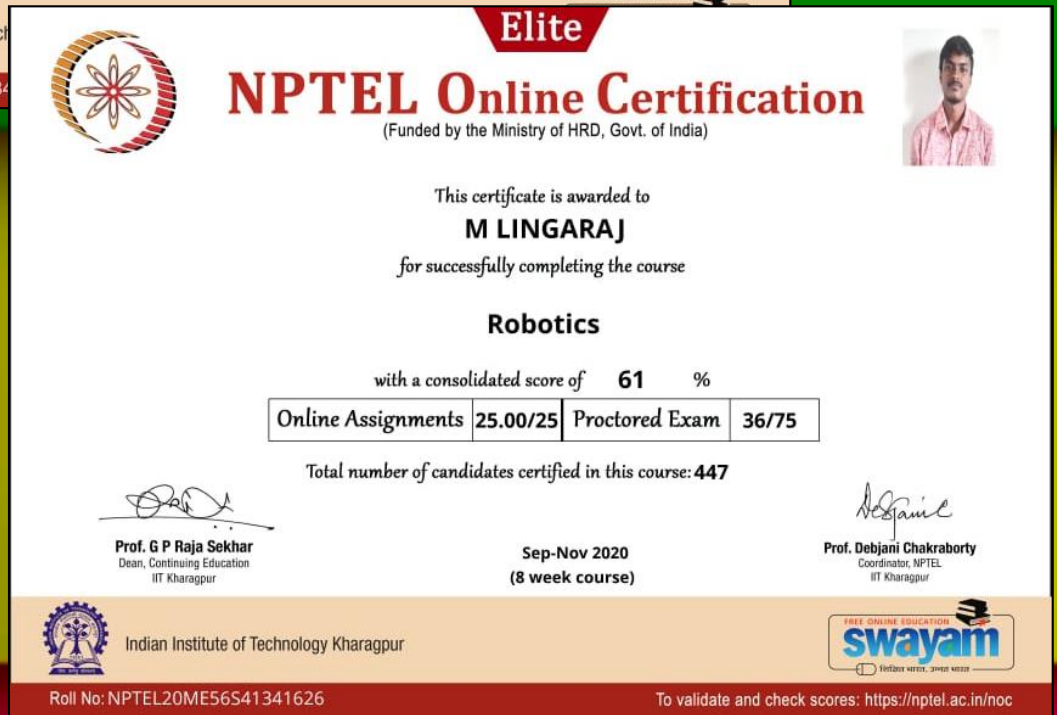
Total number of candidates certified in this course: **447**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Nov 2020
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur
Roll No: NPTEL20ME56S4134



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
M LINGARAJ
for successfully completing the course

Robotics

with a consolidated score of **61** %

Online Assignments	25.00/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **447**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Sep-Nov 2020
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL20ME56S41341626

To validate and check scores: <https://nptel.ac.in/noc>

Mr S Ramanathan and Mr M Lingaraj, Students of Third B.E. Mechanical Engineering, completed an online course on “Robotics” with Elite through NPTEL .

CIVIL | STUDENT CERTIFICATION IN COURSERA



Mr Mohith G, Student of Final B.E. Civil Engineering, completed an online course on “**Municipal Solid Waste Management in Developing Countries**” through Coursera.

MECH | NPTEL COURSE ON ROBOTICS



NPTEL Online Certification
 (Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
KRITHIKKUMAR M
 for successfully completing the course

Robotics

with a consolidated score of **57 %**

Online Assignments	25.00/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: **447**

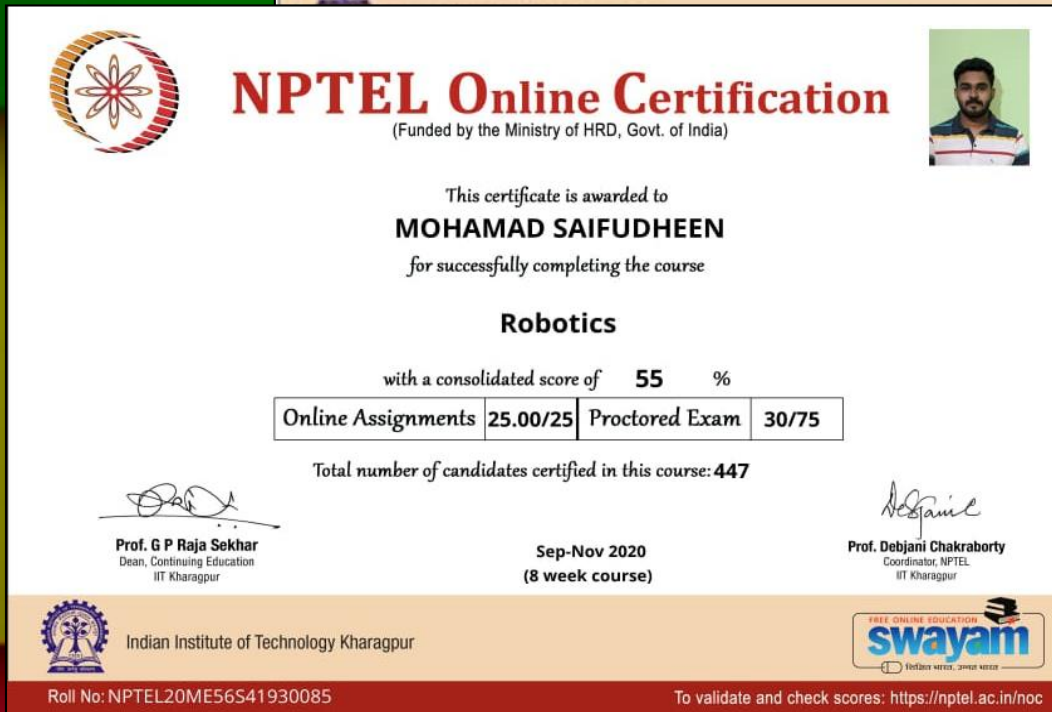
Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Sep-Nov 2020
 (8 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam



NPTEL Online Certification
 (Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
MOHAMAD SAIFUDHEEN
 for successfully completing the course

Robotics

with a consolidated score of **55 %**

Online Assignments	25.00/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **447**

Prof. G P Raja Sekhar
 Dean, Continuing Education
 IIT Kharagpur

Sep-Nov 2020
 (8 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL20ME56S41930085

To validate and check scores: <https://nptel.ac.in/noc>

Mr M Krithikkumar and Mr Mohamed Saifudheen, Students of Third B.E. Mechanical Engineering, completed an online course on “Robotics” with Elite through NPTEL .

ECE | STUDENT'S PARTICIPATION | 8TH STATE LEVEL VIRTUAL INTER COLLEGIATE MATH FEST CENTRA-2K20 | PAPER PRESENTATION

Mr S Vignesh, Student of Second B.E. ECE C Section, participated in "Paper Presentation" in the 8th State Level Virtual Inter Collegiate Math Fest CENTRA-2K20 organised by Sankara College of Science and Commerce, Coimbatore on 21 December 2020.



ECE | STUDENT'S PARTICIPATION | 8TH STATE LEVEL VIRTUAL INTER COLLEGIATE MATH FEST CENTRA-2K20 | MATH QUIZ

Mr S Vignesh, Student of Second B.E. ECE C Section, participated in "Math Quiz" in the 8th State level Virtual Inter Collegiate Math Fest CENTRA-2K20 organised by Sankara College of Science and commerce, Coimbatore on 21 December 2020.



ECE | STUDENTS' PARTICIPATION | INDUSTRY- INSTITUTE INTERACTION WEBINAR | OPTICAL AND ELECTRICAL MODELLING SOFTWARE FOR SEMICONDUCTOR DEVICES



Mr V Thivakar, Mr S Srikanth, Mr S Vigneash, Mr S Vijay Rajavarshan and Mr L Sivansankar Raja, Students of B.E. ECE C Section, participated in Industry-Institute Interaction Webinar on "Optical and Electrical Modelling Software for Semiconductor Devices (OEMSSD-2020)" organised by Bharathiar University, Coimbatore on 15 December 2020.

CIVIL | STUDENT'S ACHIEVEMENT | NPTEL TOPPER



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)





This certificate is awarded to
MANOJ PRABAAKAR S
 for successfully completing the course

Modern Construction Materials

with a consolidated score of **81** %

Online Assignments	22.81/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **282**



Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM

Jan-Apr 2020
 (12 week course)



Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras



Indian Institute of Technology Madras

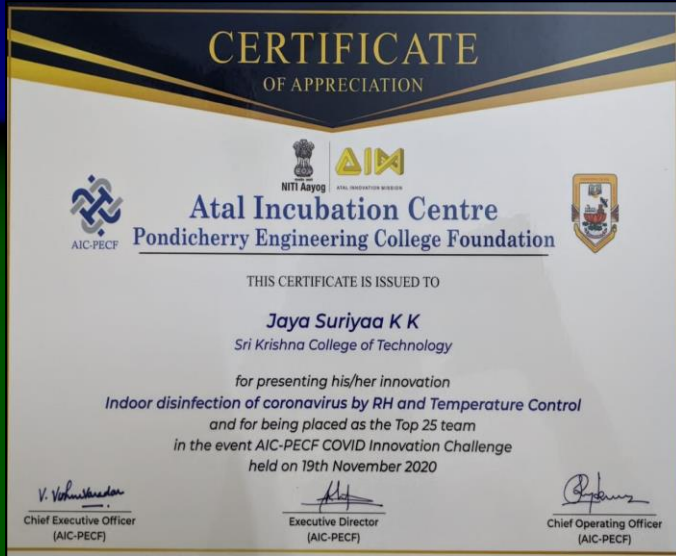


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Roll No: NPTEL20CE05511341045 To validate and check scores: <https://npTEL.ac.in/noc>

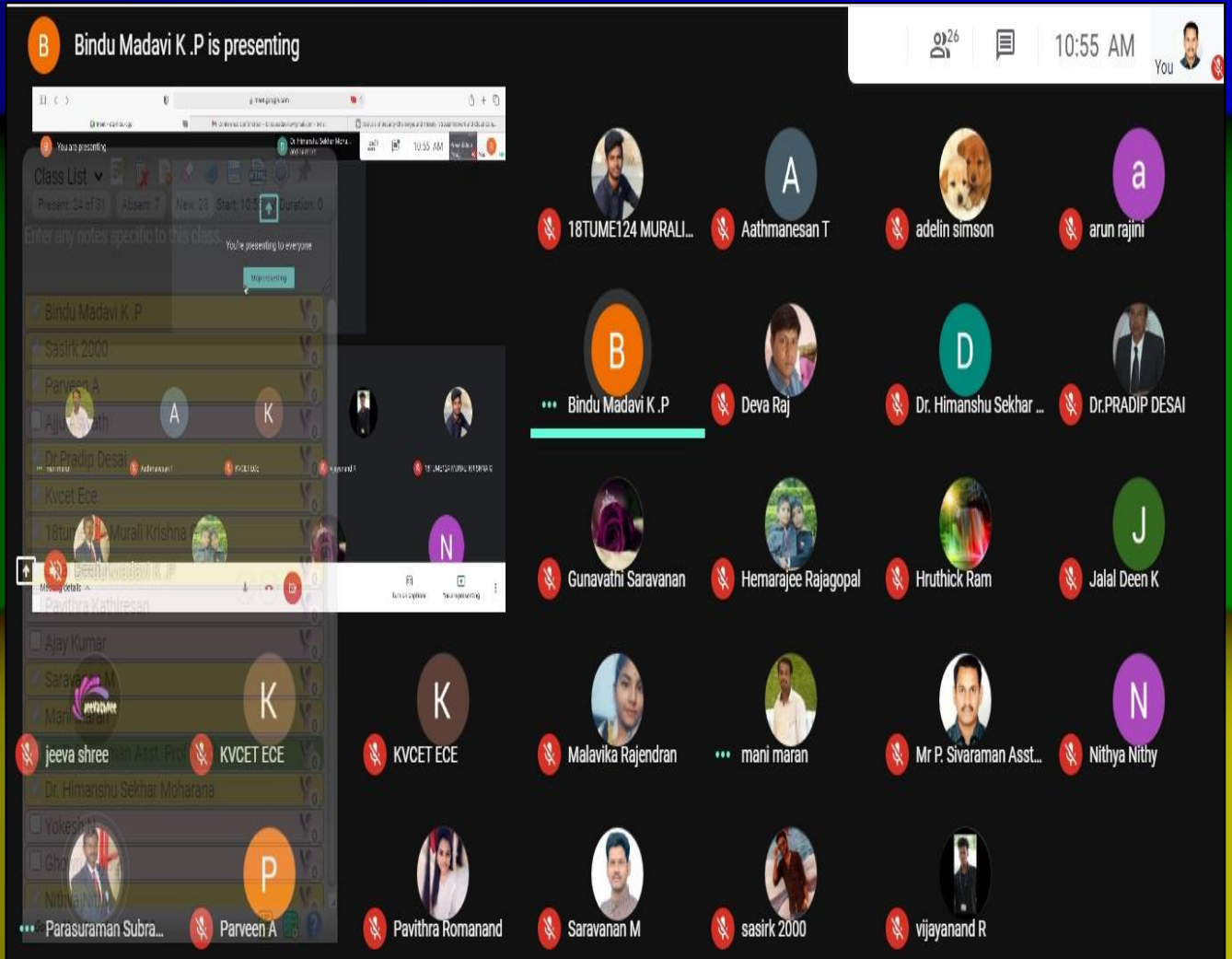
Mr Manoj Prabaakar S, Student of M.E. Structural Engineering, secured the “**Topper**” position in the NPTEL Exam on “**Modern Construction Materials**” during January–April 2020.

MECH | STUDENTS' ACHIEVEMENT IN ATAL INNOVATION CHALLENGE



Mr Adwaith Pramod, Mr Asrith Raj, Mr P R Sivaraman and Mr K K Jaya Suriya, Students of Final B.E. Mechanical Engineering, presented their innovation and selected as one of the top 25 teams in an event on **“AIC-PECF Covid Innovation Challenge”**. Dr S Sundararaj, Professor, Dept. of Mechanical Engineering, mentored the students.

MECH | STUDENT PARTICIPATION IN NATIONAL CONFERENCE



Mr G Murali Krishna, Student of Third B.E. Mechanical Engineering, presented a paper on **“Purification of Contaminated Water Using Solar Tracking Panels And Polypropylene Disk”** in the National level Virtual Conference on Intelligent Technology in Electronics, Computing and Communication-ITECC2021 organised by KVCET on 08 January 2021.

FACULTY PARTICIPATIONS



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ECE | FACULTY ACHIEVEMENT | CERTIFICATE OF APPRECIATION | NPTEL-EMBEDDED DESIGN SYSTEM



Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, received the “Certificate of Appreciation” for fostering the Ecosystem Bridging Government, Academia and Industry with the highest number of registered mentees for the NPTEL course on Embedded Design System and also received “83 MSP430 Kits” from Texas Instruments.

ECE | FACULTY CERTIFICATION | MOODLE LEARNING
MANAGEMENT SYSTEM

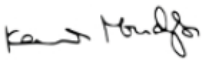
Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

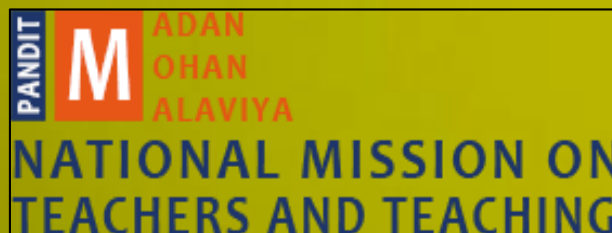


This is to certify that **Priya Ramanathan** has participated in **Paid FDP** from **2020-09-15** to **2020-12-31** on **Moodle Learning Management System** organized by **Anna University, Chennai** with course material provided by Spoken Tutorial Project, IIT Bombay.

This training is offered by the Spoken Tutorial Project, IIT Bombay.


Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India



Ms R Priya, Asst. Professor, Dept. of ECE, attended an FDP on **“Moodle Learning Management System”** organised by Anna University, Chennai with Spoken Tutorial Project, IIT Bombay during 15 September-31 December 2020.

CIVIL | FACULTY NPTEL CERTIFICATION



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
DHARSANA S
for successfully completing the course
Plastic Waste Management
with a consolidated score of **79** %

Online Assignments	22.25/25	Proctored Exam	57/75
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Total number of candidates certified in this course: **415**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jan-Mar 2020
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

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swayam
WIDEN KNOWLEDGE, SAVE MONEY

Roll No: NPTEL20CE13S12090008

To validate and check scores: <https://nptel.ac.in/noc>

Ms Dharsana S, Asst. Professor, Dept. of Civil Engineering, completed an online course on “**Plastic Waste Management**” during January-March 2020.

NEW VISTAS OF LEARNING



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IT | AICTE WEBINAR ON CORONASAFE ENGINEERING FELLOWSHIP PROGRAMME

Nationwide Application Stats for CoronaSafe Engineering Fellowship Program (as on December 28, 2020)

Total number of applications - 44646
Total number of submitted applications - 28100 (as on December 28, 2020)

Course wise distribution for selected candidates for next stage of review

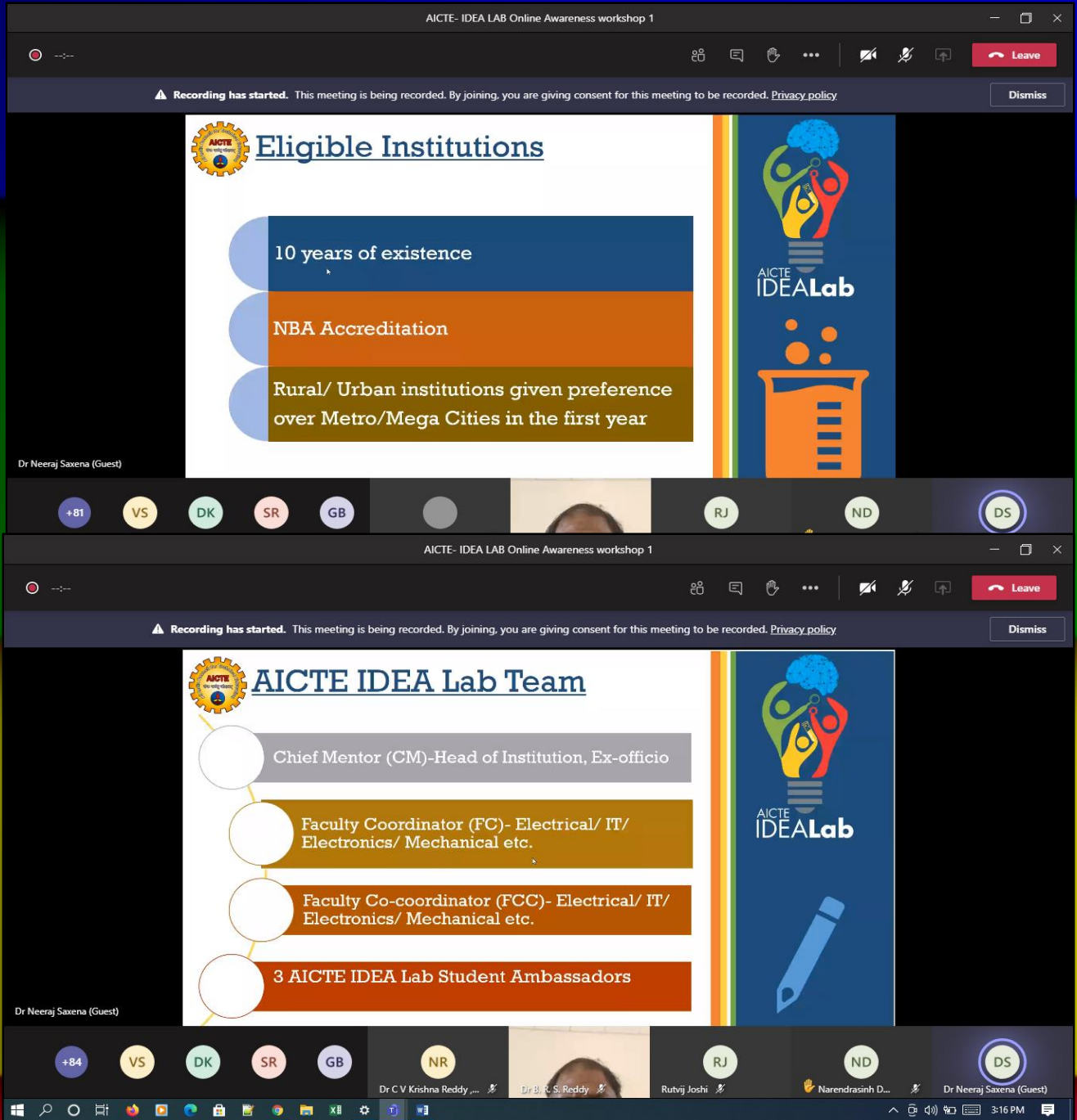
Course	Percentage
Electronics Engineering	7%
Information Science Eng	1%
Medical Engineering	1%
Electronics and Commu.	7%
Information Technology	17%

Importance of CoronaSafe Fellowship

- 1) Prestigious **National programme** led by AICTE along with industry with most modern curriculum to **prepare students become globally competent full stack software developers.**
- 2) This shall **demonstrate engineering skills** of indian students by upgrading Covid 19 software tools used by National Health Mission for disaster management.
- 3) Large Demand from Students with **40,000+ applications from 35 states for 30 seats on offer.** This makes acceptance to the programme 75 times harder to enter than Stanford University.

The Members of Faculty, Dept. of IT, attended the AICTE webinar on “Corona Safe Engineering Fellowship” programme on 29 December 2020.


IT | AWARENESS PROGRAMME ON ACITE IDEA LAB



Ms V Roopa and Ms M Malathi, Asst. Professors, Dept. of IT, attended an Online Awareness Programme on “AICTE IDEA Lab” organised by AICTE on 04 January 2021.

MECH | WEBINAR ON AICTE-IDEA LAB


3:11 PM 28.7KB/s 77%




Objective

- Establish AICTE-IDEA (Idea Development, Evaluation & Application) Labs
- Encouraging students for application of science, technology engineering and mathematics (STEM) fundamentals.
- Making the engineering students more curious, imaginative and creative; engineering education more engaging
- Training in critical thinking, problem-solving, design thinking, collaboration, etc
- Create IDEA LAB Network (IDEALNET)

Dr Neeraj Saxena (Guest)



3:35 PM 143KB/s 74%



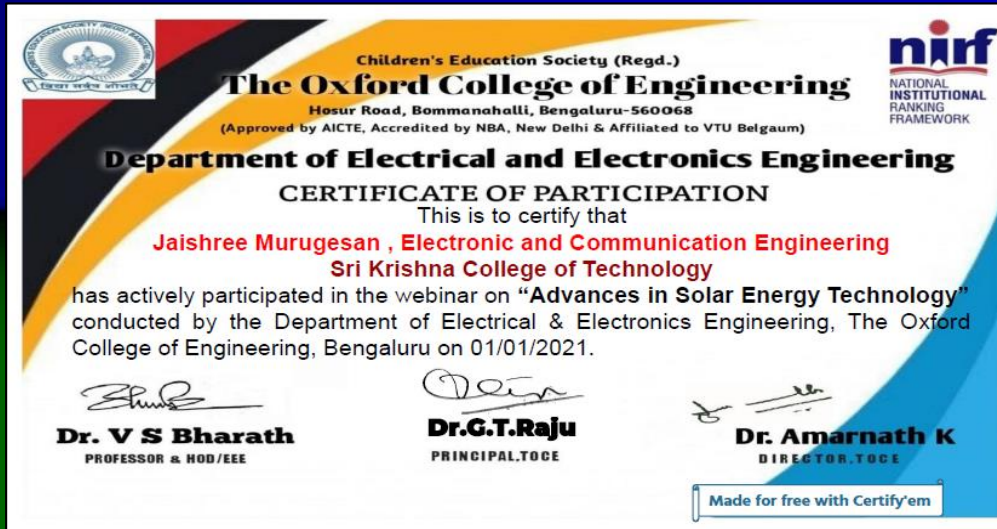
Dr Neeraj Saxena (Guest) Prof Prabhat Ranjan, VC, ... Dr B. R. S. Reddy

Dr. kedarnath (Guest)

ASHIV SHAH (Guest) Dhananjay (Guest) D UDARA YEDUKOND...

Dr P Prathap, Professor and Head, Dr. P Sakthivel, Assoc. Professor, and Mr K Senthilkumar, Asst. Professor, Dept. of Mechanical Engineering, attended a webinar on “**AICTE IDEA Lab**” organised by AICTE, New Delhi on 04 January 2021.

ECE | WEBINAR ON ADVANCES IN SOLAR ENERGY TECHNOLOGY



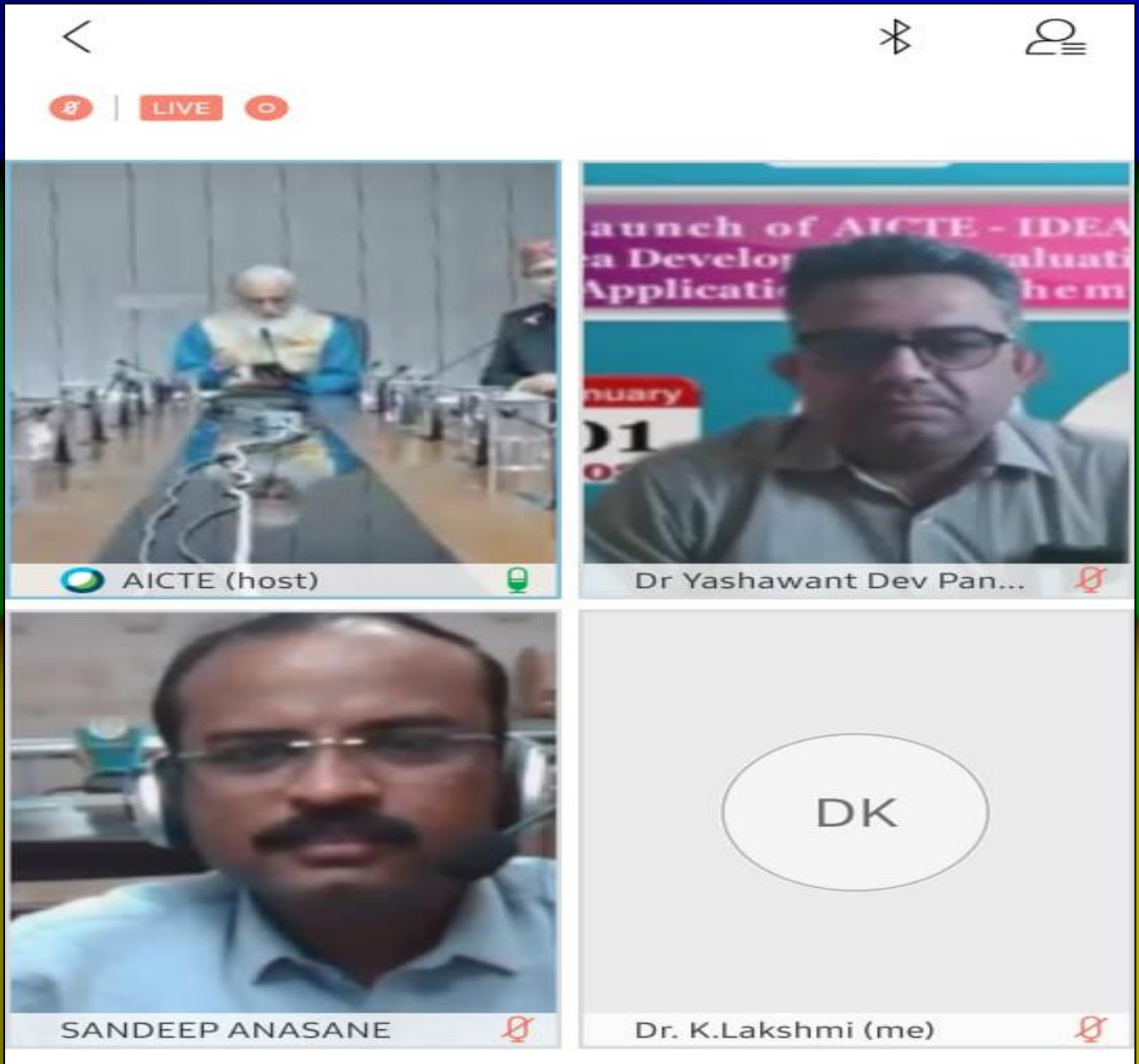
Ms M Jaishree, Asst. Professor, Dept. of ECE, attended a webinar on "Advances in Solar Energy Technology" organised by the Oxford College of Engineering, Bengaluru on 01 January 2021.

CIVIL | WEBINAR ON SPACE FOR HEALTHY LIVING

Mr R Ramesh, Asst. Professor, Dept. of Civil Engineering, attended a webinar on "Space for Healthy Living" organised by Jyothi Engineering College, Thrissur on 15 December 2020.



EEE| FACULTY PARTICIPATION | AICTE – IDEA LAB SCHEME LAUNCH PROGRAMME



Dr K Lakshmi, Professor and Head, Dept. of EEE, attended an online awareness programme on “AICTE IDEA (Idea Development, Evaluation and Application) Lab Launching Programme” organised by AICTE, New Delhi on 01 January 2021.

EEE | FACULTY PARTICIPATION | AICTE – IDEA LAB AWARENESS PROGRAMME

Events & Activities

- FDPs
- Skilling Programs
- Boot-camps
- Ideation Workshops
- Awareness Workshops for Industries.
- Internships
- Professional Skilling
- Open Day for School Students
- Participation in Annual Technical Exhibitions
- Newsletters
- Webpage
- Annual Conference/ Symposium of all IDEA Labs

Dr Neeraj Saxena, IDC, AICTE (Guest)

Objective

- Establish AICTE-IDEA (Idea Development, Evaluation & Application) Labs
- Encouraging students for application of science, technology engineering and mathematics (STEM) fundamentals.
- Making the engineering students more curious, imaginative and creative; engineering education more engaging
- Training in critical thinking, problem-solving, design thinking, collaboration, etc.

C, AICTE (Guest)

Mr R Senthilkumar and Mr T Bharani Prakash, Asst. Professors, Dept. of EEE, attended an online awareness programme on “AICTE IDEA (Idea Development, Evaluation and Application) Lab Programme” organised by AICTE, New Delhi during 04-06 January 2021.

FDP'S ATTENDED



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ECE | STTP ATTENDED | POTENTIAL AND CHALLENGES FOR INTEGRATING 5G NETWORKS AND IoT APPLICATIONS IN SMART CITY ENVIRONMENT



Ms N Vijayalakshmi, Asst. Professor, Dept. of ECE, attended one week online STTP on "**Potential and Challenges for Integrating 5G Networks and IoT Applications in Smart City Environment**" organised by Hindusthan College of Engineering and Technology, Coimbatore during 30 November-05 December 2020.

ECE | FDP ATTENDED | BREAKTHROUGH FUTURE TECHNOLOGIES – ELECTRONICS AND COMMUNICATION ENGINEERING



EASWARI ENGINEERING COLLEGE

An Autonomous Institution

(A Unit of SRM Group of Educational Institutions)

| Approved by AICTE | Affiliated to Anna University, Chennai | NAAC - Accredited 'A' Grade
2(f) & 12(B) Status (UGC) | ISO 9001:2015 Certified | NBA Accredited programmes | FIST
Funded (DST) | SIRO (DSIR)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to Certify that *Mr.M Navin Kumar* of *SRI KRISHNA COLLEGE OF TECHNOLOGY* has participated in “3-days online FDP on Breakthrough Future Technologies – Electronics and Communication Engineering” organised by Easwari Engineering College, during 16th Dec 2020 to 18th Dec 2020.

Coordinator
Mr. M. Kirankumar

Coordinator
Dr. S. R. Sriram

Coordinator
Dr. S. Saranya

Convener
Dr. M. Devaraju/Head ECE

Mr M Navin Kumar, Asst. Professor, Dept. of ECE, completed a Three-day online FDP on “**Breakthrough Future Technologies – Electronics and Communication Engineering**” organised by Easwari Engineering College, Chennai during 16-18 December 2020.

RESEARCH ACTIVITIES



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S&H | PATENT PUBLISHED



Controller General of Patents, Designs and Trademarks
 Department of Industrial Policy and Promotion
 Ministry of Commerce and Industry

Design Application Details

Application Number: 334255-001
 Cbr Number: 18609
 Cbr Date: 14-10-2020 14:38:32
 Applicant Name: 1. Dr. Santhosh Shanthakumar D,
 2. Dr. Prabu S,
 3. Dr. Sundararaj S,
 4. Mr. Arunachala Muthukumar R,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 46/2020 and Journal Date is 13/11/2020

[Back](#)

DESIGN NUMBER	334255-001	
CLASS	06-08	
1. DR. SANTHOSH SHANTHAKUMAR D, SRI KRISHNA COLLEGE OF TECHNOLOGY, ARIVOLI NAGAR, KOVAIPUDUR, COIMBATORE (DT) - 641042, INDIA 2. DR. PRABU S, SRI KRISHNA COLLEGE OF TECHNOLOGY, ARIVOLI NAGAR, KOVAIPUDUR, COIMBATORE (DT) - 641042, INDIA 3. DR. SUNDARARAJ S, SRI KRISHNA COLLEGE OF TECHNOLOGY, ARIVOLI NAGAR, KOVAIPUDUR, COIMBATORE (DT) - 641042, INDIA 4. MR. ARUNACHALA MUTHUKUMAR R, SITE NO. 28, RAMAKRISHNA STREET, PANEER GARDEN PHASE-I, PANNIMADAI, COIMBATORE (DT) - 641017, INDIA		
DATE OF REGISTRATION	14/10/2020	
TITLE	SPECTACLES HANGER FOR FACE MASK	
PRIORITY NA		

Dr D Santhosh Shanthakumar and Dr S Prabu, Asst. Professors, Dept. of S & H, published a patent on **“Spectacles Hanger For Face Mask”** on 13 November 2020.

CIVIL | PROPOSAL SUBMITTED**Agripreneurship Orientation Programme****GENERAL INFORMATION OF APPLICANT**

Registration Number:	Reg/NIAM/AGRIPRENEURSHIP/2020/409
Name of the Candidate:	Dr.V.Sreevidya
Date Of Birth:	25-04-1976
Email Address:	v.sreevidya@skct.edu.in
Candidate Mobile No:	9944263851
Postal Address:	Professor, Department of Civil Engineering, Sri Krishna College of Technology, Kovaipudur,Coimbatore-641042
Permanent Address:	Professor, Department of Civil Engineering, Sri Krishna College of Technology, Kovaipudur,Coimbatore-641042

Dr I Padmanaban and Dr V Sreevidya, Professors and Mr R Ramesh, Asst. Professor, Dept. of Civil Engineering, submitted a proposal on **“Agripreneurship Orientation Programme”** under NABI Scheme of CCS National Institute of Agricultural Marketing.

CIVIL | PROPOSAL SUBMITTED**Startup Agri-Business Incubation Programme****GENERAL INFORMATION OF APPLICANT**

Registration Number:	Reg/NIAM/AGRIBUSINESS/2020/104
Name of the Candidate:	Dr.V.Sreevidya
Date Of Birth:	25-04-1976
Email Address:	v.sreevidya@skct.edu.in
Candidate Mobile No:	9944263851
Address for communication :	Professor, Department of Civil Engineering, Sri Krishna College of Technology, Kovaipudur, Coimbatore-641042
Permanent Address (if different from above address) :	Professor, Department of Civil Engineering, Sri Krishna College of Technology, Kovaipudur, Coimbatore-641042

Dr I Padmanaban and Dr V Sreevidya, Professors and Mr R Ramesh, Asst. Professor, Dept. of Civil Engineering, submitted a proposal on **“Startup Agri-Business Incubation Programme”** under NABI Scheme of CCS National Institute of Agricultural Marketing.

ECE | PAPER PUBLICATION | SCI JOURNAL |
COMPUTATION OF REFRACTIVE INDICES OF CORONA
VIRUSES THROUGH REVERSE CALCULATION

Current Optics and Photonics
Vol. 4, No. 6, December 2020, pp. 566-570

ISSN: 2508-7266(Print) / ISSN: 2508-7274(Online)
DOI: <https://doi.org/10.3807/COPP.2020.4.6.566>



SCI JOURNAL

Computation of Refractive Indices of Corona Viruses through Reverse Calculation

Srinivasan Kuppaswamy¹, Kaliprasanna Swain², Suryakanta Nayak², and Gopinath Palai^{2*}

¹Department of ECE, Sri Krishna College Of Technology, Coimbatore 641042, India

²Department of Electronics and Communication Engineering, Gandhi Institute of Technological Advancement, Bhubaneswar 752054, India

(Received July 20, 2020 ; revised September 3, 2020 ; accepted September 29, 2020)

The present paper computes the refractive indices of different corona viruses (H5N1, H4N6, FAdV and IBV) through reflectance analysis of a virus solution. The computed refractive indices of all viruses are negative at the signal of 412 nm. Further output shows that the infectious bronchitis viruses (family of novel corona viruses, COVID-19) have higher negative refractive indices as compared to other corona viruses. Finally refractive indices of COVID-19 are investigated with respect to the EID (Electronic Infusion Device) concentration, showing that the refractive index which ranges from “-0.96725 to -0.999998” corresponds to 10000’ EID virus concentration.

Keywords: Refractive indices, Corona viruses, Zinc Oxide quantum dots solution, Reflectance anisotropy spectroscopy; (350.2450) Filters, absorption

I. INTRODUCTION

Today's world has been facing a momentous complication since December 2019 when corona virus disease 2019 (COVID-19) was identified in the city of Wuhan, China. The spreading of such viruses is pandemic nowadays throughout the world. Primarily such viruses are spread between two bodies during the close contact via droplets which are produced by coughing, talking and sneezing [1]. Apart from this, animals may be infected by touching a contaminated surface and then touching their face (nose, mouth and ear, etc.). The common symptoms of these diseases are cough, sneezing, fever, tiredness, breathing problems, and the loss of smell, etc. Besides these, pneumonia and respiratory distress syndrome are complications due to such diseases [2]. The time of exposures of such diseases is typically around five days but may range from two to fourteen days. Since no proper medicine has been discovered so far, some preventive measures (frequently hand washing with soap, covering mouth while coughing and sneezing, maintaining distance from other animals or people, wearing a face mask in public setting and self-

isolation for human or animals with these diseases for fourteen days). Basically it is a group of RNA in mammals and birds. The common symptom is cough. However, all common symptoms of novel corona viruses (COVID-19) are different from the category of other thus (H5N1, H5N2, H9N2, H4N6, FAdV and IBV) [3]. However the category of IBV is different from the aforementioned. The computational analysis of transmission, absorption and scattering of the paper could be used in sensing applications. As far as sensing applications are concerned, cloaking sensor where metamaterials play a vital role to realize the cylinder pertaining to the terahertz reference [7], authors discuss

*Corresponding author: gpalai28@gmail.com, ORCID 0000-0002-9891-493X
Color versions of one or more of the figures in this paper are available online.
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The screenshot shows the journal's website interface. At the top, it displays the journal title "Current Optics and Photonics" and the issue information "Current Optics and Photonics, Vol. 4, No. 6, December, 2020". The article title "Computation of Refractive Indices of Corona Viruses through Reverse Calculation" is visible, along with the authors' names: Srinivasan Kuppaswamy¹, Kaliprasanna Swain², Suryakanta Nayak², and Gopinath Palai^{2*}. The abstract is partially visible, starting with "Abstract : The present paper computes the refractive indices of different corona viruses (H5N1, H5N2, H9N2, H4N6, FAdV and IBV) through reflectance analysis of a virus solution. The computational analysis indicates that the refractive indices of all viruses are negative at the signal of 412 nm. Further the numerical output shows that the infectious bronchitis viruses (family of novel corona viruses, COVID-19) have higher negative refractive indices as compared to other corona viruses. Finally refractive indices of the family of COVID-19 are investigated with respect to the EID (Electronic Infusion Device) concentration of the viruses, showing that the refractive index which ranges from “-0.96725 to -0.999998” corresponds to 10000’ EID virus concentration." The website also features a navigation menu on the left with options like "About the Journal", "Editorial Board", "Manuscript Center", and "Download Resources".

Dr K Srinivasan, Assoc. Professor, Dept. of ECE, published a paper on “Computation of Refractive Indices of Corona Viruses through Reverse Calculation” in Current optics and Photonics (SCI Journal), Vol. 4, No. 6, December 2020, pp. 566-570.

MECH | FACULTY JOURNAL PUBLICATION IN SCOPUS

materialstoday:
PROCEEDINGS
Available online 29 December 2020
In Press, Corrected Proof (?)



Investigation on mechanical properties of chicken feather fibers reinforced polymeric composites

S. Vinodh kumar  , K. Prasanth, M. Prashanth, S. Prithvirajan, P. Anil Kumar

Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore, Tamilnadu
641042, India

Mr S Vinodh Kumar, Asst. Professor, Dept. of Mechanical Engineering, published a paper on **“Investigatoin on Mechanical Properties of Chicken Feather Fibers Reinforced Polymeric Composites”** in Materials Today Proceedings.

MECH | FACULTY JOURNAL PUBLICATION IN SCOPUS

Materials Today: Proceedings xxx (xxxx) xxx



ELSEVIER

Contents lists available at ScienceDirect

Materials Today: Proceedings

journal homepage: www.elsevier.com/locate/matpr

Structural design and economic analysis of prosthetic leg for below and above knee amputation

S. Sundararaj, G.V. Subramaniyan *

Professor, UG Student, Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India

ARTICLE INFO

Article history:

Received 1 July 2020

Accepted 15 September 2020

Available online xxxxx

Keywords:

Structural analysis

Prosthetic leg

Amputation

High-density polyethylene

Polyamide 6

Polyamide 66

ABSTRACT

Amputation is a surgical process of cutting off a limb and the amputees seek immediate replacement of prosthetic legs at an affordable cost. In this paper, the structural and economic analysis of below-knee (BK) and above-knee (AK) prosthetic leg using high-density polyethylene (HDPE), polyamide (PA) 6 or nylon 6, and polyamide (PA) 66 or nylon 66 materials with simulation software is carried out. The prosthetic leg with anatomical limb features such as the knee and ankle joints are analysed. The prosthetic legs are optimally designed to facilitate ease of manufacturing and to support varied loads imparted by the patient. The Von-Mises stress, equivalent elastic strain, and total deformation were obtained by considering loads for standing, walking, and running criteria. The analysis indicates that when polyamide is used as the base material, better structural performance is obtained in terms of strength compared to high-density polyethylene, while the latter facilitates reduced weight distribution with adequate strength properties. © 2020 Elsevier Ltd. All rights reserved.

Selection and peer review under responsibility of the scientific committee of the International Conference on Mechanical Engineering and Manufacturing (ICMEME) 2020.

Dr S Sundararaj, Professor, Dept. of Mechanical Engineering, published a paper on “**Structural Design and Economic Analysis of Prosthetic Leg For Below and Above Knee Amputation**” in Materials Today Proceedings.

EEE | FACULTY PUBLICATION | SCIE INDEXED JOURNAL

The screenshot shows the Taylor & Francis Online interface. The browser address bar displays the DOI: <https://doi.org/10.1080/00207217.2020.1870727>. The journal title is 'International Journal of Electronics'. The article title is 'Broken Rotor Bar Fault Detection Using DWT and Energy Eigenvalue for DTC fed Induction Motor Drive' by R. Senthil Kumar and I. Gerald Christopher Raj. The article was received on 24 Mar 2020 and accepted on 04 Oct 2020. The page includes a search bar, navigation links, and a 'Get access' button.

Broken Rotor Bar Fault Detection Using DWT and Energy Eigenvalue for DTC fed Induction Motor Drive

The faults diagnosis of Induction Motor (IM) is a required field of the research area grown in recent years. Industrialists and researchers predominately use this interest as a result of improvement in control circuits for IM. This paper proposes, a new approach for the detection of Broken Rotor Bar (BRB) fault in a three phase Induction Motor Drive (IMD) using one of the signals Discrete Wavelet Transform (DWT), where the machine is controlled by Direct Torque Control (DTC). The amplitude and frequency components are extracted by Fast Fourier Transform (FFT), and the DWT decomposes the signal. Energy eigen value of stator current of the signal calculates the severity of the fault and gives a better solution for indicating the failure. DTC is adopted for advisable control techniques in the industrial drives system to preserve the excellent performance in variable torque control applications. The effectiveness of above method is evaluated by using MATLAB/SIMULINK and experimental tests demonstrate the superior performance of the proposed technique

Keywords: Discrete Wavelet Transform, Direct Torque Control, Fault Detection, Induction Motor Drive

1. Introduction

IM involves most of the industry, such as electric traction, conveyors and cranes due to its robustness, reliability, and low cost. Mostly, squirrel cage IM is preferred in 85 percent of industries. So, it is very crucial maintaining IM in a healthy state (Liu & Bazzi, 2019). The faults that occur in the stator side 30-40 %, rotor side 5-10%, and bearing faults 40-50% that are common in IM (Choudhary et al., 2018). Rotor deficiency is a consequence of a mixture of stresses that takes place on the rotor. It produces fluctuations that weaken the magnitude of torque. Consequently, mechanical deviations and more significant fluctuations are produced, which advances to catastrophic effects on the machine (Soleimani et al., 2019). Finally, while increasing the number of broken bars, the fault effect in the rotor bars is at a greater distinct (Ojaghi et al., 2018; Fu Qiang et al., 2019; Liboni et al., 2019). To overcome these issues, the fault detection, and diagnosis approach is a necessary step to safeguard the drives.

Mr R Senthilkumar, Asst. Professor, Dept. of EEE, published a paper on "Broken Rotor Bar Fault Detection Using DWT and Energy Eigen Value for DTC Fed Induction Motor Drive" in the International Journal of Electronics, SCIE Indexed, ISSN: 1362-3060 on January 2021.

MEETINGS & DISCUSSIONS



@skctdigest

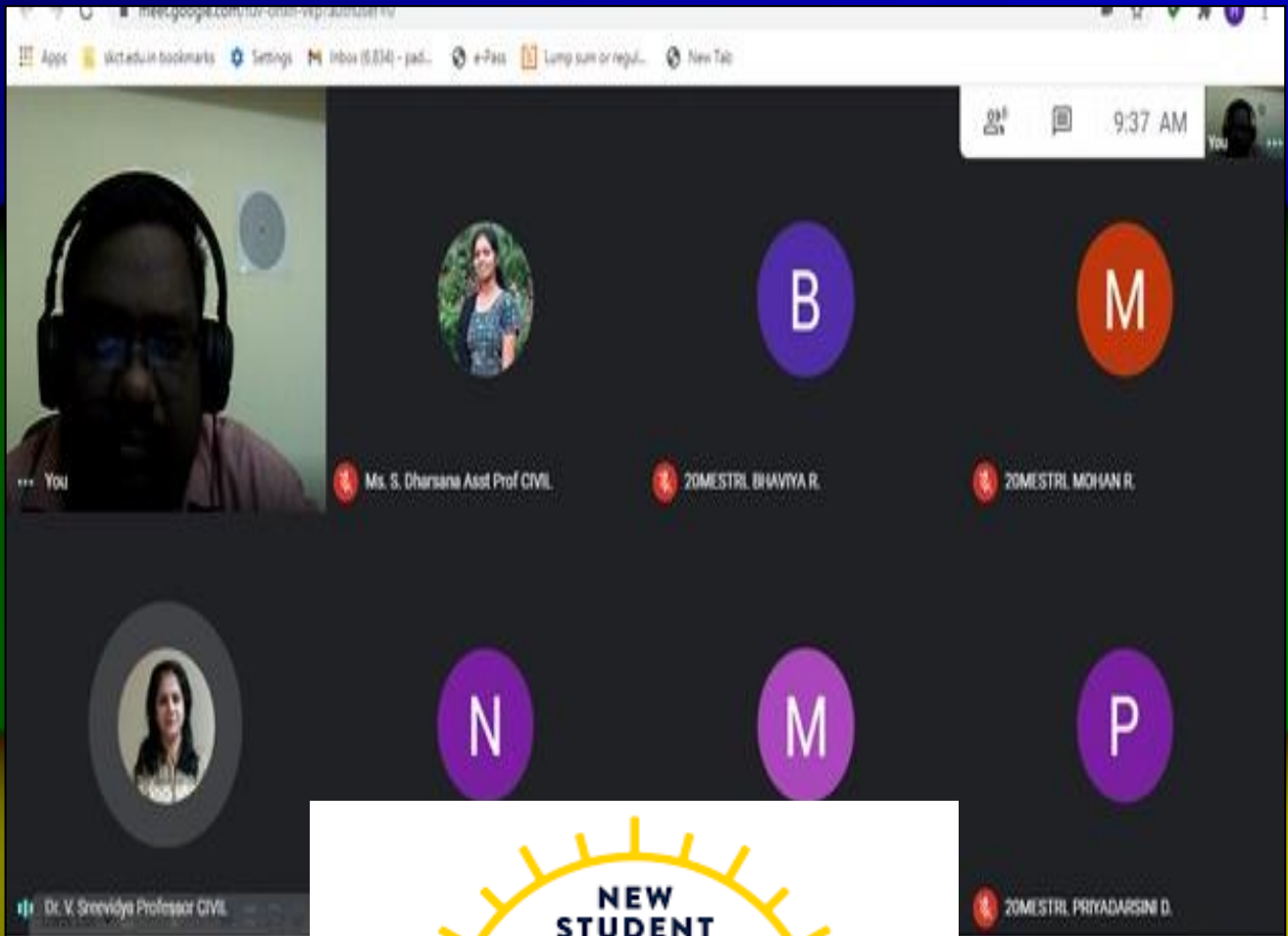


@skctofficial



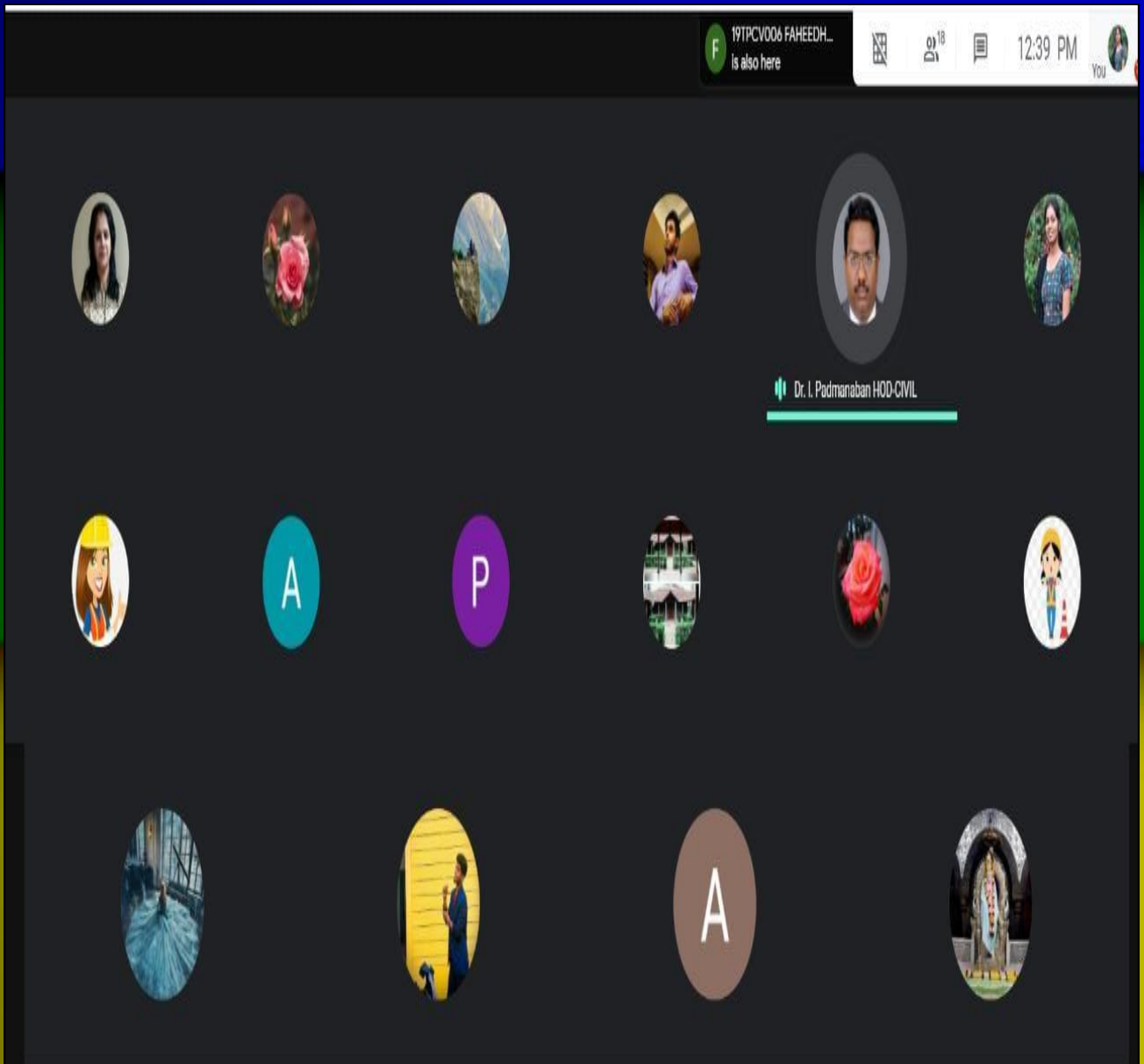
digestfeedback@skct.edu.in

CIVIL | PG ORIENTATION PROGRAMME



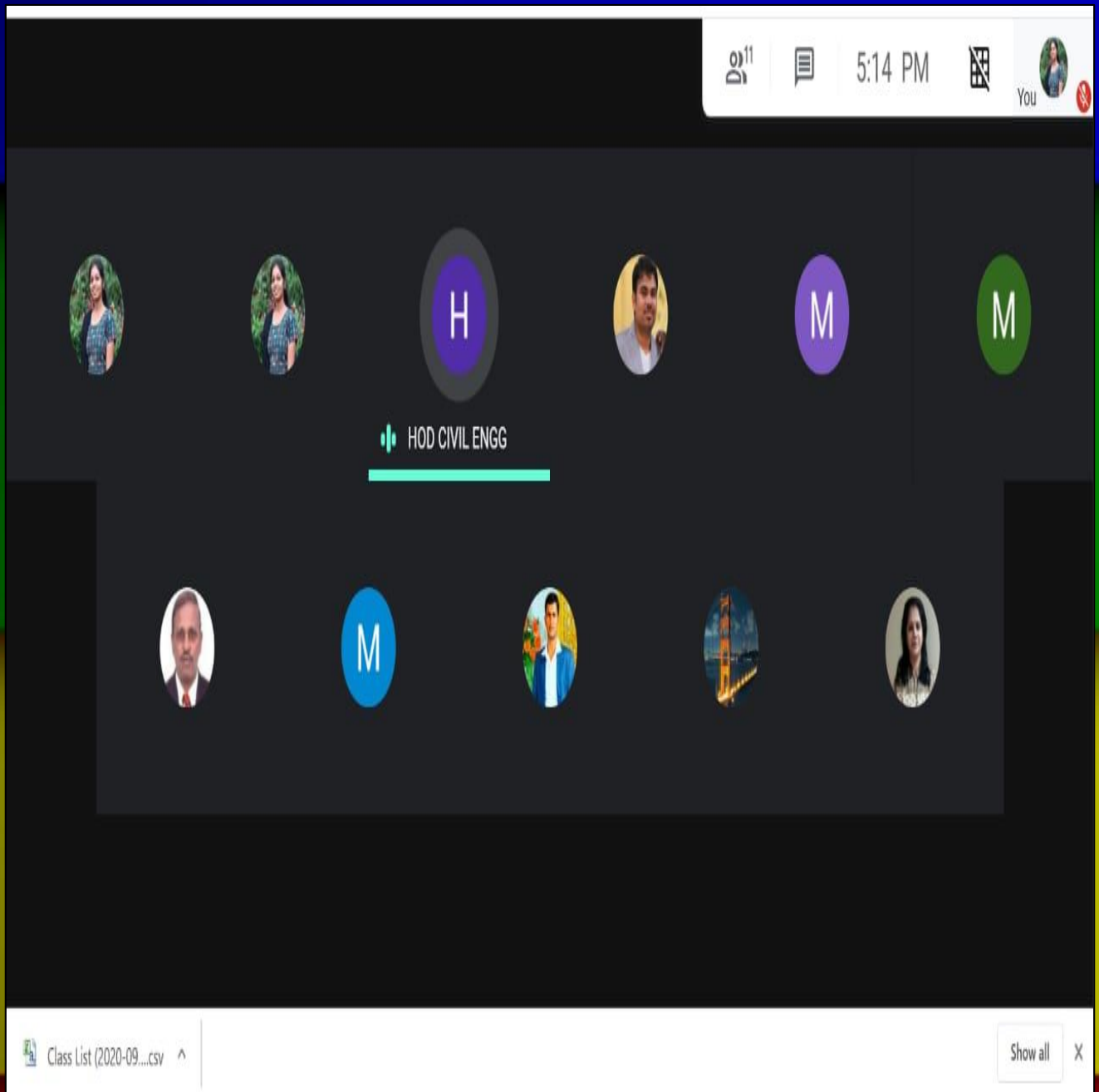
Dr I Padmanaban, Professor and Head, Dept. of Civil Engineering, organised an “**Orientation Programme**” for the Students of First M.E. Structural Engineering on 04 January 2020.

CIVIL | PG PROJECT REVIEW



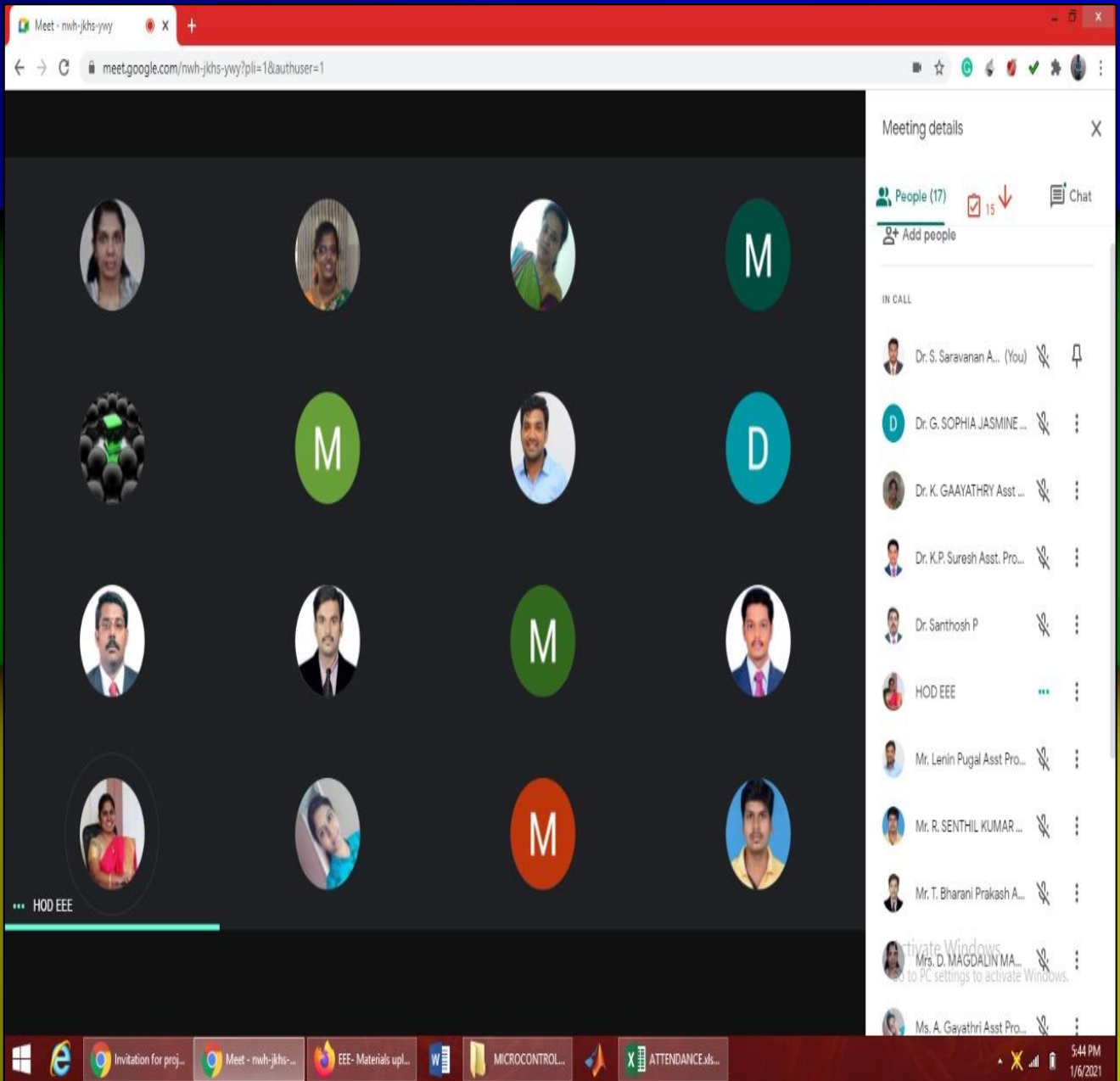
Dr I Padmanaban, Professor and Head, Dr V Sreevidya, Professor and Year Coordinator (PG), Dept. of Civil Engineering, conducted a meeting with the Students of Second M.E. Structural Engineering regarding the Phase 2, Project Works and Internship on 05 January 2020.

CIVIL | DEPARTMENT MEETING



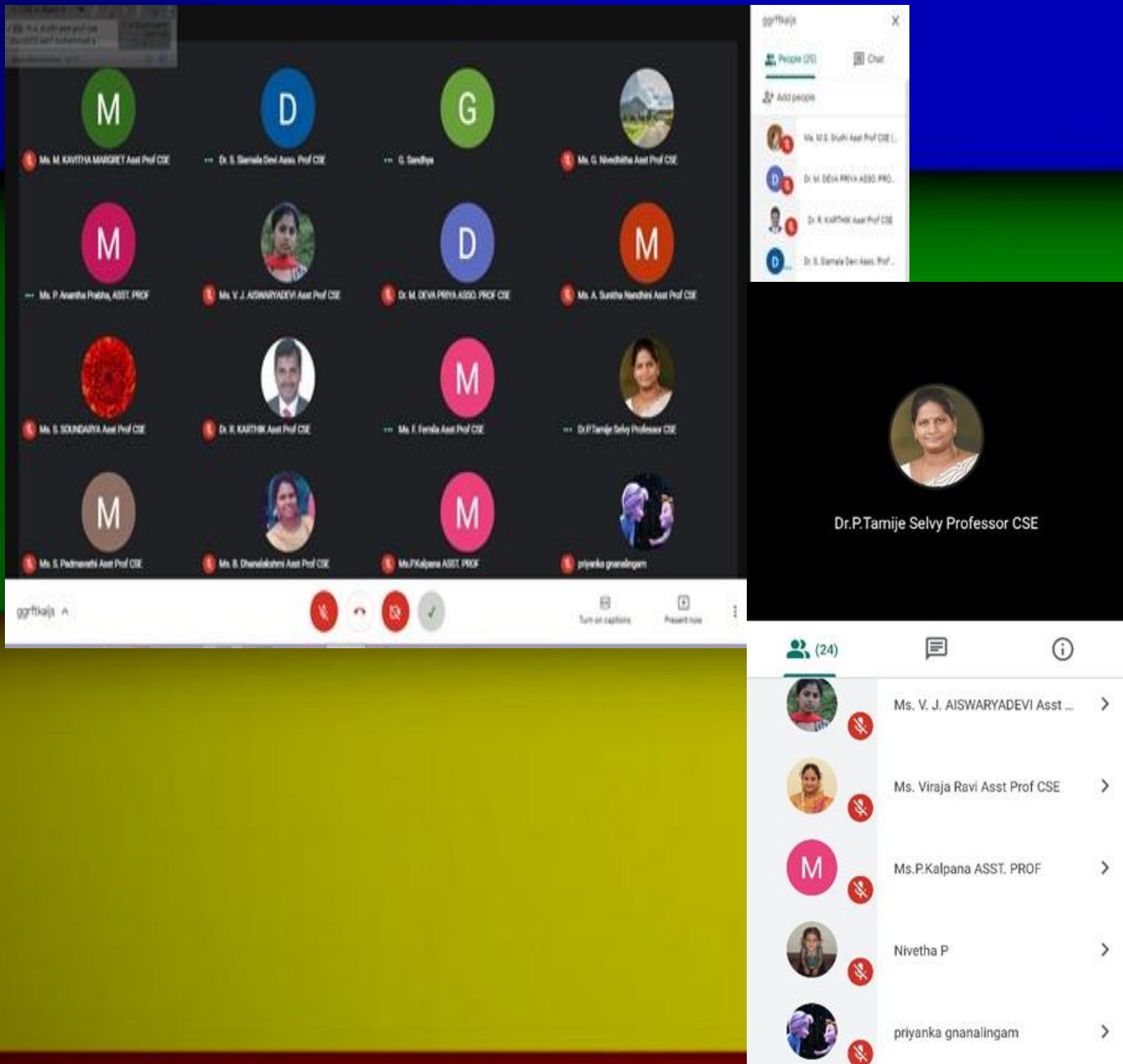
Dr I Padmanaban, Professor and Head, Dept. of Civil Engineering, conducted a meeting with the Members of Faculty regarding the Preparedness and Plan of Action for the Even Semester on 04 January 2020.

EEE | DEPARTMENT MEETING



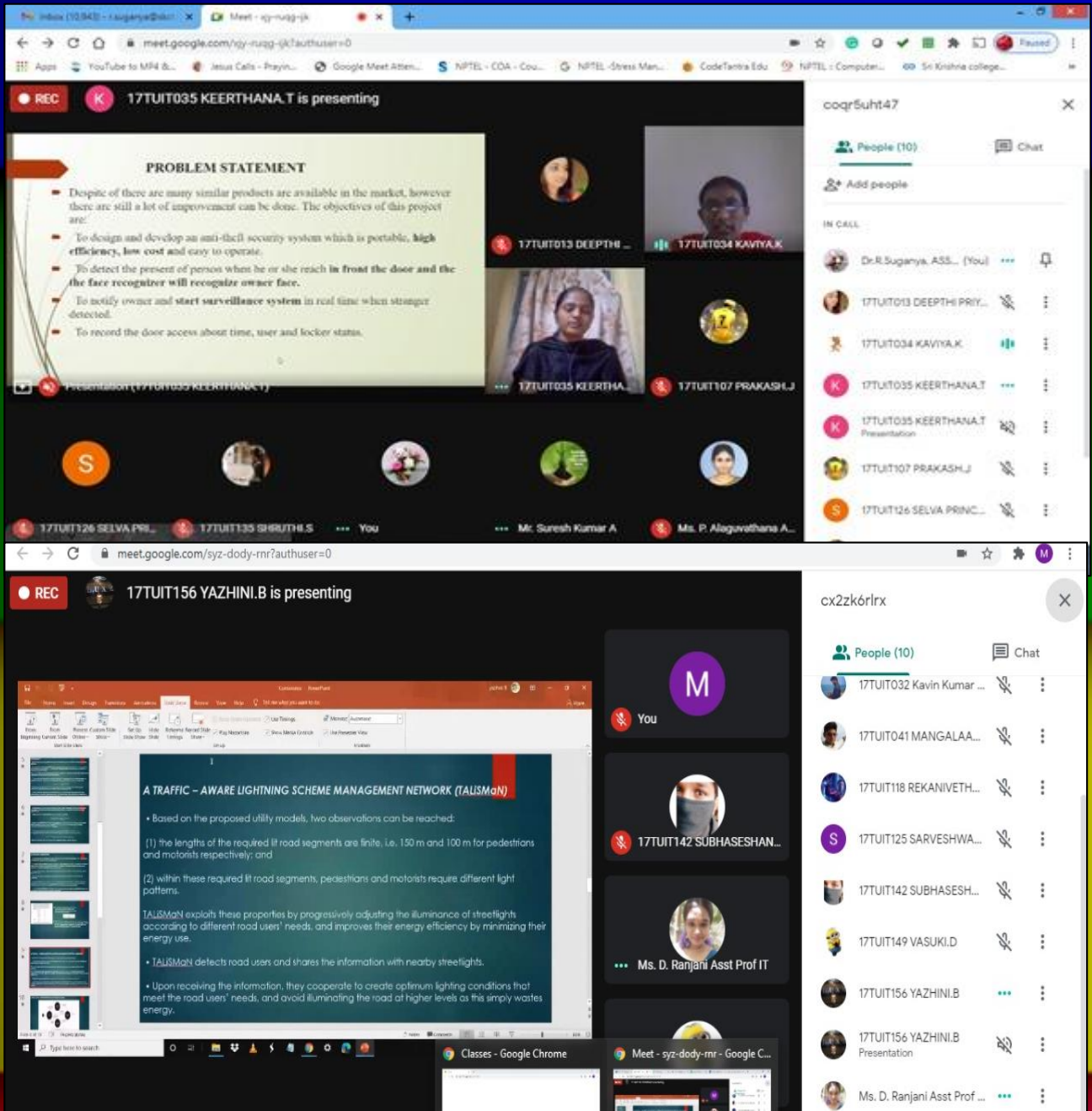
Dr K Lakshmi, Professor and Head, Dept. of EEE, conducted a meeting with the Members of Faculty regarding the Progress of Online Classes, R&D Activities and Placement Activities on 06 January 2021.

CSE | DEPARTMENT MEETING



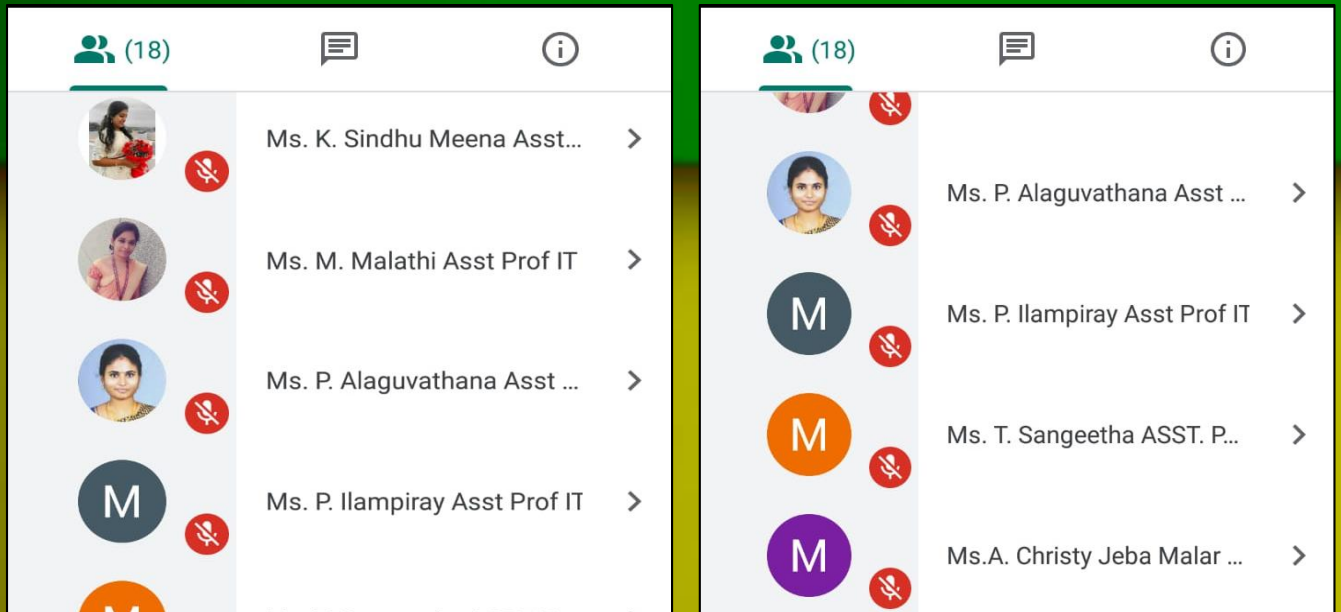
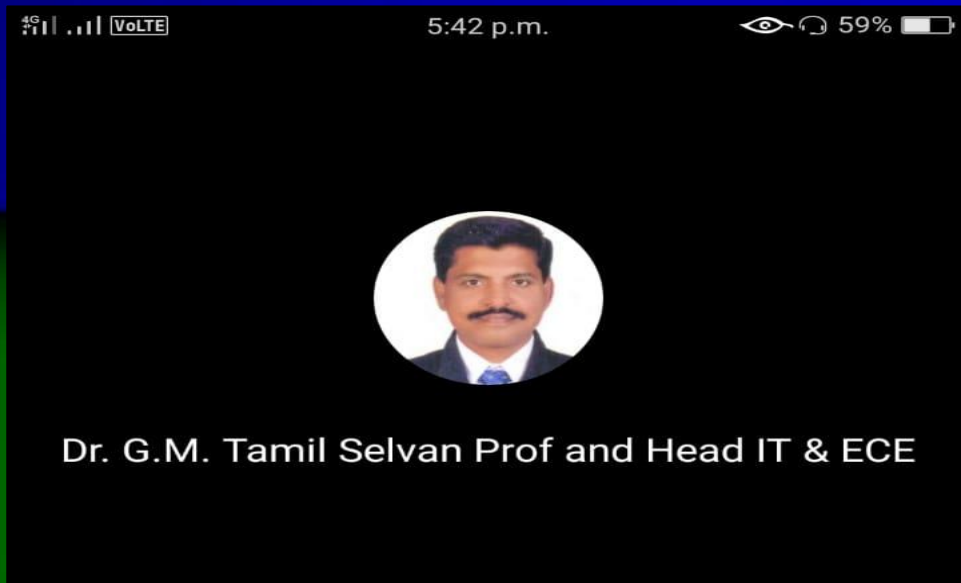
Dr P Tamije Selvy, Professor and Head, Dept. of CSE, conducted a meeting with the Members of Faculty regarding the Progress of Academic Activities on 07 January 2021.

IT | PROJECT REVIEW



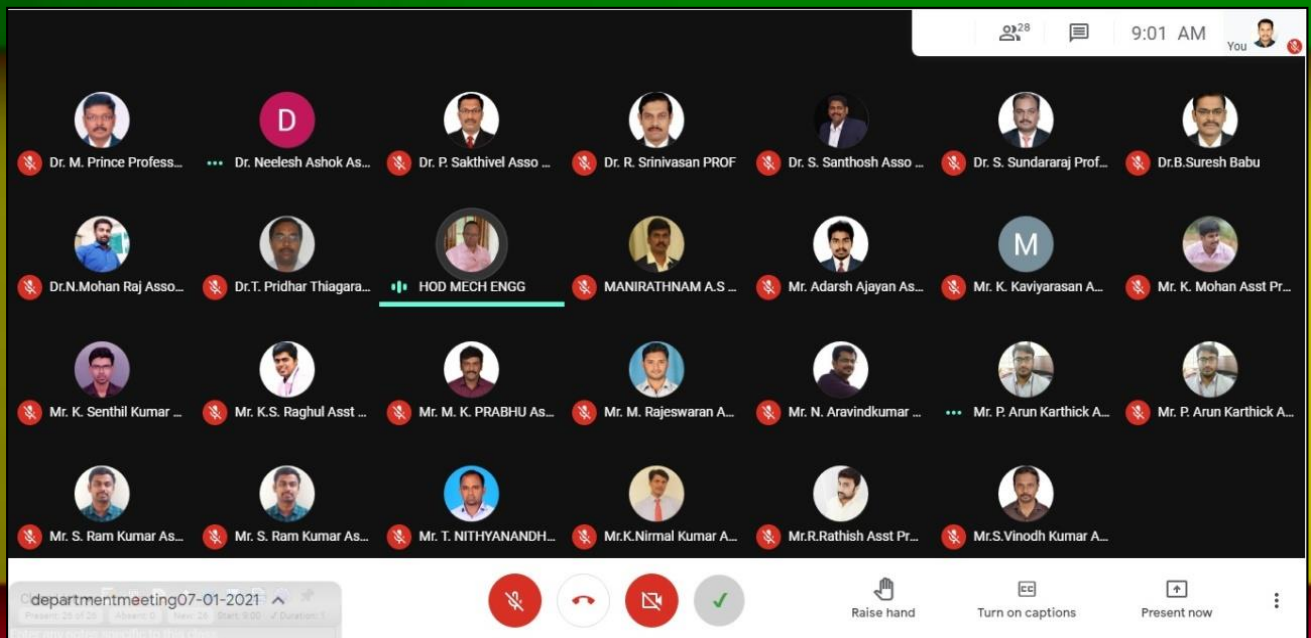
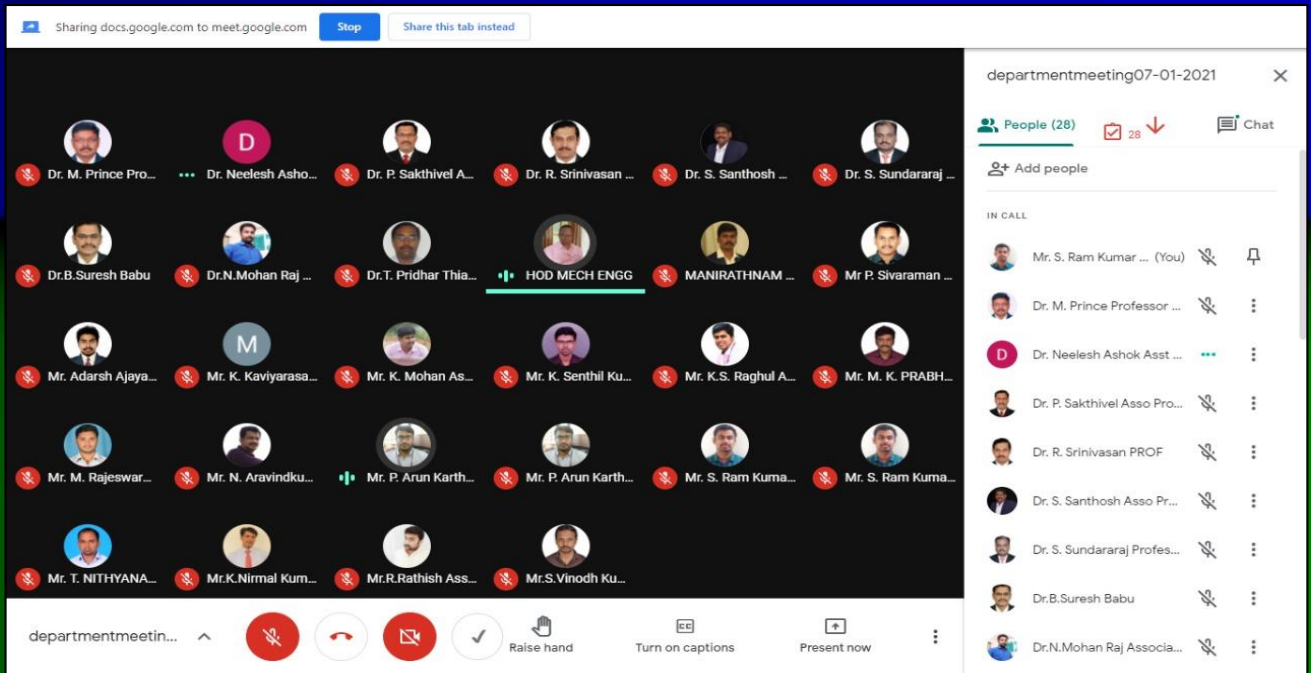
Students from Final B.Tech. IT presented a project in the Zeroth Review on 31 December 2020. The Members of Faculty, Dept. of IT, mentored the students.

IT | DEPARTMENT MEETING



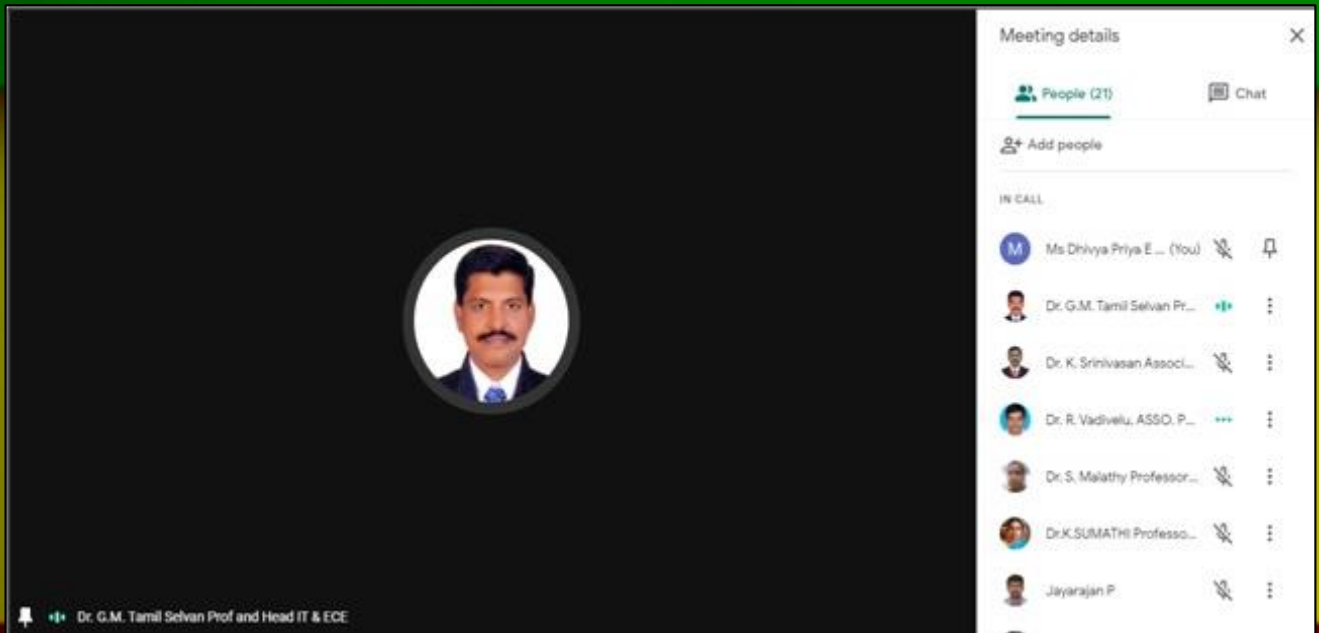
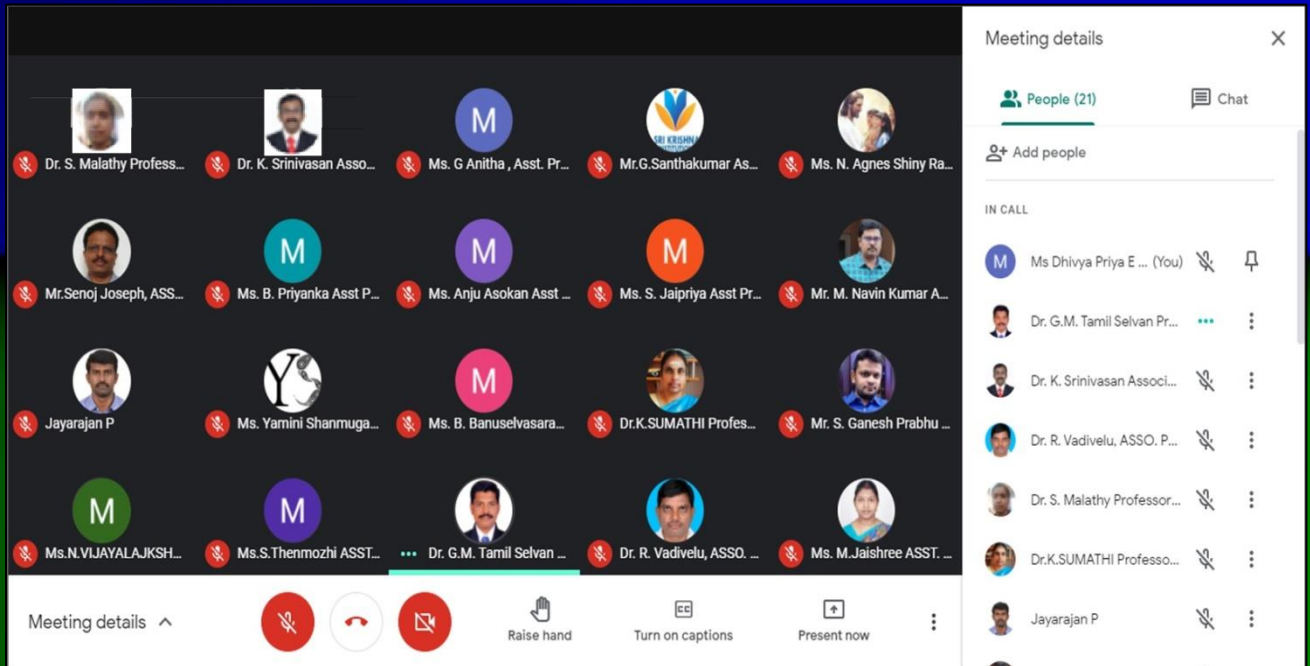
Dr G M Tamilselvan, Professor and Head InCharge, Dept. of IT, conducted a meeting with the Members of Faculty regarding the Even Semester Activities, Research Progress, Students' Participation, Placement and Student Activities on 26 December 2020.

MECH | DEPARTMENT MEETING



Dr P Prathap, Professor and Head, Dept. of Mechanical Engineering, conducted a meeting with the Members of Faculty on 07 January 2021.

ECE | DEPARTMENT MEETING



Dr G M Tamilselvan, Professor and Head, Dept. of ECE, conducted a meeting with the Members of Faculty regarding the Even Semester Classes, Students' Participation in Project Contest and Research Progress on 07 January 2021.

EVENTS ORGANISED



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@skctofficial



digestfeedback@skct.edu.in

S&H | NATIONAL FARMERS' DAY CELEBRATIONS



SRI KRISHNA COLLEGE OF TECHNOLOGY
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SCIENCE AND HUMANITIES DEPARTMENT
1 CSE A Presents

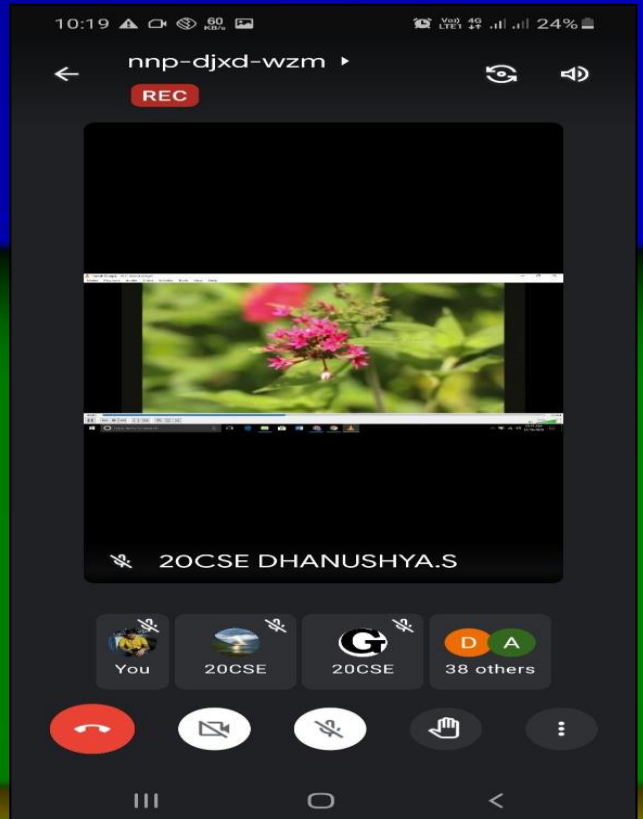
FARMERS DAY

Under the guidance

- ➔ Ms. T.Bhavani ASST.PROF Mathematics
- ➔ Ms.B.Pavithra ASST.PROF English

Events Timings

- ➔ Drawing 10am - 11am
- ➔ live quiz 26/12/2020, Saturday
- ➔ Natural photography



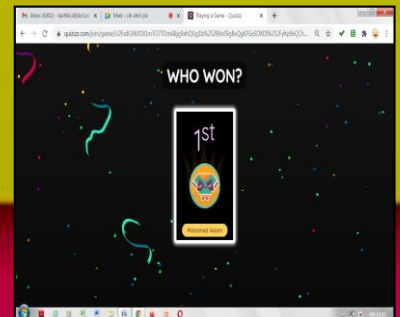
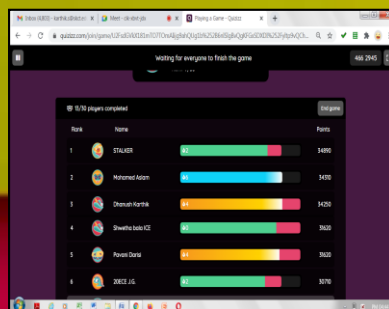
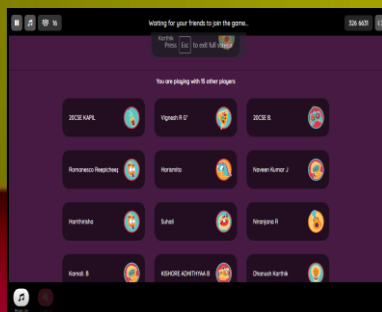
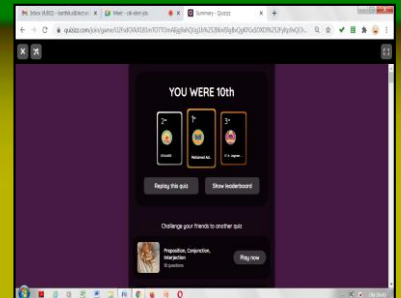
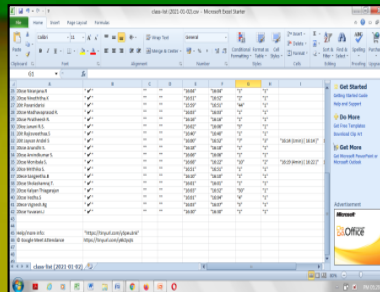
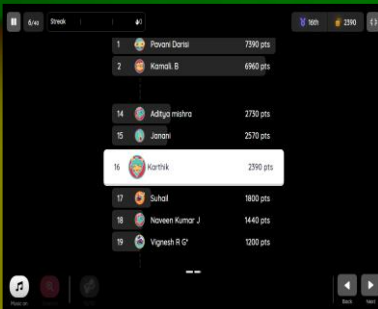
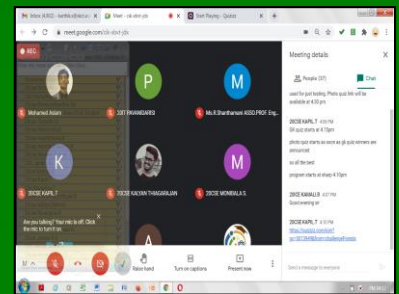
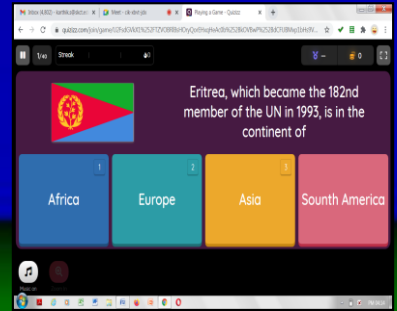
The Dept. of Science and Humanities organised various events like “Live Quiz, Natural Photography and Drawing” as a part of Farmers’ Day celebration on 26 December 2020.

S&H | NATIONAL SOLIDARITY DAY CELEBRATION



The Dept. of Science and Humanities organised various events like “Quotes Guessing, Logo Making, Word Hunting, Damage the Dialogue, Song Guessing and Think Differently” as a part of National Solidarity Day celebration on 26 December 2020.

S&H | QUIZ COMPETITION



Students of First B.E. CSE B organised the “Quiz Competition” on 02 January 2021.

S & H | GLOBAL FAMILY DAY CELEBRATION



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GLOBAL FAMILY DAY

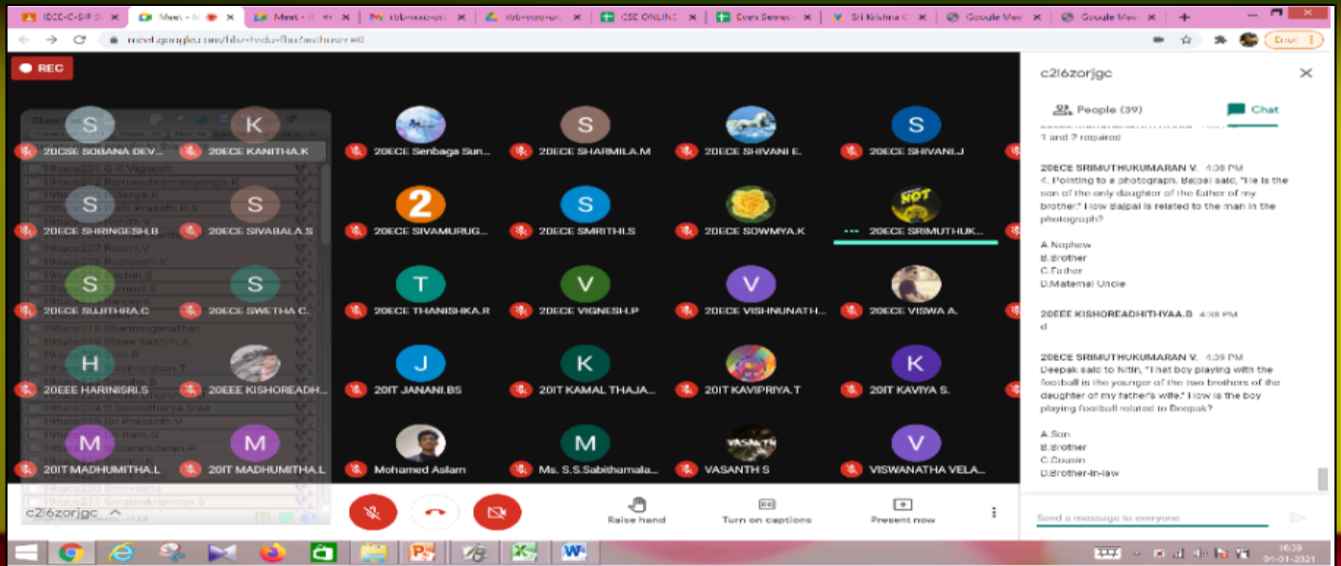
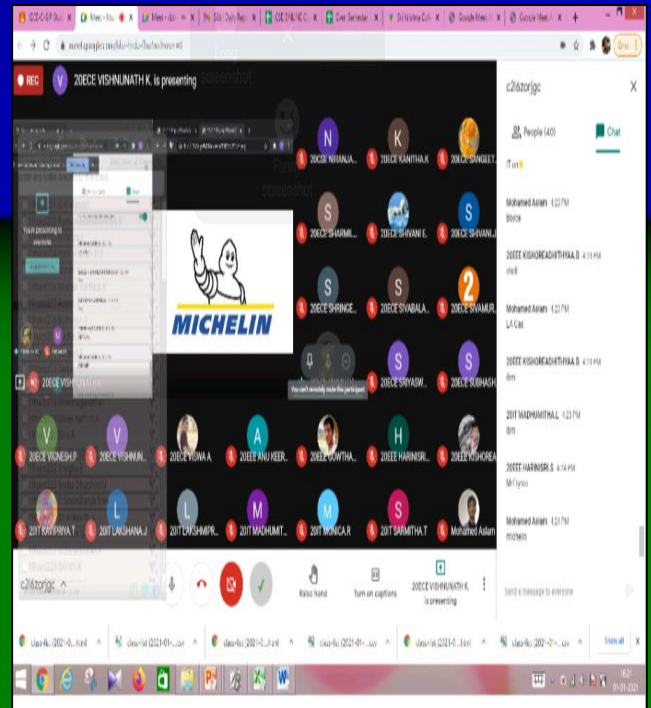
EVENTS:
JUST A MINUTE TALK
JUMBLED WORDS
LOGO FINDING

Held Under the Guidance of
Ms.S.Sabithamala Asst Prof(Chemistry)
Ms.C.Kalaiselvi Asst Prof(Mathematics)

CO-ORDINATED BY THE
STUDENTS OF
ECE-C

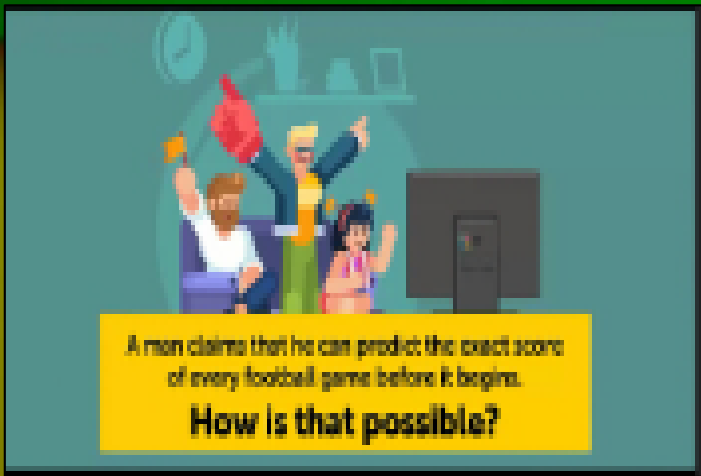
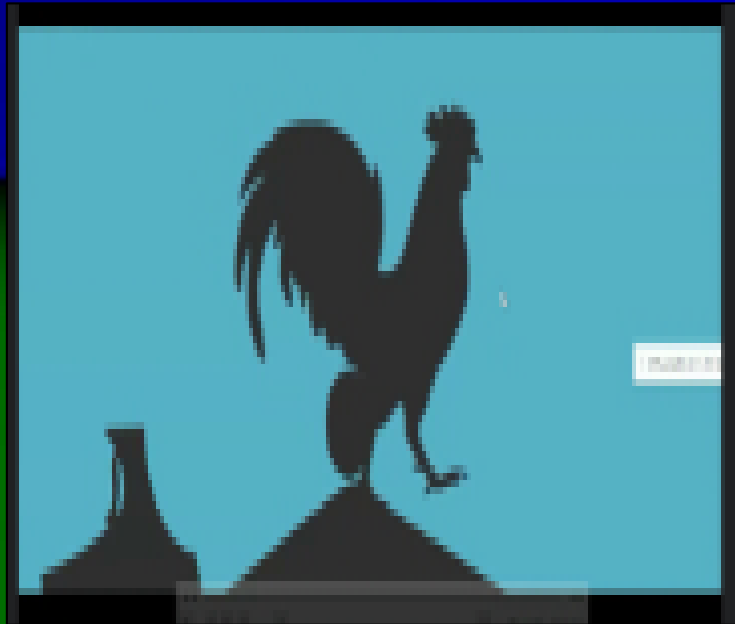
We cordially invite you all to take part in this event
DATE:04.01.2021
TIME:4PM-5PM

<https://meet.google.com/lookup/c216zorzjc>



Students of First B.E. ECE C Section organised various events like “Blood Relation Aptitude Question, Logo Finding and Jumbled Words” as a part of “Global Family Day” celebration on 04 January 2021.

S&H| INTERNATIONAL ORPHANS DAY



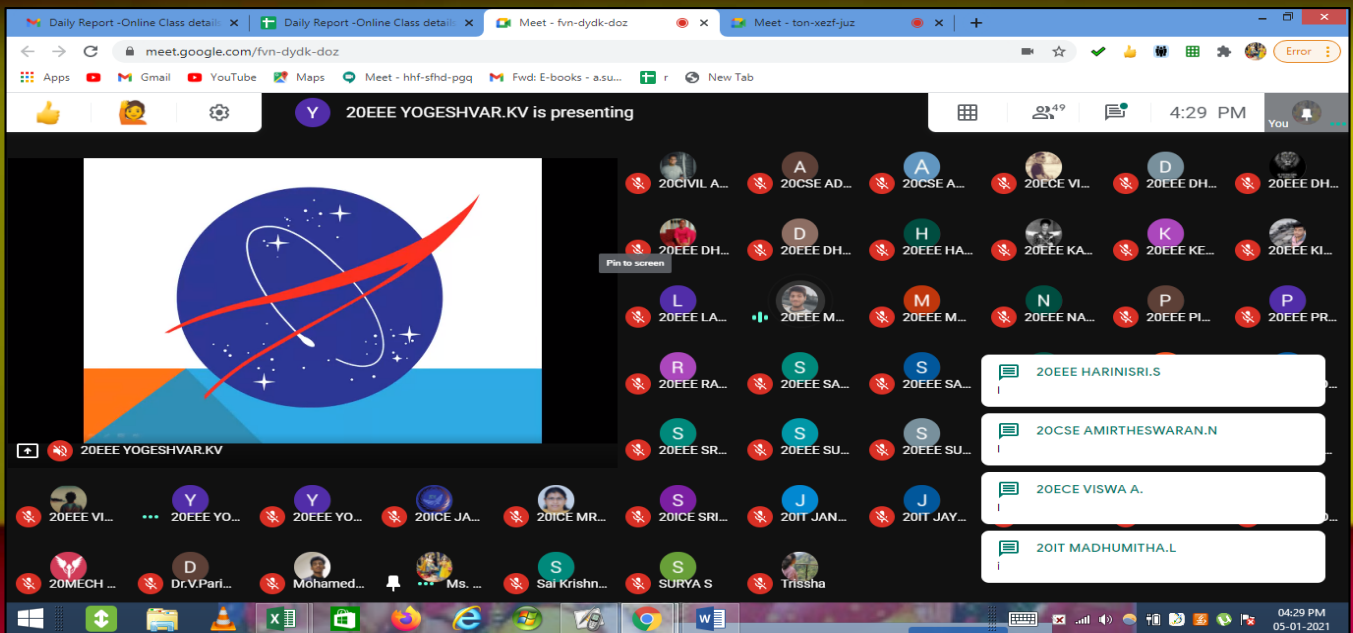
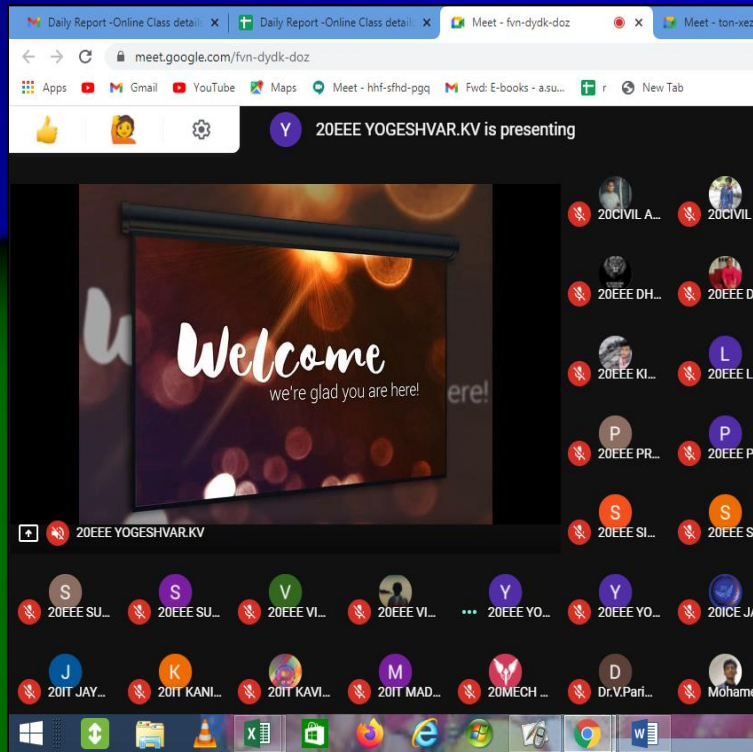
A man claims that he can predict the exact score of every football game before it begins.
How is that possible?



WHAT'S IN A NAME?
ASK THIS TO A ORPHAN
WHO WAS THROWN IN A
DUSTBIN.

Students of First B.E. Mechanical Engineering organised various events like **“Quiz, Answer the Pictures, Poster Making and Logo Making”** as a part of International Orphans Day celebrations on 07 January 2021.

S & H | GUESS THE LOGO



Students of First B.E. EEE B Section organised an event named “Guess the Logo” on 05 January 2021.

S &H | NATIONAL TECHNOLOGY DAY

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DEPARTMENT OF SCIENCE AND HUMANITIES
CORDIALLY INVITES YOU ALL FOR

“NATIONAL TECHNOLOGY DAY”

The Science today is the Technology of tomorrow

Events
✓ Tech intellect
✓ Tech talk

Join with us by using the link:
meet.google.com/fiw-owwe-wre

6th January 2021
4:00PM to 5:00PM

Organized by:
First year EEE-'A' students

Under the Guidance of :
Dr. K. R. Kanimozhi (Asso. Prof. CHEMISTRY)
Mrs. P. Sheeba Ranjini (Asst. Prof. MATHS)

EVENT CO-ORDINATORS:
❖ S Karthikeyan
❖ S Abiman Kumar
❖ R Dhivyadharshini
❖ S Lakshana

For Details Contact:
S Karthikeyan -7904826810
S Abimankumar -9566923898

WHICH REFERS TO A COMPUTER-GENERATED SIMULATION IN WHICH A PERSON CAN INTERACT WITHIN AN ARTIFICIAL THREE-DIMENSIONAL ENVIRONMENT USING ELECTRONIC DEVICES, SUCH AS SPECIAL GOGGLES WITH A SCREEN OR GLOVES FITTED WITH SENSORS?

TECH TALK
"IS TECHNOLOGY BOON OR A BANEE?"

20EEE ABIMANKUMAR.S

Students of First B.E. EEE A Section organised various events as a part of “National Technology Day” celebration on 06 January 2021.

