



**27 SEPTEMBER -  
01 OCTOBER  
2021**

**SPECIAL EDITION  
71**

# **SKCT DIGEST**



**SPECIAL  
EDITION**

**EDITOR - IN - CHIEF**

**Dr Srinivasan Alavandar,  
Principal**

**EDITORIAL TEAM**

**Ms S Soundarya, CSE  
Ms S Thenmozhi, ECE  
Ms B Pavithra, SSH**

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# STUDENTS' PARTICIPATIONS



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## CSE | STUDENT ACHIEVEMENT | WORLD RECORD EVENT 2021 BY KAMBAN KALAIKKODAM

TNTEU - Kamban KalaiKKoodam jointly Organizes 12 Hours Assist World Record Event

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லாக்டர் ஏ.பி.ஜே அப்துல் கலாம் ஐயாவின் பிறந்த நாளை முன்னிட்டு  
ASSIST உலக சாதனை

2021 மணி நேரத் தொடர் இணையவழி நிகழ்ச்சிகள்

தமிழ்நாடு ஆசிரியர் கல்வியியல் பல்கலைக்கழகம்  
பள்ளி ஆசிரியர்களுக்கான திறன்மேம்பாட்டு பயிற்சி மையம்  
மற்றும்  
கோவை கம்பன் கலைக்கூடம்  
மகிழ்வுடன் வழங்கும்

12 மணி நேரத் தொடர் நிகழ்வு  
தமிழும் கலைகளும்

மருத்துவர் திரு. கு.சுப்ரமணியம்

தமிழ்த் தென்றல்  
Dr.SD.கலையழகுதன்

பேரூர் ஆதீனம்  
குருமகாசந்திதானங்கள்  
கயிலைப்புனிதர் முனைவர்  
திருப்பெருந்திரு சாந்தலிங்க மருதாசல அடிகளார்  
அவர்கள்

வழக்கறிஞர்  
திரு. இரவிந்திரன்

நம்பிக்கை  
நாகராஜன்

நேரடி ஒளிபரப்பு  
தமிழ் அமெரிக்கா  
Tamil America

நாள் & நேரம்  
13/09/2021  
காலை 6 மணி - மாலை 6 மணி

Ms Kamile K, Student of Third B.E. CSE B section, gave speech on "எங்கே என் தமிழ்" in a "World Record Event 2021" organized by kamban kalaikkodam.

Link <https://youtu.be/ARfG6gSaxIw>

## ECE | STUDENT ACHIEVEMENT | MATRIX - 2021 | 24 HOURS VIRTUAL HACKATHON

**MATRIX 2K21**  
Matrix, Mithra Med, Niranjana, Th...

evaluation and process, 9 teams have been shortlisted for finals. The final event will start from 11am and end by 12.30pm in ZOOM platform. Finalists will get 5 mins for presentation followed by a 3 mins Q&A session. Finalists are requested to strictly follow the timings. The judges who are about to judge you are leading professionals in their respective field. So kindly be on time, please note that we won't consider the teams coming in late. Zoom link will be shared 15 mins prior the event.

The finalists are as follows.

- 1)MX24--Fortified Security System--R.G.SHARATH KUMAR
- 2)MX49--BIO-MEDICS--NIKESH S
- 3)MX15--G GET--KARTHIK K
- 4)MX28--Fantastic Four--Vishal K B
- 5)MX10--TECHNOPHILICS--Vanshika
- 6)MX38--Qubits--Rutvik Mehenge
- 7)MX26--ZYNAB M--ZYNAB M
- 8)MX21--PHOENIX CREW--KAVIN CHANDAR R S
- 9)MX4--Tech\_minions--Sujith Selvaraj

10:03 AM

**MATRIX - 2021**

**TOPIC:SMART SANITKA**

TEAM: Tech\_Minions

TEAM MEMBERS:  
Sujith Selvaraj  
Janani.R.S

MENTOR:  
Mr.Ganesh Prabhu,Asst.Prof ECE

Sujith Selvaraj    20TUIIC013 JANANI R.S.    Kovendan AKP    shriya mukundan

You're sharing the screen    Stop Share

**Lingesh Waran**

Mr Sujith Selvaraj, Student of Second B.E. ECE and Ms Janani R S, Student of Second B.E. ICE, have been selected as the finalists in "Matrix - 2021" organised by St. Joseph's Engineering College, Chennai. Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, mentored the students.

## IT | STUDENT ACHIEVEMENT | EARLY BIRD WINNER TECH CHALLENGE | CAPGEMINI

From: V, Sudhindra <[sudhindra.v@capgemini.com](mailto:sudhindra.v@capgemini.com)>  
Date: Tue, Sep 14, 2021, 1:14 PM  
Subject: Tech Challenge 2021 Early Bird Winner | Required Details  
To: V, Sudhindra <[sudhindra.v@capgemini.com](mailto:sudhindra.v@capgemini.com)>  
Cc: Pawar, Suraj <[suraj.a.pawar@capgemini.com](mailto:suraj.a.pawar@capgemini.com)>, Wadkar, Vishal <[vishal.wadkar@capgemini.com](mailto:vishal.wadkar@capgemini.com)>, IN, Techchallenge <[techchallenge.in@capgemini.com](mailto:techchallenge.in@capgemini.com)>

Hi there!

Congratulations on being an early bird winner for Tech Challenge 2021, we would be sending you exclusive Capgemini-branded merchandise at your postal address.

Please fill the form on the below link before **11 AM tomorrow**, so that our backend team can send your package.

<https://www.capgemini.com/in-en/tech-challenge-early-bird-winners/>

Looking forward for your participation in Tech Challenge 2022.

Regards,

**Sudhindra V**

Digital Marketing Consultant | India Marketing & Communications

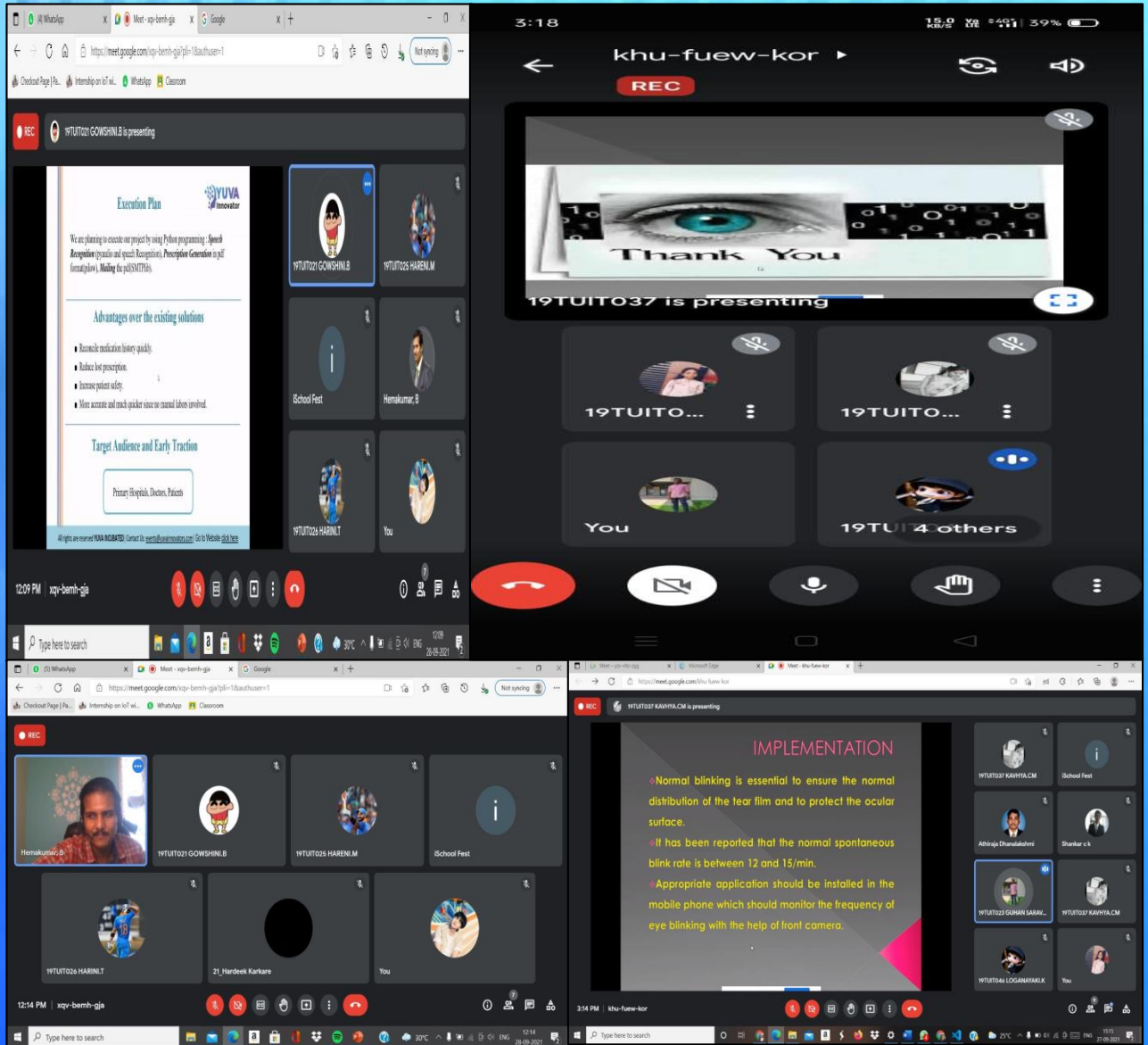
Capgemini India | Mumbai

[www.capgemini.com/in-en/](http://www.capgemini.com/in-en/)



Mr S ManojKumar, Student of Third B.Tech. IT A section, has been selected as the “**Early Bird Winner of Tech Challenge 2021**” organised by Capgemini India, Mumbai.

# IT | STUDENTS PARTICIPATION | YUVA INNOVATION CHALLENGE



Ms B Gowshini, Ms M Hareni, Ms T Harini, Mr M Kavinkumar, Mr M Guhan Saravanan, Ms Mirudhala, Ms C M Kavhya and Ms K Loganayaki, Students of Third B.Tech. IT, presented their projects in “YUVA Innovation Challenge” on 27 September 2021.

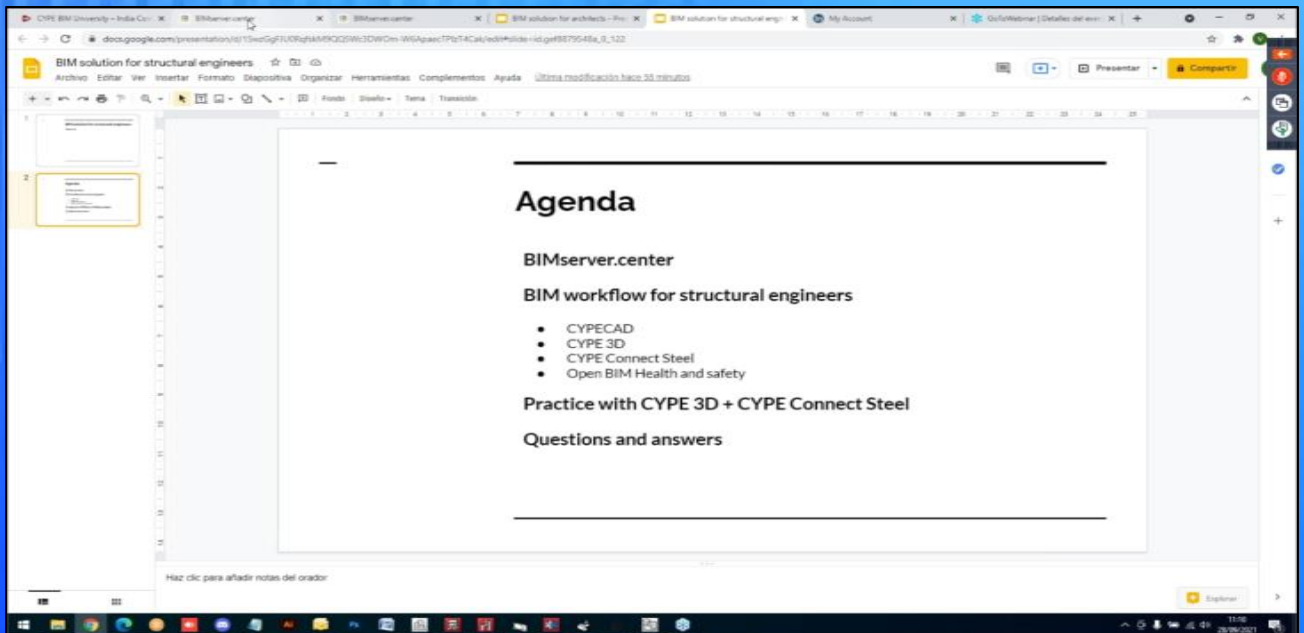
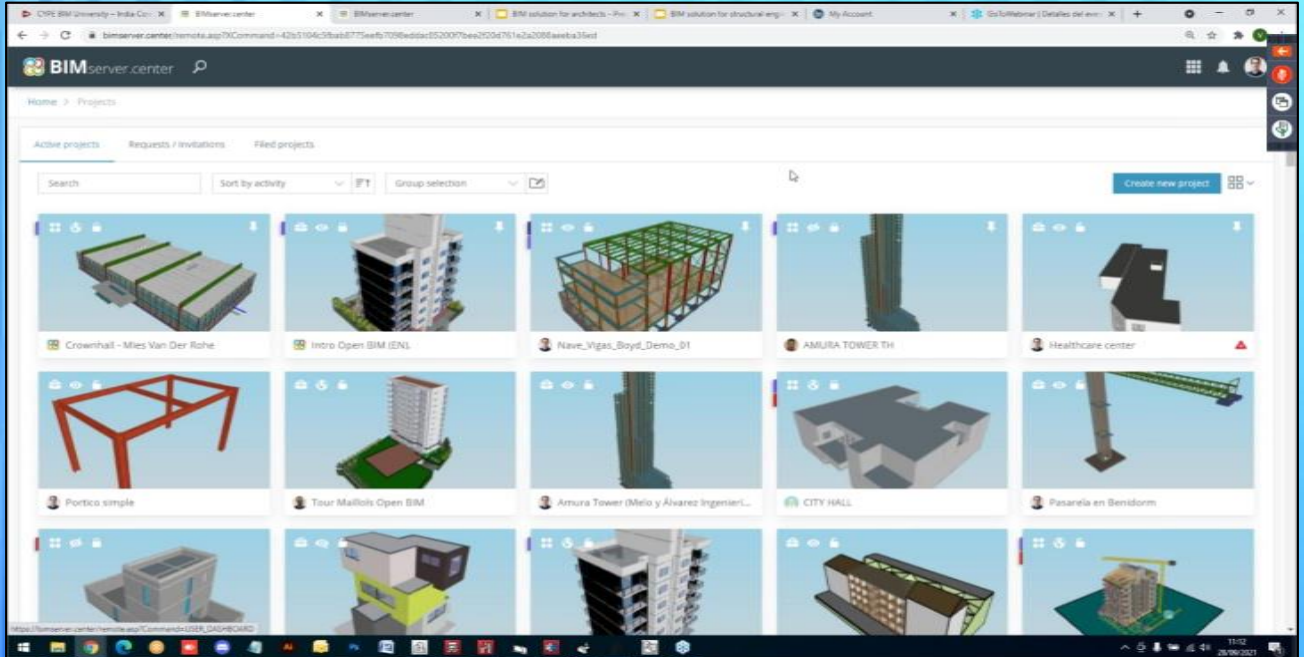
**CIVIL | STUDENT  
PARTICIPATION | INTERNATIONAL CONFERENCE  
ICWEE 2021**



Mr K K Pranesh, Student of B.E. Civil Engineering (Batch 2016-2020), presented a paper on “**Experimental Study on Leachate Movement Control using High Density Polyethylene (HPDE) Sheets**” in an International Conference on Water, Energy and Environment ICWEE2021 organised by Sathyabama Institute of Sciences and Technology, Chennai on 23 September 2021.



# EEE | STUDENTS' PARTICIPATION | WEBINAR ON CYPE SOFTWARE



Students of Third B.E. EEE B section attended a webinar on “Cype Software.”

## SKCT | CAPGEMINI LEADERSHIP AWARD



Capgemini honored Sri Krishna College of Technology, Coimbatore for being one among the top 5 in the “**Capgemini Tech Challenge 2021**” for the highest number of campus participation in solving trending tech challenges at National Level. Principal, SKCT appreciated the coordinator Ms Kalpana and HoD/CSE for coordinating the same.

# FACULTY PARTICIPATIONS



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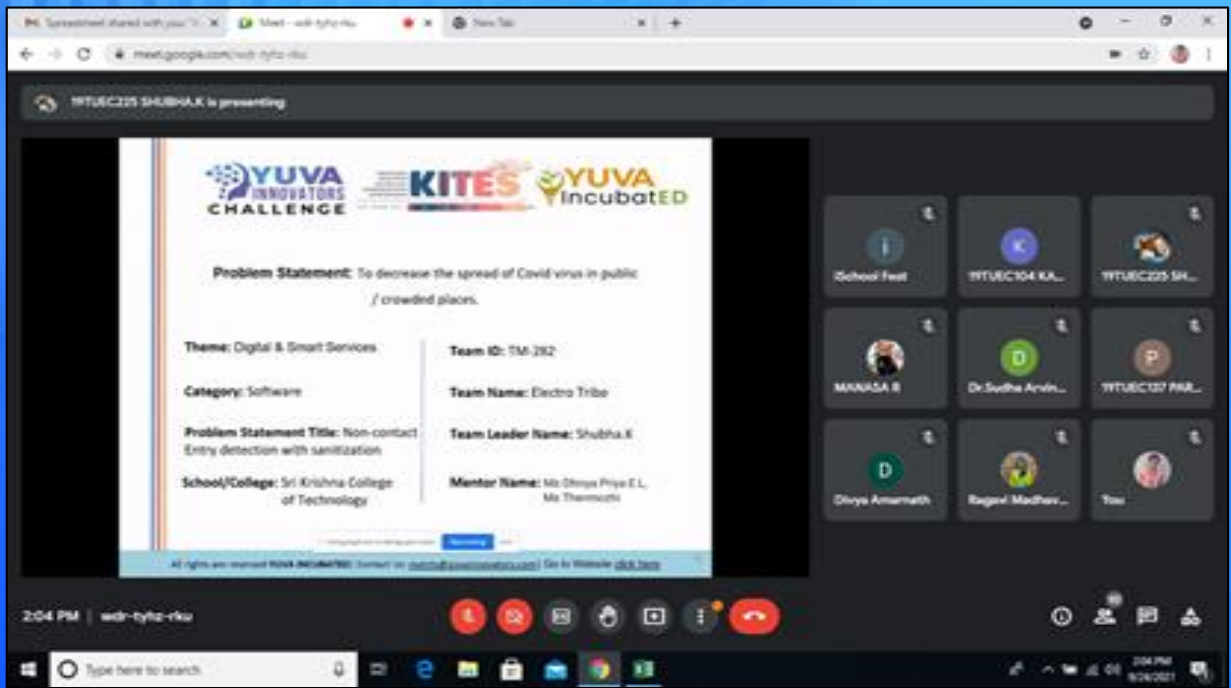
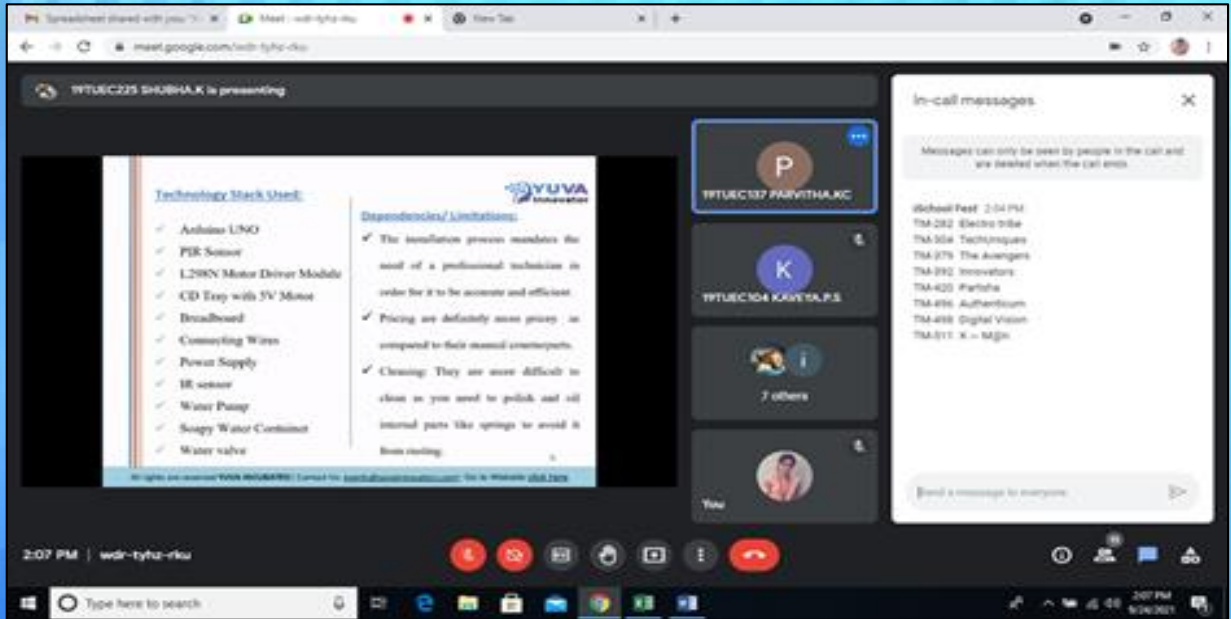
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## MECH | FACULTY ACHIEVEMENT | AICTE AND ISTE GRANTS



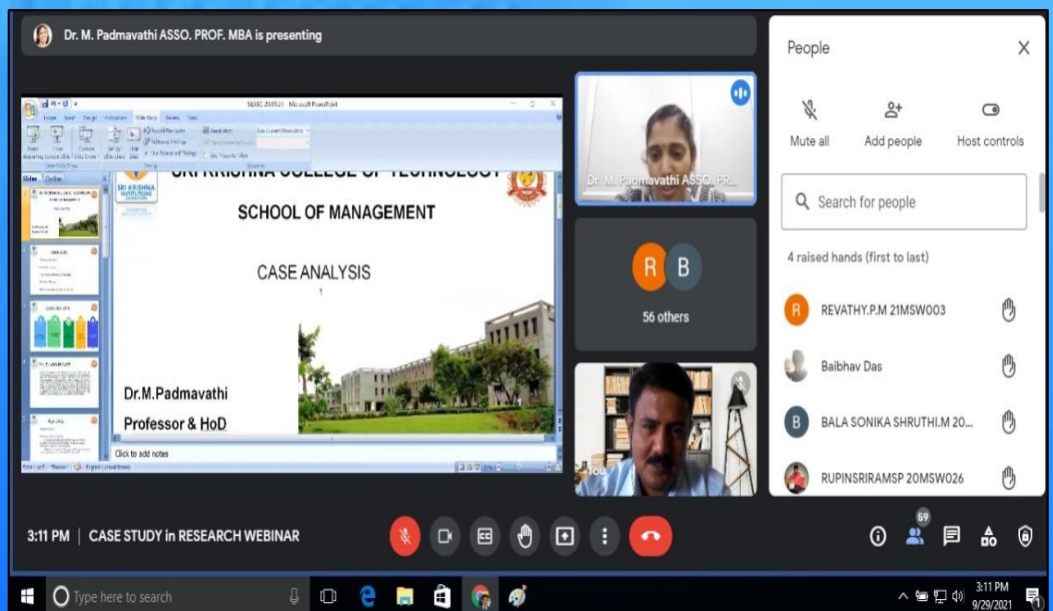
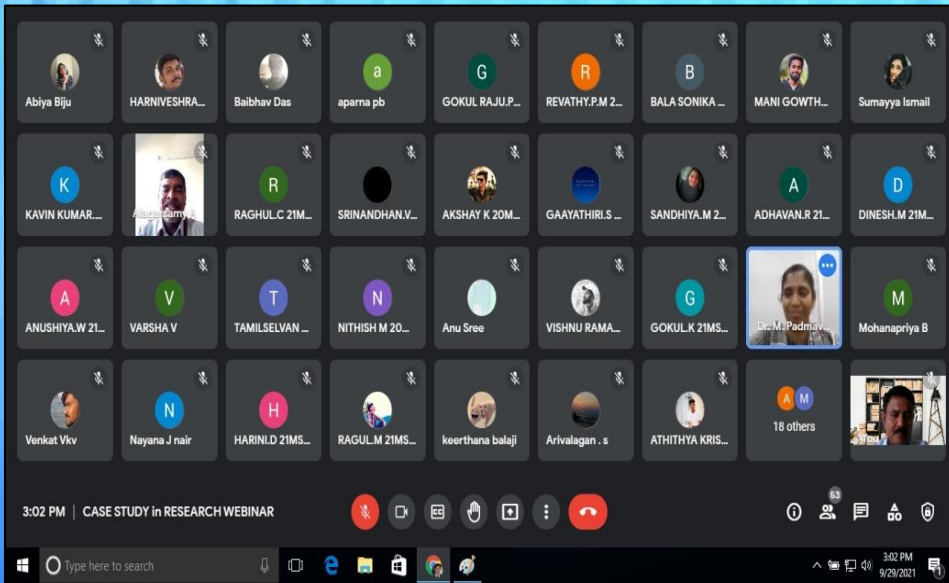
Dr R Srinivasan, Professor, Dept. of Mechanical Engineering, received a grant for conducting a Six-day AICTE-ISTE Refresher Programme on "Curriculum Design, Assessment, Evaluation and Innovative Teaching and Learning to Achieve Outcome Based Education."

**IT | JURY PANEL MEMBER | YUVA INNOVATION CHALLENGE**



Ms M Malathi, Asst. Professor, Dept. of IT, served as a **“Jury Panel Member”** in YUVA Innovation Challenge – Round 2 on 24 September 2021.

**SoM | RESOURCE PERSON | CASE ANALYSIS**



Dr M Padmavathi, Professor, Assoc. Professor and Head, School of Management, served as a Resource Person for an event on **“CASE Analysis”** organised by Sri Krishna College of Arts and Science, Coimbatore on 29 September 2021.

## CIVIL | FACULTY PARTICIPATION | INTERNATIONAL CONFERENCE ICWEE 2021



Mr T P A Aravind, Asst. Professor, Dept. of Civil Engineering, presented a paper on “**Experimental Study on Leachate Movement Control using High Density Polyethylene (HPDE) Sheets**” in an International Conference on Water, Energy and Environment ICWEE2021 organised by Sathyabama Institute of Sciences and Technology, Chennai on 23 September 2021.

IT | RESEARCH PROPOSAL | TNSCST



The banner features a red and blue background. At the top, a laptop displays a 'Project Proposal' form. Below it, the ProjectContest.com logo is on the left, and the slogan 'SPREADING INNOVATIONS' is on the right. A central red banner with a white exclamation mark reads 'CONTEST ALERT'. Below this, the TNSCST logo is shown in a white circle. To the right of the logo, the text reads 'Project Proposals Invited Under STUDENT PROJECTS SCHEME 2021' and 'TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY'. At the bottom right, there is a 'SUBSCRIBE. GET NOTIFIED' button with a YouTube icon and the text 'ProjectContest'. Social media icons for Facebook, Instagram, Twitter, LinkedIn, and YouTube are at the bottom, along with the handle '@ProjectContest'. A faint 'TNSCST' watermark is visible on the left side of the banner.

Ms T Sangeetha, Asst. Professor, Dept. of IT, submitted the TNSCST Student Projects Scheme proposal on “Robust Face Mask Detection and Body Temperature Monitoring Using Deep Learning With IoT-Enabled Smart Doors” on 22 September 2021.



**CSE | PROPOSAL | DASSAULT SYSTEMES****INTELLIGENT EMERGENCY ALERT SYSTEM WITH INTEGRATED  
DASHCAM**

**Dr. M. Deva Priya, ASP/CSE**

**Mr. V. Venkatesh, AP/CSE**

**Ms. G. Sandhya, AP/CSE**

**Sri Krishna College of Technology, Coimbatore**

Dr M Deva Priya, Ms G Sandhya, Assoc. Professors and Mr V Venkatesh, Asst. Professor, Dept. of CSE, submitted a proposal on **"Intelligent Emergency Alert System with Integrated Dashcam"** to Dassault Systemes on 24 September 2021.

**CSE | PROPOSAL | DASSAULT SYSTEMES****Smart Precision Farming Approach to avoid Contingency Problems in Banana Plant**

**Dr. R. Nithiavathy, AP / CSE,**

**Ms. A. Sunitha Nandhini, AP / CSE**

**Ms. P. Divya, AP / CSE**

**Sri Krishna College of Technology, Coimbatore**

Dr R Nithiavathy, Ms A Sunitha Nandhini and Ms P Divya, Asst. Professors, Dept. of CSE, submitted a proposal on "**Smart Precision Farming Approach to avoid Contingency Problems in Banana Plant**" to Dassault Systemes on 24 September 2021.

## FACULTY PARTICIPATION | REFEREE CLINIC PROGRAMME



Tamil Nadu Basketball Association (TNBA) organised a “**Referee Clinic Programme**” for updating the rules and regulations of FIBA, the International Basketball Federation at Jawaharlal Nehru Stadium, Chennai during 25-26 September 2021.

EEE | FACULTY CERTIFICATION | COURSE ON EV DESIGN USING MATLAB



Dr K P Suresh, Asst. Professor, Dept. of EEE, completed e Learning course on “**Master Class on EV Design using MATLAB**” organised by Pantech e Learning Pvt. Ltd., Chennai during 23 August-21 September 2021.

# RESEARCH



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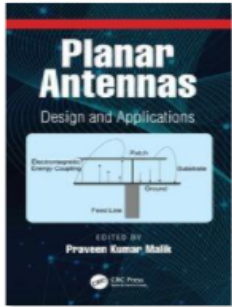


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## ECE | BOOK CHAPTER PUBLISHED | FOUR PORT MIMO ANTENNA WITH SWASTIKA SLOT FOR 5G ENVIRONMENT



Chapter

### Four Port MIMO Antenna with Swastika Slot for 5G Environment

By E. L. Dhivya Priya, T. Poornima, K. R. Gokul Anand

Book [Planar Antennas](#)

Edition	1st Edition
First Published	2021
Imprint	CRC Press
Pages	17
eBook ISBN	9781003187325

Chapter 6 | 17 pages

Four Port MIMO Antenna with Swastika Slot for 5G Environment

By E. L. Dhivya Priya, T. Poornima, K. R. Gokul Anand

Abstract ^

Multiple input multiple output (MIMO) supports various applications because of increase capacity, low signal loss, and less multipath fading. The MIMO dominates single input single output (SISO) by the method of improvised throughput achievement. Thus a 4 port MIMO well suits for various applications by offering a good pattern diversity, low correlation co-efficient, and high gain with good directivity. An improved bandwidth and efficiency can be achieved by introduced slot over the substrate or sometimes above the ground plane. Thus incorporation of swastika Slot in a 4 port MIMO antenna will offer a better advantage in the 5G environment. The swastika based slot antenna reduces the mutual coupling and provides better isolation than other slot types. The idea is to design MIMO antenna with 4 port and a swastika slot, to make it suitable for 5G applications. 5G is the fifth generation wireless communication technique that reduces the latency and supports for virtual reality. It makes the network faster with higher capacity for satisfying the demand of connectivity. Range of 5G increases the frequencies on which computerized cell innovations will move information. This more extensive range accessible for use increases the general transmission capacity of cell systems, considering extra gadgets to interface. Thus four port swastika MIMO well suits the 5G environment. To make them suitable for compact 5G applications, the proposed antenna are verified with the simulators. The simulated result verifies the operating frequency of the designed antenna at 1.96 GHz with a return loss of  $-18$  dB. Thus, because of the advantages it holds over the designed 4 port MIMO antenna can be used in two way radio applications, television,



Taylor & Francis  
Taylor & Francis Group

published

Ms Dhivya Priya E L, Asst. Professor, Dept. of ECE, published a Book Chapter on “**Four Port MIMO Antenna with Swastika Slot for 5G Environment**” in the Book “**Planar Antennas - Design and Applications - First Edition**” by Taylor and Francis Group.

# ECE | PAPER PUBLICATION | SECURE MULTIMEDIA DATA PROCESSING SCHEME IN MEDICAL APPLICATIONS

Multimedia Tools and Applications  
https://doi.org/10.1007/s11042-021-11481-z

1197: ADVANCES IN SOFT COMPUTING TECHNIQUES FOR VISUAL  
INFORMATION-BASED SYSTEMS



## Secure multimedia data processing scheme in medical applications

K. Srinivasan<sup>1</sup> · Geetanjali Rathee<sup>2</sup> · M. Ramkumar Raja<sup>3</sup> · Naveen Jaglan<sup>4</sup> ·  
T. V. Mahendiran<sup>5</sup> · Thangam Palaniswamy<sup>5</sup>

Received: 28 July 2020 / Revised: 19 May 2021 / Accepted: 19 August 2021  
© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2021

### Abstract

People communicate in a variety of ways via multimedia through the propagation of various techniques. Nowadays, variety of multimedia frameworks or techniques is used in various applications such as industries, software processing, vehicles and medical systems. The usage of multimedia frameworks in healthcare systems makes it possible to process, record and store huge amount of information generated by various medical records. However, the processing and management of huge records of every individual lead to overload the security risk and human efforts. The aim of this paper is to propose a secure and efficient technique that helps the medical organizations to process every record of individuals in a secure and efficient way. The proposed mechanism is validated against various security and processing metrics over conventional mechanisms such as Response Time, Message Alteration Record, Trusted Classification Accuracy and Record Accuracy. The analyzed results claim the significant improvement of proposed mechanism as compare to other schemes.

**Keywords** Multimedia process · Healthcare security · Record storage · Trusted frameworks · Security schemes

### 1 Introduction

Nowadays, people communicate in several of ways through multimedia techniques. It is categorized as a variety of formats data sources, resolutions and media techniques. Recently, healthcare department is considered to be a significant, complex and a rapidly growing field of multimedia process that ensures a way to enhance the interaction quality among doctor and patient and simultaneously at the same time, a step towards their improved empowerments in corrective process [12, 23]. The integration of healthcare and multimedia schemes may further enhance the process of managing, recording, controlling

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Extended author information available on the last page of the article

Published online: 14 September 2021

Springer



Dr K Srinivasan, Assoc. Professor, Dept. of ECE, published a paper on "Secure Multimedia Data Processing Scheme in Medical Applications" in Springer- Multimedia Tools and Applications on 29 September 2021.

EEE | PUBLICATION | SOLAR PHOTOVOLTAIC BASED DYNAMIC VOLTAGE RESTORE WITH DC - DC BOOST CONVERTER FOR MITIGATING POWER QUALITY ISSUES IN SINGLE PHASE GRID

ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS  
<https://doi.org/10.1080/15567036.2021.1984614>



Check for updates

Solar photovoltaic based dynamic voltage restorer with DC-DC boost converter for mitigating power quality issues in single phase grid

Suresh Paramasivam<sup>a</sup>, Senthil Kumar Ramu<sup>b</sup>, Senthilkumar Mani<sup>b</sup>, Suresh Manokar<sup>c</sup>, Suma Christal Mary Sundararajan<sup>d</sup>, Hitesh Panchal<sup>e</sup>, and Kishor Sadasivuni<sup>f</sup>

<sup>a</sup>Department of Electrical and Electronics Engineering, Sri Krishna College of Technology (Autonomous), Coimbatore, India; <sup>b</sup>Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology (Autonomous), Coimbatore, India; <sup>c</sup>Department of Electronics and Communication Engineering, Kongu Engineering College (Autonomous), Erode, India; <sup>d</sup>Department of Information Technology, Panimalar Institute of Technology, Chennai, India; <sup>e</sup>Department of Mechanical Engineering, Government Engineering College, Patan, India; <sup>f</sup>Centre for Advanced Materials, Qatar University, Qatar

ABSTRACT

A new topology of photovoltaic (PV) based transformerless dynamic voltage restorer (TDVR) with high gain DC-DC boost converter is proposed to mitigate voltage sag and swell, interruptions, and unbalanced outages in single-phase grid. The proposed PV-DVR high DC-DC boost converter is comprised of one MOSFET switch and three inductors with second order generalized integrator (SOGI) based unit vector template (UVT) control to enhance the effectiveness of the system for grid-connected renewable applications. The high voltage (HV) gain is achieved by this proposed converter through its soft-switching ability and coupled inductor arrangement with continuous conduction mode (CCM). In the proposed high gain DC-DC converter, the MOSFET IRFP260 power switch is preferably used for low voltage stress and also minimum on-state resistance. The mathematical analysis of the proposed converter is also discussed in this paper. The proposed converter is interfaced with an SOGI-PLL controller with input voltage (24 V), output voltage (230 V), and power rating as 250 W with less number of both passive and active switches. Moreover, to validate the performance and advantage of the proposed converter, the system was simulated by using MATLAB-SIMULINK and laboratory 250 W prototype results are presented to show the effectiveness of the design to limit the voltage sag – 0.1 pu and swell – 1.9 pu and also THD% level within in ceiling limit prescribed in IEEE STD at the load side.

ARTICLE HISTORY

Received 10 August 2021  
 Revised 15 September 2021  
 Accepted 16 September 2021

KEYWORDS

Dynamic voltage restorer; high gain DC-DC converter; inverter; photovoltaic systems; PI controller; SOGI controller and unit vector technique

Introduction

Dynamic voltage restorer (DVR) plays an important role in mitigating voltage disturbances in the single-phase network. The continuous fluctuations in the voltage also controlled by the energy-efficient photovoltaic (PV)-based DVR with proportional control novel boost converter for grid systems (Bajaj 2020). Generally, more number of non-linear loads have been utilized in both residential and industrial sectors like personal computers, uninterrupted power supplies (UPS), variable speed drives, power electronic-based devices, thyristor controlled rectifiers, and other household electronic communication devices. These entire devices that operate continuously throughout the day need a particularly reliable unpolluted consistent power

Dr K P Suresh and Dr R Senthil Kumar, Asst. Professors, Dept. of EEE, got acceptance for their paper on “Solar Photovoltaic based Dynamic Voltage Restore With DC- DC Boost Converter for Mitigating Power Quality Issues in Single Phase Grid” in the Journal of Energy Sources, Part A: Recovery, Utilization and Environmental Effects.



# NEW VISTAS OF LEARNING



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# MECH | WEBINAR ON SELF DRIVING CAR CHALLENGE

**Self Driving Car Challenge** SAEINDIA SOUTHERN SECTION

SAEISS Cordially Invites you for Brief Introduction Program on "SELF DRIVING CAR CHALLENGE" For the Students of Sri Krishna College of Technology Dr R Rajendran

VICE CHAIRMAN, SAE INDIA SOUTHERN SECTION CHENNAI PROFESSOR, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Date: 18-09-2021 - Time: 11 00 AM - 12 00 PM

Webex Meet joining info  
 Meeting link: <https://saeisss.webex.com/saeiss/j.php?MTID=m0c1987a161e41648067613849c1945ac>  
 Meeting Number : 2514 103 5916  
 Password : saechennai

SELF-DRIVING CAR CHALLENGE

R.Rajendran

**What is Self driving car?**

to recognize that self-driving cars are going to prevent accidents, AI will help to reduce leading causes of death in the world." — Mark Zuckerberg

**Challenge Objective/Elements**

- Detect highway lane lines on a video stream.
- Build and train a deep neural network to classify traffic signs, using TensorFlow.
- Perform image pre-processing and validation to guard against overfitting.
- Build and train a convolutional neural network
- Use optimization techniques
- Behaviour cloning- human Subcognitive skills
- Build an advanced lane-finding algorithm using distortion correction, image rectification, color transforms, and gradient thresholding.
- Create a vehicle detection and tracking pipeline with Open CV, histogram, and support vector machines (SVM).

Project Id	Project Name
1	Lane Finding Basic
2	Traffic Sign Classification
3	Behavioral Cloning
4	Advanced Lane Finding
5	Vehicle Detection
6	Extended Kalman Filter

**About the Self driving car event**

Event Calendar	From	To
Team Registration	01-09-2021	10-09-2021
Workshop / Machine Learning for Engineers_SLO1	01-10-2021	15-10-2021
Workshop / Machine Learning for Engineers_SLO2	16-10-2021	31-10-2021
Workshop / Machine Learning for Engineers_SLO3	01-11-2021	15-11-2021
Project #01 Review	15-12-2021	18-12-2021
Project #02 Review	18-01-2022	18-01-2022
Project #03 Review	15-02-2021	18-02-2021
Project #04 Review	15-03-2021	18-03-2021
Project #05 Review	18-04-2022	18-04-2022
Project #06 Review	15-05-2022	18-05-2022
Final Event	20-05-2022	31-05-2022

**Prerequisite**

- Mathematics
- Data Engineering
- Programming
- Algorithms
- Frameworks & Library

**Artificial Intelligence / Machine Learning - 01**

Objective: Place Final S.E., 3 Tech Stations

Branch: Mechanical Engineering, Automobile Engineering, Aerospace Engineering

Heart Date: 15-08-2021

Started Exam Date: 18-11-2021

Latest Exam Date: 18-11-2021

Quoted Fee: Rs. 2000

Last Date for Registration: 20-09-2021

Instruction	Statistics	Course Duration in Hours
Mathematics		75
Data Engineering	Open Association System	25
Programming	Python	150
Algorithm	Linear Regression	150
Machine Learning Framework	Decision Tree	250

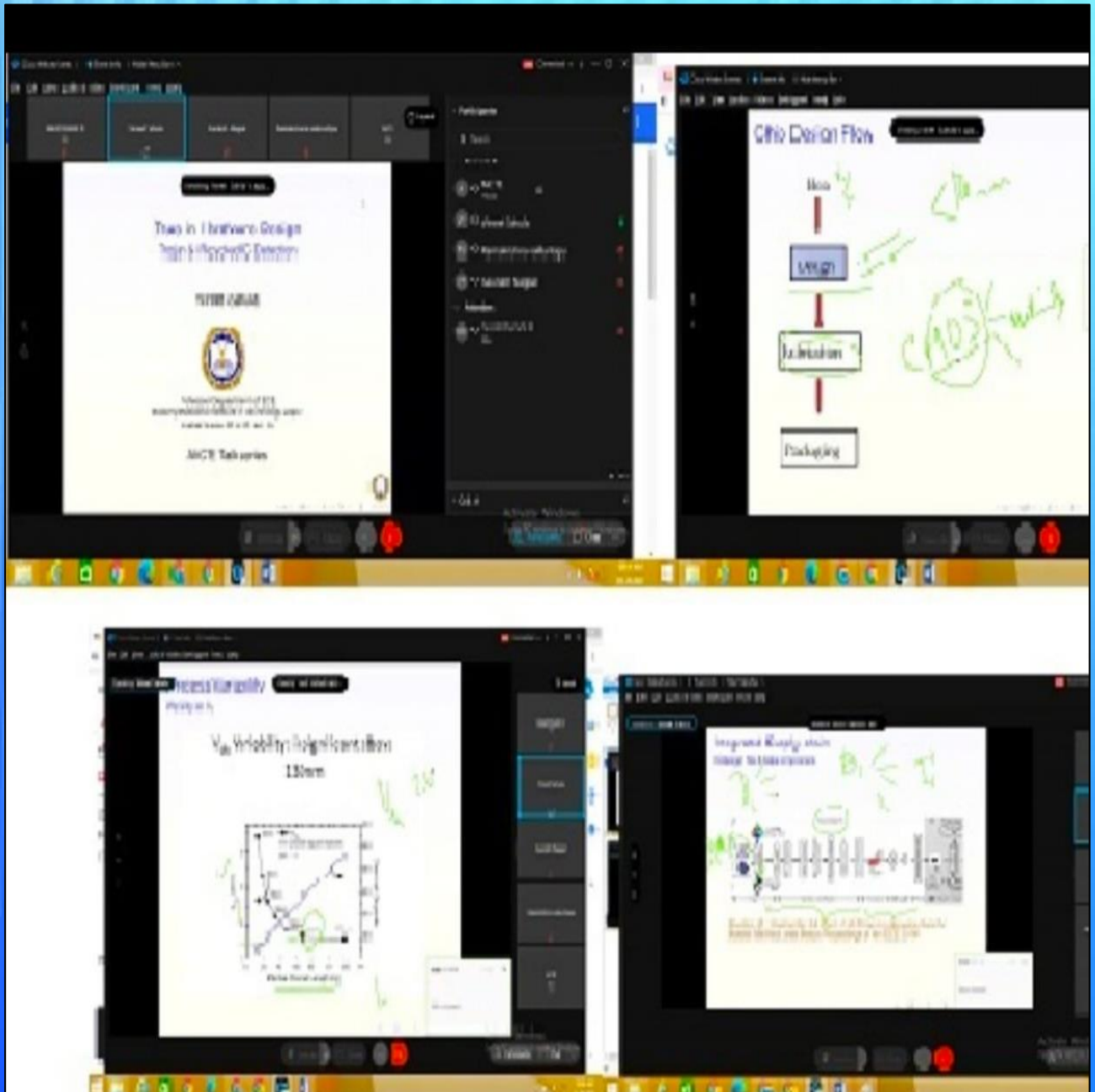
The Members of Faculty and Students from the Dept. of Mechanical Engineering attended a webinar on "Self Driving Car Challenge" facilitated by Dr R Rajendran, Professor, SRM Institute of Science and Technology, Chennai and Vice Chairman, SAE India Southern Section and organised by SAEINDIA Southern Section on 18 September 2021.

# SoM | WEBINAR ON STRATERGY FOR PERSONAL FINANCE MANAGEMENT



Dr A Jafersadhiq, Assoc. Professor, Ms Monisha K and Ms Sushmaa M, Asst. Professors, School of Management, attended a webinar on "Strategy for Personal Finance Management" organised by Chhaygaon College, Assam.

## ECE | WEBINAR ON TRUST IN HARDWARE DESIGN



Ms D Nageswari, Asst. Professor, Dept. of ECE, attended a webinar on "**Trust in Hardware Design**" organised by Faculty Development Cell, AICTE on 23 September 2021.

**CIVIL | WEBINAR ON MATERIALS AND  
METHODOLOGY FOR REPAIR OF STRUCTURES**

**CERTIFICATE**

PROUDLY PRESENTED TO

*Dr. SREEVIDYA V*

Materials and Methodology for  
Repair/Rehabilitation/Retrofitting of Structures

Sep 25, 2021

Date of Completion

UltraTech Cement Ltd.

Organizer



Dr V Sreevidya, Professor, Dept. of Civil Engineering, attended a webinar on **“Materials and Methodology for Repair of Structures”** organised by UltraTech Cements on 25 September 2021.

**S&H | WEBINAR ON RECENT TRENDS IN GREEN TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT**



**KGiSL INSTITUTE OF TECHNOLOGY**  
(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
 COIMBATORE, TAMILNADU



**A National Webinar on  
 "Nanostructured Materials for Next-Generation Solar Cells"**

**Organised by  
 Department of Chemistry**

**E - CERTIFICATE**

This is to certify that **D SANTHOSH SHANTHAKUMAR** Associate Professor of Sri Krishna College of Technology, Coimbatore has participated in the National Webinar "Nanostructured Materials for Next-Generation Solar Cells" organised by the Department of Chemistry, KGiSL Institute of Technology, Coimbatore -35.

**Organiser**  
 Dr. P. Divya  
 AP/Chemistry(S&H)



**KGiSL INSTITUTE OF TECHNOLOGY**  
(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
 COIMBATORE, TAMILNADU



**A National Webinar on  
 "Nanostructured Materials for Next-Generation Solar Cells"**

**Organised by  
 Department of Chemistry**

**E - CERTIFICATE**

**It is to certify that** **Ms.S.S.SABITHAMALA** Assistant Professor of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the National Webinar "Nanostructured Materials for Next-Generation Solar Cells" organised by the Department of Chemistry, KGiSL Institute of Technology, Coimbatore -35.

**Organiser**  
 Dr. P. Divya  
 AP/Chemistry(S&H)

**Convener**  
 Dr. P. Vignesh Kumar  
 Prof.& Head (S&H)

**Co-Patron**  
 Dr. S.Suresh Kumar  
 Vice Principal

**Patron**  
 Dr. M. Selvam  
 Principal

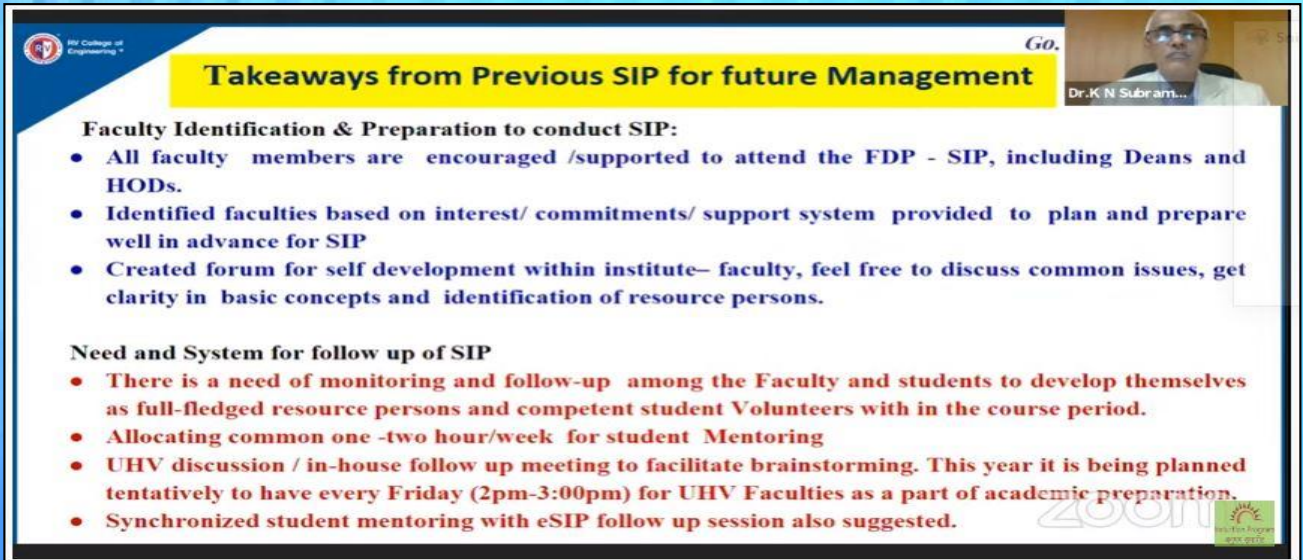
**Chief-Patron**  
 Dr. N.Rajkumar  
 Secretary

It is an online generated certificate which does not need any signature.

Made for free with Certify'em

Dr K R Kanimozhi, Dr D Santhosh Shanthakumar, Dr S Prabu, Ms S S Sabithamala and Dr N Nalini, Dept. of S&H, attended a webinar on "Nanostructured Materials for Next Generation Solar Cells" organised by the Dept. of Chemistry, KGiSL Institute of Technology, Coimbatore on 27 September 2021.

## MECH | WORKSHOP ON HOW TO CONDUCT THE AICTE STUDENT INDUCTION PROGRAM (SIP) 2021



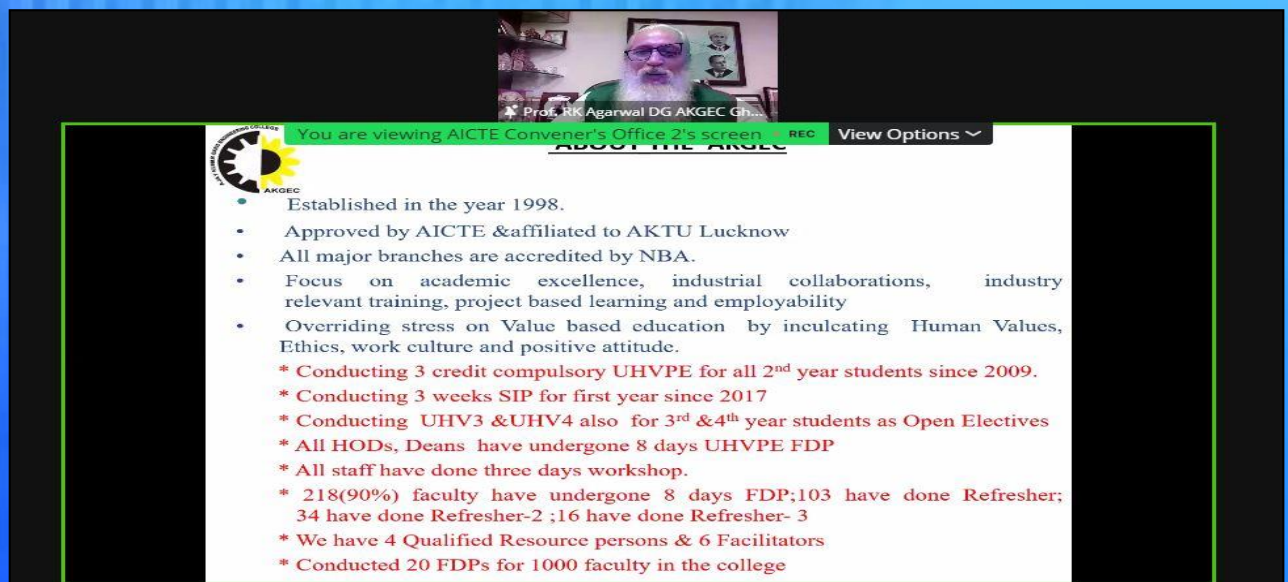
**Takeaways from Previous SIP for future Management**

**Faculty Identification & Preparation to conduct SIP:**

- All faculty members are encouraged /supported to attend the FDP - SIP, including Deans and HODs.
- Identified faculties based on interest/ commitments/ support system provided to plan and prepare well in advance for SIP
- Created forum for self development within institute– faculty, feel free to discuss common issues, get clarity in basic concepts and identification of resource persons.

**Need and System for follow up of SIP**

- There is a need of monitoring and follow-up among the Faculty and students to develop themselves as full-fledged resource persons and competent student Volunteers with in the course period.
- Allocating common one -two hour/week for student Mentoring
- UHV discussion / in-house follow up meeting to facilitate brainstorming. This year it is being planned tentatively to have every Friday (2pm-3:00pm) for UHV Faculties as a part of academic preparation.
- Synchronized student mentoring with eSIP follow up session also suggested.



**ABOUT THE AKGEC**

- Established in the year 1998.
- Approved by AICTE & affiliated to AKTU Lucknow
- All major branches are accredited by NBA.
- Focus on academic excellence, industrial collaborations, industry relevant training, project based learning and employability
- Overriding stress on Value based education by inculcating Human Values, Ethics, work culture and positive attitude.
- \* Conducting 3 credit compulsory UHVPE for all 2<sup>nd</sup> year students since 2009.
- \* Conducting 3 weeks SIP for first year since 2017
- \* Conducting UHV3 & UHV4 also for 3<sup>rd</sup> & 4<sup>th</sup> year students as Open Electives
- \* All HODs, Deans have undergone 8 days UHVPE FDP
- \* All staff have done three days workshop.
- \* 218(90%) faculty have undergone 8 days FDP; 103 have done Refresher; 34 have done Refresher-2 ; 16 have done Refresher- 3
- \* We have 4 Qualified Resource persons & 6 Facilitators
- \* Conducted 20 FDPs for 1000 faculty in the college

Mr N Aravind, Asst. Professor, Dept. of Mechanical Engineering, attended a one-day workshop on “How to Conduct the AICTE Student Induction Program SIP 2021” organised by AICTE on 20 September 2021.

## SoM | ONE-DAY INTERNATIONAL WORKSHOP ON CONCEPTULIZATION OF BUSINESS ANALYTICS



**SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE**

(Formerly SNR Sons College-Autonomous) Since 1987, Re-Accredited with A+ Grade by NAAC, Coimbatore - 641006



**DEPARTMENT OF COMMERCE**  
**A One Day International Workshop on**  
**Conceptualization of Business Analytics**

*Certificate of Participation*

This is to certify that

**Dr. Jafersadhiq A**

Associate professor , Department of MBA, Sri Krishna College of Technology, coimbatore participated in “A One Day International Workshop on **Conceptualization of Business Analytics**” on 24.09.2021 organized by Department of Commerce, Sri Ramakrishna College of Arts and Science, Coimbatore.

**Dr Kavitha G**  
Coordinator

**Dr Nirmala Devi V**  
Convener

**Dr Shivakumar BL**  
Principal

Dr A Jafersadhiq, Assoc. Professor, School of Management, attended a One-day International Workshop on “**Conceptualization of Business Analytics**” organised by the Dept. of Commerce, Sri Ramakrishna College of Arts and Science, Coimbatore on 24 September 2021.



## CSE | WORKSHOP ON MOBILE APPLICATION DEVELOPMENT USING PYTHON

# CERTIFICATE



**MAHARISHI  
MARKANDESHWAR**  
(DEEMED TO BE UNIVERSITY)  
Mullana - Ambala, Haryana

Established under Section 3 of UGC Act, 1956  
(Accredited by NAAC with Grade 'A')

This is to certify that

**Mr. V. VENKATESH**

of

SRI KRISHNA COLLEGE OF TECHNOLOGY

has participated in Online Workshop on

**"Mobile Application Development using Python"**

organized by

Department of Computer Science & Engineering,

Maharishi Markandeshwar Engineering College (MMEC),

at Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala,

On 25<sup>th</sup> September, 2021

**Dr. Ashok Kumar**

Director, MMEC

**Dr. Sandip Goyal**

HOD & Professor

(Computer Science & Engineering)

**Dr. Avinash Sharma**

Professor

(Computer Science & Engineering)

GPYTMY-CE000050

Mr V Venkatesh, Asst. Professor, Dept. of CSE, completed a One-day Workshop on **"Mobile Application Development using Python"** organised by Maharishi Markandeshwar Engineering College, Mullana, Ambala on 25 September 2021.

# FDPs ATTENDED



**Faculty  
Development  
Program**



**@skctdigest**



**@skctofficial**



**digestfeedback@skct.edu.in**

**S&H | ATAL FDP ON RECENT TRENDS IN GREEN TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT**



Dr K R Kanimozhi, Dr D Santhosh Shanthakumar, Dr N Nalini and Ms S Sabithamala, Asst. Professors, Dept. of S&H, attended an FDP on “Recent Trends in Green Technologies for Sustainable Development” organised by AICTE – ATAL Academy during 13-17 September 2021.

## CSE | ATAL FDP ON RECENT TRENDS IN INTERNET OF THINGS



Dr R Karthik, Assoc. Professor, Dept. of CSE, attended the AICTE Training And Learning (ATAL) Academy Online Elementary Faculty Development Programme on "Recent Trends in Internet of Things" organised by Shri G S Institute of Technology and Science, Indore during 20-24 September 2021.

**MECH | FDP ON CHALLENGES AND OPPORTUNITIES  
FOR RESEARCH IN MECHANICAL ENGINEERING  
PRESENT AND FUTURE**



**Certificate of Participation**

**Dr. SANTHOSH S**

This to certify that \_\_\_\_\_  
of **SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE**  
has attended A Five day Online FDP programme on "Challenges and Opportunities for  
research in Mechanical Engineering: Present & Future" from 20th September 2021- 24th  
September 2021, organized by the Department of Mechanical Engineering,  
Karunya Institute of Technology and Sciences.

**Dr. R. Malkiya Rasalin Prince**  
COORDINATOR

**Dr. Tapas Debnath**  
COORDINATOR

**Dr. D. Arulkirubakaran**  
COORDINATOR

**Dr. L. Godson Asirvatham**  
CONVENOR, HOD/MECH

Dr S Santhosh, Assoc. Professor, Dept. of Mechanical Engineering, attended a Five-day online FDP on "Challenges and Opportunities for Research in Mechanical Engineering Present and Future" organised by Karunya Institute of Technology, Coimbatore during 20-24 September 2021.

## ICE | STTP ON COMPUTATIONAL INTELLIGENT MODELS FOR ELECTRICAL ENGINEERING APPLICATION



Mr S Dilipkumar, Asst. Professor, Dept. of Instrumentation and Control Engineering, attended a STTP on **"Computational Intelligent Models for Electrical Engineering Applications"** organised by NIT, Arunachal Pradesh during 06-10 September 2021.

# MEETINGS & DISCUSSIONS



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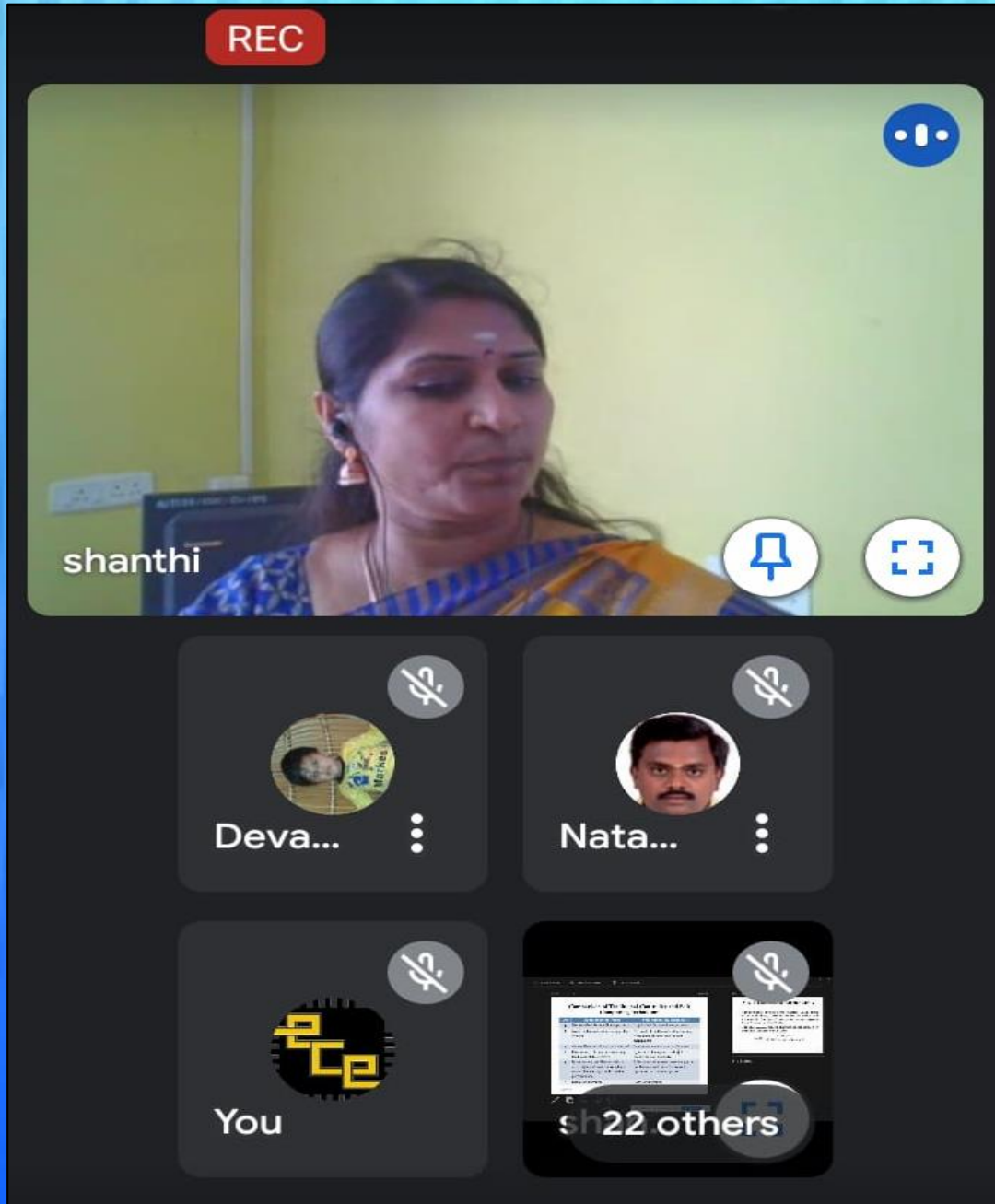


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digestfeedback@skct.edu.in


**ICE | Ph.D. VIVA VOCE**




Ms K Shanthi, Asst. Professor, Dept. of Instrumentation and Control Engineering, defended her Ph.D. thesis on 24 September 2021.



# ECE | Ph.D. VIVA VOCE | DESIGN OF INTEGER AND FRACTIONAL ORDER MODEL BASED CONTROLLER WITH PARAMETER OPTIMIZATION TECHNIQUE FOR INDUSTRIAL PROCESSES



**BANNARI AMMAN INSTITUTE OF TECHNOLOGY**  
SATHYAMANGALAM – 638 401



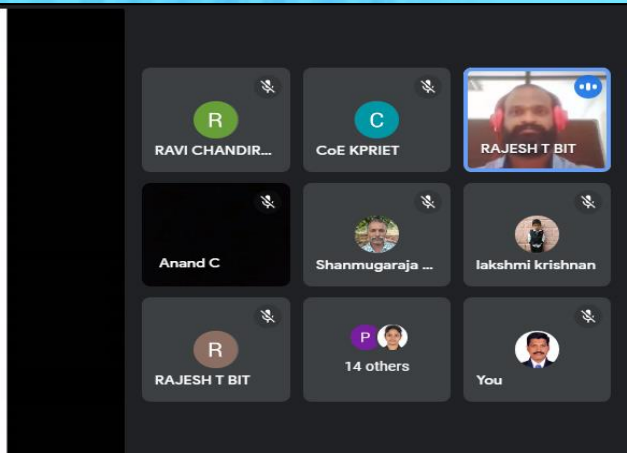
**Design of Integer and Fractional Order Model based Controller with Parameter Optimization Technique for Industrial Processes**

by  
**T.Rajesh**  
Research Scholar  
(Reg. No.: 1514369183)  
Faculty of Electrical Engineering  
Anna University, Chennai – 600 025

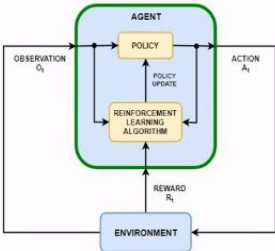
**Dr. G.M.TAMILSELVAN**  
Supervisor  
(Ref. No.: 2440395)  
Professor & Head  
Dept. of Electronics and Communication Engineering  
Sri Krishna College of Technology  
Coimbatore – 641042

**Dr. T.V.P. SUNDARARAJAN**  
Joint Supervisor  
Professor  
Department of Electronics and Communication Engineering  
Sri Shakthi Institute of Engineering and Technology  
Coimbatore - 641062

28-09-2021 1

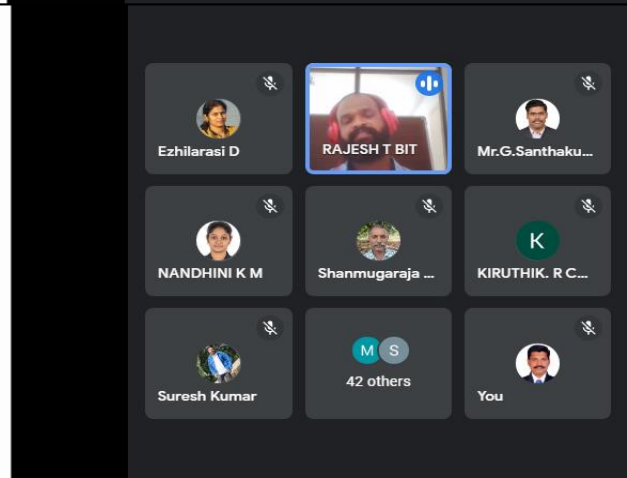


### Reinforcement Learning Optimization Algorithm



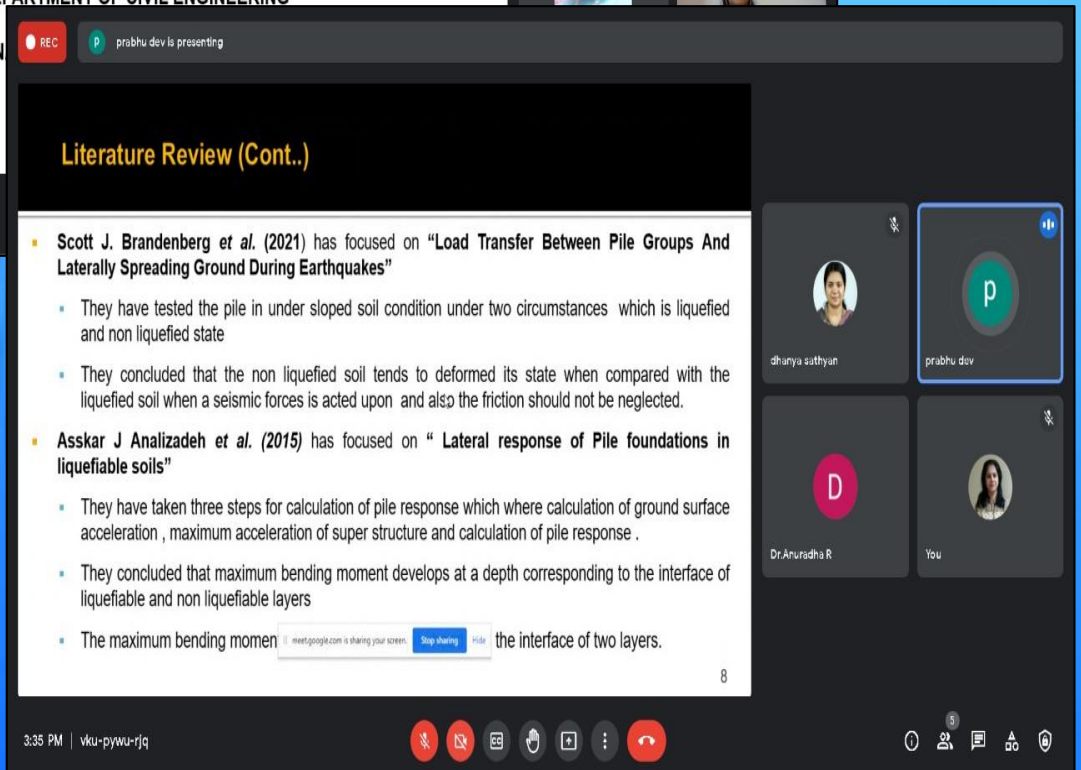
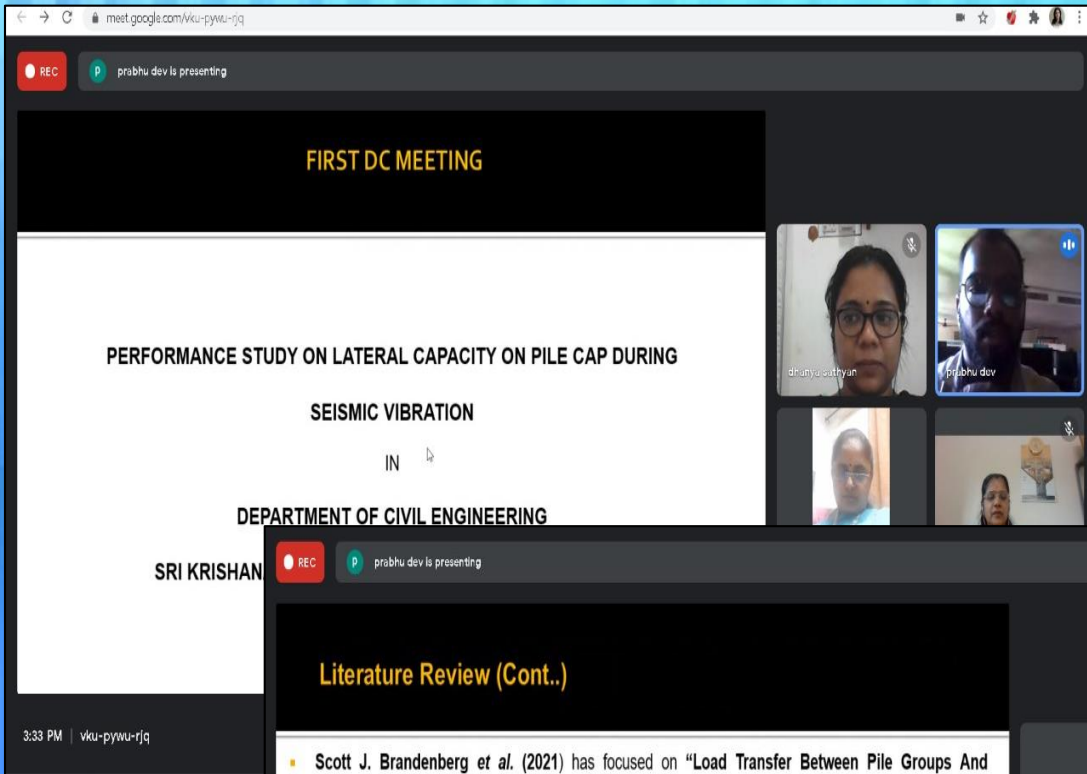
- Reinforcement learning is the training of machine learning models to make a sequence of decisions. The agent learns to achieve a goal in an uncertain, potentially complex environment. In reinforcement learning, an artificial intelligence faces a game-like situation.
- The artificial intelligence gets either rewards or penalties for the actions it performs. Its goal is to maximize the total reward. Although the designer sets the reward policy—that is, the rules of the game—he gives the model no hints or suggestions for how to solve the game.

28-09-2021 38



Mr T Rajesh, Research Scholar, Anna University, defended his Ph.D. thesis on “**Design of Integer and Fractional Order Model based Controller with Parameter Optimization Technique for Industrial Processes**” under the guidance of Dr G M Tamil Selvan, Professor and Head, Dept. of ECE on 28 September 2021.

CIVIL | Ph.D. DC MEETING

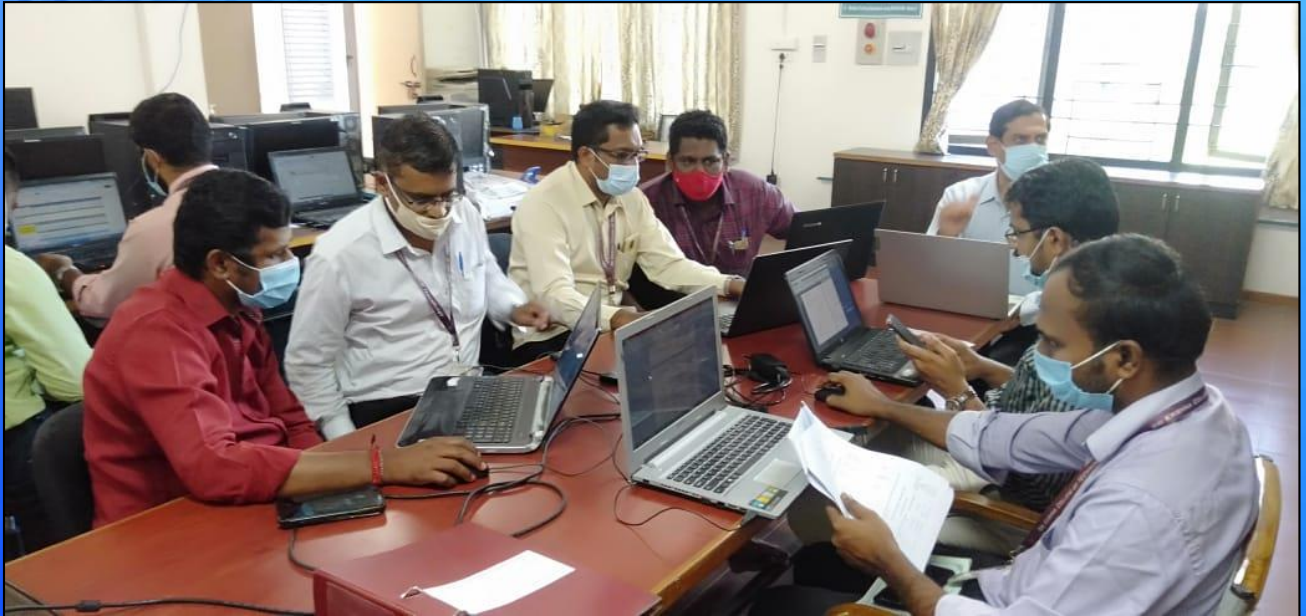


Dr V Sreevidya, Professor, Dept. of Civil Engineering, conducted a Ph.D. First Doctoral Committee Meeting for Mr Prabhudev, Research Scholar on 29 September 2021.

**MECH | NBA MEETING**

Dr P Prathap, Professor and Head, Dept. of Mechanical Engineering, conducted a “**NBA Meeting**” with the criteria in-charges of NBA on 28 September 2021.

## MECH | NBA MEETING



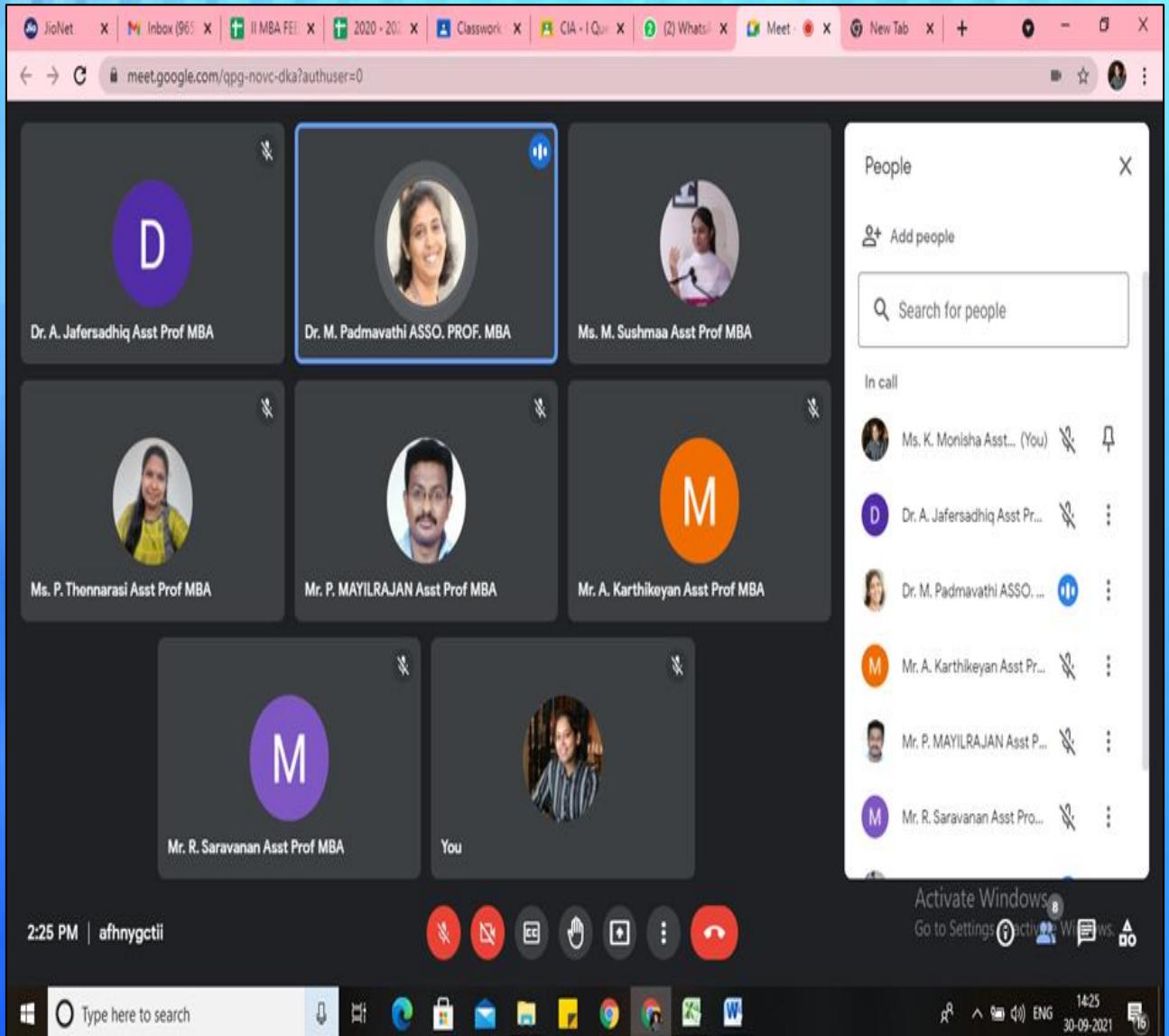
Dr R Srinivasan, Professor, Dept. of Mechanical Engineering, conducted a **“NBA Consolidation Meeting”** with the NBA Criteria in-charges on 30 September 2021.

## ICE | ACADEMIC REVIEW MEETING

The screenshot displays a Zoom meeting interface. The main area shows a grid of 42 participant tiles, each with a profile picture or initials and a name. The names include various student IDs and names like '20TUIIC012 ISTHI...', '18TUIIC046 VYSA...', '19TUIIC006 DEEP...', '19TUIIC019 NITHI...', '19TUIIC012 INIYA...', '21ICEL VISHAL S. ...', '19TUIIC011 HARS...', '20TUIIC007 ASW...', '18TUIIC036 SHAR...', '18TUIIC044 VENK...', '20TUIIC016 KAM...', '20TUIIC026 SANT...', '19TUIIC030 SWAT...', '19TUIIC003 ANIE...', '19TUIIC018 NAVE...', '19TUIIC013 JETHI...', '20TUIIC005 ARAV...', '20TUIIC015 JYOT...', '19TUIIC009 GIRIN...', '20TUIIC010 GURU...', 'Mr. Dhanasevram...', '20TUIIC006 ASH...', '20TUIIC023 RAJ ...', '19TUIIC022 SABA...', '18tuiic035', '20TUIIC014 JASM...', '18TUIIC022 MEIY...', '20TUIIC020 NIVE...', '20TUIIC029 SIVA...', '18TUIIC042 SWET...', '20TUIIC017 KAVY...', '19TUIIC033 VENK...', '20TUIIC031 UVAN...', '28 others', and 'You'. The right sidebar shows a list of participants with their names and profile pictures, including '20TUIIC026 SANTHOSHK...', '20TUIIC027 SHARAN B.', '20TUIIC028 SHWETHA BA...', '20TUIIC029 SIVABALAN S.', '20TUIIC031 UVANESHWA...', '20TUIIC001 KISHORE T.', '21ICEL VISHAL S. MENON', 'Dr. P. Manju HOD-ICE', 'Mr. Dhanasevram J Asst.P...', and 'Mr.S.Dilip Kumar ASST. PR... Meeting host'. The bottom status bar shows the time '9:14 AM', the meeting ID 'kgf-tmnb-cww', and various control icons like mute, video, chat, and end meeting.

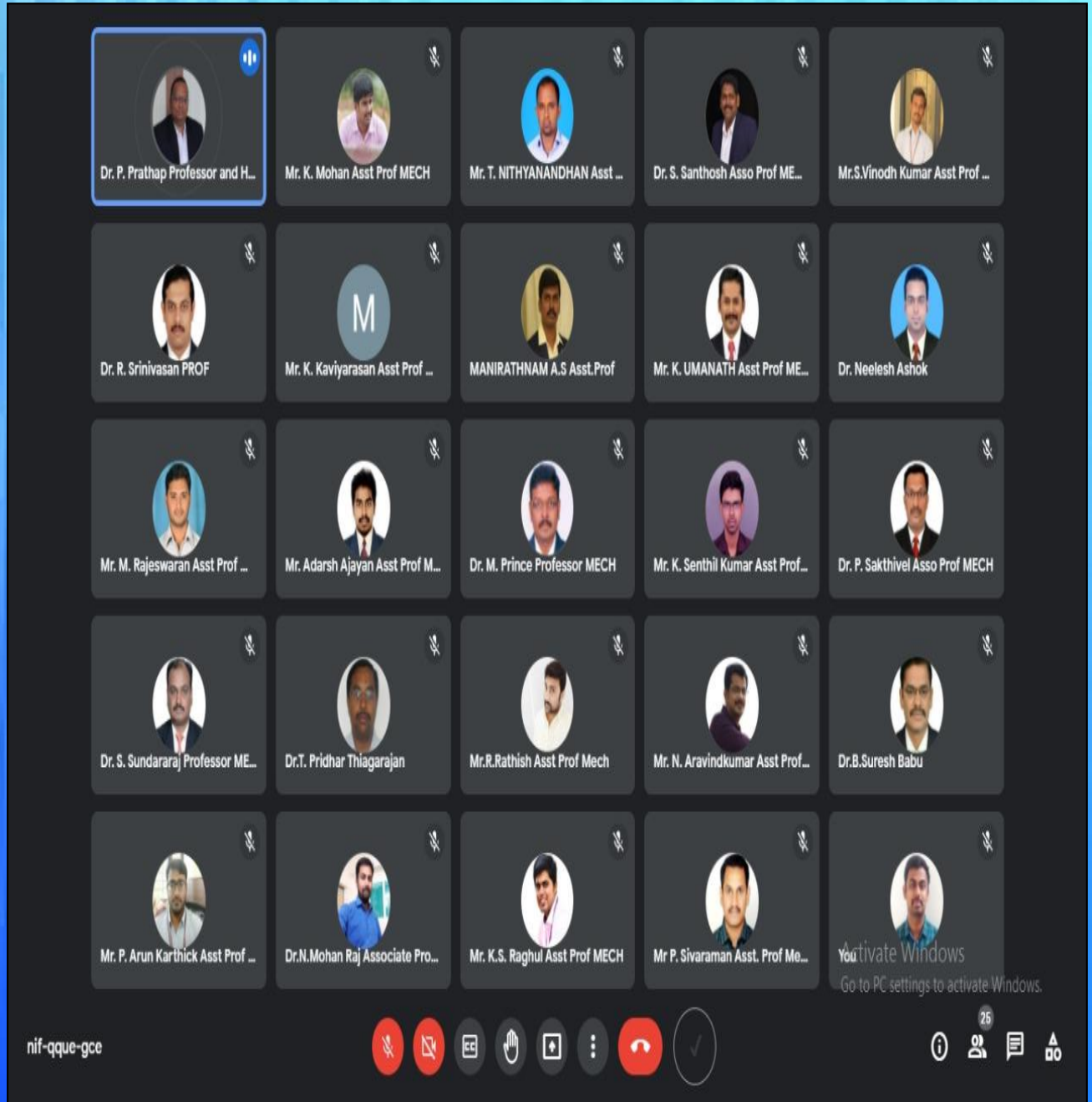
Dr P Manju, Professor and Head, Dept. of Instrumentation and Control Engineering, interacted with the Members of Faculty regarding the progress in academics and placement activities on 01 October 2021.

## SoM | DEPARTMENT MEETING



The Members of Faculty, School of Management, attended a meeting regarding paper publication, NPTEL new course registration and completion, online pink book maintenance and PPT updation on 30 September 2021.

MECH | DEPARTMENT MEETING



Dr P Prathap, Professor and Head, Dept. of Mechanical Engineering, conducted a meeting with the Members of Faculty on 25 September 2021.

# EVENTS ORGANISED



@skctdigest



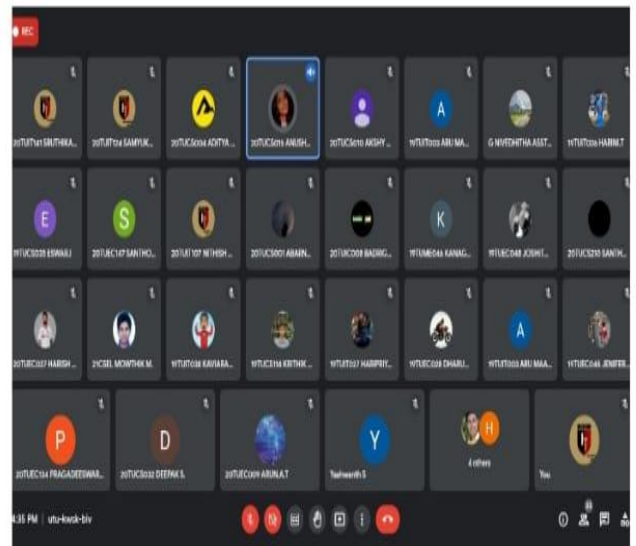
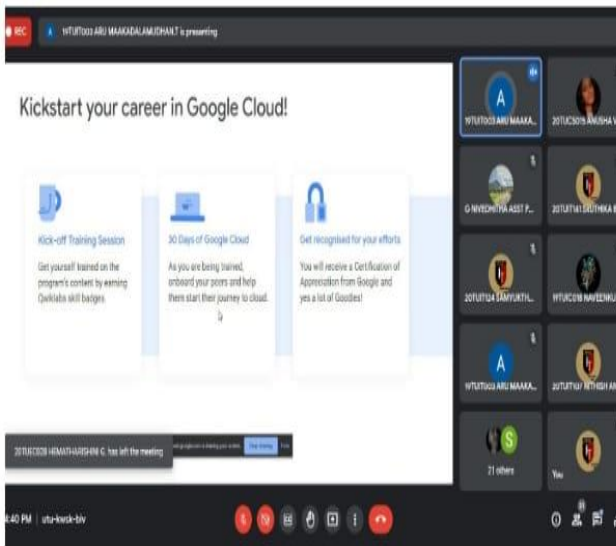
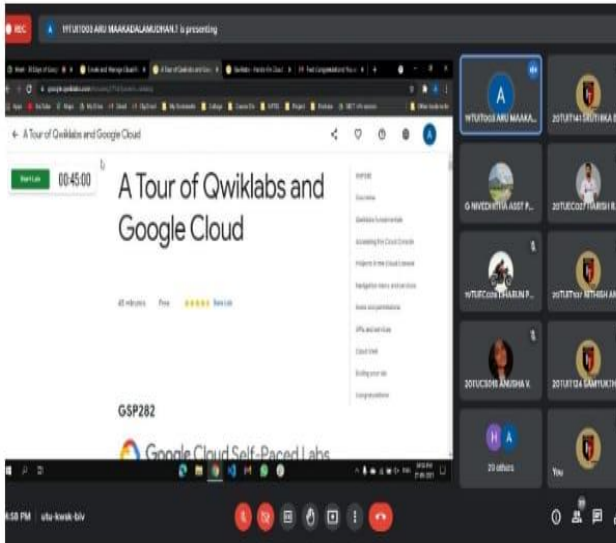
@skctofficial



digestfeedback@skct.edu.in



# CSE | VIRTUAL SESSION ON INTRODUCTION TO 30 DAYS OF GOOGLE CLOUD



The Dept. of CSE in association with Google Developer Student Clubs, SKCT organised a session on “Introduction to 30 Days of Google Cloud” on 27 September 2021.

SoM | PLACEMENT APTITUDE TRAINING

**if volume of the cube is 17576 cubic metre. Find the side of the cube ?**

**Solution 1:**  

$$\sqrt[3]{17576}$$

$$\begin{array}{r} 17576 \\ 1-1 \quad 9-9 \\ \hline 2-8 \quad 0-0 \\ \hline 3-7 \\ \hline 4-4 \\ \hline 5-5 \\ \hline 6-6 \\ \hline 7-3 \\ \hline 8-2 \end{array}$$

**Solution 2:**  

$$\begin{array}{r} 6^3 - 216 \\ \hline 7^3 - 343 \\ \hline 8^3 - 512 \\ \hline 9^3 - 729 \\ \hline 5^3 - 125 \\ \hline 10^3 - 1000 \end{array}$$

**Chat Log:**

- Sathish G good morning sir
- muglan nepolean good morning sir
- 20TPMB139 SURUTHI S. Good morning sir
- 20TPMB026 GAYATHRI A. Good morning sir
- INFINITY VIBEZ gud mng sir
- Vivek Vivek
- gokul nandhan GOOD MORNING SIR
- Yedhu pavi Good morning sir
- Grow With Green Good morning sir
- 20TPMB112 NITHISH KUMAR R. nithish
- Karthikeyan Good morning Sir
- siva prasanth Sivapathin J
- Ms. K. Monisha Asst Prof MBA

Mr Saravanan, Asst. Professor, School of Management, organised a “Placement Aptitude Training” facilitated by Mr Kannesh on 30 September 2021.

7

**STUDENTS'  
PARTICIPATIONS**

9

**FACULTY  
PARTICIPATIONS**

3

**RESEARCH**

8

**NEW VISTAS OF  
LEARNING**

4

**FDPs ATTENDED**

8

**MEETINGS &  
DISCUSSIONS**

2

**EVENTS  
ORGANISED**



Never wait.  
Life goes faster than you think.

Note for Inspire

