

SKCT DIGEST

15 MARCH – 20 MARCH 2021

SPECIAL ISSUE - 43



E-Learning

EDITOR - IN - CHIEF

*Dr Srinivasan Alavandar,
Principal*

EDITORIAL TEAM

Ms S Soundarya, CSE

Ms S Thenmozhi, ECE

Ms B Pavithra, S&H

INSIDE THIS ISSUE

SKCT ACHIEVEMENTS

Pg.no : 03 - 05

STUDENTS' PARTICIPATION

Pg.no : 06 - 25

FACULTY PARTICIPATIONS

Pg.no : 26 - 34

RESEARCH

Pg.no : 35 - 38

NEW VISTAS OF LEARNING

Pg.no : 39 - 46

FDPs ATTENDED

Pg.no : 47 - 50

MEETINGS & DISCUSSIONS

Pg.no : 51 - 55

EVENTS ORGANISED

Pg.no : 56 - 77

CLUB ACTIVITIES

Pg.no : 78 - 80

SKCT ACHIEVEMENTS



@skctdigest



@skctofficial



digestfeedback@skct.edu.in

SKCT | NEW CODE OF EDUCATION 2021 AWARD



SKCT | NEW CODE OF EDUCATION 2021 AWARD



Sri Krishna College of Technology, Coimbatore feels elated to receive the prestigious **“New Code of Education 2021 Award”** in the category of **“Top 3 Digital Enablers in Autonomous College”** from Mr Manish Sisodia, Hon. Dy. Chief Minister and Minister of Education, State of Delhi.

Dr Srinivasan Alavandar, Principal, took part in a panel discussion on **“New Code of Education”** with the Chief Guest, Mr Manish Sisodia, Hon. Dy. Chief Minister and Minister of Education, State of Delhi and Eminent Jury Members Dr Mrs Pankaj Mittal, Secretary-General, (AIU) Association of Indian Universities, Mr Nirmal Singh, Founder and CEO of Wheebox and presented the best practices that SKCT adopted to progress the online education.

STUDENTS' PARTICIPATION



@skctdigest



@skctofficial



digestfeedback@skct.edu.in

ECE | STUDENTS' PARTICIPATION | SYNFIG STUDIO 2D ANIMATION HACKATHON



Mr Vijay Rajavarshan S, Mr Sivansankar Raja L, Mr Sri Nithin S, Mr Sharat S and Mr Vignesh Sivakumar, Students of Second B.E. ECE C section, participated in “Synfig Studio 2D Animation Hackathon,” an initiative of FOSSEE Project, IIT Bombay in association with Whistling Woods International and AICTE during 25 November-15 December 2020.

ECE | STUDENTS' INPLANT TRAINING | BSNL



Mr A Naren Shanmugam, Mr Pevinesh, Mr Ramkumar, Mr Levin, Mr Salesh and Ms Pooja, Students of Second B.E. ECE B section, attended a **“Five-day Inplant Training”** at BSNL Power Plant, Thoothukudi during 15-19 March 2021.

MECH | STUDENTS' INTERNSHIP

Mr S Sibi Bharathy, Mr S Sivasakthi Prakash, Mr S Sree Nishanth, Mr M Sri Ram and Mr K Nandhakumar, Students of Third B.E. Mechanical Engineering, has been attending an internship at Vetha Milk Factory, Trichy during 09-24 March 2021.

SoM | STUDENT'S PREPLACEMENT OFFER

Ms Nandhini, Student of Second MBA, has got the **"Preplacement Offer"** at Aditya Birla Fashion and Retail Ltd.



CHESS TOURNAMENT



Students of SKCT bagged the “**First Place**” in “**Anna University Sports Board Chennai Zone 10 Chess Men Tournament**” at P A College of Engineering, Pollachi on 15 March 2021.

CHESS TOURNAMENT




EEE | STUDENTS' ACHIEVEMENT | PROJECT FUND RECEIVED FROM DASSAULT SYSTEMES LA FOUNDATION

Development of Autonomous Vehicle for Subsea Oil Pipeline Inspection and Cleaning Oil Spills

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
DEPARTMENT OF MECHANICAL ENGINEERING

SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE | Accredited by NAAC with 'A' Grade
Kovaiapur, Coimbatore - 641 042
Phone: 0422 2604567 - 70 Fax: 0422 - 2607152
Website: www.skct.edu.in

Project Submitted to
DASSAULT SYSTEMES
La Fondation



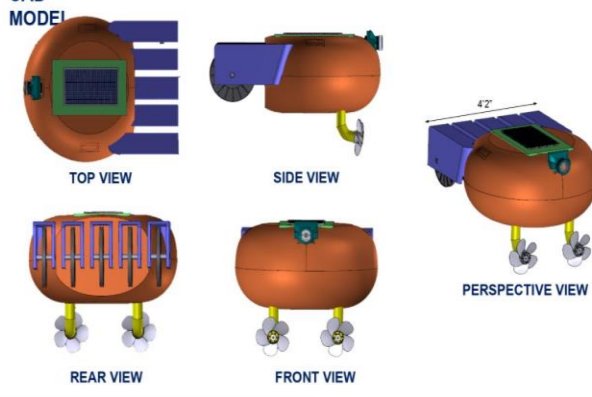
DASSAULT SYSTEMES
— La Fondation —

INDIA APPLICATION FORM
For funding request to "Dassault Systèmes Foundation"

Requesting Organization's Name



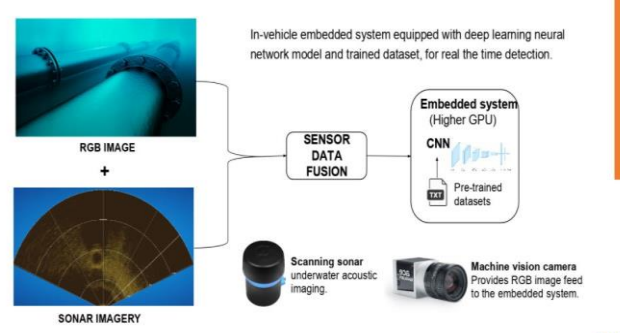
CAD MODEL



TOP VIEW SIDE VIEW PERSPECTIVE VIEW
REAR VIEW FRONT VIEW


PIPELINE DEFECT DETECTION USING DEEP LEARNING

In-vehicle embedded system equipped with deep learning neural network model and trained dataset, for real time detection.



RGB IMAGE + SONAR IMAGERY → SENSOR DATA FUSION → Embedded system (Higher GPU) with CNN and Pre-trained datasets → Machine vision camera Provides RGB image feed to the embedded system.

Scanning sonar underwater acoustic imaging.



Mr K Vasanth, Mr L Mitun, Mr B R Vignesh, Mr M Sri Pragash and Mr M Deepanraj, Students of SKCT, received a **“Project Fund”** for the project work on **“Development of Autonomous Vehicle for Subsea Oil Pipeline Inspection and Cleaning Oil Spills”** organised by Dassault Systemes La Foundation, Pune on 18 March 2021. Dr Srinivasan Alavandar, Principal, Dr S Sundararaj, Professor, Dept. of Mechanical Engineering and Mr P Leninpugalhanthi, Asst. Professor, Dept. of EEE, mentored the students.


CSE | STUDENT'S ACHIEVEMENT | GATE 2021**DEPARTMENT OF COMPUTER & SCIENCE ENGINEERING****GATE 2021 QUALIFIED STUDENT****Ms. S. NITHYASHREE****GATE score: 26.67****AIR: 14074****(Out Of 101922 students)**

Ms S Nithyashree, Student of Final B.E. CSE, cleared "GATE 2021."

CIVIL | STUDENTS' ACHIEVEMENT | GATE 2021**GATE 2021 QUALIFIED STUDENTS****THEENATHAYALA R S****GATE score: 59.97****All India Rank- 1649****RAGUL VIGNESH R S****GATE score: 47.67****All India Rank- 827****SANGEETHA V****GATE score: 38****All India Rank- 1564**

Mr Theenathayala R S, Mr Ragul Vignesh R S and Ms Sangeetha V,
Students of SKCT, cleared "GATE 2021."

CSE | STUDENT'S ACHIEVEMENT | GUEST SPEAKER



RATHINAM COLLEGE OF ARTS AND SCIENCE(AUTONOMOUS)
(Affiliated to Bharathiar University, Accredited by NAAC with "A" grade, Recognized by UGC with 2(f) and 12(B) status, Approved by AICTE)
Rathinam Techzone Campus, Pollachi Road, Eachanari, Coimbatore - 21

Date : 15-03-2021 Time : 11.00 AM Venue : N06

DEPARTMENT OF COMPUTER SCIENCE
cordially invites you for the

Guest Lecture on

"ETHICAL HACKING"

www.rathinamcollege.edu.in

RATHINAM
COLLEGE OF ARTS & SCIENCE

Rathinam TechZone: Phone : +91-422-4040008, 4040995
Pollachi Road, Eachanari, Coimbatore. Fax : +91-422-4040002
Tamilnadu, India, Pin : 641 021. E-mail : info@rathinamcollege.com

027/RCAS/AC/2020-21 15.03.2021

APPRECIATION CERTIFICATE

This is to certify and appreciate that, MR. SPT. GNANA MANOHARAN, B.E, Chief Operating officer of Bored Monk has acted as a Resource Person in "Innovation Thinking On Penetration Testing Via Ethical Hacking" Guest Lecture organized by the Department of Computer Science on 15.03.2021



PRINCIPAL
Principal
Rathinam College of Arts & Science,
Eachanari, Coimbatore - 21.



Chief Guest :

Mr. Gnana Manoharan
Cyber Crime Investigator
Chief Operating Officer of Bored Monk
Coimbatore



Organized by
S.SELVALAKSHMI , Asst.Professor,
Dept.of Computer Science.



Mr S P T Gnana Manoharan, Student of Third B.E. CSE A section, Chief Operating Officer, Bored Monk Cybercrime Consultancy & National Cybercrime Volunteer – MHA, delivered a Guest Lecture on **"Ethical Hacking"** at Rathinam College of Arts and Science (Autonomous), Coimbatore on 15 March 2021.

ECE | PAPER PRESENTATION | BIOMETRICALLY SECURED ATM VIGILANCE SYSTEM

Proposed approach

- We have posited a new concept that enhances the overall experience, usability, security, and convenience of the transaction at the ATM. First, the face and fingerprint of the customer is received and uploaded to the MySQL database. To achieve interaction with the customer, a user interface is created using Python GUI (tkinter).
- While registering biometric details, the customer will be provided with an user id and balance. Using this id as a key, corresponding data of the customer is stored.
- When a customer wants to access ATM, he/she firstly place their finger on the fingerprint module. After acceptance, they should show their face to the camera that is in front them.
- Now, this data is checked against the database. If data matches with any of the user ids, the system will send an OTP to the corresponding account holder's mobile phone through IoT. If the provided data not matched, then the system won't allow the further process.
- The system asks to enter OTP to the customer. After entering OTP, the system checks it with the corresponding data.

Meeting details

People (9)

- 17TUEC033 NIRMAL PRASA...
- 17TUEC043 GOKUL PR...
- 17TUEC137 NIRMAL PRA...
- 17TUEC137 NIRMAL PRA... Presentation
- Dr. Rudresh Shirwalkar ...
- Icaccs track 5
- Niles Rathod
- Vignesh VP

Meeting details

People (9)

- 17TUEC033 NIRMAL PRASA...
- 17TUEC043 GOKUL PR...
- 17TUEC137 NIRMAL PRA...
- 17TUEC137 NIRMAL PRA... Presentation
- Dr. Rudresh Shirwalkar ...
- Icaccs track 5
- Niles Rathod
- Vignesh VP

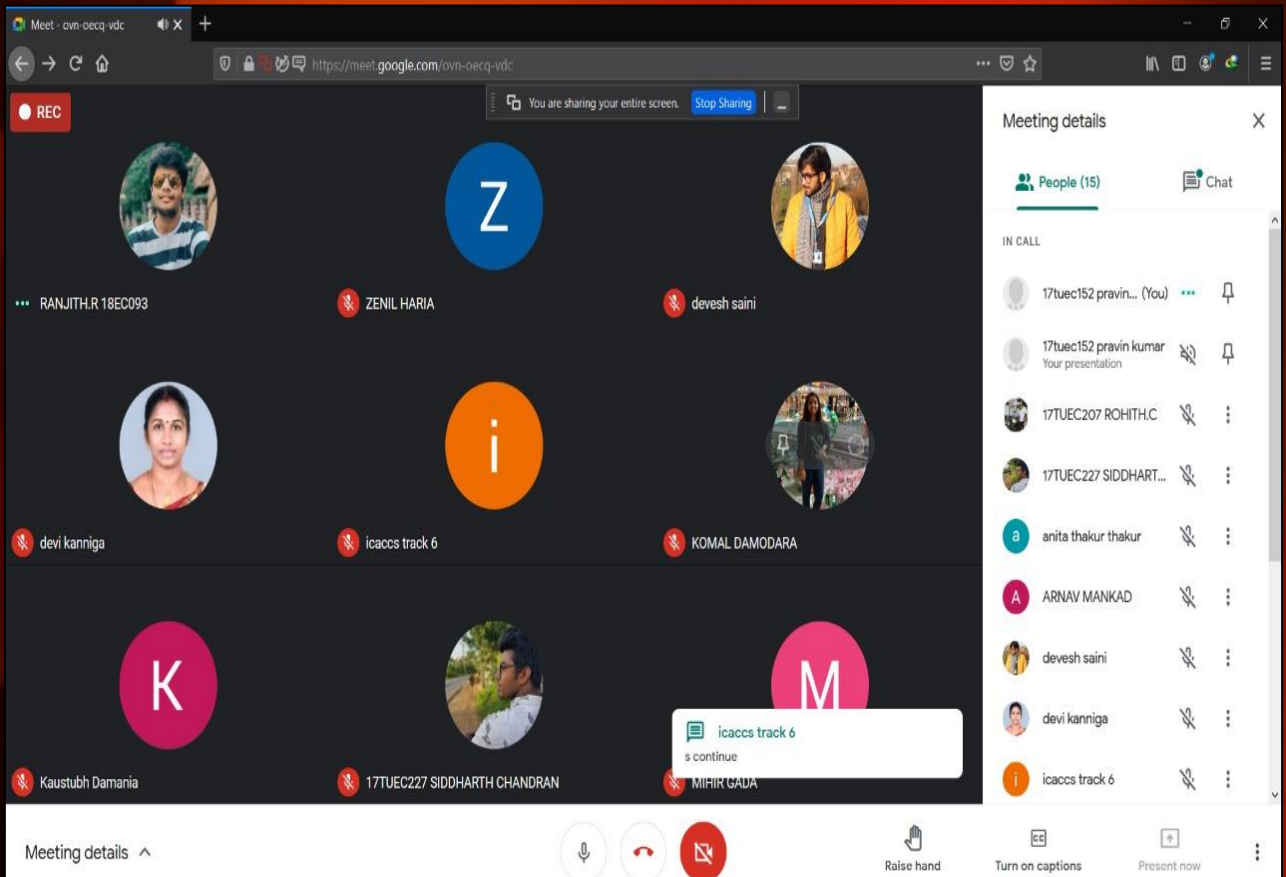
Mr Raghul S, Mr Nirmal Prasad and Mr Naveen Kumar, Students of Final B.E. ECE, presented a paper on "**Biometrically Secured ATM Vigilance System**" in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS) 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 19 March 2021. Mr M Navin Kumar, Asst. professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | SMART SCHOOL BUS: TO ENSURE THE SAFETY OF CHILDREN



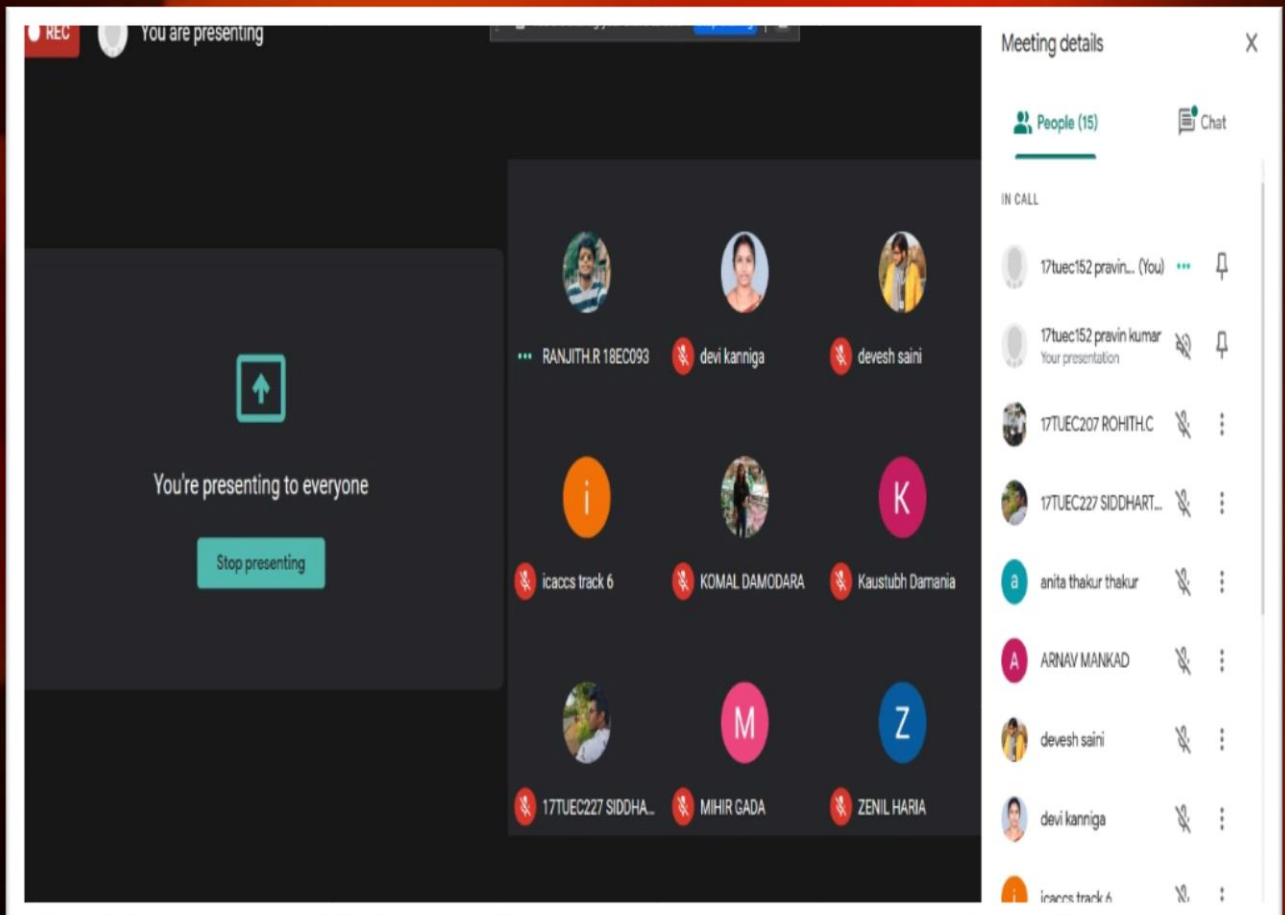
Mr P Ambarish, , Mr S Dinesh Kumar and Mr G A Gokul Prashanth, Students of Final B.E. ECE, presented a paper on **“Smart School Bus: To Ensure the Safety of Children”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 19 March 2021. Dr S Malathy, Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | SMART CHARACTERIZATION OF VEHICLE IMPACT AND ACCIDENT REPORTING SYSTEM



Mr Pravin Kumar S, Mr Prem Kumar R and Mr Navaneethakrishnan, Students of Final B.E. ECE, presented a paper on **“Smart Characterization of Vehicle Impact and Accident Reporting System”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 19 March 2021. Mr M Navin Kumar, Asst. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | PHYSICAL LAYER CHANNEL MODELING OF 5G NEW RADIO FOR WIRELESS APPLICATIONS



Ms R Anjali, Student of Final B.E. ECE, presented a paper on **“Physical Layer Channel Modeling of 5G New Radio for Wireless Applications”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 19 March 2021. Dr R Vadivelu, Assoc. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | DESIGN OF UART USING VERILOG AND VERIFYING USING UVM

REC N 17TUEC136 NIGITHA.A is presenting 17TUEC143 POOMIC... and 2 more 14 10:55 AM You

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS)

Title: Design of UART using Verilog and Verifying using UVM
Paper ID: ICACCS_2021_paper_392
College : Sri Krishna College of Technology

Authors:
Priyanka.B
Gokul.M
Nigitha.A
Poomica.J.T

Meeting details ^

Meeting controls: Mute, Video Off, Chat, Raise hand, Turn on captions, 17TUEC136 NIGITHA.A is presenting

Ms Nigitha A, Ms Poomica J T and Mr Gokul M, Students of Final B.E. ECE, presented a paper on “**Design of UART using Verilog and verifying using UVM**” in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 20 March 2021. Ms B Priyanka, Asst. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | POWER GENERATION USING FOOTSTEPS FOR MOBILE CHARGING

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following content:

ABSTRACTION

The ideology of solar paint has created much attention among people because of its portability, usability, and compatibility when compared with regular solar panels. Solar paint is nothing but paint that is capable of changing any surface into a solar panel when it is applied. The key features of solar paint is its potential because of its portability, cost efficiency, and flexibility. This study aims to define the feasible approach for the development of solar paint to produce electricity from the photocatalysis process using solar energy. Solar paint has many advantages eg. When applied on the roof of a building it generates electricity and can be operated forever.

The slide also features an image of a hand applying paint to a surface that is being transformed into a solar panel.

On the right side of the meeting window, there is a list of participants in the call:

- Mohammed Th...
- Paul Macheso
- RISHVANA M E...
- 17TUEC147 PR...
- Kama Linee
- Indrani Karuturi
- icacccs track 3
- icacccs track 3
- Malti Bansal
- Mohammed Thoufic

The meeting details panel on the far right shows 14 people in the call and a chat icon.

Mr Keerthivasan G, Mr Naveen Kumar A and Mr Jeevananthan N, Students of Final B.E. ECE, presented a paper on **“Power Generation using Footsteps For Mobile Charging”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 20 March 2021. Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | SMART ONLINE VOTING SYSTEM

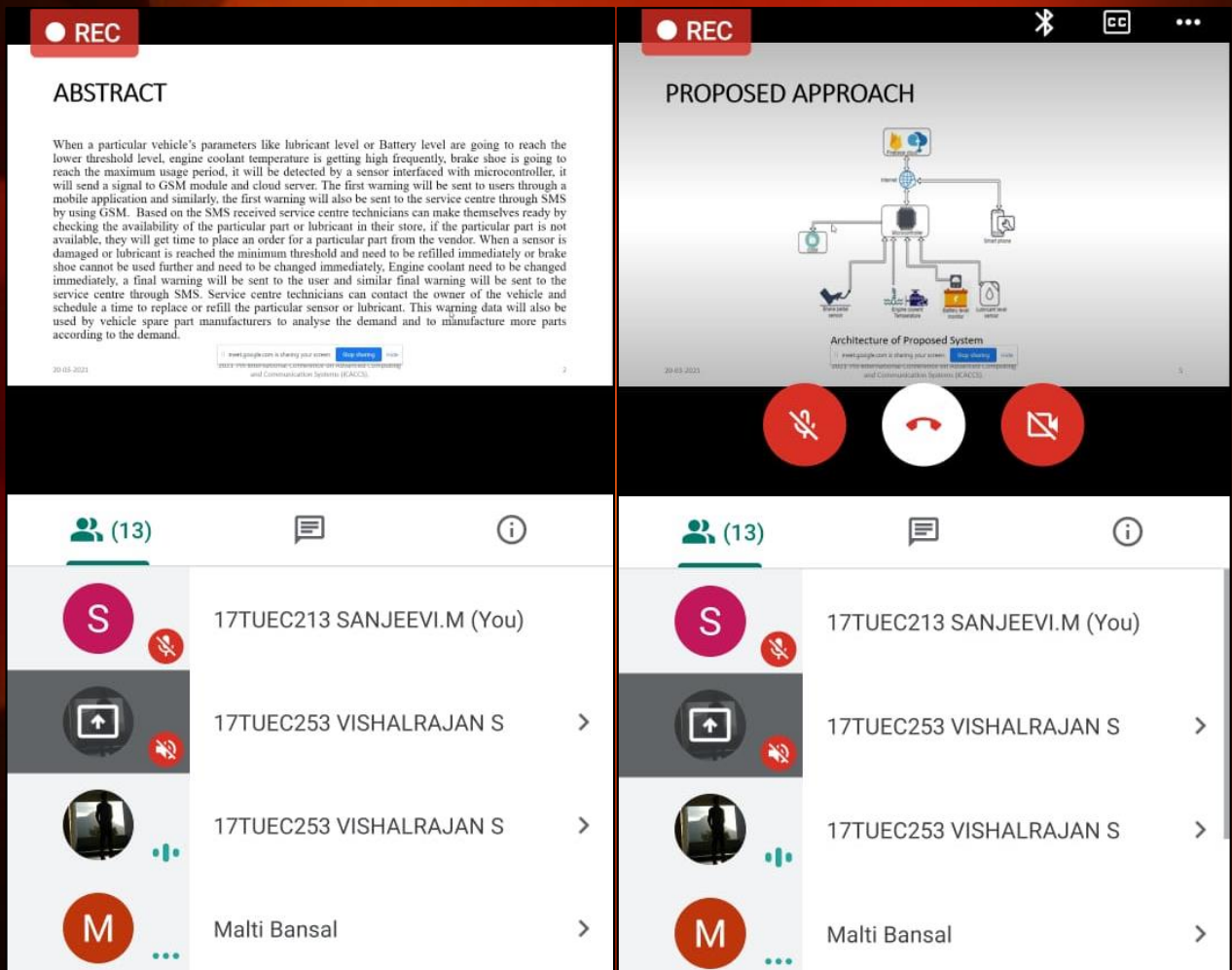
The screenshot shows a Zoom meeting interface. On the left, a presentation slide titled "INTRODUCTION" is displayed. The slide text reads: "The contribution of renewable resources in energy conversion is growing rapidly. In 2019, renewable technology contributed around 11% of global primary energy, and 17% was contributed to electricity generation. This renewable technology comprises modern biofuels, solar, wind, hydropower, wave, tidal, and geothermal. Among these solar is considered to be the fastest-growing technology." Below the text is an illustration of two hands shaking. Two blue boxes on the slide contain the following text:

- WHAT IS SOLAR PANEL?**
A solar panel is actually a collection of solar (or photovoltaic) cells, which can be used to generate electricity through photovoltaic effect.
- WHY SOLAR PANEL?**
The formation of solar panel could be broken into three generation, all those three generation has some disadvantage. The conventional solar panel could not be used in every place hence usage of solar panel would be a best choice in future.

On the right side of the Zoom interface, a list of participants is visible, including: RISHVANA M.E., 17TUEC147 PR..., Kama Linee, Indrani Karuturi, icaccs track 3, 18EUEE085-NI..., Mohammed Th..., and icaccs track 3. A "Meeting details" panel on the far right shows 15 people in the meeting and a list of participants with their names and status (e.g., Naveen kumar.A T., 17TUEC147 PRASATHR, 18EUEE085-NIGILA P, Devisri kasaraneni, icaccs track 3, Indrani Karuturi, Kama Linee).

Mr S Prabu, Mr A Nizarahammed and Mr S Raghul, Students of Final B.E. ECE, presented a paper on **"Smart Online Voting System"** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 19 March 2021. Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | VEHICLE DIAGNOSTIC SYSTEM



Mr S Vishalrajan, Mr M Sanjeevi and Mr B Ramanathan, Students of Final B.E. ECE, presented a paper on **“Vehicle Diagnostic System”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 20 March 2021. Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, mentored the students.

ECE | PAPER PRESENTATION | SMART IRRIGATION AND CROP PROTECTION USING ARUDINO

The screenshot displays a Zoom meeting interface. The main window shows a presentation slide with the following text:

Smart irrigation and crop protection using aurdino

BY
P. Manoj kumar
J. Arunachalam
R. Prasath

The meeting details panel on the right indicates 13 people are in the call. The participants listed are:

- Thirrunavukkarasu... (You)
- 17TUEC147 PRASATH.R
- 18EUEE085-NIGILA P
- 18EUEE091-Pavithra T
- Devisri kasaraneni
- icaccc track 3
- icaccc track 3

The bottom of the screen shows standard Zoom controls: Meeting details, Mute, Video, Unmute, and Raise hand.

Mr Prasath, Mr Arunachalam and Mr Manoj Kumar, Students of Final B.E. ECE, presented a paper on **“Smart Irrigation and Crop Protection using Arudino”** in IEEE sponsored 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021 organised by Sri Eshwar College of Engineering, Coimbatore on 20 March 2021. Mr R R Thirrunavukkarasu, Asst. Professor, Dept. of ECE, mentored the students.

ECE | STUDENTS' INPLANT TRAINING | FUNDAMENTALS OF TELECOM



Mr B Pevinsh and Mr A Naren Shanmugam, Students of Second B.E. ECE B section, attended an Inplant Training on “Fundamentals of Telecom” at Bharat Sanchar Nigam Limited, Tuticorin Telecom District during 15-19 March 2021.

FACULTY PARTICIPATIONS



@skctdigest



@skctofficial



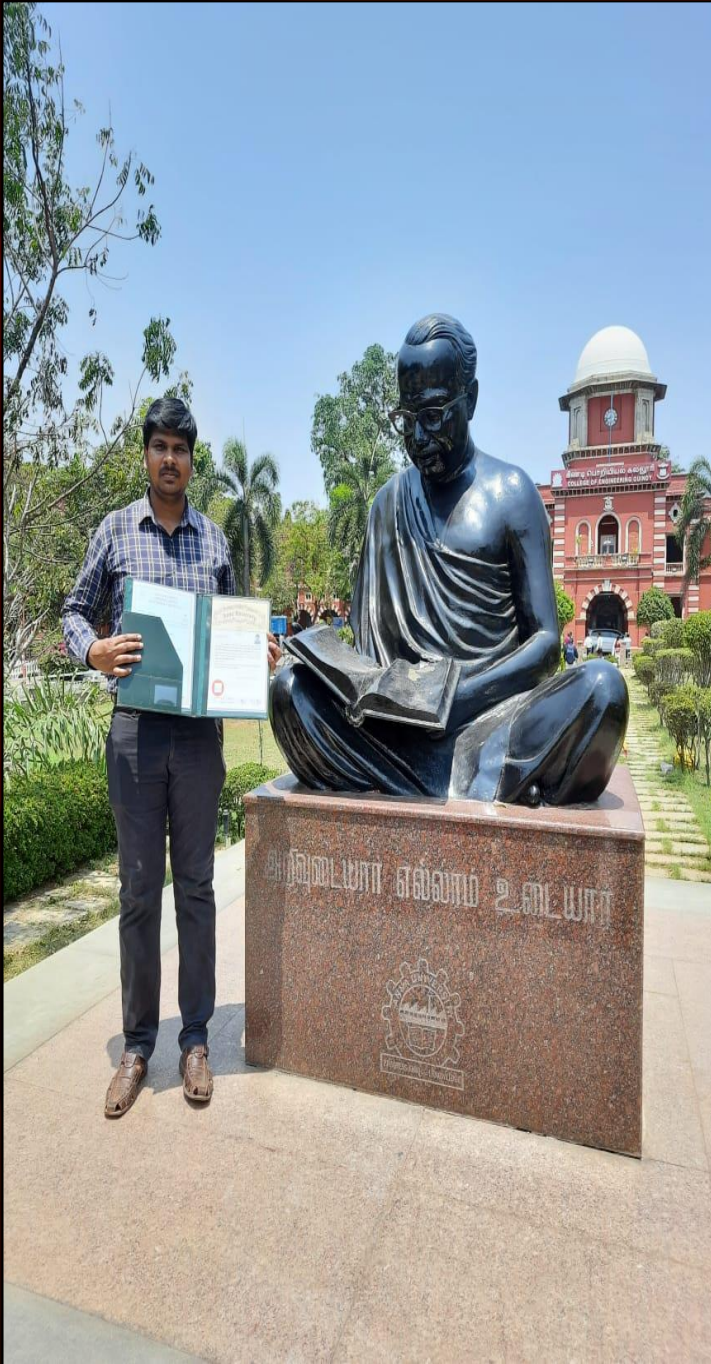
digestfeedback@skct.edu.in

SKCT | FACULTY PARTICIPATION | EPSI'S NATIONAL CONFERENCE AT CHENNAI



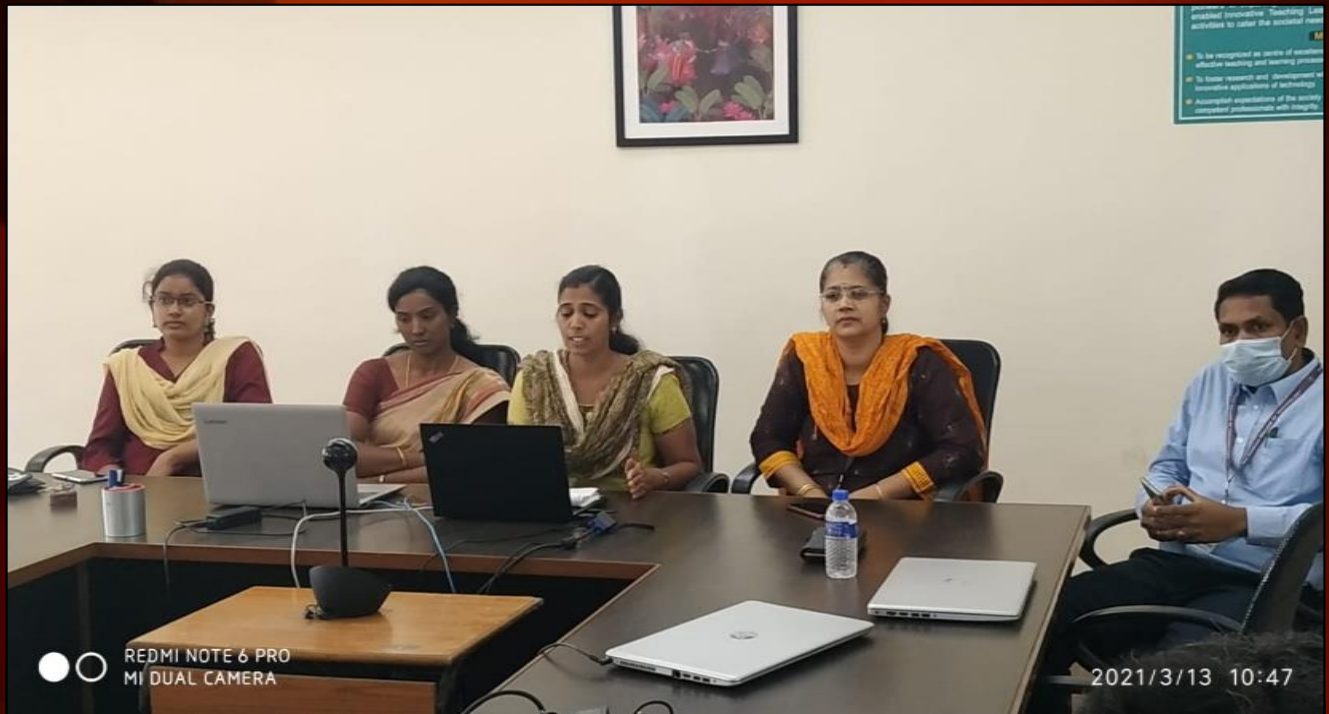
Dr Srinivasan Alavandar, Principal and Dr K Lakshmi, Professor and Head, Dept. of EEE, participated in EPSI's National Conference on **“Salient Features of APPROVAL PROCESS HANDBOOK (2021-2022) for Resetting Technical Education & Implementing National Education Policy 2020”** facilitated by Dr Anil D Sahasrabudhe, Chairman, AICTE at Taj Connemara, Chennai on 18 March 2021.

EEE | FACULTY ACHIEVEMENT | AWARDED Ph.D. DEGREE



Dr R Senthilkumar and Dr K P Suresh, Asst. Professors, Dept. of EEE, has been awarded “**Ph.D. Degree**” at Anna University, CEG Campus, Chennai on 19 March 2021.

SoM | AICTE LILAVATI AWARDS



Dr M Padmavathi, Professor and Head, Dr Y Arulsulochana, Assoc. Professor, Ms P Geetha, Asst. Professor, Ms Kavya and Ms Apoorva, Students of MBA and Signora Team Members, presented a sub theme on **"Women Entrepreneurship"** for **"AICTE Lilavati Awards"** on 13 March 2021.

**ECE | NPTEL | TOP PERFORMING MENTOR |
INTRODUCTION TO EMBEDDED SYSTEM DESIGN**



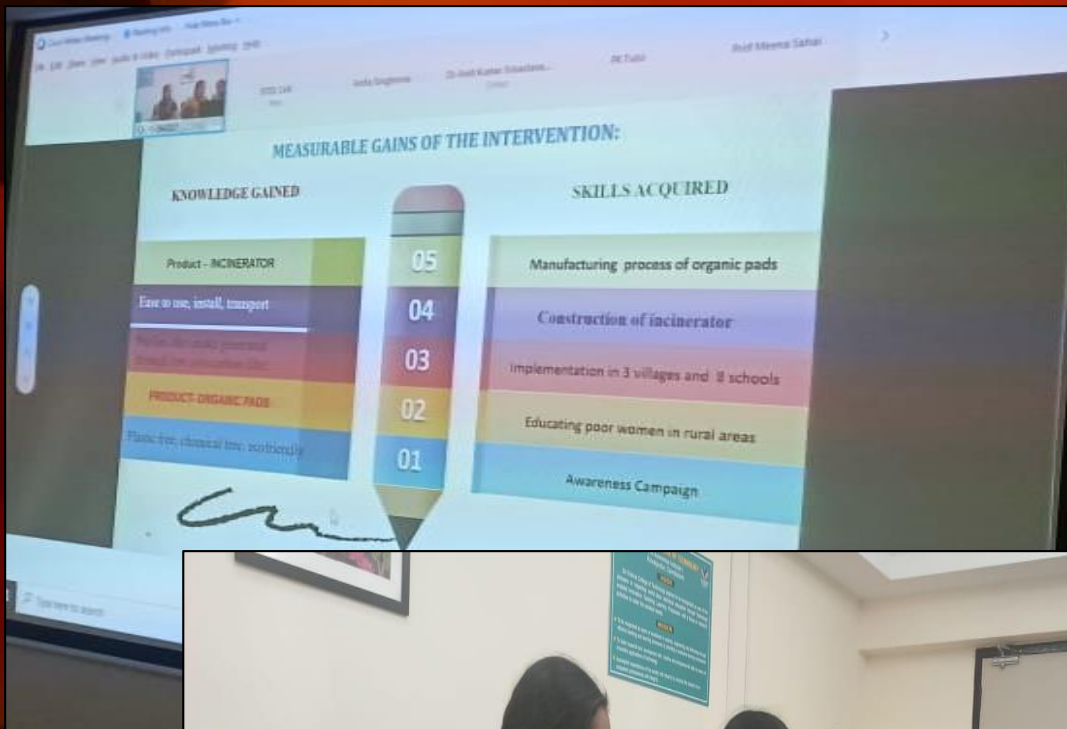
Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE, has been recognised as the **“TOP Performing Mentor”** for the NPTEL online course on **“Introduction to Embedded System Design”** offered during January-December 2020.

ECE | NPTEL | MENTOR | PATENT DRAFTING FOR BEGINNERS

Ms N Vijayalakshmi, Asst. Professor, Dept. of ECE, received a Certificate of Appreciation in recognition of her role as mentor for the NPTEL online course on **“Patent Drafting For Beginners”** offered during January-December 2020.



CIVIL | FACULTY PRESENTATION FOR LILAVATI AWARDS



Dr V Sreevidya, Professor, Ms A Venilla and Ms S Muthukeerthana, Asst. Professors, Dept. of Civil Engineering, presented a project on **“Organic Sanitary Pads and Pollution Free Incineration”** for AICTE Lilavati Award.

CIVIL | Ph.D. SCHOLAR PRESENTATION

Mr S Balamurugan, Research Scholar of Dr M Lenin Sundar, Professor, Dept. of Civil Engineering, presented his Ph.D. work on 18 March 2021.

CSE | NPTEL MENTOR

CERTIFICATE OF APPRECIATION
is awarded to

SANDHYA G
SRI KRISHNA COLLEGE OF TECHNOLOGY
COIMBATORE, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

DEVELOPING SOFT SKILLS AND PERSONALITY
Jan - Dec 2020

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				Toppers
		<40	40-59	60-74	75-89	>=90	
37							

CERTIFICATE OF APPRECIATION
is awarded to

SANDHYA G
SRI KRISHNA COLLEGE OF TECHNOLOGY
COIMBATORE, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

ENHANCING SOFT SKILLS AND PERSONALITY
Jan - Dec 2020

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				Toppers
		<40	40-59	60-74	75-89	>=90	
4	2	0	0	1	1	0	0

Ms G Sandhya, Asst. Professor, Dept. of CSE, received a “Certificate of Appreciation” in recognition of her role as mentor for NPTEL online certification course on “Enhancing Soft Skills and Personality”.

SoM | FACULTY PARTICIPATION & ACHIEVEMENTS



The Members of Faculty from the School of Management attended a webinar on “**New education policy 2020: A Vision For Future India**” organised by Institute of Technology and Science, Ghaziabad in association with AICTE, New Delhi.

RESEARCH



@skctdigest



@skctofficial



digestfeedback@skct.edu.in


SKCT | DASSAULT SYSTEMES | PROJECT FUNDING

Dr Srinivasan Alavandar, Principal, Dr S Sundararaj, Professor, Dept. of Mechanical Engineering, Mr Leninpugalhanthi P, Asst. Professor, Dept. of EEE, Mr Vasanth K, Mr Mitun L, Mr Vignesh B R, Mr Sri Pragash M and Mr Deepanraj M, Students of SKCT, received a **“Project Fund”** from Dassault Systemes La Fondation, Pune for the project on **“Development of Autonomous Vehicle for Subsea Oil Pipeline Inspection and Cleaning Oil Spills”**




Dr R Kanmani, Dr A Christy Jeba Malar, Assoc. Professors and Ms S Muthulakshmi, Asst. Professor, Dept. of IT, received a **“Project Fund”** for the project on **“Design and Development of Fruits and Vegetables Quality detector using IoT Technology.”**

MECH | PATENT PUBLISHED



INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS




संस्कृतम्
GOVERNMENT OF INDIA

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

Application Details	
APPLICATION NUMBER	202141009534
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/03/2021
APPLICANT NAME	1 . Dr. N. MOHAN RAJ 2 . Dr. P. PRATHAP 3 . Dr. N. MATHAN KUMAR 4 . Dr. S. SANTHOSH 5 . Dr. P. SAKTHIVEL 6 . V. LOGANATHAN
TITLE OF INVENTION	COMBINATION OF THREE ENERGY CONVERSION SYSTEM FOR A VEHICLE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	mohanrajnagarajan@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/03/2021

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

[View Documents](#)



Dr P Prathap, Professor and Head, Dr N Mohan Raj, Dr S Santhosh and Dr P Sakthivel, Assoc. Professors, Dept. of Mechanical Engineering, published a patent on **“Combination of Three Energy System for a Vehicle”** on 12 March 2021.

ECE | PATENT FILED | INTRA – BODY COMMUNICATION IN BIOMEDICAL APPLICATIONS

3/16/2021

:::Duplicate CBR Print of Date:::

PATENT OFFICE
 INTELLECTUAL PROPERTY BUILDING
 G.S.T. Road, Guindy, Chennai-600032
 Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
 E-mail : Chennai-patent@nic.in
 Web Site : www.ipindia.gov.in



CHALLAN : TR-5
 DOCKET NO:22406

Date/Time : 15/03/2021

To,
 DR. K. SRINIVASAN

Agent Number:

ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI KRISHNA COLLEGE OF TECHNOLOGY, KOVAIPUDUR, COIMBATORE - 641042. k.srinivasan@skct.edu.in

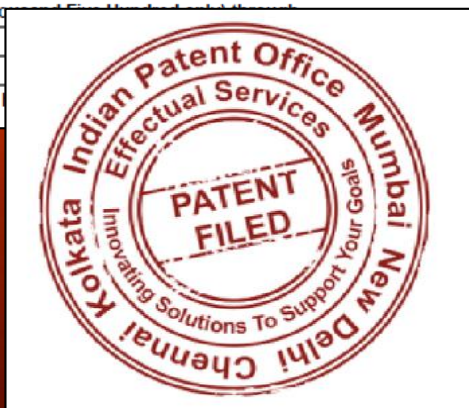
Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	9308	ORDINARY APPLICATION	202141010799	INTRA-BODY COMMUNICATION IN BIOMEDICAL APPLICATIONS	1750
2		E-2/852/2021-CHE	202141010799	Form2	0
3		E-3/8026/2021-CHE	202141010799	Form3	0
4		E-5/977/2021-CHE	202141010799	Form5	0
5	9308	E-12/960/2021-CHE	202141010799	Form9	2750
Total :					4500

Received a sum of Rs. 4500 (Rupees Four Thousand Five Hundred Only)

Payment Mode	Bank Name
Draft	Federal Bank

Date	Amount in Rs
	4500

Note: This is electronically generated receipt



Dr G M Tamilselvan, Professor and Head, Dr K Srinivasan, Assoc. Professor, Ms N Vijayalakshmi, Ms M Jaishree, Asst. Professors, Dept. of ECE, Mr C B Gokulakrishnan, Mr S Jayaseelan and Mr S Gohulsevan, Students of Final B.E. ECE, filed a patent on **“Intra – Body Communication in Biomedical Applications”** on 16 March 2021.

NEW VISTAS OF LEARNING



@skctdigest



@skctofficial



digestfeedback@skct.edu.in

**SoM | WEBINARS ON NATIONAL EDUCATION POLICY
2020: A VISION FOR FUTURE INDIA**

ITS
GHAZIABAD
(Estd. 1995)
NAAC Accredited 'A' Grade Institute
Internationally Accredited to ISO, USA
www.its.edu.in

NBA
NATIONAL BOARD
OF ACCREDITATION

ACCREDITED WITH GREAT
A
NAAC

In Association with
AICTE
All India Council of Technical Education

Institute of Technology & Science
Mohar Nagar, Ghaziabad

VIRTUAL **Seminar**
On

**New Education Policy 2020:
A Vision for Future India**

Friday, March 12 2021

Eminent Speakers

Prof. K.K. Aggarwal
Chairman
National Board of Accreditation
(NBA)

Prof. M. Jagadesh Kumar
Vice Chancellor
Jawaharlal Nehru University
Delhi

Prof. M. M. Pant
Founder Chairman
Planet Edu & Ex. Pro-Vice Chancellor
IGNOU

Prof. Vineet Kansal
Pro Vice Chancellor
Dr. A.P.J. Abdul Kalam Technical University
Lucknow

Mr. Arpit Chadha
Vice Chairman
I.T.S - The Education Group

Prof. Ranjana Arora
Head - Department of Teacher Education
NCERT

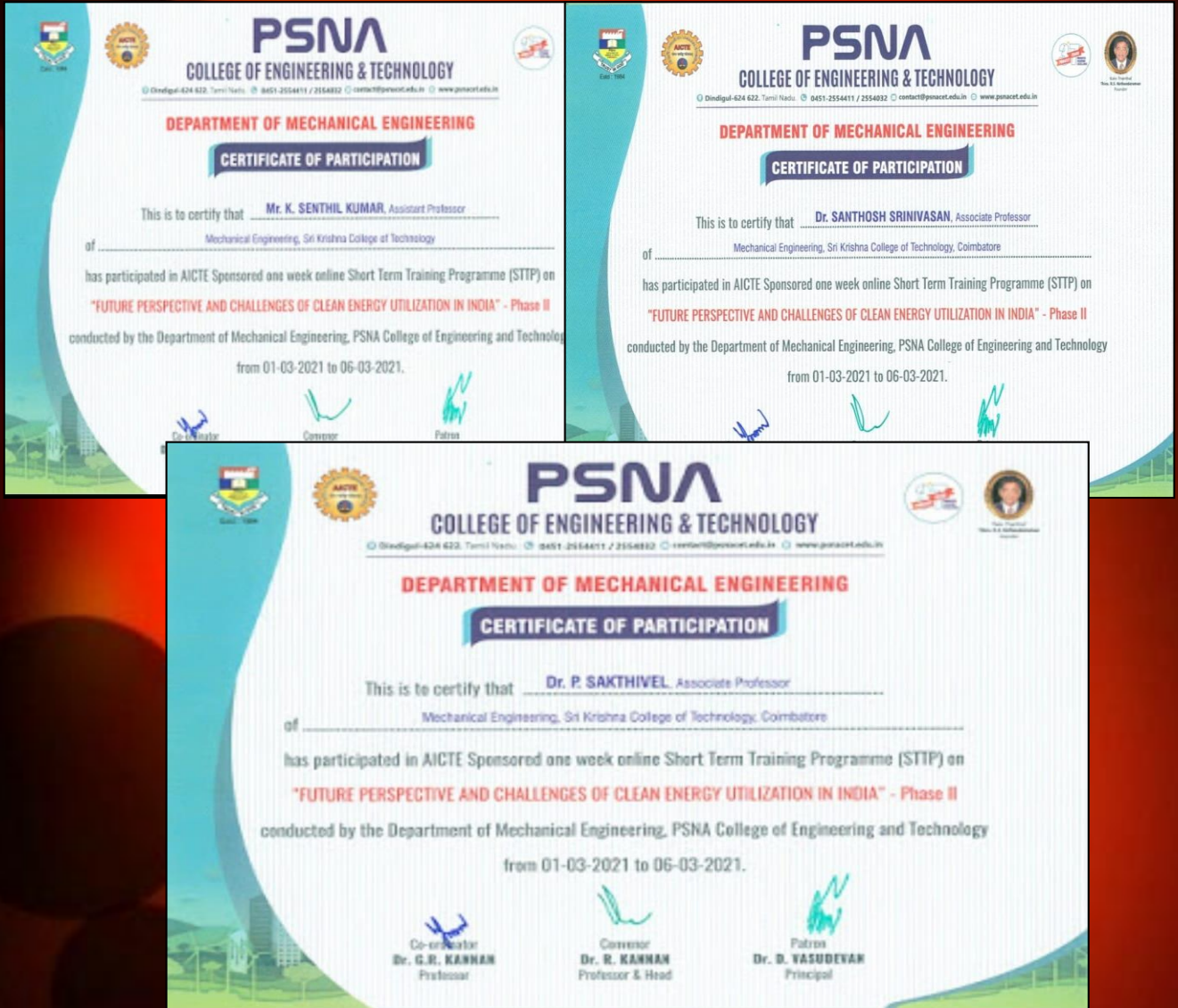
Dr. Sunil Kumar Pandey
Director - IT & UG
I.T.S, Ghaziabad

Prof. Nancy Sharma
Vice Principal - UG Campus
I.T.S, Ghaziabad

www.pg.its.edu.in www.ug.its.edu.in www.instagram.com/itsghaziabad/

The Members of Faculty from the School of Management attended a webinar on “**National Education Policy 2020: A Vision for Future India**” organised by Institute of Technology & Science, Ghaziabad on 12 March 2021.

MECH | STTP ON FUTURE PERSPECTIVE AND CHALLENGES OF CLEAN ENERGY UTILIZATION IN INDIA



Dr S Santhosh, Dr P Sakthivel, Assoc. Professor and Mr K Senthil Kumar, Asst. Professor, Dept. of Mechanical Engineering, attended the STTP programme on “**Future Perspective and Challenges of Clean Energy Utilization in India**” organised by PSNA, Dindigul during 01-06 March 2021.

IT | WEBINAR ON MICROSOFT LEARN FOR EDUCATORS

The screenshot shows a Microsoft Teams meeting interface. The main content is a slide titled "Real-world skills for the classroom" with the subtitle "Polo Universitario used Learn to equip students with powerful IT skills". The slide lists several benefits of using Microsoft Learn tracks:

- Faculty built entire courses based on Microsoft Learn tracks including AI, data science, and advanced programming
- Others use it as support to teach students technology concepts and skills
- Includes interactive tracks so students can learn at their own pace
- Helps make the transition to remote learning easier with resources, trainings, and how-to guides
- Graduates report using skills immediately in the companies they work for

A button at the bottom of the slide says "For more information, see the video at Microsoft Education". To the right of the slide is a photograph of a man and a woman sitting at a table, looking at a laptop. On the right side of the Teams interface, there is a "Live event Q&A" panel with a list of messages:

- Featured: My questions, Most recent
- Good morning all
- Anonymous 11:36 AM: Please provide the PPTS after lecture.
- Moderator 11:36 AM: Yes, this powerpoint will be shared with everyone after this meeting
- Anonymous 11:36 AM: Good Morning All
- Dr. Anubha Jain, IIS (deemed to be University), Jaipur 11:37 AM: Good morning
- Lavanya G,AP/IT „SKCT,Coimbatore (You) 11:38 AM: Good Morning

The screenshot shows a Microsoft Teams meeting interface. The main content is a slide titled "Real-world skills for higher education". The slide text reads: "Drive a fast transition to inclusive, online learning with tools, resources, and industry-recognized certification programs that empower students with real-world skills they need to thrive in a digital economy". Below the text is a photograph of three people (two men and one woman) looking at a laptop. At the bottom of the slide, there are two statistics:


- 77%: 77% of students will need new tech skills by 2030
- 6.2M: 6.2 million job openings in cloud-based technologies by 2022

On the right side of the Teams interface, there is a "Live event Q&A" panel with a list of messages:




- Featured: My questions, Most recent
- Good morning all
- Anonymous 11:36 AM: Please provide the PPTS after lecture.
- Moderator 11:36 AM: Yes, this powerpoint will be shared with everyone after this meeting
- Anonymous 11:36 AM: Good Morning All
- Dr. Anubha Jain, IIS (deemed to be University), Jaipur 11:37 AM: Good morning
- Lavanya G,AP/IT „SKCT,Coimbatore (You) 11:38 AM: Good Morning

Ms G Lavanya, Asst. Professor, Dept. of IT, attended a webinar on “Microsoft Learn for Educators” organised by ICT Academy on 17 March 2021.

EEE | WEBINAR PARTICIPATION | EFFECTIVE WRITING OF PROPOSALS FOR RESEARCH GRANTS




**MOHAMED SATHAK
ENGINEERING COLLEGE**
KILAKARAI-623 806, RAMANATHAPURAM DIST.







Accredited by NAAC,NBA, Approved by AICTE,DGS, COA and Affiliated to Anna University-Chennai. An ISO 9001:2015 Certified Institution


Certificate of Participation

This certificate is presented to **Dr.S.Saravanan**, Assistant professor & EEE, Sri Krishna College of Technology for active participation in webinar on "Effective Writing of Proposals for Research Grants"Handled by **Dr.M.Arockia Rajan**/Professor,Department of Applied Mechanics-IIT Madras on 13..3.2021.





COORDINATOR
 Dr.M.RAJESWARAN


CONVENOR
 Dr.V.MAYILVELNATHAN


PRINCIPAL
 Dr.N.MOHAMED SHERIFF



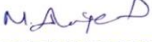
**MOHAMED SATHAK
ENGINEERING COLLEGE**
KILAKARAI-623 806, RAMANATHAPURAM DIST.







Accredited by NAAC,NBA, Approved by AICTE,DGS, COA and Affiliated to Anna University-Chennai. An ISO 9001:2015 Certified Institution

Certificate of Participation

This certificate is presented to **Mr.P.Leninpugalhanthi**, Assistant Professor & EEE, Sri Krishna College of Technology for active participation in webinar on "Effective Writing of Proposals for Research Grants"Handled by **Dr.M.Arockia Rajan**/Professor,Department of Applied Mechanics- IIT Madras on 13..3.2021.


COORDINATOR
 Dr.M.RAJESWARAN


CONVENOR
 Dr.V.MAYILVELNATHAN


PRINCIPAL
 Dr.N.MOHAMED SHERIFF

Made for free with Certify'em

Dr S Saravanan, Mr P Leninpugalhanthi, Asst. Professor, Dept. of EEE, attended a webinar on "Effective Writing of Proposals for Research Grants" organised by Mohamed Sathak Engineering College, Ramanathapuram facilitated by Dr M Arockia Rajan, Professor, Dept. of Applied Mechanics, IIT Madras on 13 March 2021.

CIVIL | WORKSHOP ON RESEARCH METHODOLOGY



Dr V Sathish Kumar, Asst. Professor, Dept. of Civil Engineering, attended a Five-day Virtual Workshop on “**Research Methodology**” organised by Mohammed Sathak A J College of Engineering, Chennai during 08-12 March 2021.

CSE | GUEST LECTURE

Kurdistan Region – Iraq
Lebanese French University
Directorate of Quality Assurance



هەرێمی کوردستان عێراق
زانکۆی لوبنانی فەرەنسی
بەرێوەبەرایەتی دڵنیایی چۆری

Appreciation Letter

To: Dr. R. Karthik

On behalf of Lebanese French University, this certificate is to extend our appreciation and gratitude for your contribution in an International workshop at our university about “Data Security” which was held on 7th & 8th of March, 2021.

Once again thank you for your contribution and assistance, we look forward to partnering with you in more projects in the future.

Houshyar Darbandi
Quality Assurance Director



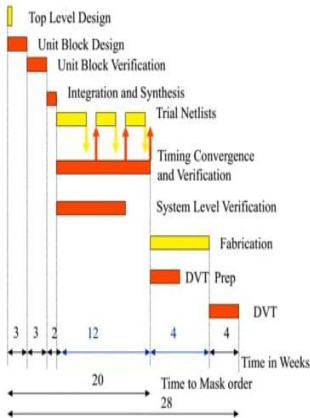
Prof. Dr. Mohammad Sadik Khoshnau
President

Dr R Karthik, Asst. Professor, Dept. of CSE, delivered a Guest Lecture on “Data Security” in an International workshop at Lebanese French University during 07-08 March 2021.

ECE | WORKSHOP ATTENDED | SYSTEM ON CHIP DESIGN USING EDA TOOLS

SoC Design Flow

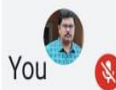
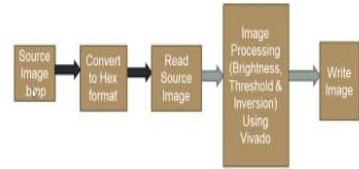
SoC Typical Design Steps



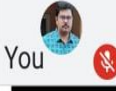
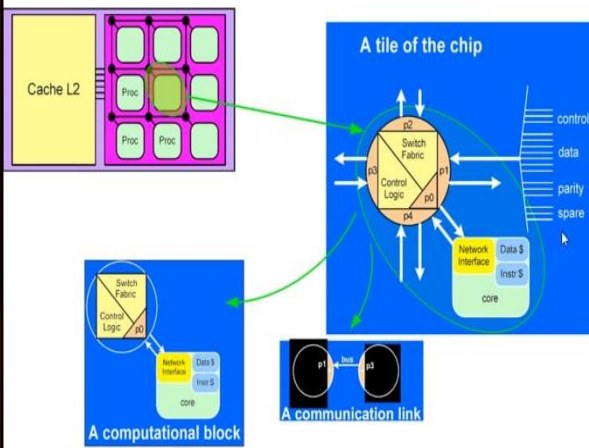
- Due to Chip Complexity and lower IC area, it is difficult to reduce Placement, Layout and Fabrication steps time.
- There is need to reduce the time of other steps before Placement, Layout and Fabrication steps.
- One should consider Chip Layout issues up-front.

REC

FPGA-Image processing Flow



SOC Structure



(23)

Mr. M. Navin Kumar Asst ...

EDASOC21 MSEC >

EDASOC21 MSEC >

Rupam Das >

Mr M Navin Kumar, Asst. Professor, Dept. of ECE, attended a Three-day workshop on “System on Chip Design using EDA Tools” organised by Mepco Schlenk Engineering College, Sivakasi during 18-20 March 2021.

FDPs ATTENDED



@skctdigest



@skctofficial



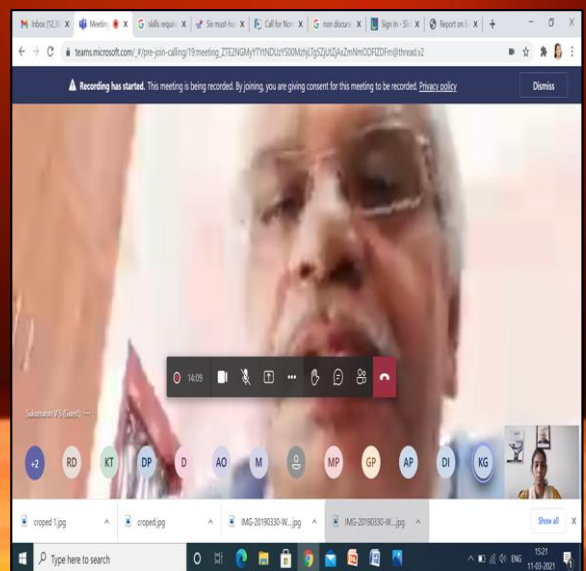
digestfeedback@skct.edu.in

ECE | FDP ATTENDED | INTELLIGENT LEARNING

Ms N Vijayalakshmi, Asst. Professor, Dept. of ECE, attended a Six-day AICTE ISTE Faculty Development Programme on **“Intelligent Learning”** organised by Anil Neerukonda Institute of Technology and Sciences, Vizag during 15-20 March 2021.

SoM | FDP ATTENDED | ENTREPRENEURSHIP DEVELOPMENT

Dr M Padmavathi, Professor and Head, has been attending a Fourteen-day FDP on **“Entrepreneurship Development”** organised by PSG - STEP during 10-23 March 2021.



IT | FDP ON INTELLIGENT LEARNING

meet.google.com/qnf-ykkm-zxo

REC nagaraju baydeti is presenting

1. What is Data Science?

- Study of data
- Process of deriving knowledge
- Gain insights from a huge and diverse set of data

WHAT IS DATA SCIENCE?
DATA SCIENCE FOR BEGINNERS

Meeting details (76)

- Ms. K. Mythili Asst... (You)
- A. Durga Praveen Kumar
- A.Y. VISHNU VARDHAN
- Abdulrazak kaladgi
- Angeline R
- anusha mallepally
- Aruna Akula
- ARUNA KUMARI AKULA

Meeting controls: Raise hand, Turn on captions, nagaraju baydeti is presenting

meet.google.com/qnf-ykkm-zxo

REC nagaraju baydeti is presenting

kaggle.com/datasets/indian-diabetes-database

Pima Indians Diabetes Database

Predict the onset of diabetes based on diagnostic measures

UCI Machine Learning • updated 4 years ago (Version 1)

Download (9 KB) New Notebook

Meeting details (76)

- Ms. K. Mythili Asst... (You)
- 16PH0418 Aswani Lalitha
- A. Durga Praveen Kumar
- A.Y. VISHNU VARDHAN
- Abdulrazak kaladgi
- Angeline R
- anusha mallepally
- Aruna Akula
- ARUNA KUMARI AKULA

Meeting controls: Raise hand, Turn on captions, nagaraju baydeti is presenting

Ms K Mythili, Asst. Professor, Dept. of IT, attended a Five-day AICTE-ISTE sponsored online Faculty Development Programme on **“Intelligent Learning”** during 15-19 March 2021.

IT | FDP ON CYBER SECURITY & FORENSICS

CS/ICTO-276/43/21



NITTTR Chandigarh
and

ACM@USICT Chapter, Guru Gobind Singh Indraprastha University

CERTIFICATE OF PARTICIPATION

This is presented to

MADUMIDHA.S

SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE,
TAMILNADU

for his/her successful participation in **NITTTR Chandigarh** and **ACM@USICT Chapter, GGSIP University** sponsored online Short Term Training Programme on **Cyber Security & Forensics** during March 08 - 12, 2021.

DR. ANURADHA CHUG
Course Co-coordinator

DR. RAHUL JOHARI
Course Co-ordinator

PROF. MAITREYEE DUTTA
Course Co-ordinator

PROF. PRAVIN CHANDRA
Dean, USIC&T

Ms S Madumidha, Asst. Professor, Dept. of IT, completed NITTTR Chandigarh and ACM@USICT Chapter, GGSIP University sponsored online STTP on “**Cyber Security & Forensics**” during 08-12 March 2021.

MEETINGS & DISCUSSIONS



@skctdigest

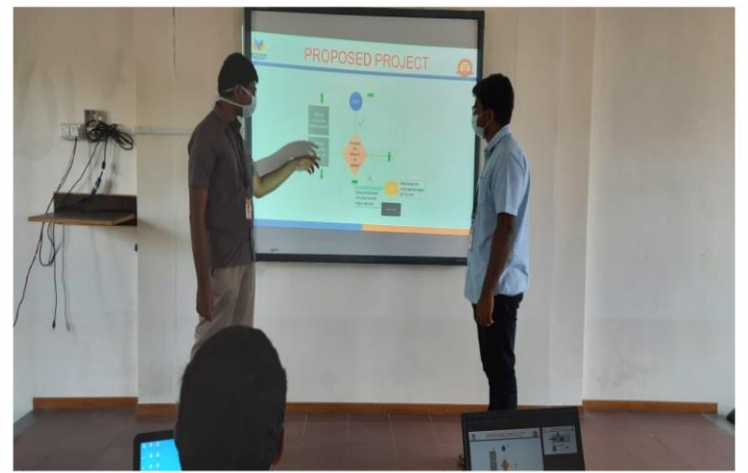


@skctofficial



digestfeedback@skct.edu.in

MECH | PROJECT REVIEW



The Dept. of Mechanical Engineering conducted the “**Third Project Review**” for the Students of Final B.E. Mechanical Engineering on 13 March 2021.

SoM | PROJECT REVIEW



The School of Management conducted the **“Second Project Review”** for the Students of Second MBA on 10 March 2021.

SoM | MEETINGS & DISCUSSIONS



The Members of Faculty from the School of Management attended the **“Faculty Meeting”** on 18 March 2021.

EEE | DEPARTMENT MEETING

Dr K Lakshmi, Professor and Head, Dept. of EEE, conducted a meeting with the Members of Faculty regarding the Progress of Even Semester Online Classes, Academic Activities, Final Year Project Work, R&D Activities and Placement Activities on 17 March 2021.

MECH | PLACEMENT MEETING



SRI KRISHNA INSTITUTIONS
COIMBATORE

SKI BOOTCAMP DIVISION

INDUCTION ASSESSMENT TEST - 2023 BATCH
(IAT2023)

Dear Students,

In connection to the **SKI BOOTCAMP - BATCH 2023 -**

Students are hereby informed that all phases of the IAT2023 will be conducted remotely and students are required to ensure a strong internet connection, a working laptop with webcam facility at all times. The Induction Assessment Test - 2023 Batch (IAT2023) will contain the following phases.

1. Student Registration - Campus wise (16/03/2021 to 18/03/2021)
2. Release of Test Link - List of Registered Students (20/03/2021)
3. IAT2023 - Mock Test (21/03/2021)
4. IAT2023 - Phase 1 (28/03/2021)
5. First Shortlist of IAT2023 (30/03/2021)
6. IAT2023 - Phase 2 (To be notified)
7. In Person Interaction (IPI) Sessions
8. Final List of SKI Bootcamp 2023 Inducts
9. Commencement of Classes

Page 1 of 4

SKI BOOTCAMP

IAT 2023

Dr P Prathap, Professor and Head, Mr R Nelson and Mr K S Raghul Asst. Professors and Placement Coordinators, Dept. of Mechanical Engineering, organised a “**Boot Camp**” for the Students of Second B.E. Mechanical Engineering on 17 March 2021.

EVENTS ORGANISED



@skctdigest

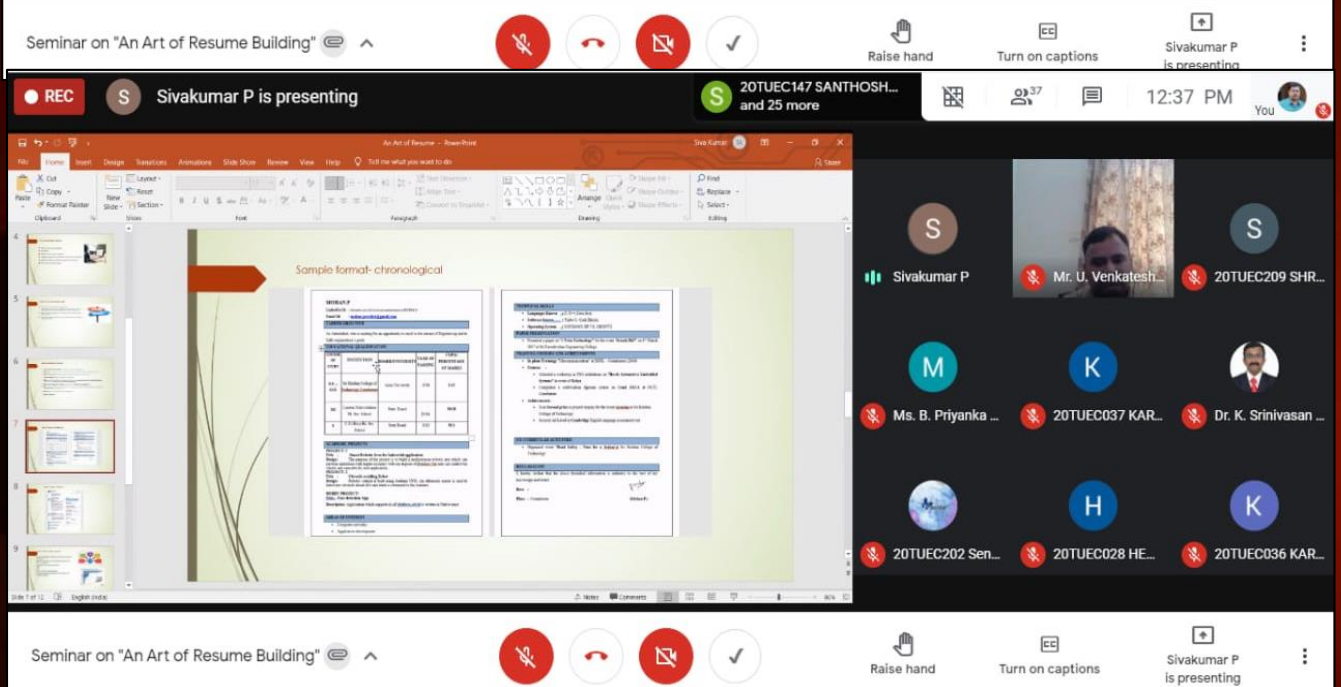
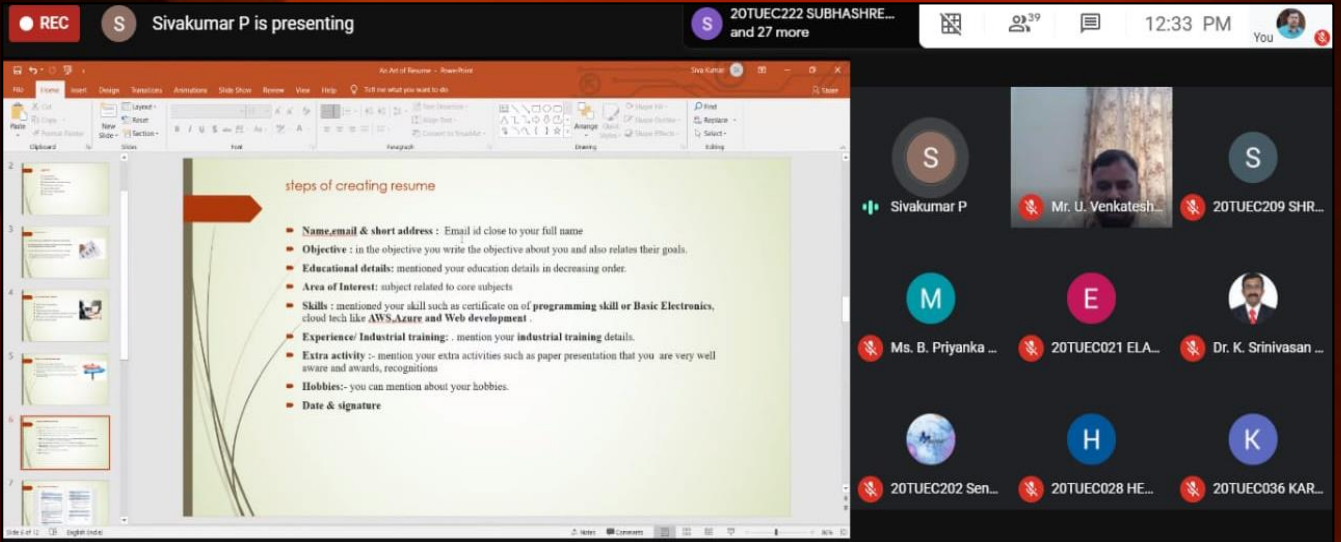


@skctofficial



digestfeedback@skct.edu.in

ECE | SEMINAR ORGANISED | ART OF RESUME BUILDING



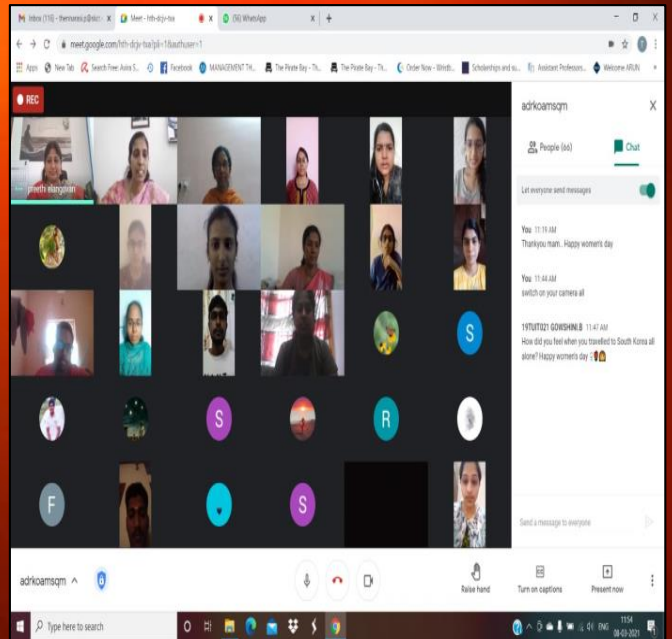
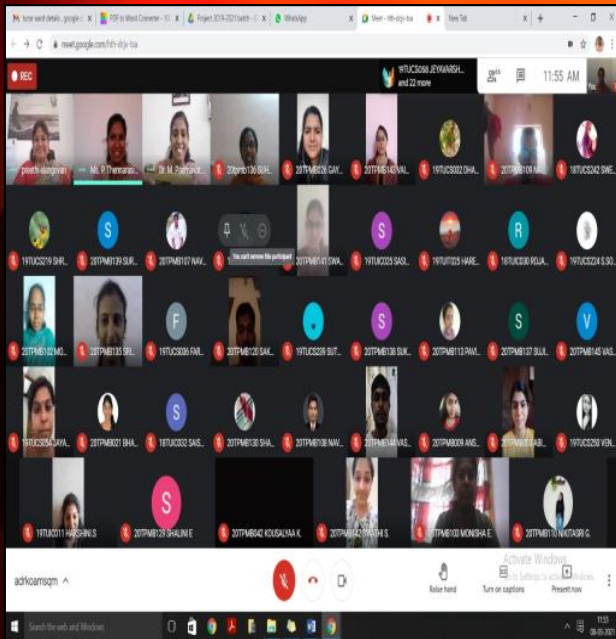
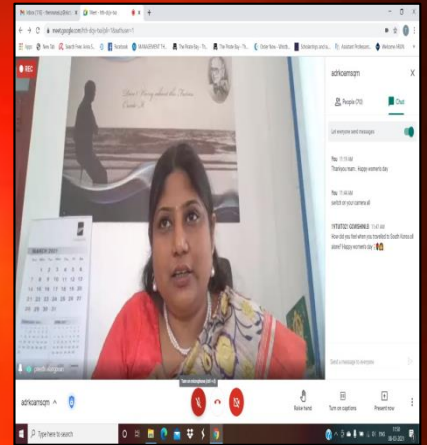
The Dept. of ECE organised a seminar on "An Art of Resume Building" facilitated by Mr Mohan Palanichamy, Alumnus, SKCT for the Students of First B.E. ECE. Mr U Venkatesh Kumar and Mr M Navin Kumar, Asst. Professors, Dept. of ECE, coordinated the event on 13 March 2021.

SoM & WOMEN EMPOWERMENT CELL | PERSONAL GROOMING

The School of Management and Women Empowerment Cell organised a **“Personal Grooming”** session as a part of women’s day celebration, facilitated by Shri Janani, Alumna of SoM on 08 March 2021.



SoM & WOMEN EMPOWERMENT CELL | WEBINAR ORGANISED | ATMANIRBHAR BHARAT AND WOMEN EMPOWERMENT



The School of Management and Women Empowerment Cell organised a webinar on “Atmanirbhar Bharat and Women empowerment” as a part of women’s day celebration, facilitated by Ms Preethi Elagovan, AGM, Plant Head, Kirloskar Brothers, Coimbatore on 08 March 2020.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES

REC G GAURAV VARSHNEY is presenting

Three Days Online Faculty Development Programme on 5G Antenna Design Techniques (18th - 20th March, 2021)

Organized by Department of Electronics and Communication Engineering



Sri Krishna College of Technology (An Autonomous Institution) Department of Electronics and Communication Engineering, Combatores - 541 042, Website: www.sktc.edu.in



Antennas for 5G millimeter wave communication systems

Dr. Gaurav Varshney,
National Institute of Technology Patna
gaurav.ec@nitp.ac.in

(Google Scholar: [shorturl.at/hHPY3](https://scholar.google.com/citations?user=hHPY3))
(ResearchGate: https://www.researchgate.net/profile/Gaurav_Varshney5)

M

You

B

Boo Pathi

V

19TUEC249 Vijayabharathi. S



REC G GAURAV VARSHNEY is presenting

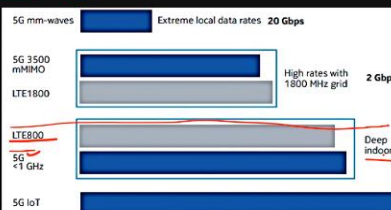


Figure 1. Typical 5G spectrum use in the early phases of 5G (mMIMO=massive MIMO).

Bands	Frequency range	Name
FR-1	<1 GHz	Sub 1 GHz
FR-2	450-6 GHz	Sub 6 GHz
FR-3	24.25 GHz to 52.6 GHz and above	Millimetre wave

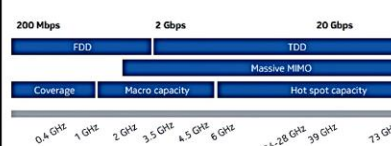


Figure 2. Overview of 5G spectrum options, the main technologies (FDD, TDD, antennas) and the main use areas (coverage, capacity). The low bands are FDD-based and provide coverage, while the high bands are TDD-based and offer high capacity when used with massive MIMO.

5G Systems

M

You

G

GAURAV VARSHNEY

P

P.Mohana Sundari Ksriet

DHANANJAY SINGH

Meeting details X

People (29) Chat

Add people

IN CALL

- M Ms Dhivya Priya E... (You) 🔊
- Arul Rajan 🔊
- CHELLAPALLI LAKSHMI... 🔊
- DHANANJAY SINGH 🔊
- Dr. G.M. Tamil Selvan Pr... 🔊
- Dr. R. Vadivelu, ASSO. P... 🔊

Meeting details ^

🔊 📞 🗑️ ✓

Raise hand Turn on captions GAURAV VARSHNEY is presenting

The Dept. of ECE organised a Three-day Faculty Development Program on “5G Antenna Design Techniques” facilitated by Dr Gaurav Varshney, Asst. Professor, Dept. of ECE, NIT Patna. Dr K Sumathi, Professor and Dr R Vadivelu, Assoc. Professor, Dept. of ECE, coordinated the event on 18 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON ANTENNAS FOR 5G NEW RADIO

5G Radio Channel: Channel Statistics

- Computed for individual cells
- Consideration of omni BS antenna
- Cell areas given by best server map
- Delay spread at 26 GHz
- Azimuth angular spreads at 26 GHz

Department of ECE

Challenges for 5G

5G Service and Scenario Requirements

- Massive growth in mobile data demand (1000x capacity)
- Higher data rates per user (10x)
- Massive growth of connected devices (10-100x)
- Lower latency for real-time connections (5x)
- Higher energy efficiency for longer battery life (100x)
- New use cases like connected cars, machine-to-machine (IoT)

Key Solutions

- Increased spectrum with trend to higher frequencies
 - 700 MHz for basic coverage
 - 3.5 GHz for high data rate services & capacity
 - 26/28 GHz for fiber like data rates & capacity hotspots

Source: Huawei 5G Technology Vision

Dr R Vadivelu, Assoc. Professor, Dept. of ECE, delivered a lecture on **“Antennas for 5G New Radio”** in a Day 1 Session 2 of Three-day Faculty Development Programme on **“5G Antenna Design Techniques”** organised by the Dept. of ECE on 18 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON MICROSTRIP ANTENNA AND ITS FEEDING TECHNIQUES FOR 5G COMMUNICATIONS

The image shows a Zoom meeting interface. The main window displays a presentation slide titled "Feeding Techniques Coaxial Feed". The slide lists the following:

- Advantages**
 - ✓ Simple
 - ✓ Directly compatible with coaxial cables
 - ✓ Easy to obtain input match by adjusting feed position
- Disadvantages**
 - ✓ Significant probe radiation for thicker substrates
 - ✓ Significant probe inductance for thicker substrates which limits bandwidth
 - ✓ Not easily compatible with arrays

Handwritten notes on the slide include "Coax" and "Low BW". The meeting details panel on the right shows 29 people in the meeting, with Ms. M. Jalshree ASST. PROF. as the host. The bottom panel shows a grid of 28 participants, including Dr. K. SUMATHI, Dr. J. Rangarajan, Tumkur Nirmala, Mr. G. Santhakumar A..., KARTHI J, Ms. B. Priyanka Asst..., Anne Ramya, Menaka Devi, ANANDASELVAKART..., MURAKONDA SAINA..., Jenath Mohamad, P. Mohana Sundari Ks..., Rajasekaran Nirmala, CHELLAPALLI LAKSH..., kirubakaran J, Swaminathan S, Dr. R. Vadivelu, ASSO..., kirubakaran J, R. Deepalakshmi, Arul Rajan, Sunita Joshi, Dr. ANANDHI MEENA..., seetha Laseetha, Siva Kumar, seetha Laseetha, Madhan Kumar, and merlin p.

Ms Dhivya Priya E L, Asst. Professor, Dept. of ECE, delivered a lecture on “Microstrip Antenna and its Feeding Techniques for 5G Communications” in a Day 1 Session 3 of Three-day Faculty Development Programme on “5G Antenna Design Techniques” organised by the Dept. of ECE on 18 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON MIMO-OFDM AS PHYSICAL LAYER TECHNIQUE - TOWARDS 5G

Conclusion

- Robust transmission in fading environment.
- HDL Optimized models for Implementation on the Zynq Ultrascale+RFSoc with reduction in Size, Weight and Power Consumption.
- Digital Beamforming with Low BER for data transmission even in the noisy environment.
 - High Robustness 4×4 MIMO-OFDM with DB \rightarrow BER (0.02%) \ll 4×4 MIMO OFDM \rightarrow BER (32.07%) @64-QAM modulation in scattering channel model.

29 SAMEER Centre for Electromagnetics 19 March 2021

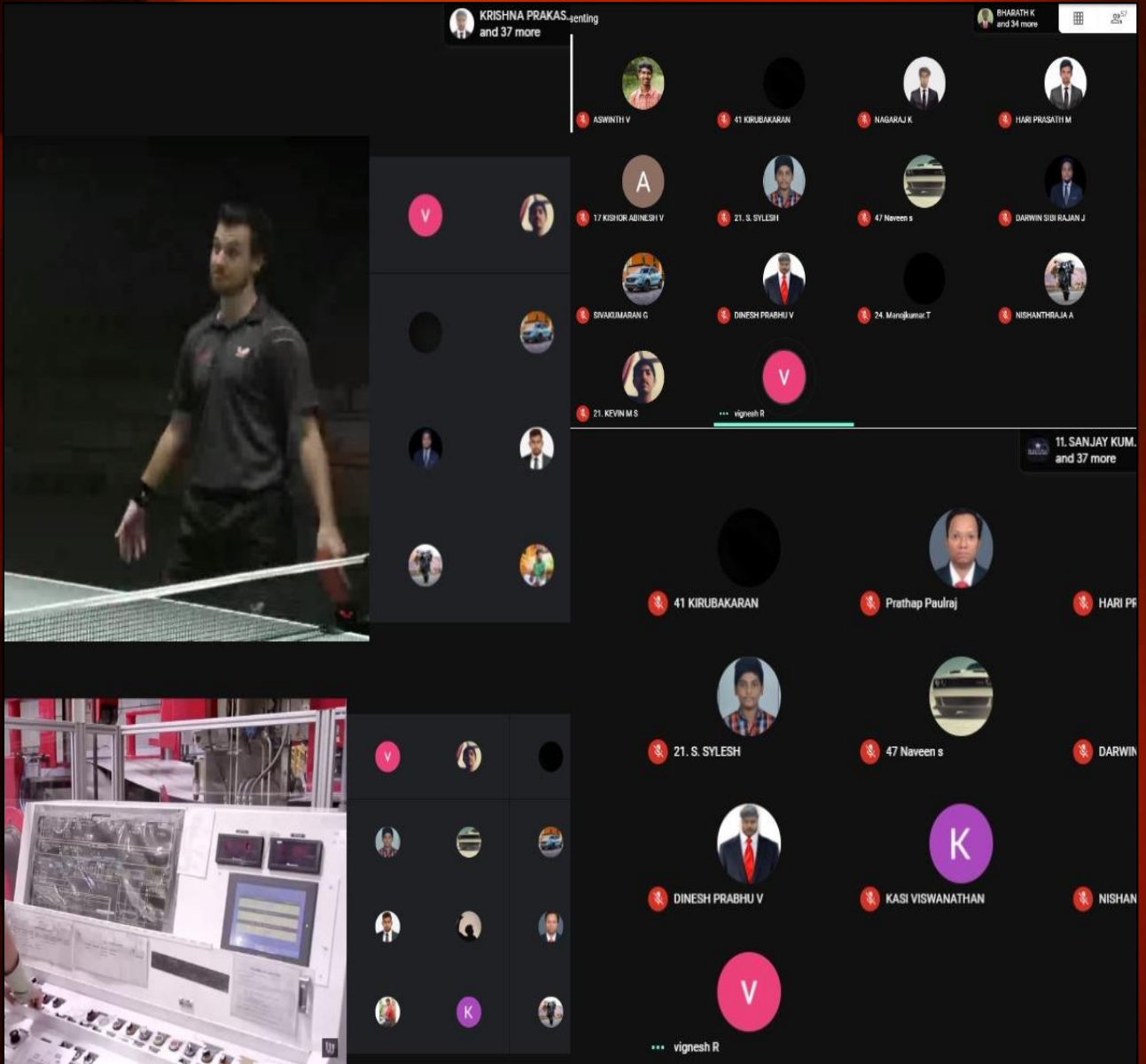
References

- Jan Sun, Nan Zen, Dongfeng Yuan, 2011, April, Implementation of a 2x2 MIMO OFDM Real Time System on DSP/FPGA Platform, IEEE Third International Conference on Communications and Mobile Computing, pp. 441-444.
- Paulraj, A., Rohit, A.P., Nabar, R. and Gore, D., 2003. Introduction to space-time wireless communications. Cambridge university press.
- Farley, B., Erdmann, C., Vaz, B., McGrath, J., Cullen, E., Verbruggen, B., Palicori, R., Breathnach, D., Linn, P., Boumaali, A. and Lynch, P., 2017, November. A programmable RFSoc in 16nm FinFET technology for wideband communications. In 2017 IEEE Asian Solid-State Circuits Conference (A-SSCC) (pp. 1-4). IEEE.
- Nishimori, K., Kudo, R., Honma, N., Takatori, Y., Aizashi, O. and Okada, K., 2008, July, Experimental evaluation using 16x16 multuser MIMO testbed in an actual indoor scenario. In 2008 IEEE Antennas and Propagation Society International Symposium (pp. 1-4). IEEE.
- Drozdenko, B., Zimmermann, M., Diao, T., Chowdhury, K. and Leiser, M., 2017, Hardware-software codesign of wireless transceivers on zynq heterogeneous systems. IEEE Transactions on Emerging Topics in Computing, 6(4), pp.566-578.

30 SAMEER Centre for Electromagnetics 19 March 2021

Ms Penilope, Scientist D, SAMMER - Centre for Electromagnetics, Taramani, Chennai, delivered a lecture on “MIMO-OFDM as Physical Layer Technique - Towards 5G” in a Day 2 Session 1 of Three-day Faculty Development Programme on “5G Antenna Design Techniques” organised by the Dept. of ECE on 19 March 2021.

MECH | WEBINAR ORGANISED FOR POLYTECHNIC STUDENTS



The Dept. of Mechanical Engineering in association with Axis Global Automation organised a webinar on **"Factory Automation using Industrial Robotics for Manufacturing Sector"** for the Students of Polytechnic on 12 March 2021.

IT | WEBINAR ORGANISED | PROBLEM SOLVING ESSENTIALS

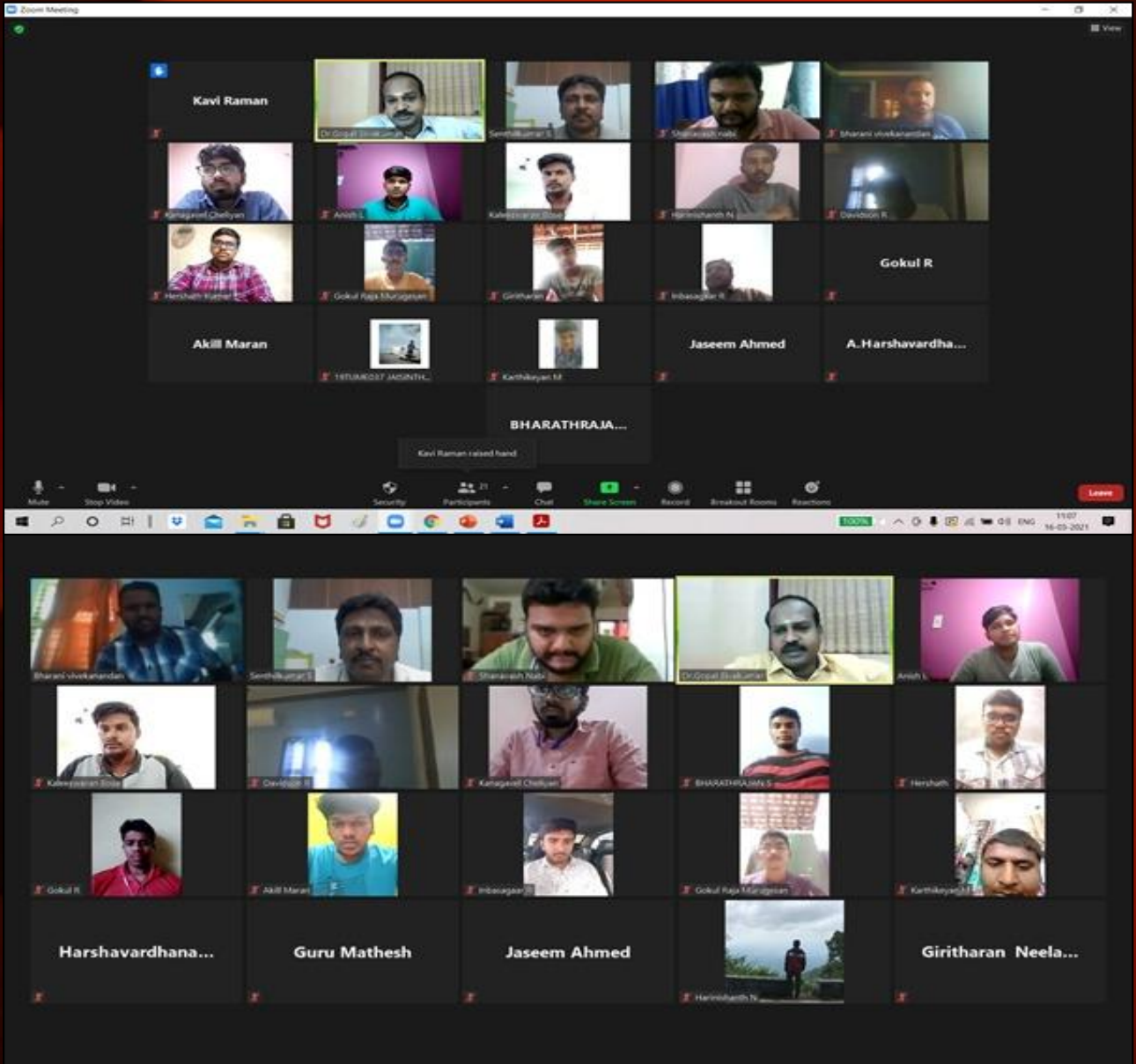
The image displays two screenshots from a Google Meet webinar. The top screenshot shows a presentation slide with the title "PROBLEM SOLVING ESSENTIALS" in white text on a red square background. The bottom screenshot shows a slide titled "Know Your Resources" with a list of six items:

- 1) Developer Communities
- 2) Stack overflow
- 3) Open source : Github
- 4) Start reading documentation
- 5) Plan well : Using Trello
- 6) Use developer tools (UI)

Both screenshots show a meeting interface with a list of participants on the right and a control bar at the bottom. The meeting is titled "Sneha Narendran is presenting" and has 34 participants. The time shown is 12:12 PM and 12:14 PM respectively.

The Dept. of Information Technology and Institution Innovation's Council organised webinar on "Problem Solving Essentials" facilitated by Ms Sneha Narendren, Thoughtworks Technologies, Coimbatore. Ms S Madumidha and Dr D Jeyabharathi, Asst. Professors, Dept. of IT, coordinated the event on 13 March 2021.

MECH | TRAINING PROGRAMME | SIX SIGMA YELLOW BELT TRAINING



The Dept. of Mechanical Engineering in association with MSME organised a Two-day **“Lean Six Sigma Yellow Belt Training Programme”** for the Students of B.E. Mechanical Engineering during 15-16 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON SMART ANTENNAS AND ITS APPLICATION

REC Dr. K. Srinivasan Associate Professor ECE is presenting

SMART ANTENNAS

Dr.K.Srinivasan
Associate Professor/ECE
Sri Krishna College of Technology

Meeting details

People (13) Chat

Add people

IN CALL

- Ms Dhivya Priya E... (You)
- CHELLAPALLI LAKSHMI...
- Deputy Controller of Ex...
- Dr. J. Rangarajan
- Dr. K. Srinivasan Associ...
- Dr. K. Srinivasan Associ...

Meeting details ^

Raise hand Turn on captions Dr. K. Srinivasan Associate Pr... is presenting

REC 28 3:35 PM You

You Dr.K.SUMATHI Profes... Dr. J. Rangarajan Tumkur Nirmala Mr.G.Santhakumar A... KARTHI J Ms. B. Priyanka Asst ...

Anne Ramya Menaka Devi ANANDASELVAKART... MURAKONDA SAINA... Jenath Mohamad PMohana Sundari Ks... Rajasekaran Nirmala

CHELLAPALLI LAKSH... kirubakaran J Swaminathan S Dr. R. Vadivelu, ASSO... kirubakaran J R. Deepalakshmi Arul Rajan

Sunita Joshi Dr ANANDHI MEENA ... seetha Laseetha Siva Kumar seetha Laseetha Madhan Kumar merlin p

Meeting details ^

Raise hand Turn on captions Present now

Dr K Srinivasan, Assoc. Professor, Dept. of ECE, delivered a lecture on **“Smart Antennas and Its Application”** in Day 2 Session 2 of Three-day Faculty Development Programme on **“5G Antenna Design Techniques”** organised by the Dept. of ECE on 19 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON 5G FOR INDUSTRIAL APPLICATIONS

REC Mr. U. Venkateshkumar ASST. PROF is presenting

Meeting details

People (18) Chat

Add people

IN CALL

- Ms Dhivya Priya E... (You)
- Arul Rajan
- Asha Banu S M
- CHELLAPALLI LAKSHMI...
- Deputy Controller of Ex...
- Dr ANANDHI MEENA B...

Meeting details ^

Raise hand Turn on captions Mr. U. Venkateshk... is present 19 March 2021 Fri 15:14 (Local time)

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "5G for Industrial Application". The slide content includes the presenter's name, "U. VENKATESHKUMAR, Assistant Professor, ECE, Sri Krishna College of Technology", and a diagram of a factory floor with yellow boxes on a conveyor belt. The meeting controls at the bottom show a microphone icon, a mute button, and a "Turn on captions" button. The meeting details panel on the right lists 18 participants, including Ms Dhivya Priya E... (You), Arul Rajan, Asha Banu S M, CHELLAPALLI LAKSHMI..., Deputy Controller of Ex..., and Dr ANANDHI MEENA B....

REC Mr. U. Venkateshkumar ASST. PROF is presenting

Deputy Controller of Examinations S... and 5 more

Meeting details

3:35 PM

Meeting details ^

Raise hand Turn on captions Mr. U. Venkateshkumar ASST. ... is presenting

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "bluetooth". The slide content includes a list of features for Bluetooth 5.0, 5.1, and 5.2. The meeting controls at the bottom show a microphone icon, a mute button, and a "Turn on captions" button. The meeting details panel on the right lists 19 participants, including Mr. U. Venkateshk..., CHELLAPALLI L..., Swaminathan S, kalikivoi rao, merlin p, Dr. J. Rangarajan, Srinivasarao Alluri, Dr. R. Vadivelu, A..., kirubakaran J, seetha Laseetha, and Asha Banu S M.

Mr U Venkateshkumar, Asst. Professor, Dept. of ECE, delivered a lecture on “5G for Industrial Applications” in Day 2 Session 3 of Three-day Faculty Development Programme on “5G Antenna Design Techniques” organised by the Dept. of ECE on 19 March 2021.


ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON MICROSTRIP ANTENNA DESIGN FOR 5G & BEYOND

The top screenshot shows a Zoom meeting interface with 22 participants. The meeting title is "Meeting details". The participants listed in the "IN CALL" section are: Ms Dhivya Priya E... (You), 19TUEC249 Vijayabhara..., ANANDASELVAKARTHI..., Asha Banu S M, CHELLAPALLI LAKSHMI..., and Deputy Controller of Ex... The bottom screenshot shows a presentation slide titled "2021 WILL BE YEAR OF ANTENNAS @TESLA MINDS". The slide features logos for Sinetec Technologies and Tesla Minds, along with the text "An Unbeatable Collaboration for Test & Measurement Instruments" and "Are you Ready?". The presentation is being presented by Tesla Minds Office.



Dr T Jayanandhan, Founder and CEO, Tesla Minds, Chennai, delivered a lecture on on **“Micro-strip Antenna Design for 5G & Beyond”** in Day 3 Session 1 of Three-day Faculty Development Programme on **“5G Antenna Design Techniques”** organised by the Dept. of ECE on 20 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON 5G ANTENNAS - HFSS

REC Mr.G.Santhakumar Asst Prof ECE is presenting



5G ANTENNA DESIGN

Mr. G. Santhakumar
Assistant Professor, Department of ECE
Sri Krishna College of Technology
Coimbatore
Email: g.santhakumar@skct.edu.in

Meeting details

People (11) Chat

Add people

IN CALL

- Ms Dhivya Priya E... (You)
- ANANDASELVAKARTHI...
- Asha Banu S M
- Dr. J. Rangarajan
- Dr. R. Vadivelu, ASSO. P...
- KARTHI J

REC Mr.G.Santhakumar Asst Prof ECE is presenting

Radio Wave Spectrum

- 5th generation wireless systems, abbreviated **5G**, are improved networks deploying in 2018 and later and may use existing 4G or newly specified 5G Frequency Bands to operate.
- The primary technologies include: **Millimeter wave bands** (26, 28, 38, and 60 GHz) are 5G and offer performance as high as 20 gigabits per second; **Massive MIMO** (Multiple Input Multiple Output – 64-256 antennas) offers performance "up to ten times current 4G networks"

Link: <https://www.youtube.com/watch?v=HZokKy8Yxk>

20-03-2021 Ref: <https://www.mivv.com/5g-radio-frequency/>

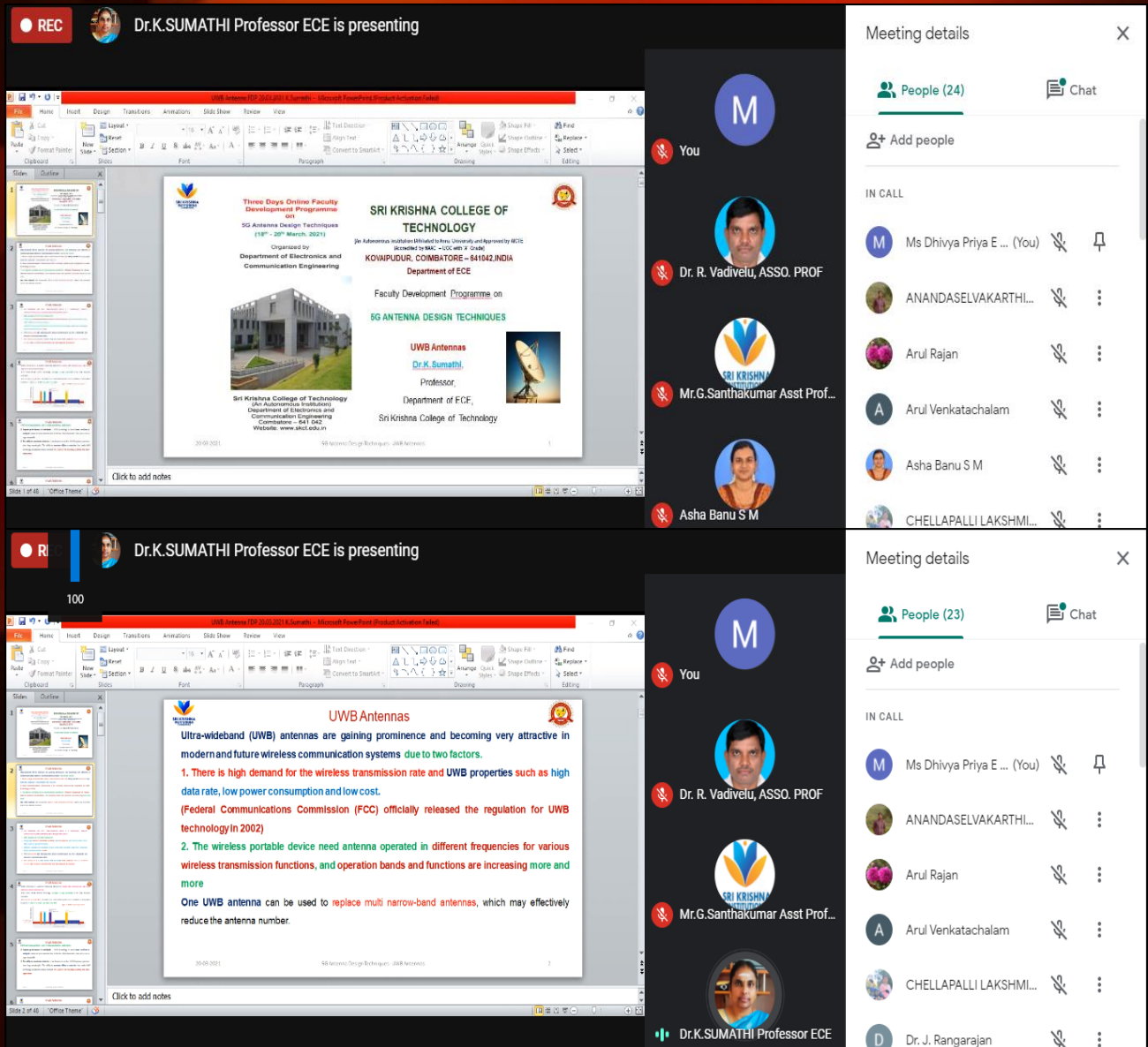
Siva Kumar and 5 more

16 2:04 PM You

- You
- Mr.G.Santhakum...
- Dr. J. Rangarajan
- Dr. R. Vadivelu, A...
- Asha Banu S M
- seetha Laseetha
- Ms. B. Priyanka ...
- Tumkur Nirmala
- ANANDASELVA...

Mr G Santhakumar, Asst. Professor, Dept. of ECE, delivered a lecture on "5G Antennas - HFSS" in Day 3 Session 3 of Three-day Faculty Development Programme on "5G Antenna Design Techniques" organised by the Dept. of ECE on 20 March 2021.

ECE | FDP ORGANISED | 5G ANTENNA DESIGN TECHNIQUES | SESSION ON UWB ANTENNAS



Dr K Sumathi, Professor, Dept. of ECE, delivered a lecture on “UWB Antennas” in Day 3 Session 4 of Three-day Faculty Development Programme on “5G Antenna Design Techniques” organised by the Dept. of ECE on 20 March 2021.

CIVIL | WORKSHOP ON BUSINESS MODEL CANVAS



SRI KRISHNA COLLEGE OF TECHNOLOGY
[An Autonomous Institution | Affiliated to Anna University and Approved by AICTE | Accredited by NAAC - UGC]
KOVAIPUDUR, COIMBATORE - 641042.

DEPARTMENT OF CIVIL ENGINEERING

INSTITUTION'S INNOVATION COUNCIL
(Member of IISc Bangalore)

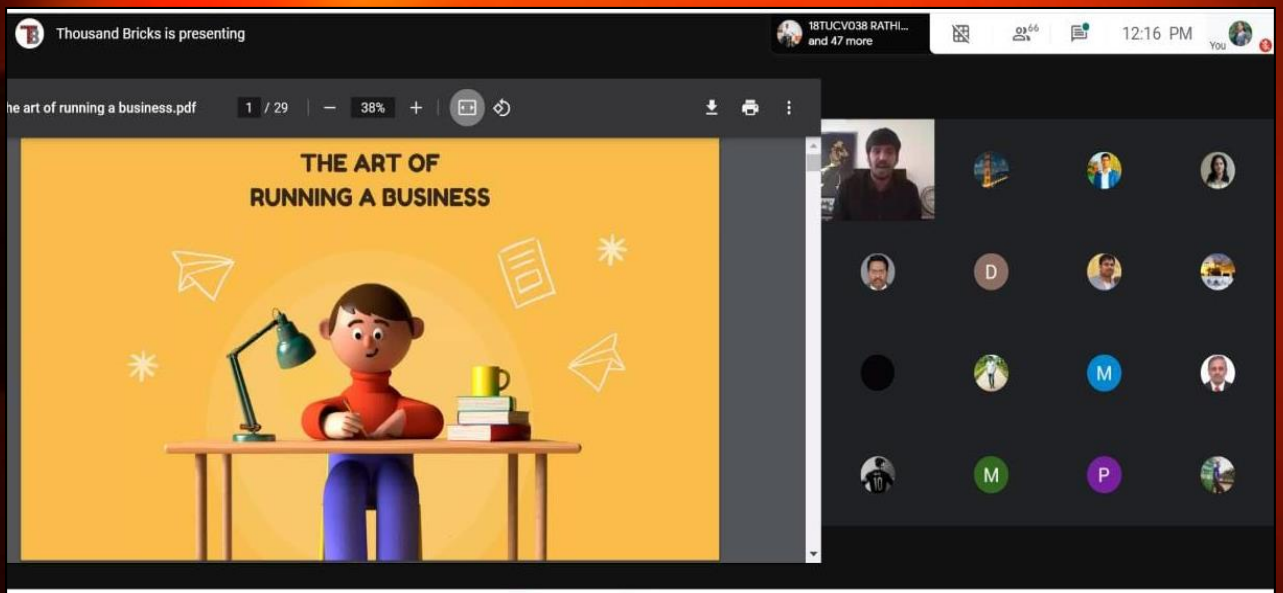
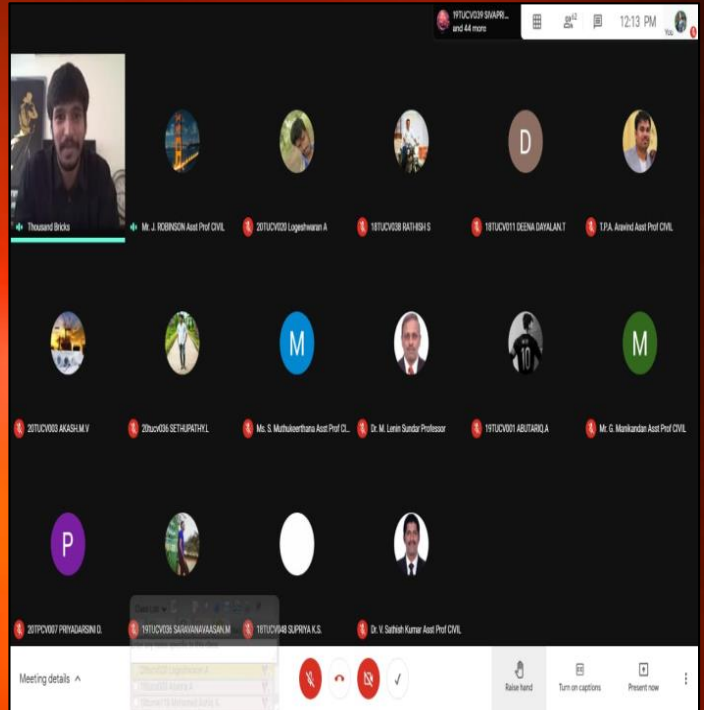
Cordially invites you for the workshop on **Business Model Canvas (BMC)**

Resource Person




Er. JERALD SUSHIL
Alumni 2010 - 14 Batch (B.E - CIVIL)
Managing Director
THOUSAND BRICKS
Coimbatore

DATE
19.03.2021
TIME
12 PM - 01 PM




The Dept. of Civil Engineering organised a virtual workshop on **“Business Canvas Model”** for the Students of Second and Third B.E. Civil Engineerig, facilitated by Mr Jerald Sushil, Managing Director, Thousand Bricks on 16 March 2021.

ECE | WEBINAR ORGANISED | WEBINAR ON INNOVATIONS IN VLSI PHYSICAL DESIGN




SRI KRISHNA COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY)
ROYALPUDEUR, COIMBATORE - 642 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
(ACCREDITED BY NBA)
&
INSTITUTION'S INNOVATION COUNCIL(IIC)



JOINTLY ORGANIZING AN INTERACTIVE SESSION ON
INNOVATIONS IN VLSI PHYSICAL DESIGN



RESOURCE PERSON
Mr. Dilip Kumar S,
Senior Engineer,
Samsung Semiconductor India Research and
Development Centre,
Bangalore.

DATE: 19.03.2021 TIME: 04.30 PM - 06.00 PM PLATFORM: Google Meet

<p>PRINCIPAL Dr. Srinivasan Alavandar</p>	<p>HEAD OF THE DEPARTMENT Dr. G.M. Tamilselvan</p>
<p>STAFF COORDINATORS Ms. N. Vijayalakshmi Ms. M. Jaishree</p>	

Contd...

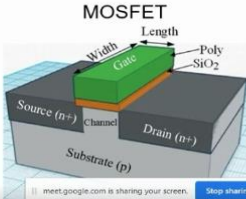
Back-end Design

Back-end mainly deals with physical design part of the chip which includes Floorplan, Map, Place and route and DFT and ATPG scan insertion and checks for the flip flops. Also includes physical part of the chip, memory characterization, analog layout and design.

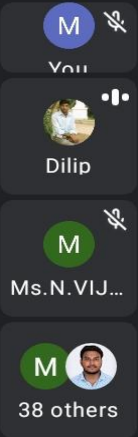
REC

VLSI Technology

- A technology node is denoted by channel Length of transistors and the process node used by a foundry relates to the number of transistors that fit inside a specified space, such as a square mm. For example, the transistor density of the chips currently produced using the 7nm process (such as Apple's A13 Bionic, Qualcomm's Snapdragon 865 Mobile Platform, and Huawei's Kirin 990 5G chipset) is approximately 100 million transistors per square mm



MOSFET



The Dept. of ECE in association with IIC organised a webinar on "Innovations in VLSI Physical Design" facilitated by Mr Dilip Kumar S, Senior Engineer, Samsung Semiconductor India Research and Development Centre, Bangalore. Ms N Vijayalakshmi and Ms M Jai Shree, Asst. Professors, Dept. of ECE, coordinated the event on 19 March 2021.

CSE | WEBINAR ON FLAGSHIP PROGRAMS - INFYTQ CERTIFICATION & HACKWITHINFY

Sri Krishna College of Technology
An Autonomous Institution
Affiliated to Anna University, Chennai
Kovalapudur, Coimbatore - 641 042

Department of Computer Science and Engineering
(Accredited by NBA)

CSI Student Chapter
&
Institution's Innovation Council

Cordially invite you for the Webinar on
Flagship programs
InfyTQ Certification & HackwithInfy

Resource Person

Mr. PRANESH KUMAR M.
CSE ALUMNUS
System Engineer Specialist
Infosys, Chennai.

13.03.2021 <https://meet.google.com/vsi-zvwh-hzf>

Participants in Zoom meeting:
Thinking Beyond
18TUCS254 VISHU P
18TUCS254 TAMIL KANL
20TUCS254 YAGUA E
Mithun Raaj 18TUCS199
Ms. A. Suritha Nandhini...
Ms. G. Sandhya, Asst. Prof. CSE
18TUCS16 AJIUN KUMAR R
Ms. P. Divya Asst Prof C...
18TUCS14 KRETHNOK KRISHNA.BR
18TUCS225 SIVA ILAKKIA P
18TUCS031 DharaKharan S

Zoom Meeting: Thinking Beyond is presenting

Zoom Meeting: Thinking Beyond

Zoom Meeting: #HackWithInfy

Zoom Meeting: Thinking Beyond

WhatsApp Group: Thinking Beyond

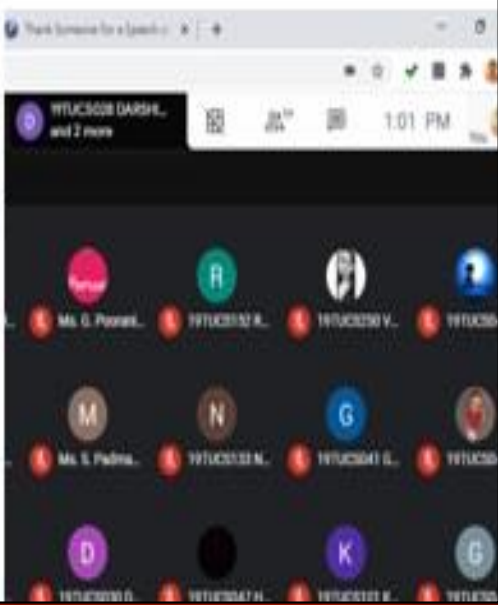
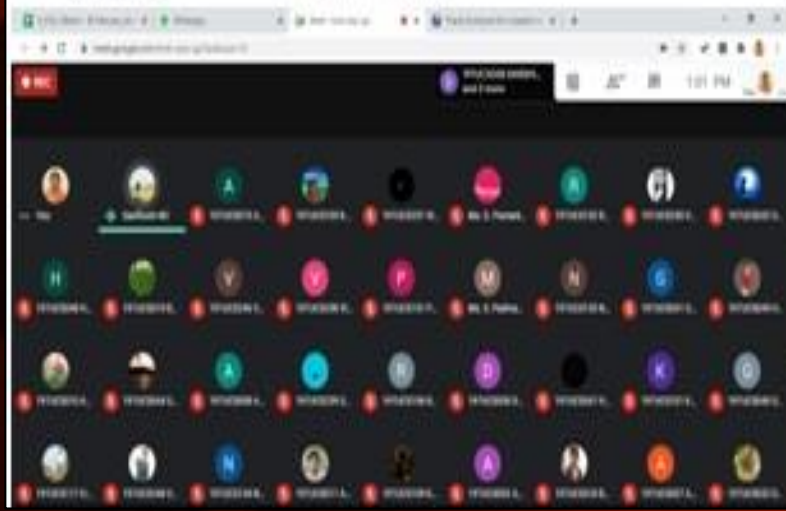
The Dept. of CSE in association with Institution's Innovation Council organised a Webinar on **“Flagship programs - InfyTQ Certification & HackwithInfy”** facilitated by Mr M Pranesh Kumar, System Engineer Specialist, Infosys, Chennai on 13 March 2021.

CSE | WEBINAR ON JENKINS



Agenda

- ▶ Jenkins - Introduction
- ▶ Jenkins - UI (Demo)
- ▶ Jenkins - Pipeline (Demo)
- ▶ Extending Jenkins
- ▶ Learning Resources
- ▶ Q/A Session



The Dept. of CSE in association with Institution's Innovation Council organised a webinar on “**Jenkins**” facilitated by Mr N C Santhosh, Senior Project Engineer, WIPRO Technologies, Coimbatore on 13 March 2021.

EEE | PROGRAM ORGANISED | WEBINAR ON ACCELERATORS AND INCUBATORS FOR EARLY STAGE ENTREPRENEURS

SRI KRISHNA COLLEGE OF TECHNOLOGY
AUTONOMOUS INSTITUTION | ACCREDITED BY NAAC WITH 'A' GRADE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Accredited by NBA
INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Organizes a webinar on
Process Design & Prototype Development

Chief Guest

Mr.G.Harish
(Senior Software Developer , CTS, Coimbatore)

Time 12.30 to 1.30 pm

Date 13.03.2021

Convener
Dr.K.Lakshmi
Professor & Head
Dept of EEE

Coordinator(s)
1.Mr.T.Bharani Prakash
2.Mr.P.Lenin Pugalthanthi
3.Dr.R.Senthil Kumar

Google Meet
<https://meet.google.com/hzq-zhtt-dce>

SRI KRISHNA COLLEGE OF TECHNOLOGY
AUTONOMOUS INSTITUTION | ACCREDITED BY NAAC WITH 'A' GRADE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Accredited by NBA
INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Organizes a webinar on
Design & Prototype Development

Chief Guest

Mr.G.Harish
Software Developer, CTS, Coimbatore)

Google Meet
<https://meet.google.com/hzq-zhtt-dce>

Coordinator(s)
1.Mr.T.Bharani Prakash
2.Mr.P.Lenin Pugalthanthi
3.Dr.R.Senthil Kumar

PROCESS STRUCTURE

Web-development process typically consists of several activities to complete the process of delivering new products to the market. The process management approach is used to provide a structured development cycle and manage risk through the engineering process, particularly if the new product being developed involves the physical world (e.g., a new product with physical components). It helps in managing complex engineering processes by highly experienced product or process managers, making the process and the deliverables, complete, transparent, measurable, and visible and adaptable. This process typically use model product team approach. The process for managing engineering product is much closer (often 10-15 days) compared to other types of software products.

The Dept. of EEE organised a webinar on “**Process Design & Prototype Development**” facilitated by Mr G Harish, Senior Software Developer, CTS, Coimbatore and Dr K Lakshmi, Professor and Head, Dept. of EEE on 13 March 2021.

EEE | E- PROJECT EXPO



Sri Krishna College of Technology

(An Autonomous Institution)

Affiliated to Anna University, Chennai | Accredited by NAAC with 'A' Grade
KOVAIPODUR, COIMBATORE - 641042



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
Institution's Innovation Council

CORDIALLY INVITES YOU

E - PROJECT EXPO 2021

Presided by

Dr.Srinivasan Alavandar,
Principal.

Felicitated by

Dr.K.Lakshmi,
Professor and Head,
Department of EEE.

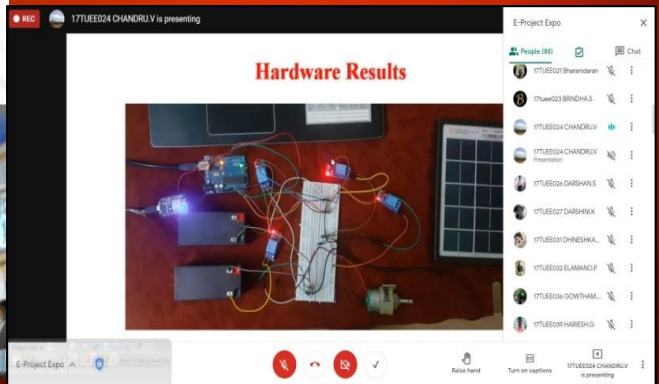
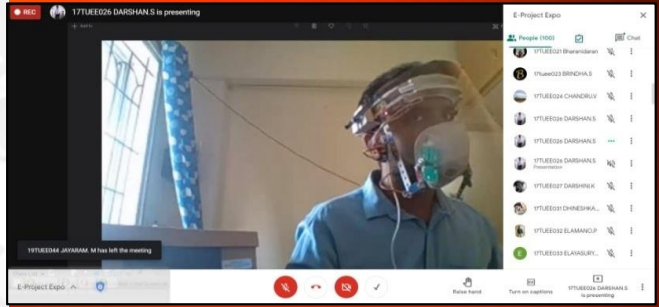
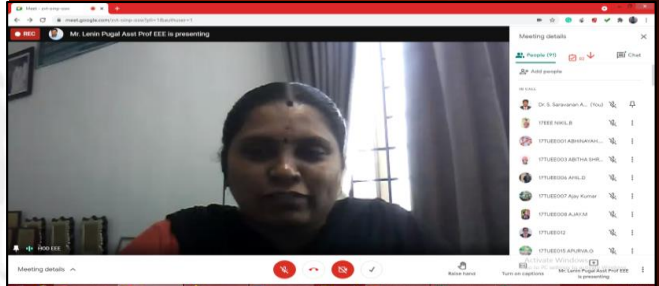
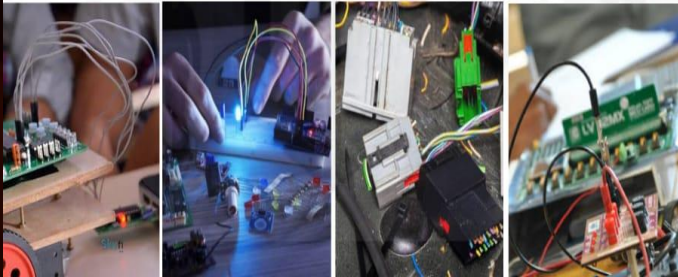
17 19.03.2021



12PM - 2PM

Co-Ordinators:

Mr.P.Lenin Pugal,Dr.R.Senthil Kumar,Dr.S.Saravanan,
Assistant Professor, Department of EEE.



Dr K Lakshmi, Professor and Head, Dr S Saravanan, Mr R Senthilkumar and Mr P Leninpugalhanthi, Asst. Professors and Final Year Project Coordinators, Dept. of EEE, organised an “E- Project Expo” on 19 March 2021.

CLUB ACTIVITIES



@skctdigest

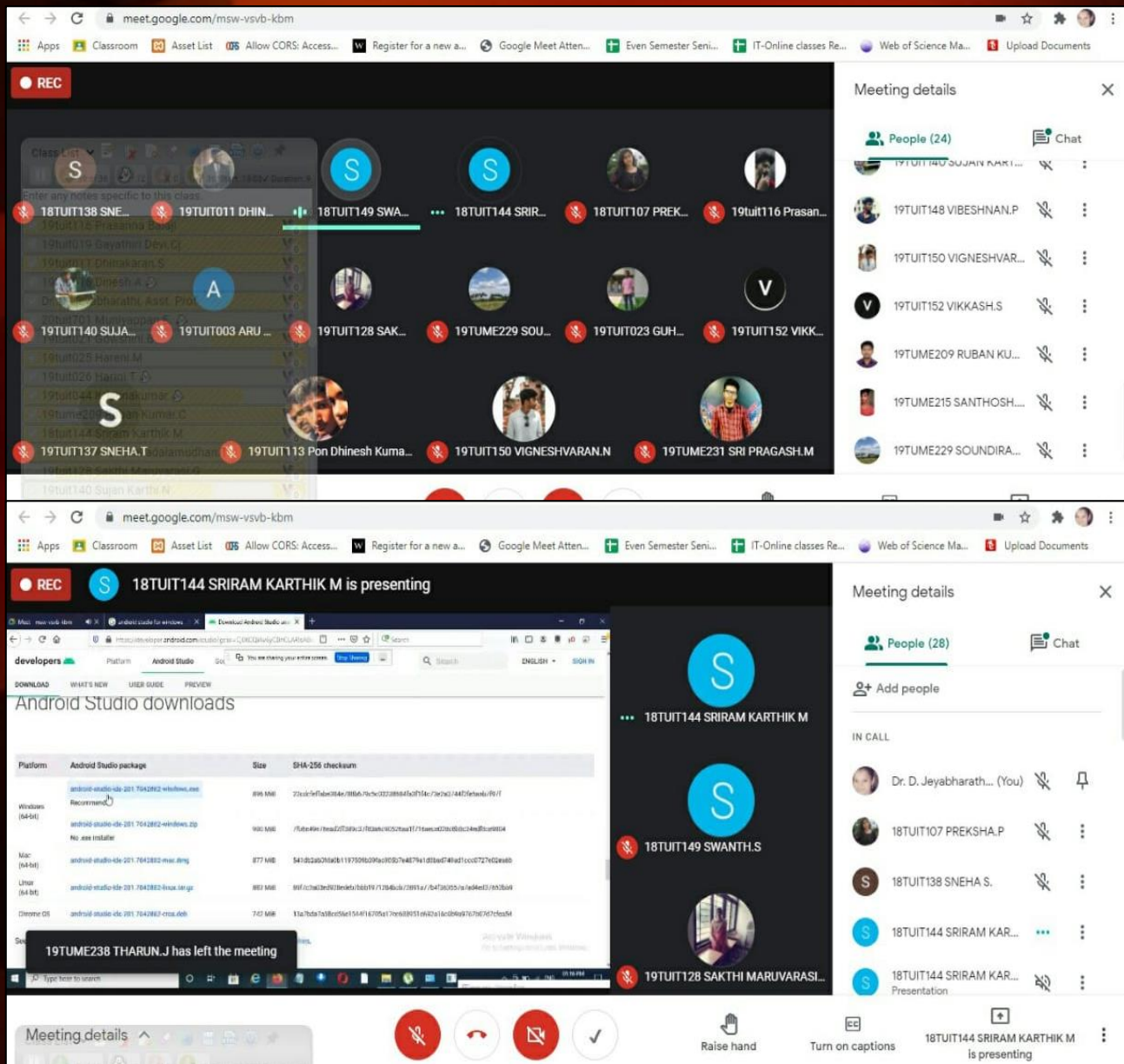


@skctofficial



digestfeedback@skct.edu.in

IT | MOBILE APPLICATION CLUB | DAY 1



Mobile App Club of Dept. of IT organised a webinar on “Introduction to Mobile App” facilitated by Mr Sriram Karthick and Mr S Swanth, Students of Third B.Tech. IT B section. Dr D Jeyabharathi and Ms S Madumidha, Asst. Professors, Dept. of IT, coordinated the event on 13 March 2021.



**BY ASHOKRAJA,
STUDENT OF II MBA**



**World
Sparrow
Day**

20 March

It's their world too!

*Spread awareness to Save
our little friends before
it's too late*

