



# e - Academia – Special Edition II

14<sup>th</sup> April - 18<sup>th</sup> April 2020



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## INSIDE THIS ISSUE

• INSTITUTIONAL PLENUM	: Pg No 4
• PRINCIPAL MAM- SAMADHAN MENTOR	: Pg No 5
• HACKATHON PARTICIPATION	: Pg No 6 -10
• IIC LEADERSHIP TALK SERIES	: Pg No 11-19
• ONLINE VIRTUAL CLASSROOMS	: Pg No 20 - 41
• WEBINARS ON COMPUTING TECHNOLOGIES	: Pg No 42 - 59
• DEPARTMENT MEETINGS	: Pg No 60 - 68
• WEBINARS ON CORE ENGINEERING	: Pg No 69 - 98
• PROJECT BASED LEARNING	: Pg No 99 - 102
• RESEARCH & DEVELOPMENT	: Pg No 103 -112
• WEBINARS ON LIFE SKILLS	: Pg No 113-127
• TUTOR WARD MEETINGS	: Pg No 128 - 135
• NPTEL SPECIAL LECTURES	: Pg No 136 - 141
• WORD OF THE WEEK	: Pg No 142
• ICT SKYCAMPUS WEBINARS	: Pg No 143 - 153
• MYGOV PLEDGES	: Pg No 155 - 156
• SHORT TERM COURSE/FDP	: Pg No 157 - 171
• STUDENT PROGRESSION	: Pg No 172 - 175
• FEEDBACK	: Pg No 177
• FACULTY CERTIFICATION	: Pg No 178 - 183
• DIGITAL LIBRARY	: Pg No 184
• ART MERAKI	: Pg No 154,176,185
• INTERNATIONAL DAY THIS WEEK	: Pg No 186
• SKCET IN MEDIA	: Pg No 187-188
• UPCOMING EVENTS	: Pg No 189- 191
• CONTEST OF THE WEEK	: Pg No 192



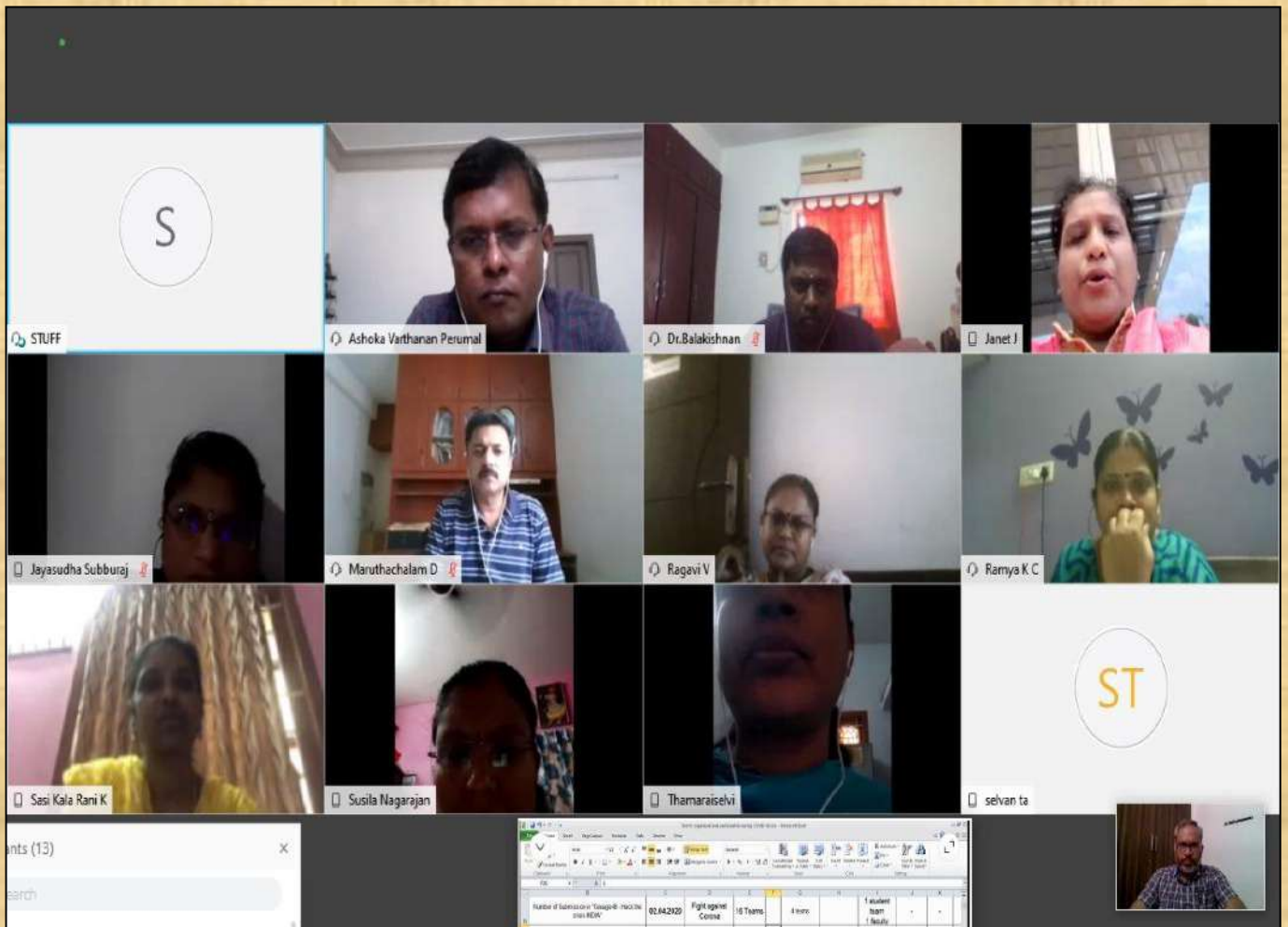


# INSTITUTIONAL PLENUM



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## INSTITUTIONAL PLENUM



The **HoDs meeting** was convened on **17.04.2020** at **10.30am** by **Principal Madam**. The following points were discussed during the meeting:

- Accomplishment of tasks during the Covid lock down period
- Research publication and proposals status
- Technologies developed towards the pandemic situation
- Syllabus Revamping status
- Preparations towards the next semester
- Activities planned towards engaging the students for the rest of the lockdown period.
- Participation in online quiz, webinars and other activities by IIC.



## PRINCIPAL MADAM –NATIONAL LEVEL MENTOR OF THE MHRD-AICTE MEGA "SAMADHAN"



### DESIGN-SIMULATE- DEVELOP' MODE IS ON@ SKCET IN AICTE SAMADHAN CHALLENGE-ROUND 1

- **Principal Madam** is a part of **Mentor panel** in 'Soft Computing and Knowledge based systems' track in the Mega Online Challenge. Various teams amongst 200 participants is being mentored today to submit their improved concept videos.
- Our **Nifty Nine Teams- Six Student Teams** ( CSE-1, CSBS-2, EEE- 2, ECE-1) and **Three Faculty teams** are also currently engaging their innovative product development skills in the Round 1 through SLACK platform.



# MYGOV CHALLENGE CONTESTS



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## SIH 2020 SHORTLISTED TEAMS

**Fab Four Teams of SKCET kickstart their innovation journey to mark their way toward SIH 2020 Winners leaderboard!**

SKCET is all set to cheer the **4 shortlisted teams** in the Software and Hardware edition of **SIH 2020** as their innovative solutions are selected **amongst 57,000+ ideas** across the nation. Smart India Hackathon 2020 involves 2 Lakh+ students from 2200+ institutions against 530+ problem statements provided by 120+ organizations from across India.

**Hearty congratulations to the shortlisted teams!**

### SIH 2020-Software Edition

**Team1:** Stuxnoid

**Ministry:** Bureau of Police research and development.

**Problem statement:** RK310- Criminal/ suspect profile generator using OSINT techniques.

**Mentor:** Dr.K.N.Sivabalan Prof/ IT

**Nodal centre:** Central Academy for police Training, Madhya Pradesh.

**Team 2:** Zero buggers

**Ministry:** Directorate of Technical education, Chandigarh

**Problem statement:** SS134- Tracking and control of inmates inside the jail.

**Mentor:** Dr.S.Balakrishnan HOD/ CSBS

**Nodal centre:** Institute of Engineering and Technology, Ayodhya.

### SIH 2020-Hardware Edition

**Team 3:** Cache\_fort

**Ministry:** Department of Science and Technology

**Problem statement:** Video conferencing- Eye to eye contact- mobile app.

**Mentor:** Ms. A.Priya AP/ CSE.

**Team 4:** Next Gen

**Ministry:** Ministry of Ayush

**Problem statement:** Virtual reality for yoga asana, meditation.

**Mentor:** N.Ramachandran AP/ MECH



## AICTE SAMADHAN - SHORTLISTED TEAMS

Student and faculty teams of SKCET have been shortlisted for the **First round of Samadhan Track 1**- a mega online challenge organised by **MHRD and AICTE** in collaboration with Forge and InnovatioCuris to test the ability of students and Educators to innovate.

**Hearty congratulations to the shortlisted teams!**

### SAMADHAN STUDENT TEAMS

#### Team 1

**Title:** Smart Communication between doctors and people along with health monitoring fitbit.

**Team Members:** Shameer.B, Sukumar.E, Preethi.S, Rahul V M

**Team Mentor:** Mr.M.Manikandan, Assistant Professor, CSE

**Department:** CSE

#### Team 2:

**Title:** Stock cast by Cache Fort

**Team Members:** Siva Sanjay Rahul. M, Sandhya, Jegan Prakash, Sanjeeve, Parvathy Nathan.

**Team Mentor:** Mrs. A. Priya, Assistant Professor, CSE

**Department:** CSBS

#### Team 3

**Title:** Co- Heal Heal It! Deal It!

**Team Members:** Siva Shankar, Nishit, Imron Khan, Bhavik Kumar. N

**Team Mentor:** Dr. S. Balakrishnan, HoD, CSBS

**Department:** CSBS

#### Team 4

**Title:** Arogya Rove

**Team Members:** Sanjeeve R, Sneha B S, Sneka P, Thaqib K, Vignesh R S, Vignesh S

**Team Mentor:** Mr. S. Boobalan, Assistant Professor, EEE

**Department:** EEE



## SAMADHAN SHORTLISTED TEAMS

### Team 5

**Title:** Ozone Gas Production for Corona Virus Treatment

**Team Members:** Nandhini K, Krishna J , Mahesh Kanna C V, Nithish Kumar, Mohana sundaram R.

**Team Mentor:** Mr. T.Kesavan, Assistant Professor, EEE

**Department:** EEE

### Team 6

**Title:** Travelona app

**Team Members:** Dharsheeni.R, Dharaniga.M, Dhanushmathi.S.K, Gokuldhara, Gokulraj, Ajay.R, Citrarasu.

**Team Mentor:** Ms. G. Saranya, Assistant Professor, ECE

**Department:** ECE



## SAMADHAN FACULTY TEAMS

### Team 1

**Title:** BOB - Break the Outbreak

**Team Members:** Ms.V.R.Azhaguramyaa, Dr.D.Prabha, Ms.J.Fenila Naomi

**Department:** CSE

### Team 2

**Title:** Automated Systems for Surgical Gloves Removing and Reducing

**Team Members:** Dr.S.Sophia, Dr. V.R. Balaji, Mr. J. R. Dinesh Kumar, Ms. K. Priya Dharshini.

**Department:** ECE

### Team 3

**Title:** Let's Fly From Flu

**Team Members:** Dr. B. Maruthi Shankar, Mr. R. Sarath kumar, Mr. C. Visvesan, Mr. Arun Kumar(Final year student)

**Department:** ECE

# IT –HACK THE CRISIS PARTICIPATION

R.Aripurasath, V.Ashwin, Ashwinbiju, A.S. Dhanush students of III year IT A and Mr.K.Nagendran, Assistant Professor, Department of Information Technology participated and completed 3 checkpoints in Garage 48- Online Hackathon in association with Ministry of Electronics and Information Technology, India. The Project idea has been selected as top 300 among 2500 ideas submitted.





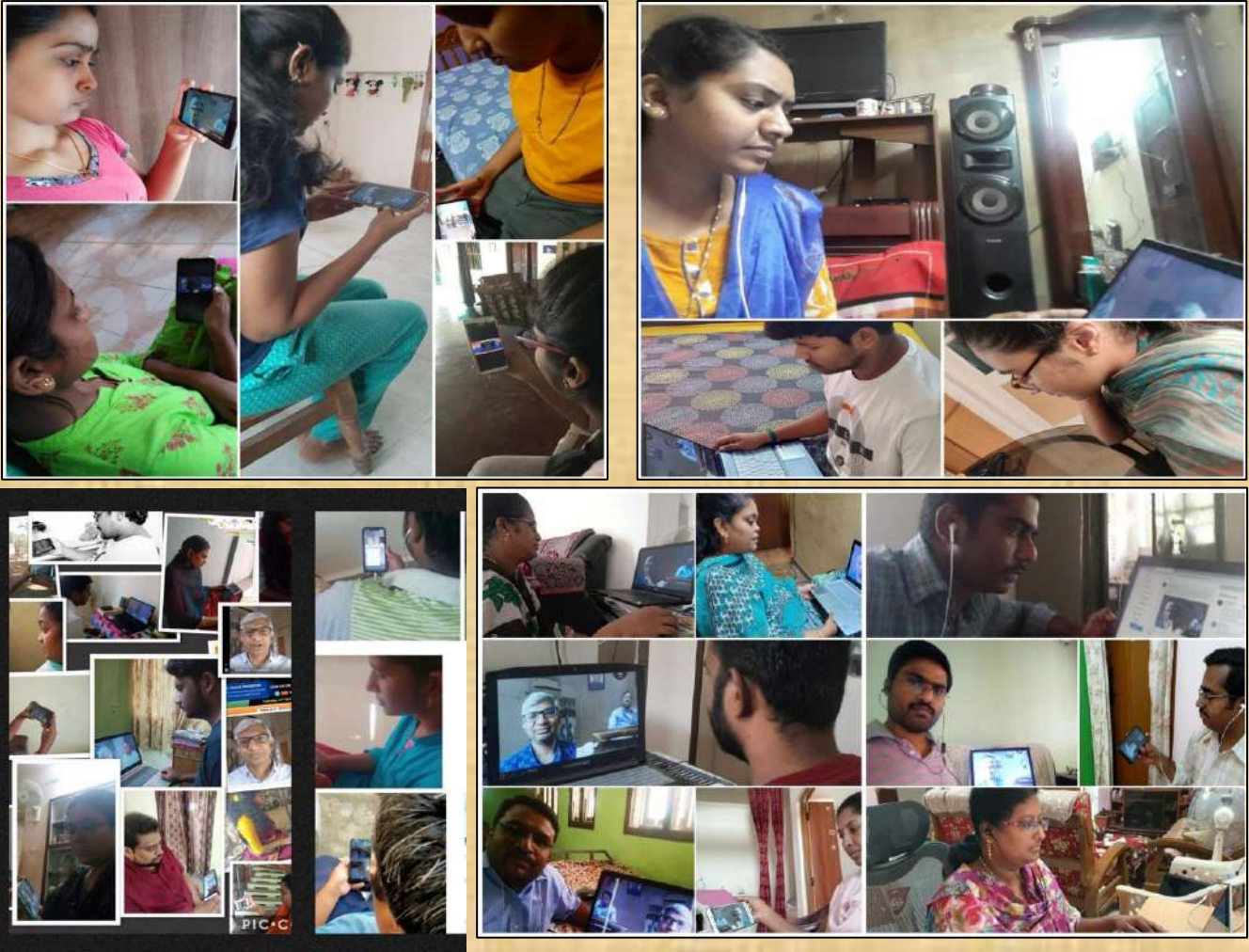


# IIC LEADERSHIP TALK SERIES



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## IIC LEADERSHIP TALK SERIES #1



### Leadership Talk Series with Padma Bhushan Dr. VK Saraswat, Member, NitiAayog.

Institution's Innovation Council of SKCET organized a webinar on 'Leadership Talk, with **Padma Bhushan Dr. VK Saraswat**, Member, NitiAayog and Ex – Chief Scientific Advisor, Ministry of Defence, Government of India on **14.04.2020**. The efforts taken by the government of India to control the Pandemic, the challenges met by the government to provide ventilators and mask to the hospitals were some of the topics discussed. The event was coordinated by Department of Mechanical Engineering.



# IIC LEADERSHIP TALK SERIES #1 GLIMPSES





## IIC LEADERSHIP TALK SERIES #2

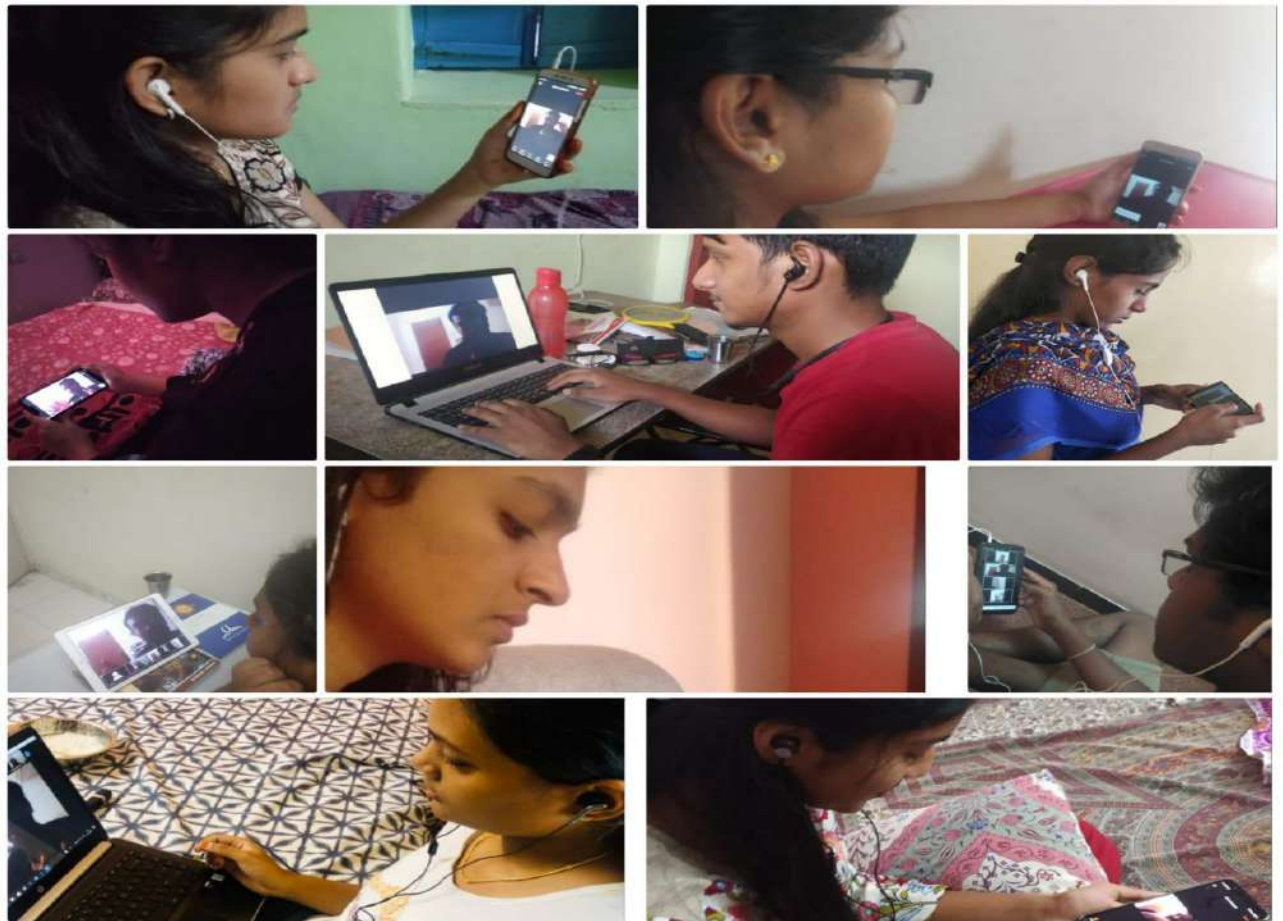


### Leadership Talk Series with Dr. Anand Deshpande, Founder, Chairman & Managing Director – Persistent System Ltd.,

Institution's Innovation Council of SKCET organized a webinar on "Leadership Talk" with **Dr. Anand Deshpande**, Founder, Chairman & Managing Director – Persistent System Ltd on **15.04.2020**. IIC Students and faculty members watched the webinar. The discussion was on the opportunities available to the students after the pandemic and the forecasted change in the global supply chain management.



# IIC LEADERSHIP TALK SERIES #2 GLIMPSES





## IIC LEADERSHIP TALK SERIES #3



### Leadership Talk Series with Dr. VinaySahasrabuddhe, President/Indian Council for Cultural Relations

Institution's Innovation Council of SKCET organized a webinar on "Leadership Talk" with **Dr. VinaySahasrabuddhe**, President, Indian Council for Cultural Relations on **16.04.2020**. IIC Students and faculty members watched the webinar. In his speech, he discussed about the efforts taken by the Government of India to help the labourers starving in the streets due to lockdown through the platform called I-Care.



# IIC LEADERSHIP TALK SERIES #3 GLIMPSES





## IIC LEADERSHIP TALK SERIES #4



### Leadership Talk Series with Mr. Ronnie Screwvala, Chairman/UpGrad and Founder UTV

Institution's Innovation Council of SKCET organized a webinar on "Leadership Talk" with **Mr. Ronnie Screwvala**, Chairman/UpGrad and Founder/UTV on **17<sup>th</sup> April 2020**. IIC Students and faculty members of Sri Krishna College of Engineering and Technology watched the webinar from their home. The talk was about how youngsters come out of awkward situations like COVID – 19. He motivated students to recalibrate themselves for next one year to come out of the crisis. He also discussed about the opportunities that young entrepreneurs are going to have post COVID crisis.



# IIC LEADERSHIP TALK SERIES #4 GLIMPSES







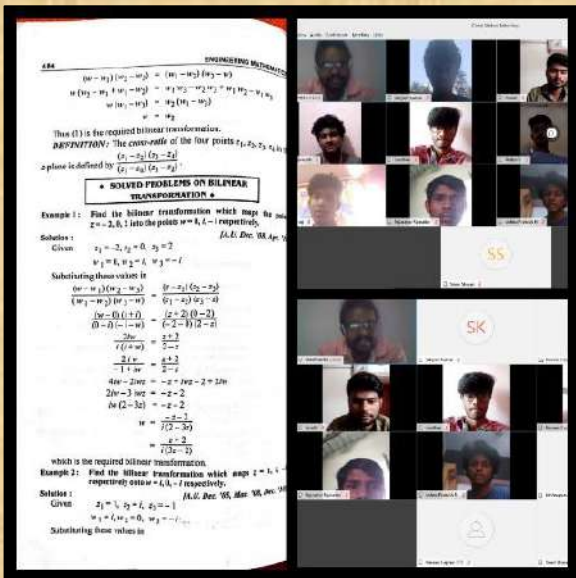
# ONLINE VIRTUAL CLASSROOMS



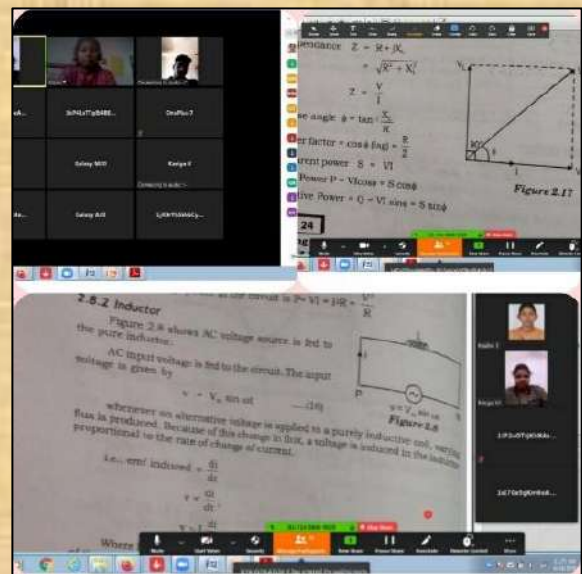
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# S & H - SPECIAL COACHING CLASS

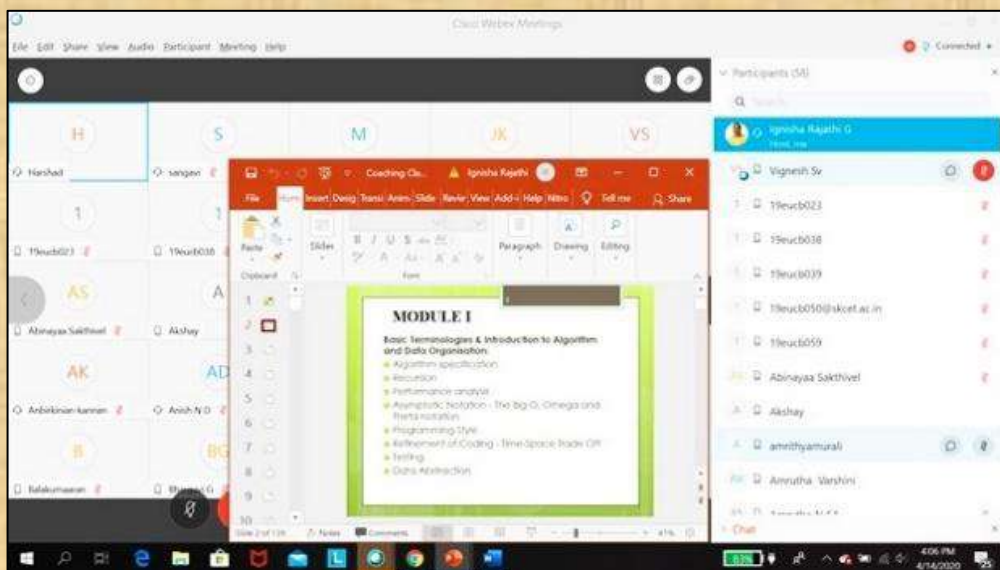
The Department of **Science and Humanities** scheduled a Special Coaching Class for the **First year BE/B.Tech and M.Tech** students to provide supportive growth in academics.



ICCV



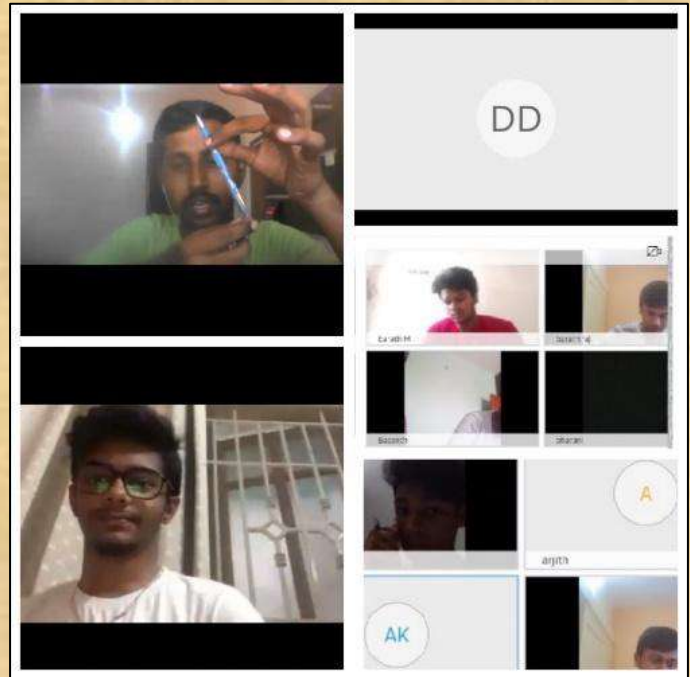
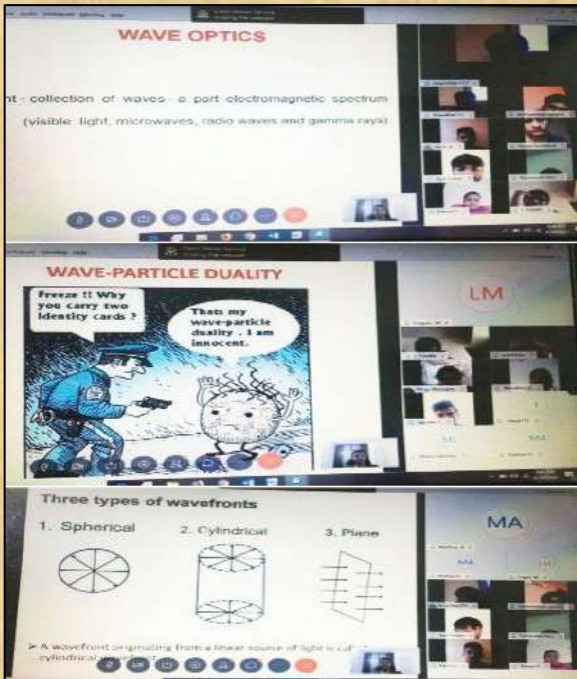
BEEE



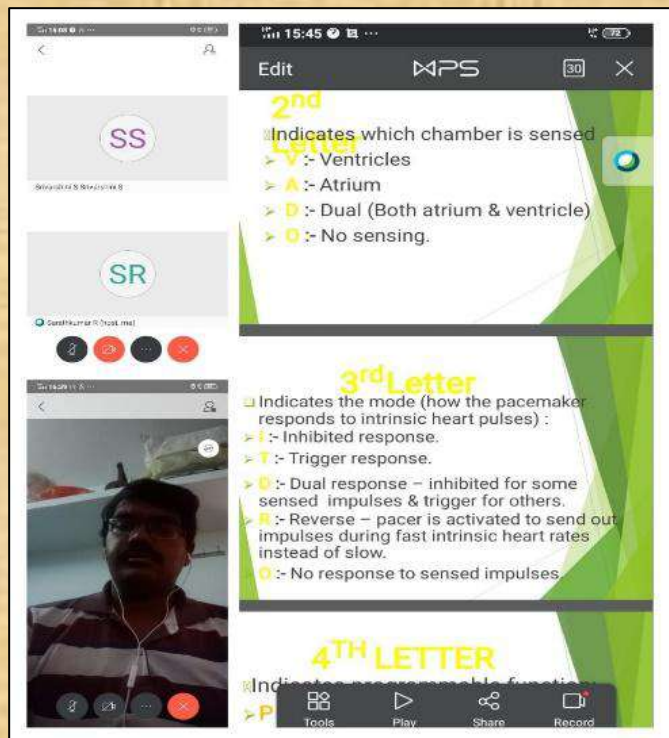
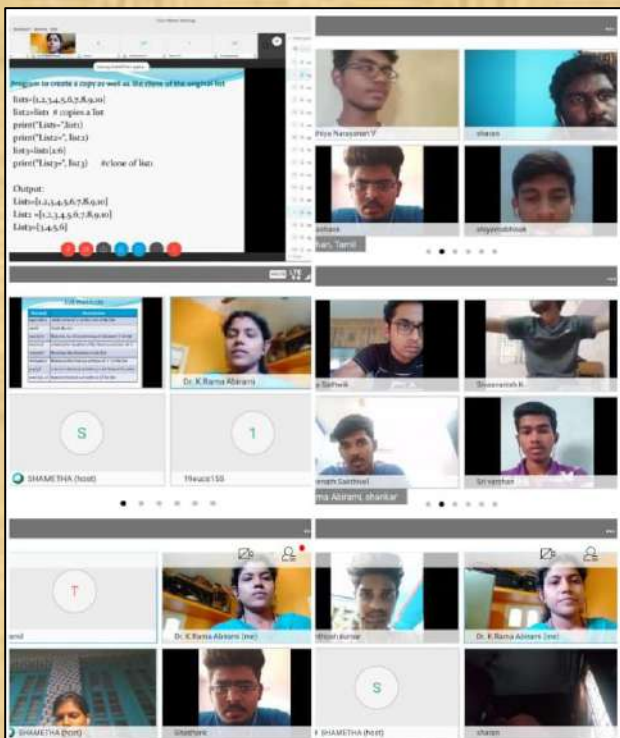
Linear Algebra & Data Structures



## S & H - SPECIAL COACHING CLASS



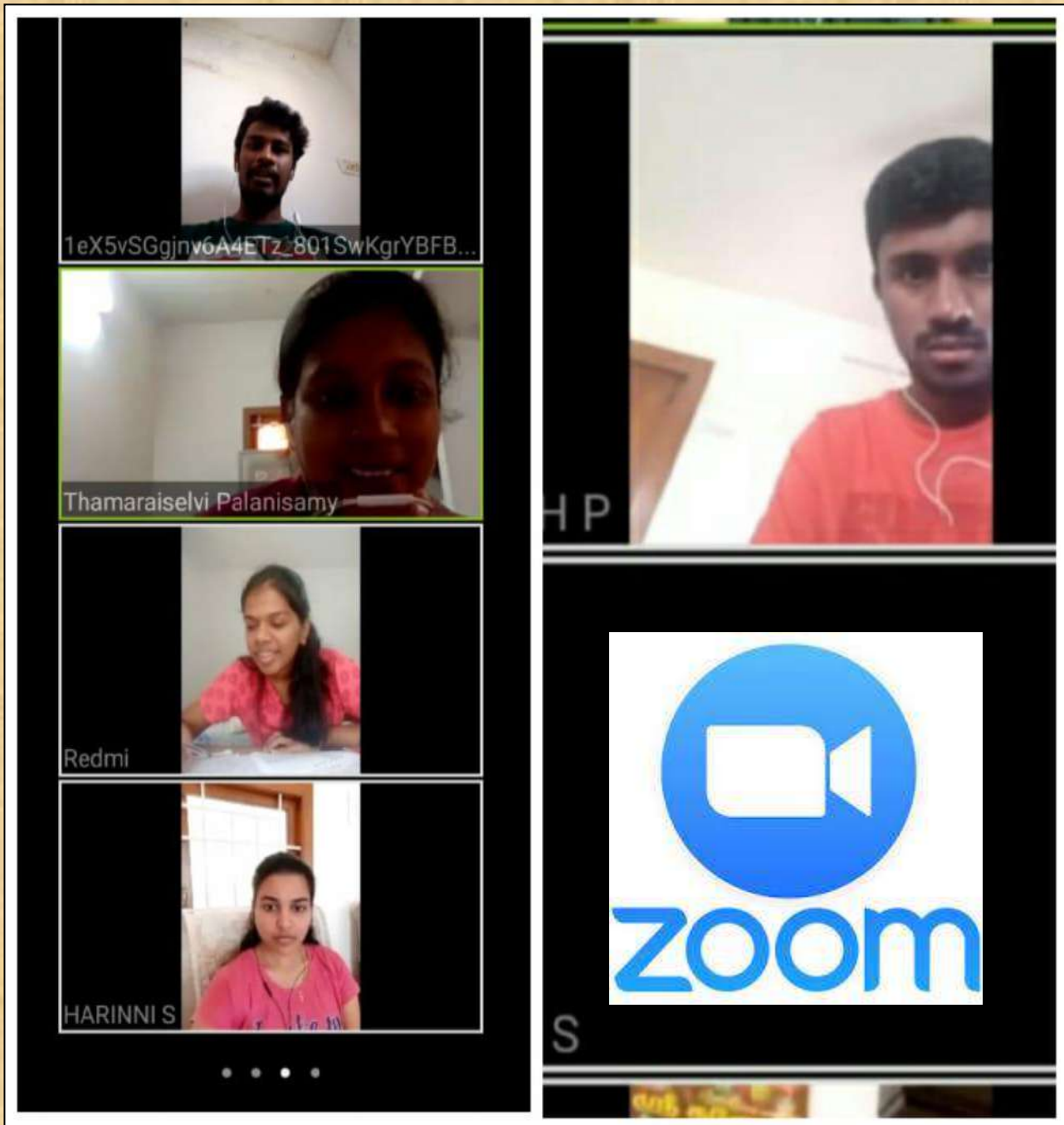
### ENGINEERING PHYSICS



### Python Programming Engineering Biology

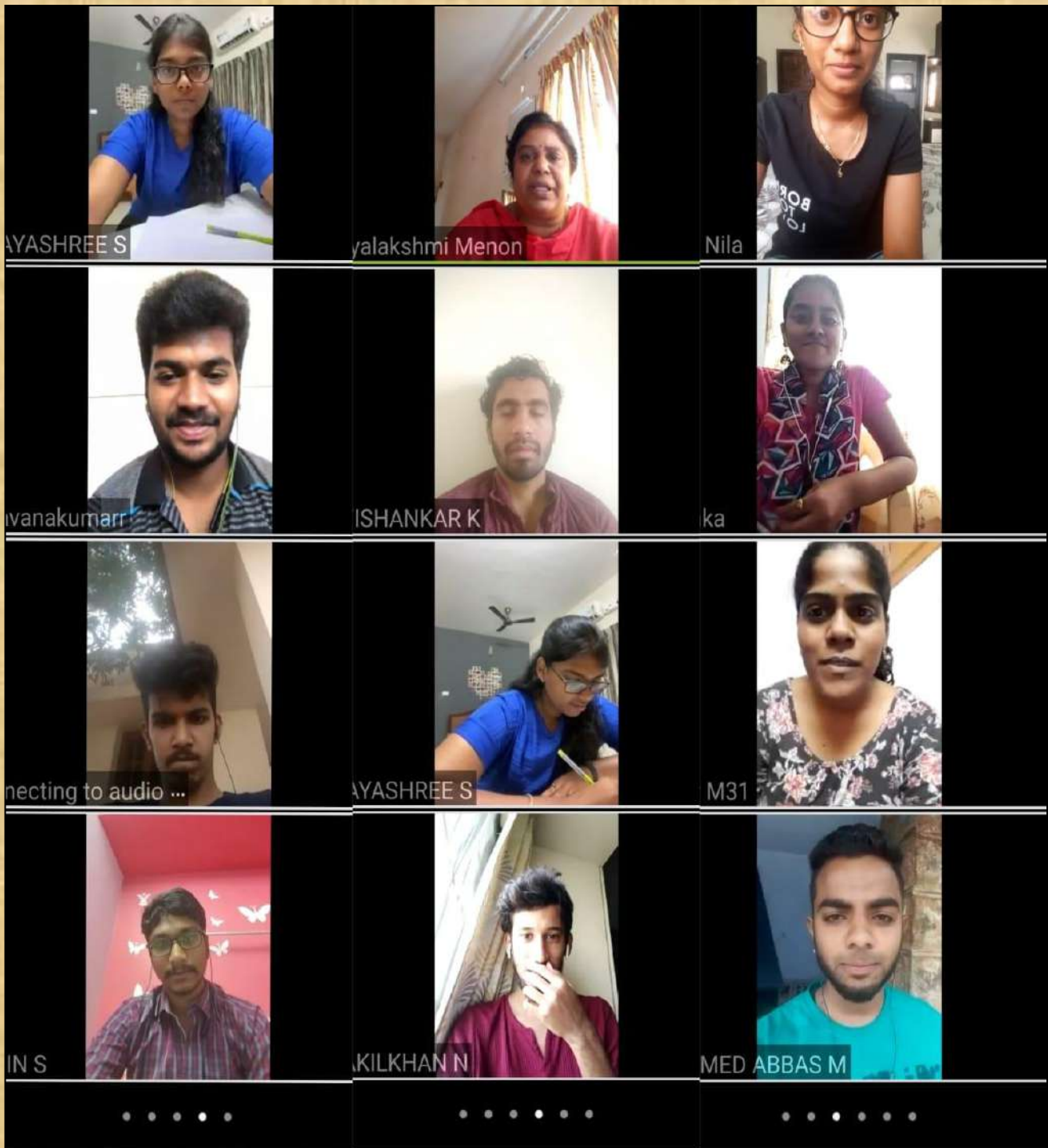


**SOM - ONLINE LECTURE SERIES – IMC : MARKETING ELECTIVE**



**Dr.P.Thamaraiselvi**, HoD, School of Management conducted online regular class series for **Integrated Marketing Communication** on the topic **'Measuring effectiveness of Campaigning through analytics'** on 13.04.2020.

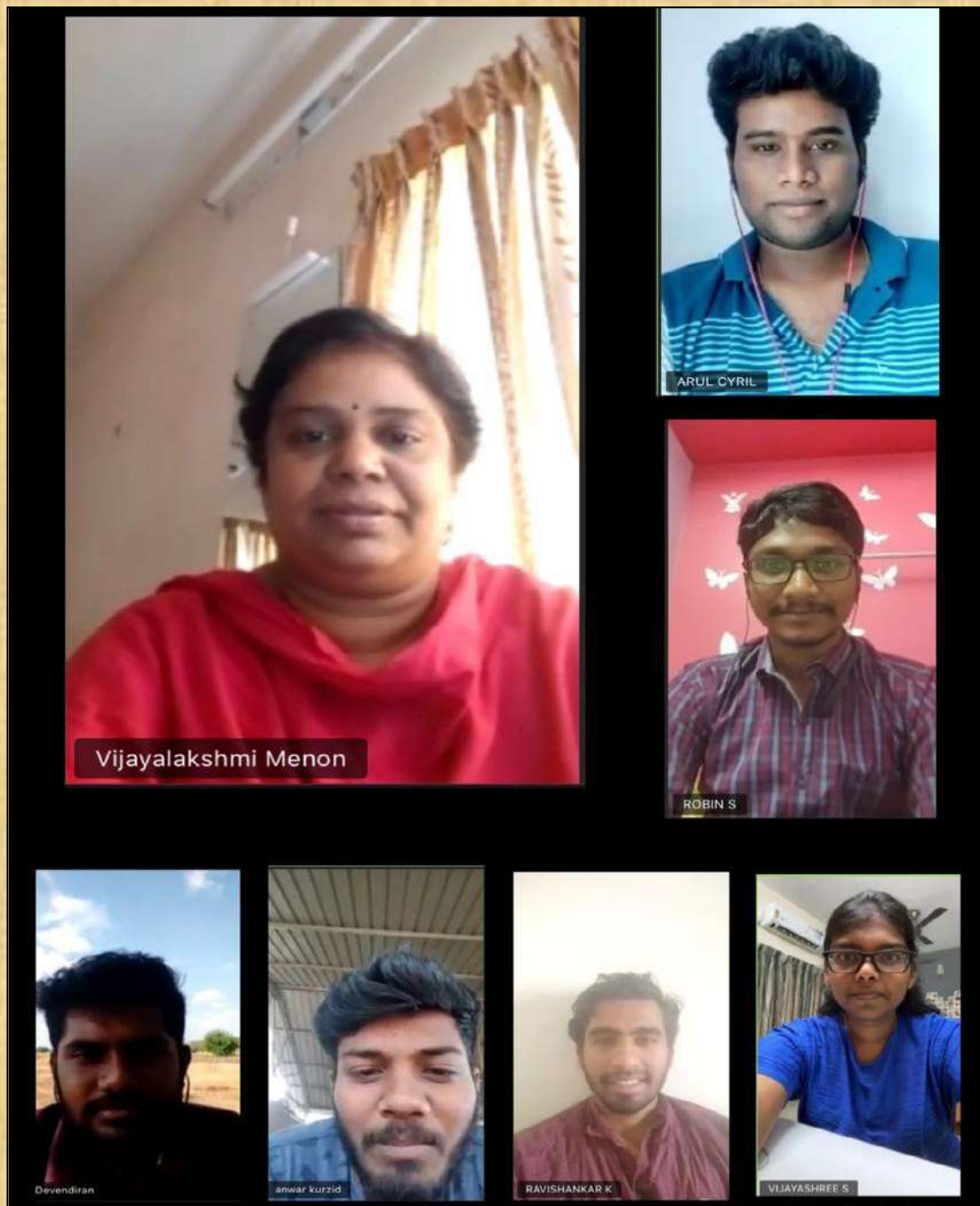
## SOM - ONLINE LECTURE SERIES – RETAIL MANAGEMENT



**Dr.P.Vijayalakshmi Menon**, Assistant Professor, School of Management conducted online class for **Retail Management and Business Plan Development** students through Zoom App on 13.04.2020.

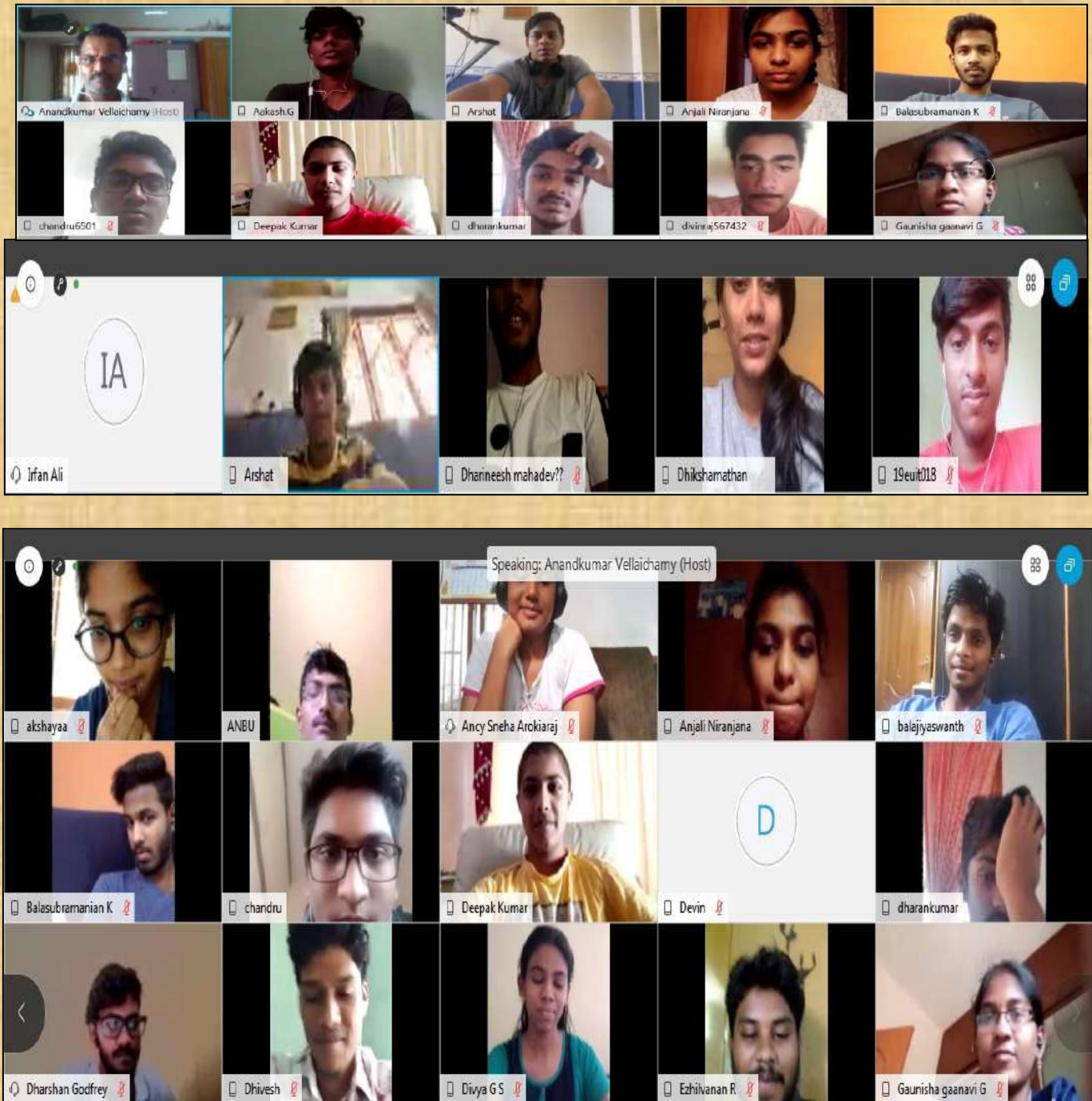


**SOM - ONLINE LECTURE SERIES – BUSINESS PLAN DEVELOPMENT**



**Dr.P.Vijayalakshmi Menon**, School of Management has conducted online interactive session for I year MBA students on the topic '**Business Plan Development**' through Zoom App on 15.04.2020.

## IT - ONLINE CLASSES - DS



**Dr.V.Anand Kumar**, Professor, Department of Information Technology, conducted a coaching class on the topic “User Defined Data Types” for I IT A on 15.04.2020 and “Structures and Unions” on 16.04.2020.



# MCT - ONLINE CLASSES - EEDC

Handwritten circuit diagram and calculations:

- $R_1 = 2\Omega$ ,  $R_2 = 2\Omega$ ,  $R_3 = 2\Omega$ ,  $R_4 = 2\Omega$ ,  $R_5 = 1\Omega$ ,  $R_6 = 1\Omega$
- $R_{10} = R_2 + R_3 = 2 + 2 = 4$
- $R_{11} = R_5 + R_4 = 1 + 2 = 3$

**Ms. S. NithyaPriya**, Assistant Professor, Department of MCT conducted special class for I Year MCT A section students on the topic **Calculation of Equivalent resistance and Node analysis** from Electrical and Electronic Devices course on 16.04.2020.

Handwritten text and circuit diagram for KVL analysis:

KVL states that algebraic sum of all branch voltages around any closed path in a circuit is always zero.

1. For the circuit shown in fig. determine the unknown voltage drop  $V_1$ .

According to KVL, sum of potential drop = sum of potential rises.

# EEE - ONLINE CLASS - BEEE

**BEEE online coaching class** was conducted for the First year Mech A and C and IT B and C section students on the topics ‘AC Circuits (RL,RC & RLC), Wires and Cables, Energy Consumption Calculation, Three phase balanced Circuits. Number systems. ’.



### SERIES RC CIRCUITS (1)

$$R \angle 0^\circ = R + j0 \Omega$$

$v(t) = E_m \sin \omega t$   
 $= E_m \angle 0^\circ \text{ V}$

$C = \frac{1}{\omega C} \angle -90^\circ = 0 - j/\omega C \Omega$

- Above is a series RC network connected to an ac voltage
- The total impedance of this combination is

$$|Z_T| = (R + j0) + (0 - j/\omega C) = R - j/\omega C = R - j|X_C|$$

- The polar coordinates are

$$|Z_T| = \sqrt{R^2 + (-1/\omega C)^2} \text{ ohms}$$

$$\theta = \tan^{-1} \left( \frac{-1/\omega C}{R} \right) = \tan^{-1} (-1/\omega RC)$$

- The phasor diagram of the total impedance is

$\text{Re } |Z_T| = \sqrt{R^2 + (1/\omega C)^2}$   
 $\theta = \tan^{-1} (-1/\omega RC)$

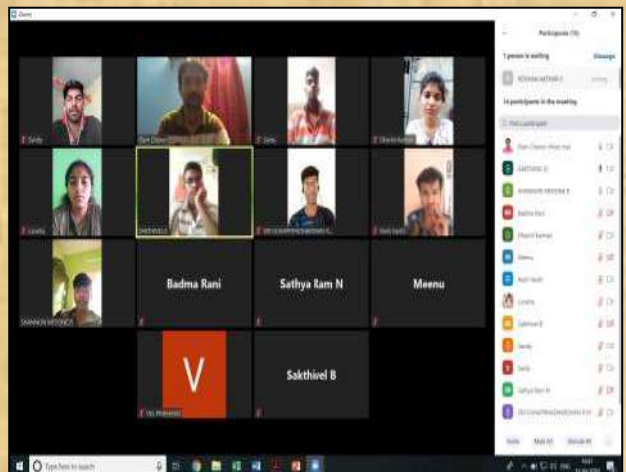


Impedance  $Z = R + jX_L$   
 $= \sqrt{R^2 + X_L^2}$   
 $Z = \frac{V}{I}$   
 Phase angle  $\phi = \tan^{-1} \frac{X_L}{R}$   
 Power factor =  $\cos \phi$  (lag) =  $\frac{R}{Z}$   
 Instantaneous power  $S = VI$   
 Power  $P = VI \cos \phi = S \cos \phi$   
 Reactive Power  $Q = VI \sin \phi = S \sin \phi$

Figure 2.17

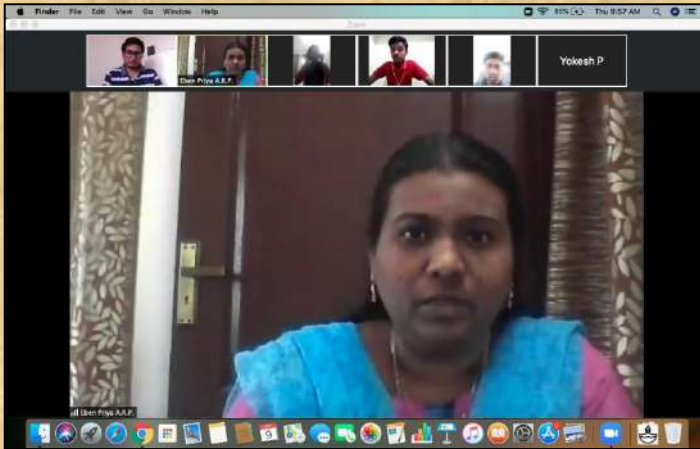
### Construction of Cables

Conductor, Paper insulation, Lead sheath, Bedding, Armoring, Serving



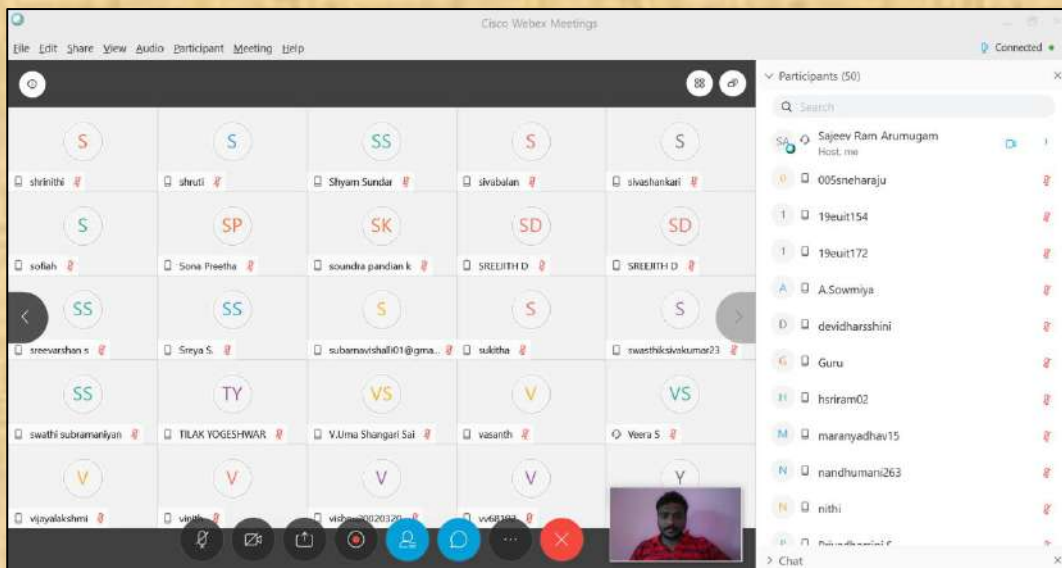


## SOM - ONLINE LECTURE SERIES – TAXATION



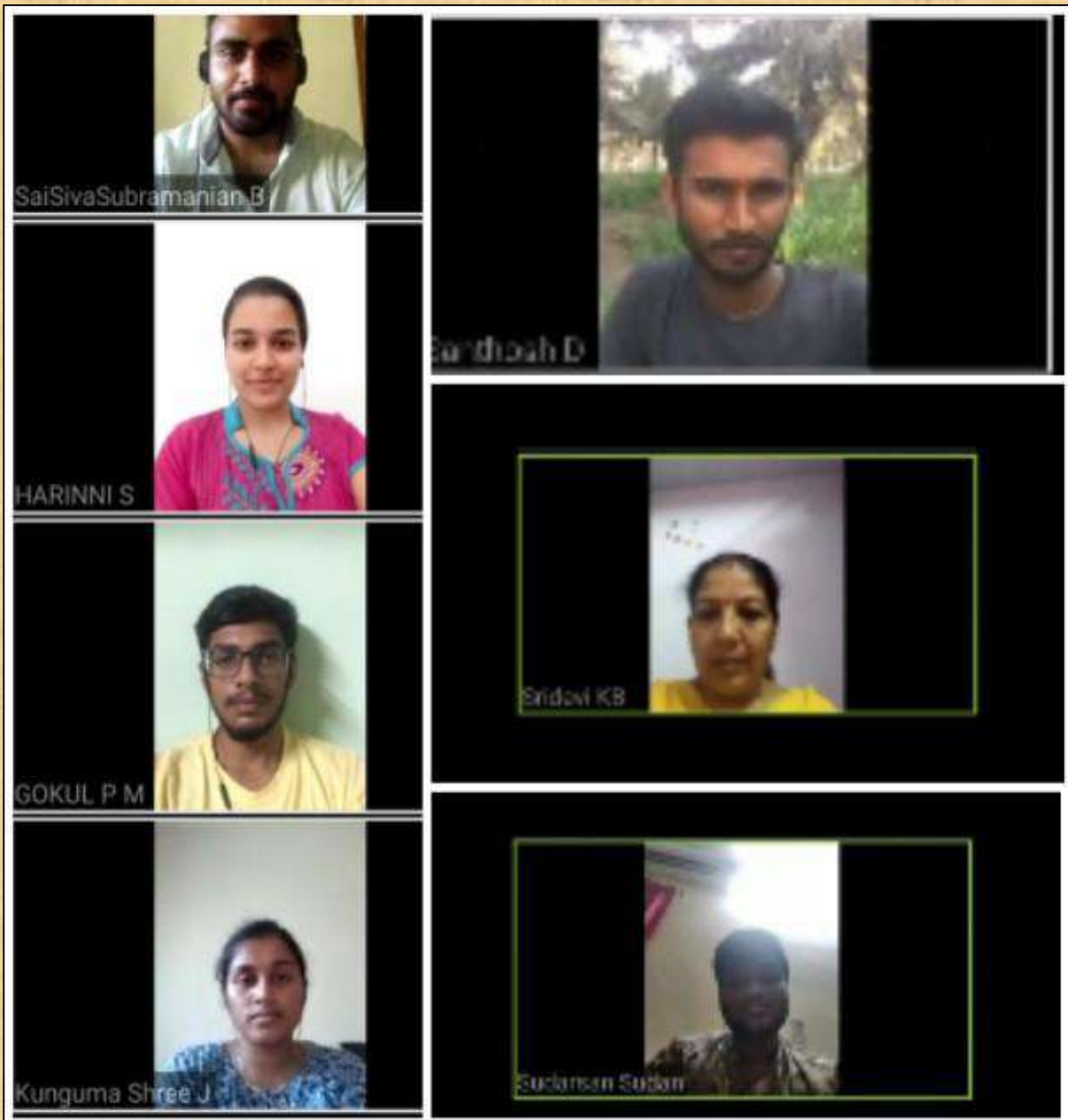
Mrs. Eben Priya A R P, Assistant Professor, School of Management hosted an online interactive class on Taxation to the students through Zoom on 09.04.2020.

## IT - ONLINE CLASSES



Dr.Sajeev Ram, Assistant professor, Department of Information Technology, conducted online coaching class for IT B on 16.04.2020. He discussed the topics “Structures and Union”.

## SOM - ONLINE LECTURE SERIES – DIGITAL MARKETING



School of Management has conducted Online Class for the First year MBA - Consumer Behavior Students on **'Cross-cultural changes and its impact on Marketing strategies and Digital marketing'** by **Dr Sridevi K B** on 13.04.2020 through Google Meet.

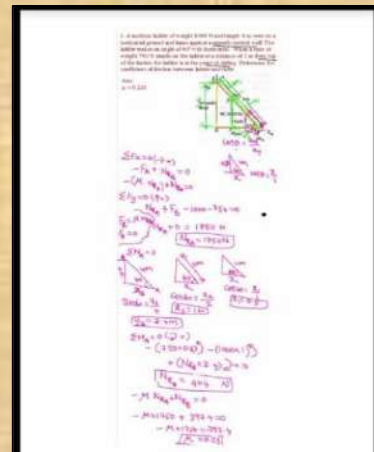


# SOM - ONLINE LECTURES SERIES – BUSINESS AND MARKET RESEARCH



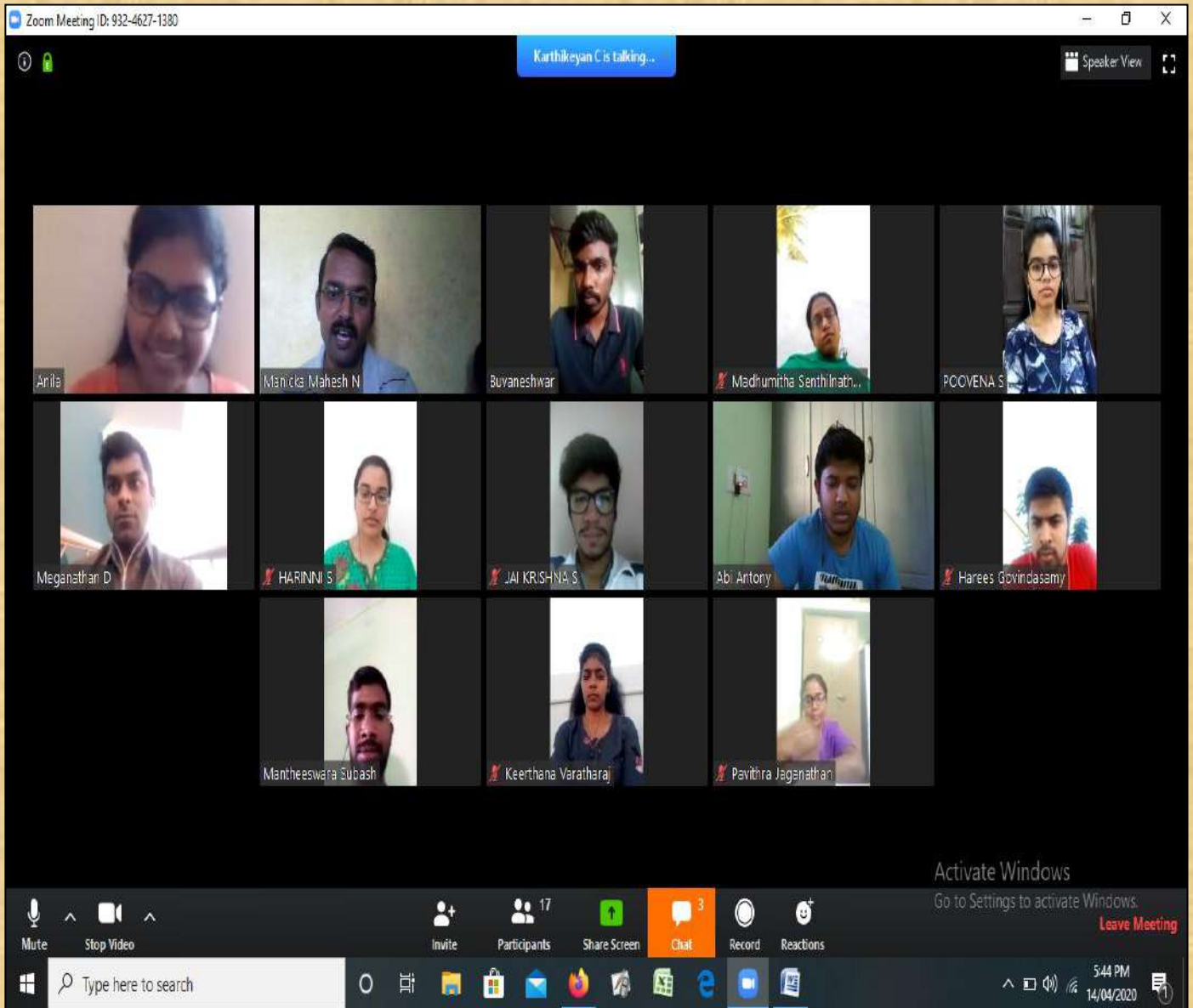
**School of Management** conducted Online Class for the First year MBA – Business and Market Research ‘B’ Section Students on ‘Data Analysis using SPSS Statistics’ by **Dr Sridevi. K. B** on 14.04.2020 through Google Meet.

# MCT- ONLINE CLASSES



Students of First year **MCT A&B** section attended the special class on Applied Mechanics on the topic ‘**Ladder Friction**’ through Zoom cloud meeting on 15.04.2020.

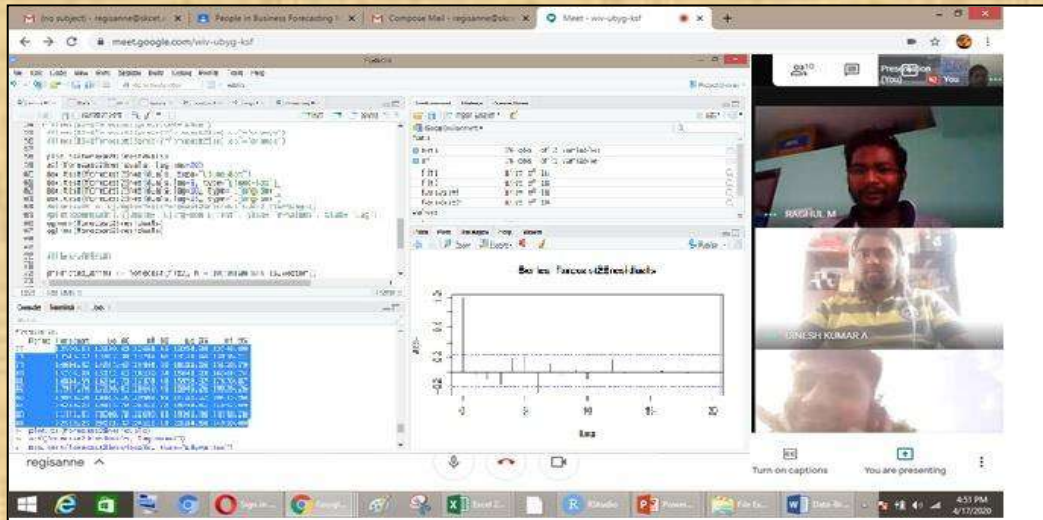
## SOM - ONLINE LECTURES SERIES – FINANCE ELECTIVE - SAPM



**Dr.N. Manicka Mahesh**, Assistant Professor, **School of Management** has conducted online interactive session for the First year MBA students on the topic '**Fundamental Metrics in Security Analysis**' – (With a Case on recent IPO from SBI Cards and its product risk discussion) SAPM through Zoom App on 14.04.2020.

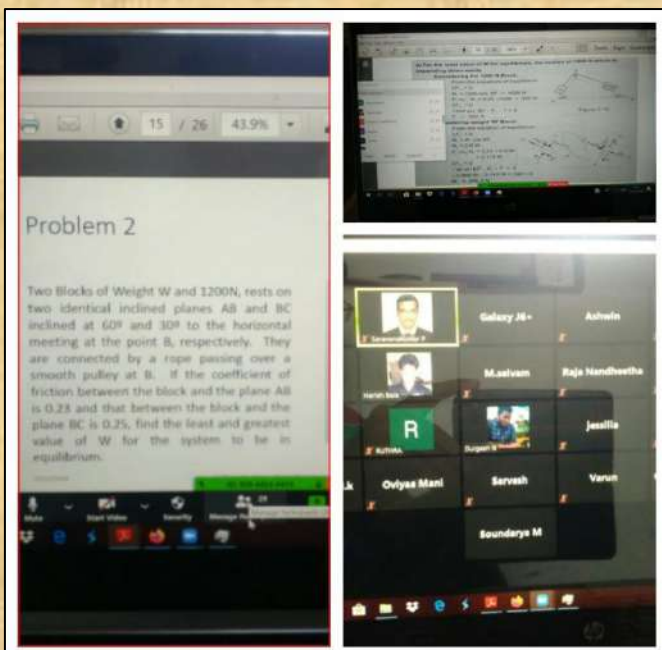


## SOM - ONLINE LECTURE SERIES – ARIMA MODEL



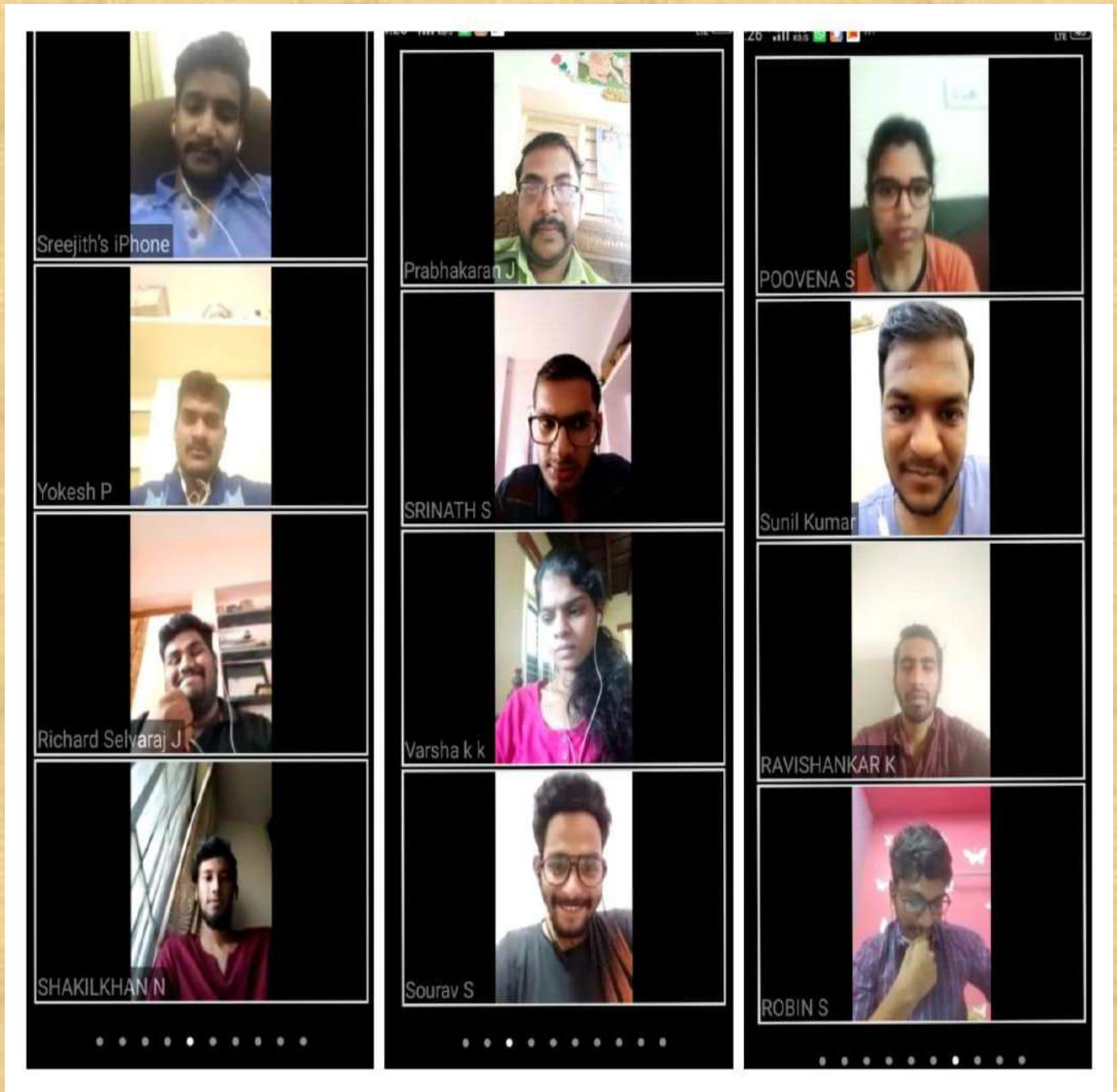
School of Management has conducted online interactive session on ‘Prediction of COVID-19 cases using ARIMA Model with implications to India’ by **Dr.W.Regis Anne** on 16<sup>th</sup> April 2020.

## CIVIL - ONLINE CLASSES



**Dr.P.SaravanaKumar**, Associate Professor of Department of Civil Engineering organized a special coaching class for the First year Civil Engineering Students on **Engineering Mechanics** on 15.04.2020.

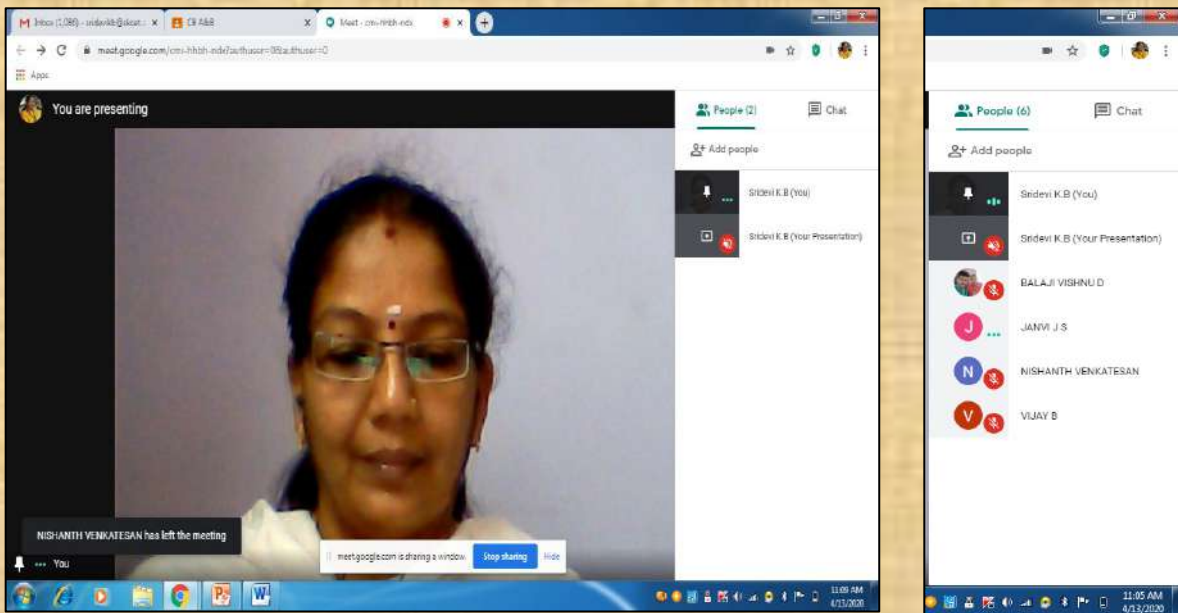
## SOM - FIRST YEAR CLASS SERIES – CORPORATE FINANCE



**Mr.Prabhakaran J**, School of Management has conducted online interactive session for I year MBA students on the topic '**Corporate finance**' through Zoom App on 16.04.2020.



## SOM - ONLINE LECTURE SERIES – CONSUMER BEHAVIOUR



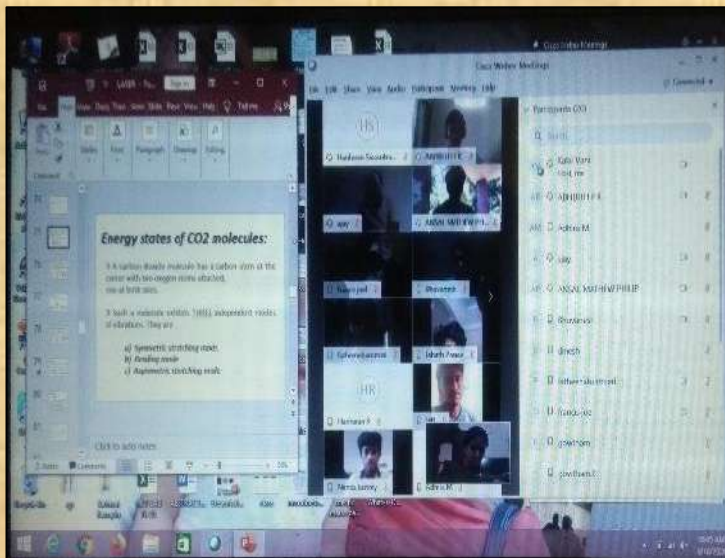
Online Class for the First year MBA - Consumer Behavior Students on 'Cross-cultural changes and its impact on Marketing strategies' by **Dr Sridevi K B** on 13.04.2020 through Google Meet.

## MCT – COACHING CLASS

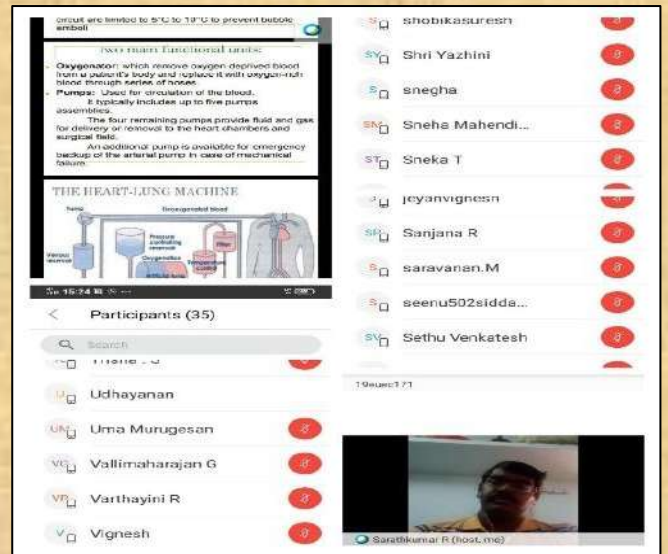


**Mr. S. Panneerselvam** conducted Special class for the course **Applied Mechanics** for I MCT B students over Zoom cloud meeting on the topic Resultant of Concurrent forces on 16.04.2020.

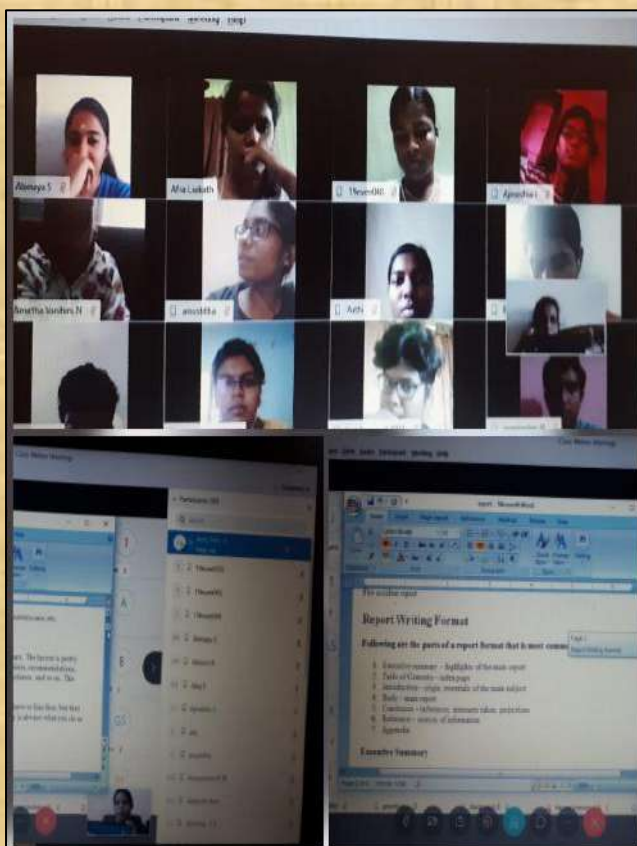
## S&H - ONLINE COACHING CLASS



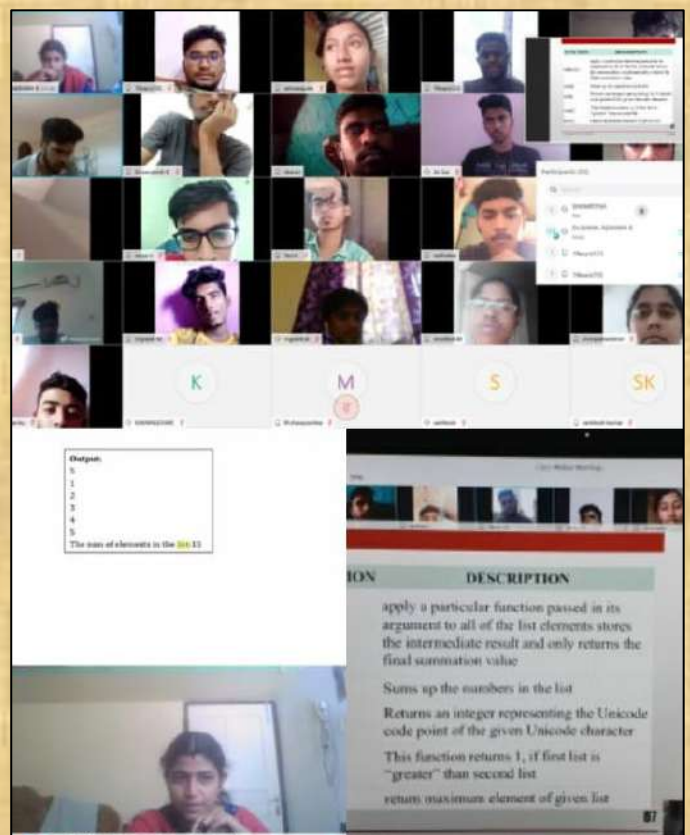
**ENGINEERING PHYSICS**



**ENGINEERING BIOLOGY**



**TCS**



**PYTHON PROGRAMMING**

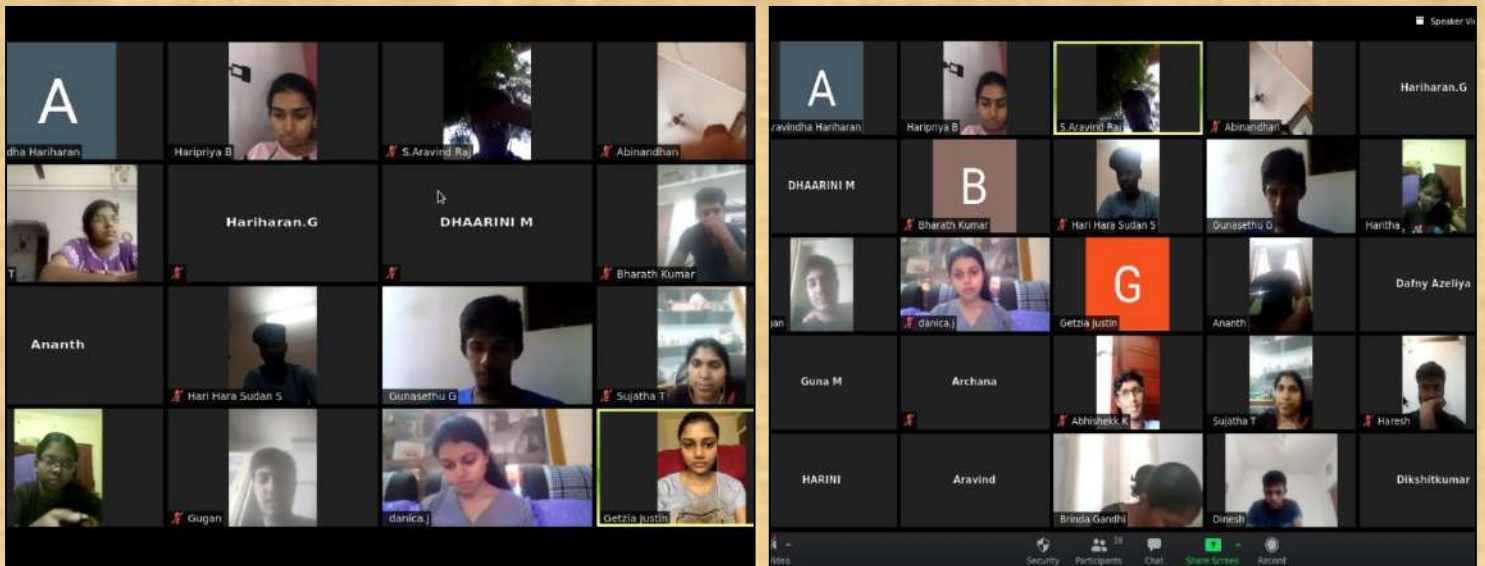


## S&H – COACHING CLASS



ICVV

## IT - ONLINE TECHNICAL QUIZ



An **Online Quiz** for the subject **Design and Analysis of Algorithms** was conducted for **II IT A** and **II IT C** students by **Dr. T.Sujatha**.

## SOM - ONLINE LECTURE SERIES – CROSS CULTURAL MANAGEMENT



Mr.R. Muthukrishnan, School of Management has conducted an online class on "Cross Cultural Communication" through Zoom App on 15.04.2020.

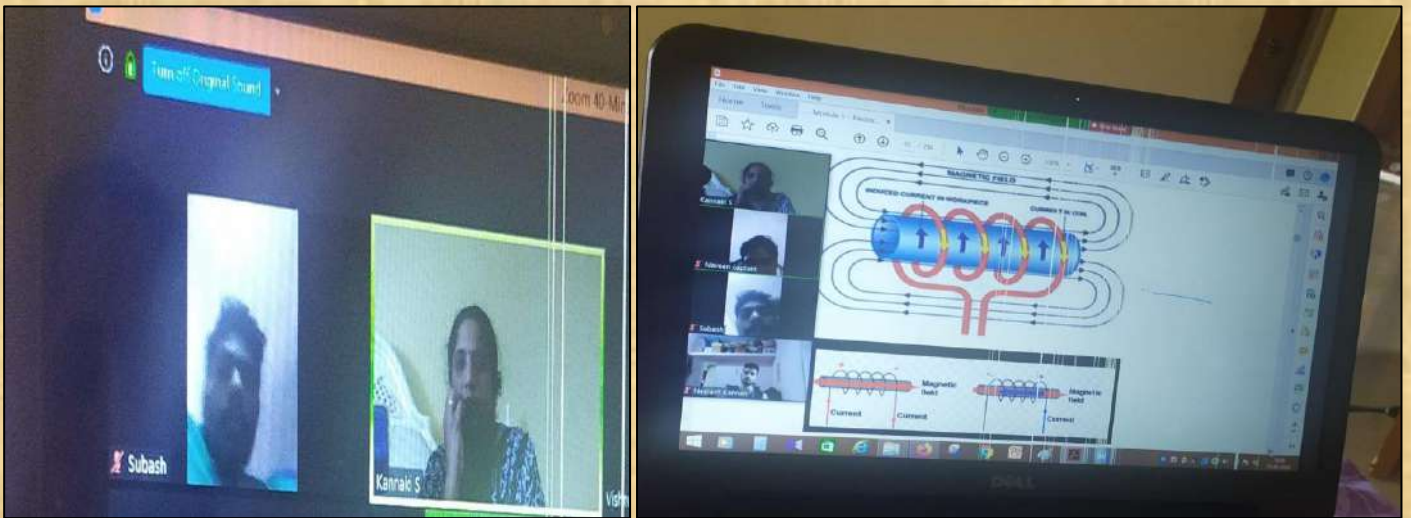
## SOM - ONLINE LECTURE SERIES – FOREIGN EXCHANGE



Mr. J.Prabhakaran, School of Management has conducted online class on **Foreign Exchange Management** for Finance elective students through Zoom Application on 16.04.2020. Forex facilities for Residents and NRI's, Foreign exchange arithmetic, pre and post shipment, FEMA and Export credit Guarantee Corporation were discussed.

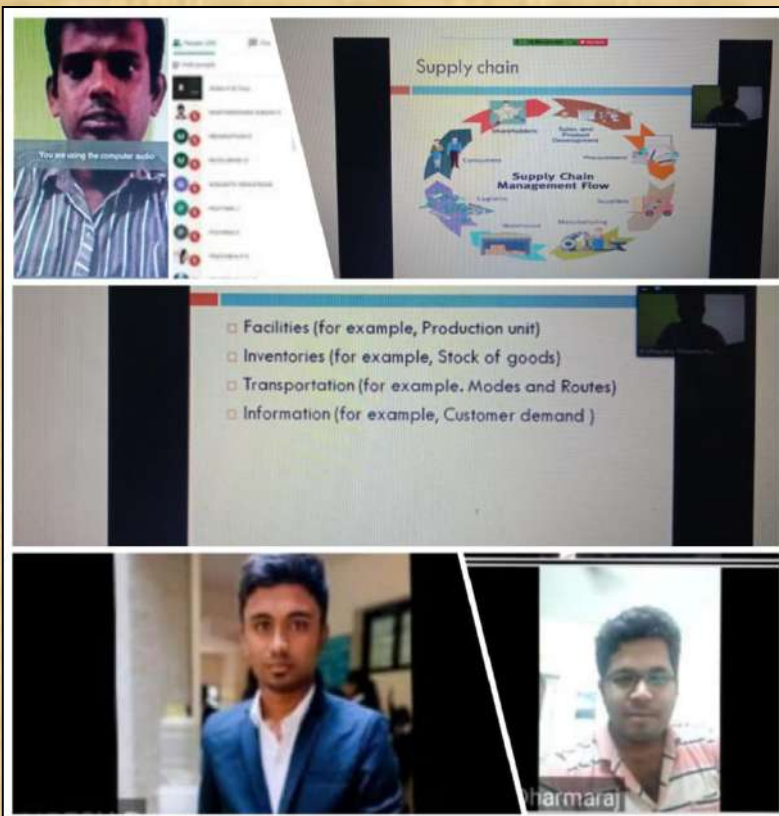


## MCT – COACHING CLASS



**Ms.S.Kannaki**, Assistant professor, MCT conducted Electrical Electronic Devices special class for I MCT B students on 15.04.2020 .

## SOM - ONLINE LECTURE SERIES – LOGISTICS



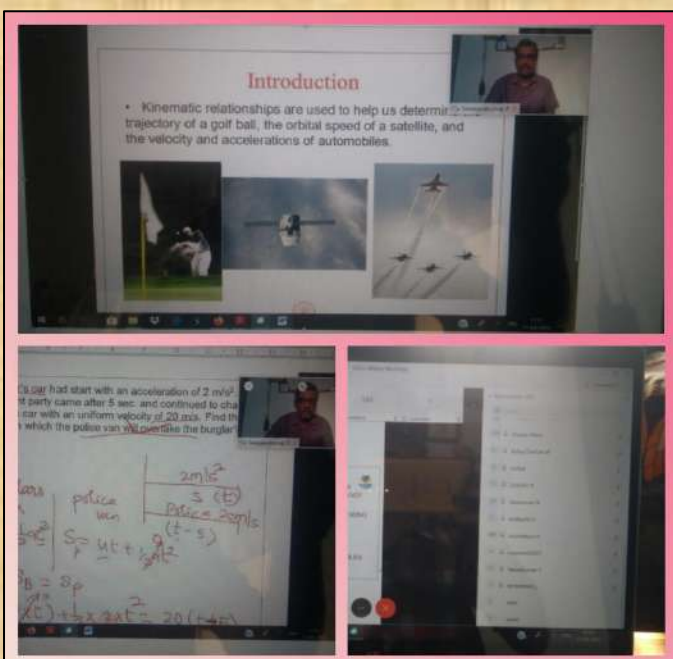
**Mr. T.Krishnasamy**, School of Management has conducted an online class on "Drivers of Supply Chain Performance" through Zoom App on 16.04.2020.

## M.Tech CSE- ONLINE COACHING CLASS



E-class was conducted for the First year **M.Tech CSE** students on 17.04.2020 through WebEx Cloud meeting. Revision, clarification of doubts using editable tools and End Semester Preparation Tips were provided during the session.

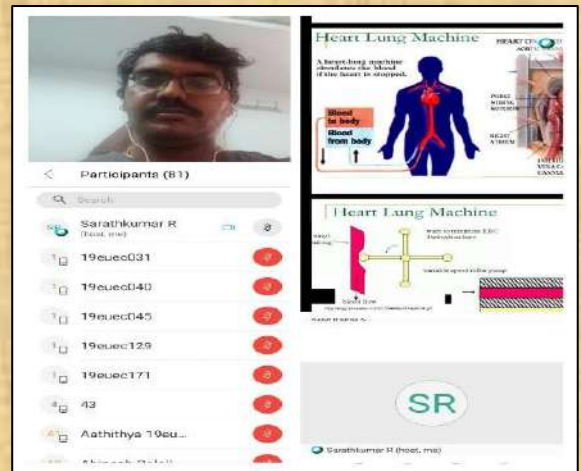
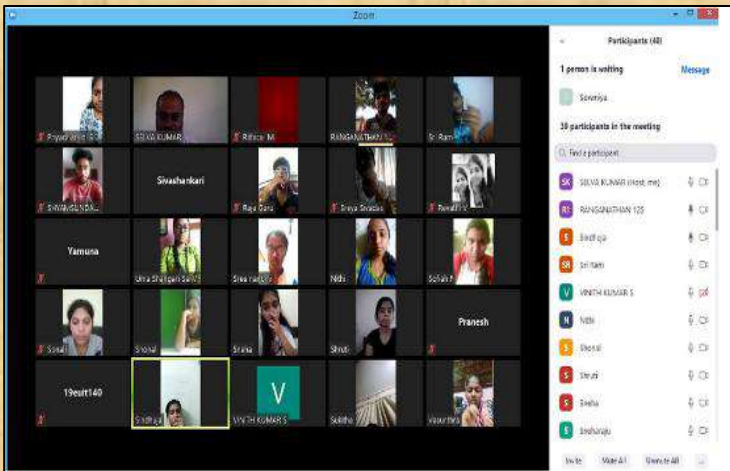
## CIVIL – ONLINE CLASS



**Dr.P.SaravanaKumar**, Associate Professor of Department of Civil Engineering organized the I Year Civil students for special coaching class for the subject **Engineering Mechanics**. He made the students to work down the problems on 17.04.2020.

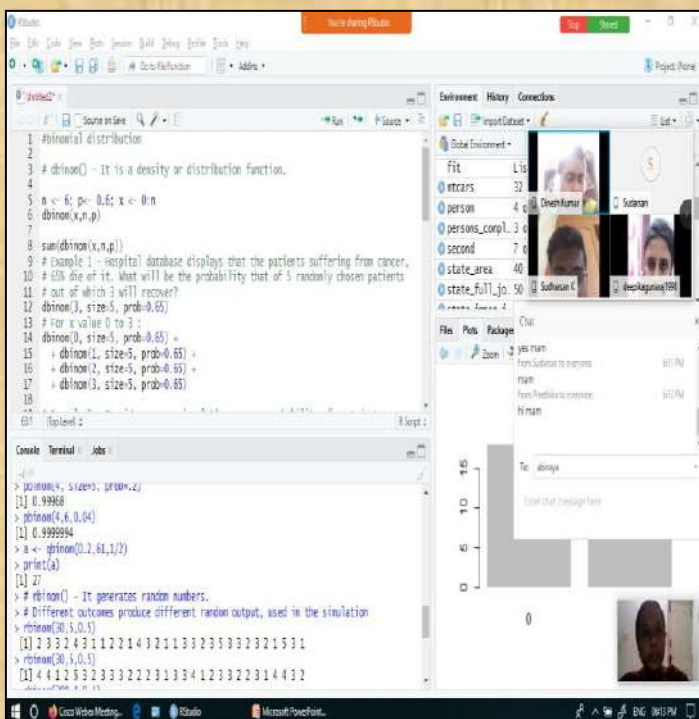


## S & H - SPECIAL COACHING CLASS



The Department of Science and Humanities organized a **Special Coaching Class** for the **First year students** to act in the best interest of them and leave no stone unturned. Building up skills and confidence is done effectively through these classes.

## SOM - FIRST YEAR CLASS SERIES – BINOMIAL DISTRIBUTION



School of Management has conducted online interactive session on **Binomial Distribution in R - Case Study on Binomial Distribution for Covid-19** by **Dr. P. Shanthi** on 17<sup>th</sup> April 2020.



# WEBINARS ON COMPUTING TECHNOLOGIES



**e - Academia – Special Edition II**



## IT - POWER OF PROGRAMMING LANGUAGE

Department of Information Technology organized a webinar titled “**Power of Programming Language**” on 13.04.2020 for faculty and II year students through zoom app. **Mr.V.K.Prashanth**, Software Development Engineer in Testing, Amazon, Chennai was the resource person. He elaborated the session with special programming languages, computational thinking power of IT professionals and language family tree.

**Special Programming Languages**

- ▶ Scripting Languages
  - JavaScript and VBScript
  - Php and ASP
  - Perl and Python
- ▶ Command Languages
  - sh, csh, bash
- ▶ Text processing Languages
  - LaTeX, PostScript

**Program Power**

- Helps you become a more intelligent user of computers
- It can be fun!
- Form of expression
- Helps the development of problem solving skills, especially in analyzing complex systems by reducing them to interactions between simpler systems.
- Programmers are in great demand!

**Power of Programming Languages**

Cordially invite you for the Webinar

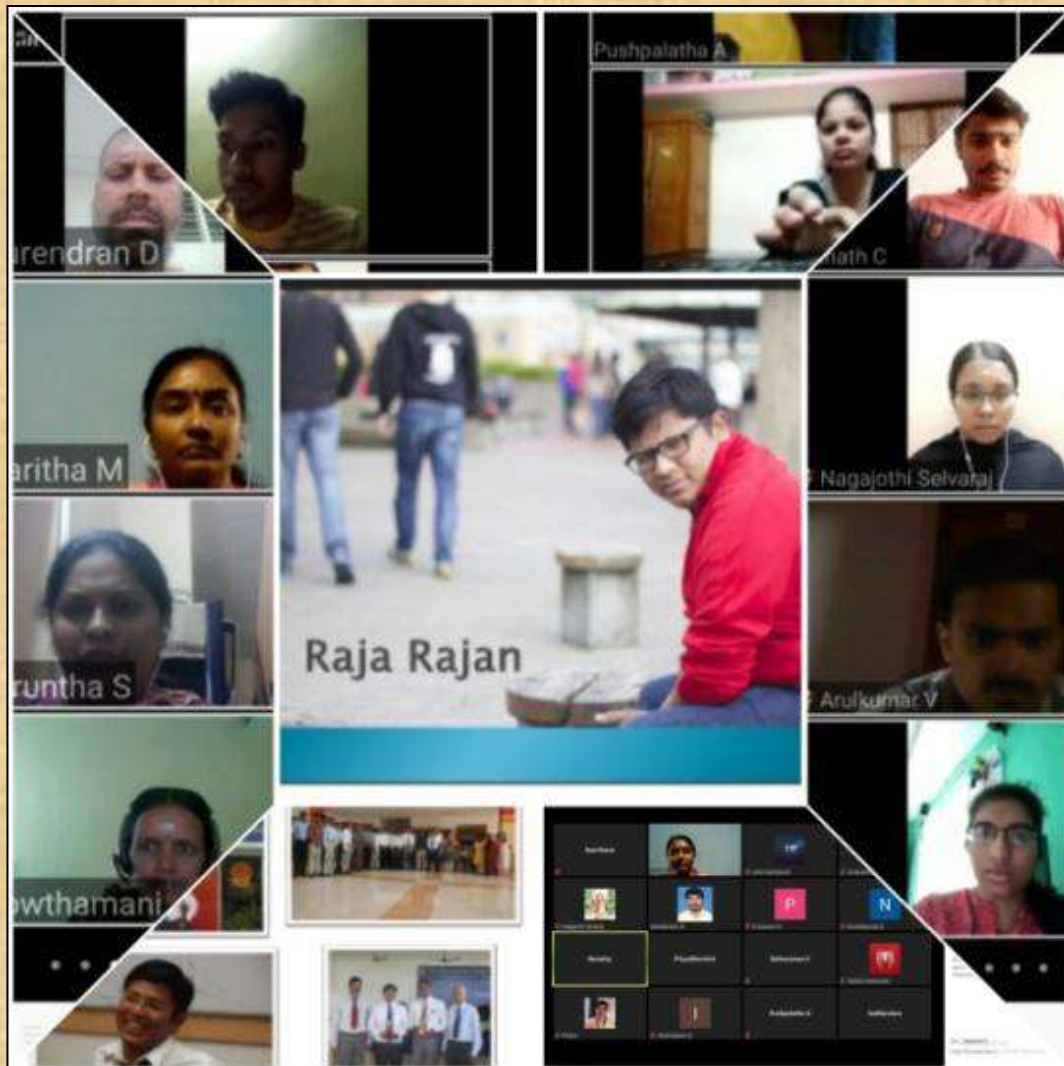
Time: 18.30

**Resource Person**  
Mr V K Prashanth  
Software Development Engineer  
Amazon, Chennai

**Interview pattern...**

- Online Test = Aptitude+ English
- G.D = English
- Technical HR = Programming + English
- General HR = English

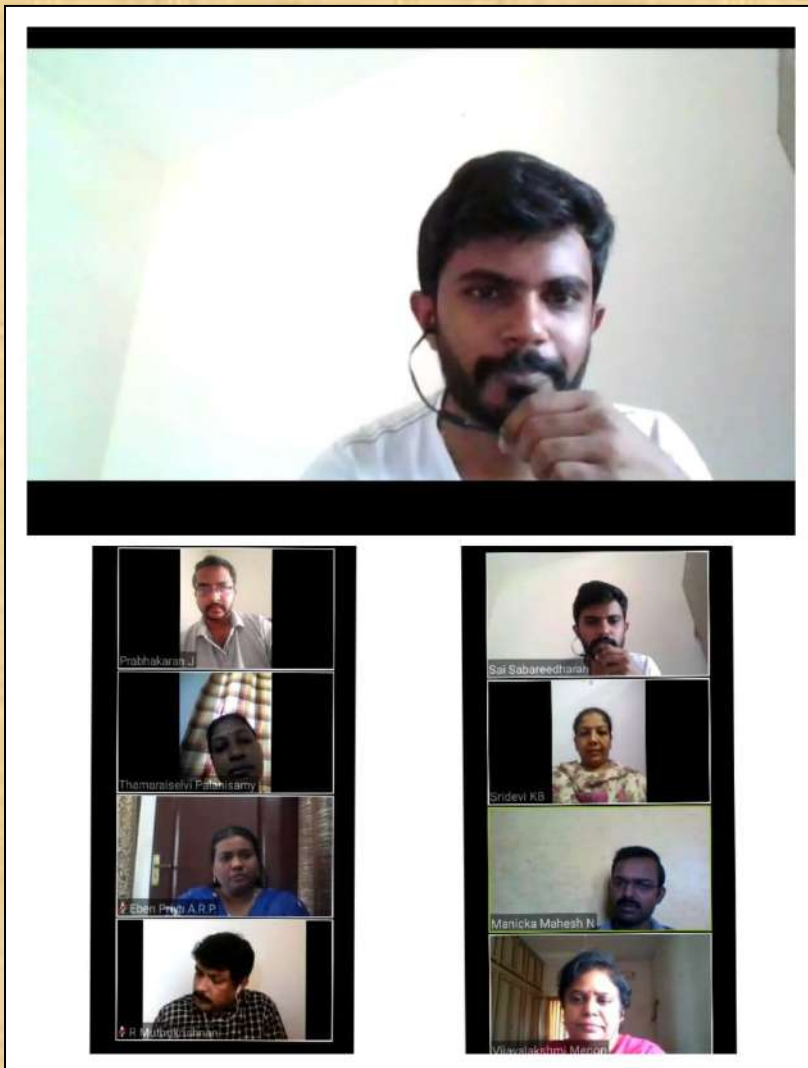
## CSE - DATA SCIENCE IN DIGITAL MARKETING



IIC of SKCET in association with the Department of CSE organized a webinar titled "**Data Science in Digital Marketing**" on 13.04.2020. **Mr.Raja Rajan**, CEO/E-Commerce Industry, USA, was the resource person of the event. IIC students and faculty members from the department of CSE attended the event. The key take-aways of the session were how to overcome the curfew through E-Learning, importance of Data science, startups and how the entrepreneurs emerge from the industry and digital marketing impacts.



## SOM - AZURE CLOUD IN BUSINESS RESEARCH



The Institution's Innovation Council (IIC) of SKCET and School of Management organized webinar series. **Mr. Sai Sabareedharan M**, Senior Executive – Business Development, ATNA Technologies India Pvt Ltd (Microsoft Gold Partner) addressed on ‘**Scope Microsoft - Azure Cloud in Business Research** ‘ on **15.04.2020**. He has shared his knowledge on working of Azure, Microsoft Dynamics ERP, Microsoft power BI, channel management of Microsoft and their uniqueness.

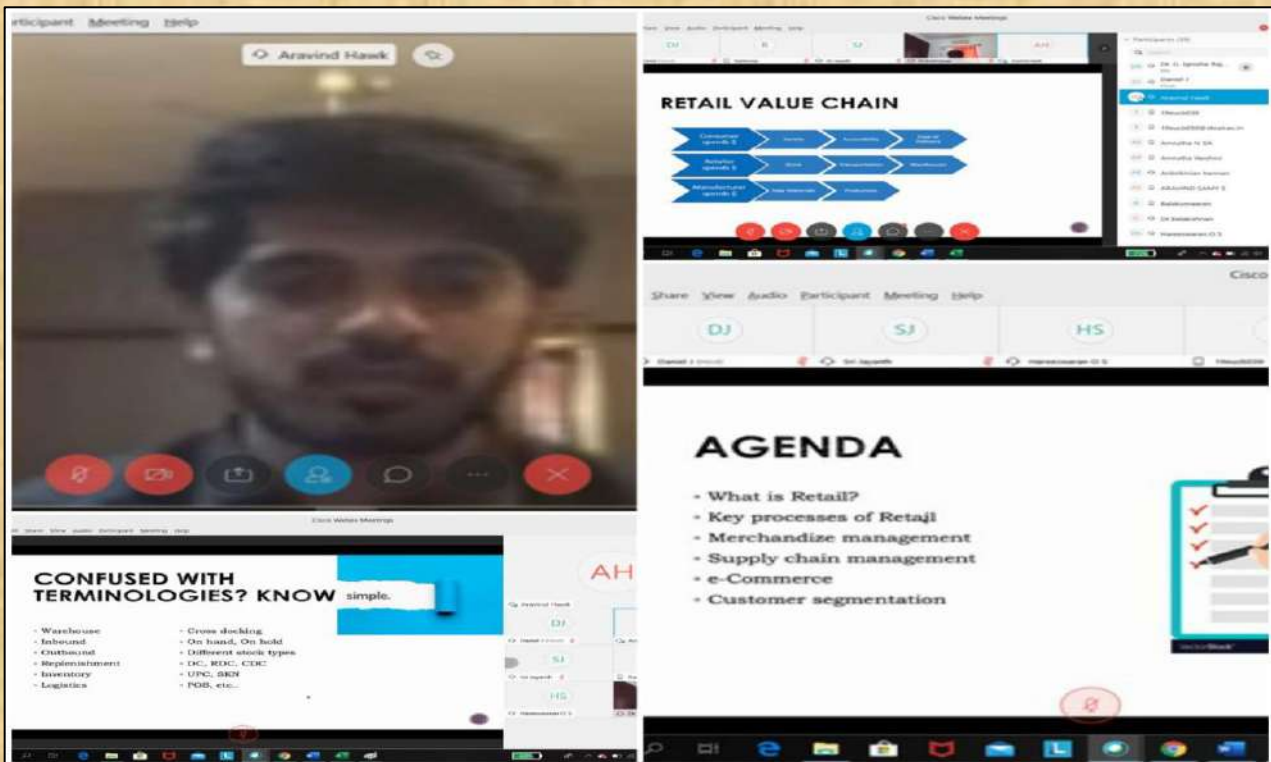
## CSE - WEB DESIGN AND DEVELOPMENT



The Department of Computer Science and Engineering in association with IIC organized a Webinar on “**Web Design and Development**” by **Mr.K. Sivanandham** (Managing Director, Glorious Technologies) on 17.04.2020. The resource person highlighted inputs on Web site design, Web hosting and brief view on Angular.js Vs Node.js.



## CSBS - RETAIL AND SUPPLY CHAIN MANAGEMENT



The Department of **Computer Science and Business Systems** conducted a webinar session for the faculty members and students on 16.04.2020 on the topic “**Retail and Supply Chain Management**” by **Mr. Aravind Hawk JP**, Team Leader, Hudson’s Bay Company. The session was very interactive and a clear eye opener on Retail and Supply Chain Management. Mr. S. Vishnu Sarath from II CSE C (CSBS) delivered the vote of thanks.

### Key Deliberations:

- Key terminologies and process of Retail
- Merchandize Management
- Supply chain Management
- Connectivity with Manufacturer-Retailer-Consumer
- E-commerce
- Customer Segmentation
- Real world examples

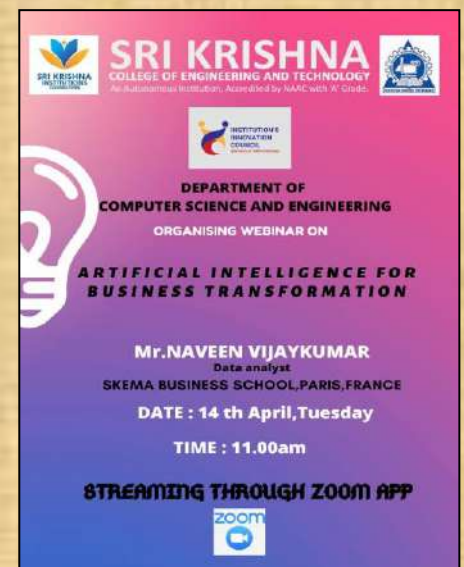
## IT –LATEST DEVELOPMENTS IN CRYPTOGRAPHY



Department of **Information Technology** organized a webinar for the faculty and students through zoom app on 16.04.2020. The session was on “ **Latest developments in Cryptography**” by Dr.Dan Bonesh, Professor, Stanford University. He elaborated the session on the latest developments on crypto systems and rapid advancements in Information Technology.

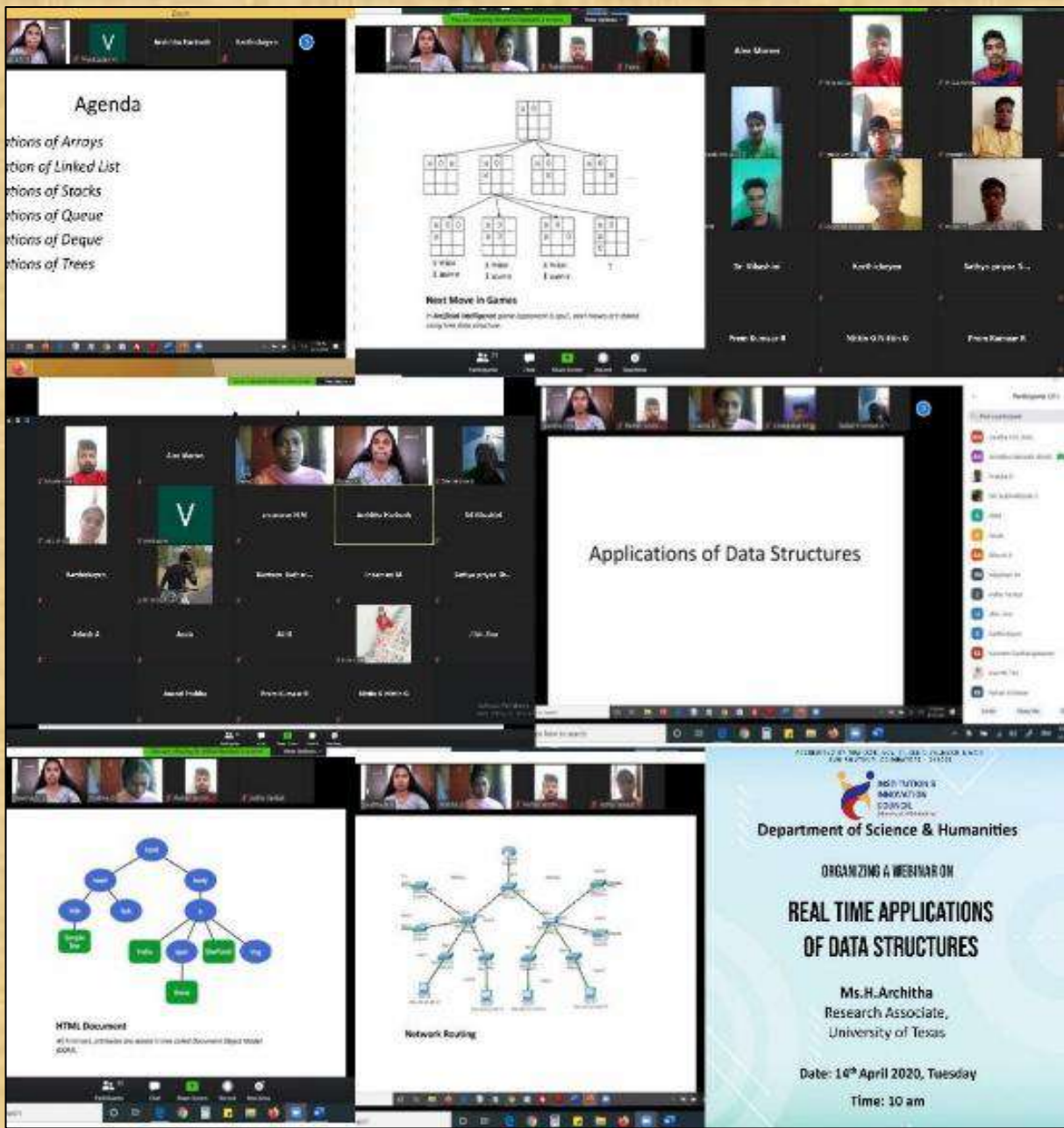


## CSE - ARTIFICIAL INTELLIGENCE FOR BUSINESS TRANSFORMATION



The Department of CSE in association with IIC organized a webinar session on **Artificial Intelligence for Business Transformation** on 14.04.2020 for III CSE students and faculty members through Zoom application. **Mr. Naveen Vijaykumar**, Data Analyst, Skema Business School, Paris, France was the resource person of the event. Third year CSE students and faculty members of CSE department attended the event. The Scope of AI in 2030, Branches of AI, Top 10 AI applications implemented in different countries were some of the topics discussed. Students also gained knowledge on various job roles in the field of Artificial Intelligence and Open source AI tools used for research and Hackathons.

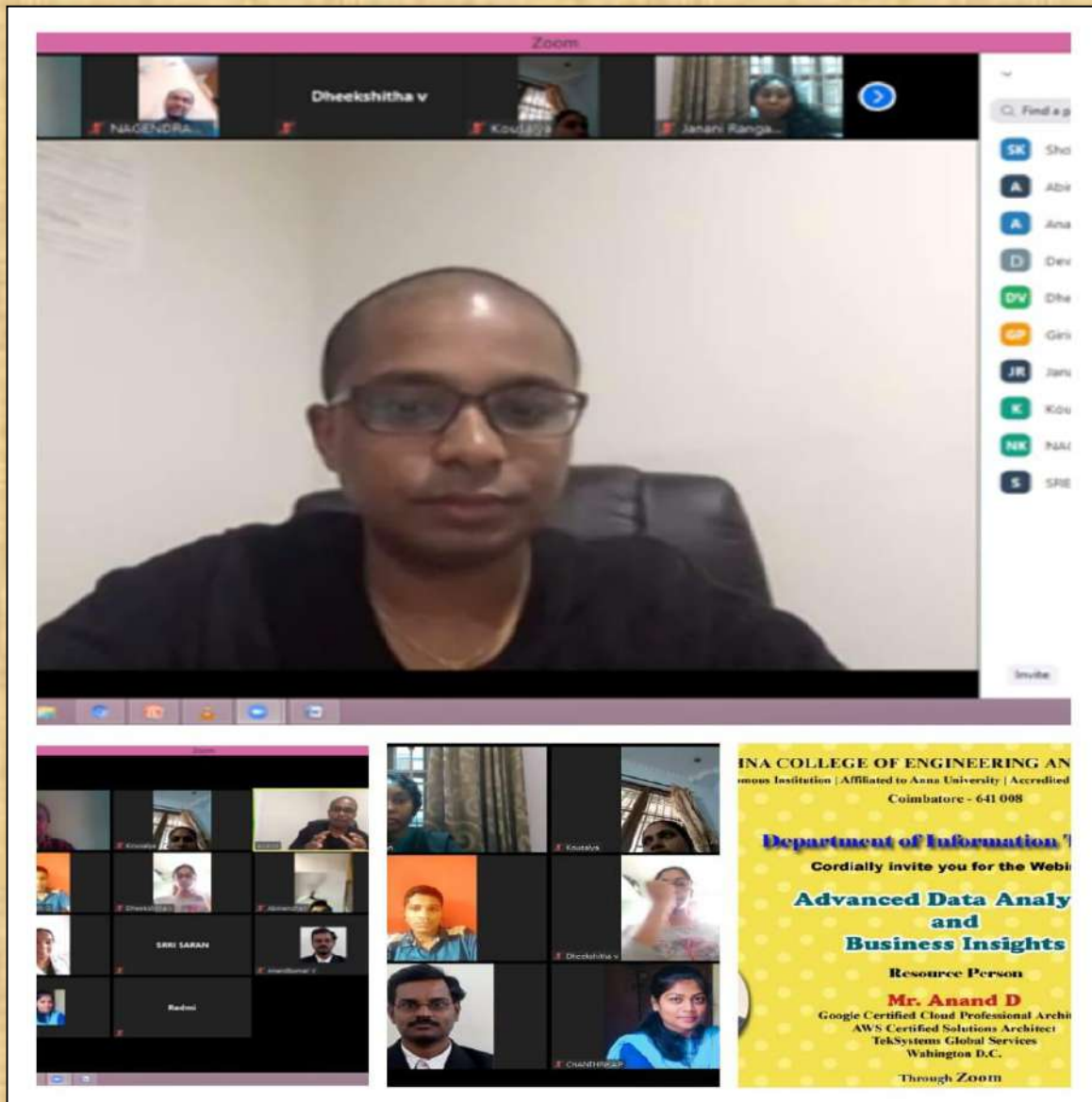
# S&H – REAL TIME APPLICATIONS OF DATA STRUCTURES



A Webinar was organized for the First year **M.Tech Virtusa** students on '**Real time Applications of Data Structures**' on 14.04.2020. **Ms.H.Architha**, Research Associate, University of Texas was the resource person of the session.



## IT - ADVANCED DATA ANALYTICS AND BUSINESS



Department of Information Technology organized a webinar session “**Advanced Data Analytics and Business Insights**” for the benefits of students and faculty on 17.04.2020. **Mr.D.Anand**, Google Certified Cloud Professional Architect, TekSystems Global Services, Washington DC, was the resource person. The key points discussed in the session were Analytics in healthcare, Project Nightingale, Cloud Analytics and the importance of AWS from company perspective.

## CSE - UNDERSTANDING THE BASICS OF BIOMETRICS

Now viewing Jayesh Paliwal's screen  
Talking: Jayesh Paliwal  
Zoom: 61%  
Screenshot

### Types of Biometric

- Behavioral Biometrics - Used for verification
  - Speaker Recognition (Voice)
  - Signature
  - Keystroke
  - Gait
- Physical Biometrics - Used for either identification or verification
  - Fingerprint
  - Facial Recognition
  - Hand Geometry
  - Iris recognition
  - Vascular Patterns

**Biometrics – An Insight**  
Jayesh Paliwal, CSM | CSPO | Product Owner  
Unisys India

Faculty Members and Students from the Department of CSE attended Unisys India Webinar on **Understanding the basics of Biometrics** by **Mr. Jayesh Paliwal**- Product Owner, Unisys India on 17.04.2020. The session was on Biometric Identification, Verification and its use cases, Importance of Face Recognition & Biometrics and tools used.



## CSBS - JAVA FUNDAMENTALS

The screenshot shows a Cisco Webex meeting interface. The main content is a slide titled "How is Java platform independent?". The slide contains a flowchart illustrating the Java compilation and execution process:

```

graph LR
    A[Source Code (.java)] --> B[Java Compiler]
    B --> C[Byte Code (.class)]
    C --> D[Windows JVM]
    C --> E[Linux JVM]
    C --> F[Apple JVM]
    D --> G[Computer]
    E --> H[Smartphone]
    F --> I[Mac]
  
```

The flowchart shows that source code (.java) is compiled by a Java Compiler into byte code (.class). This byte code is then executed by different JVMs (Windows JVM, Linux JVM, and Apple JVM) on various platforms (Computer, Smartphone, and Mac). The meeting interface also shows a video feed of a participant named Pavithran and a list of 40 participants.

Department of **CSBS** conducted a webinar session for the faculty and students on 13.04.2020 by **Mr. Pavithran R**, Associate, CTS, Coimbatore on the topic “**Java Programming**”. Introduction to JAVA Programming, Object Oriented Programming Concepts, Data Types, Various Applications in real time programming window were some of the topics discussed.

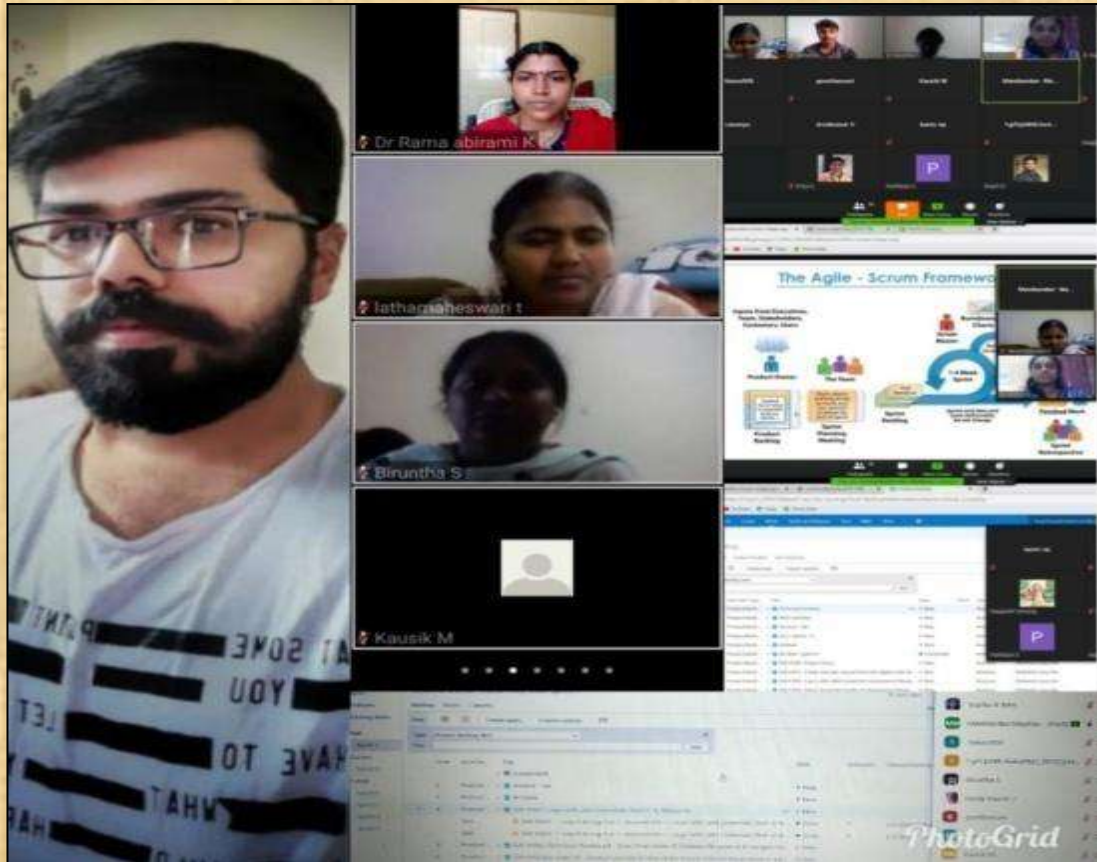
## IT –ART OF DESIGN THINKING



Department of **Information Technology** organized a webinar “**The Art of Design Thinking**”. The students and faculty members attended the webinar on 13.04.2020 which was delivered by **Erion Nako and Fabjan Iashi**.



## CSE - AGILE PROJECT MANAGEMENT



The Department of **CSE** in association with **IIC** organized a webinar session on **Agile Process in Software Project Management** on 16.04.2020 for the II year CSE students and faculty members at 11.00 am through Zoom application. **Mr. Manikandan M**, Project Manager, Augusta Hitech, Coimbatore was the resource person of the event. Importance of Agile software development, Application of Agile framework in industry, Scrum principles, Real-time application of Agile model were some of the topics discussed. Students also gained the knowledge on various Job roles in the development field and Open source tools used for research and Hackathons. He also insisted the students to concentrate more on Python programming and Block chain technology for their career purpose.

## CSBS – DESIGN THINKING

The collage features a promotional poster for a webinar titled "Design Thinking" by Thiru. Anbu Selvan, Chief Executive Officer of CyberDude Networks Pvt. Ltd. Chennai. The poster includes logos for Sri Krishna College of Engineering and Technology, MHRO's Innovation Cell, and the Institution's Innovation Council. It also lists the date as 17/04/2020 at 11 am and mentions the use of Cisco Webex Meet. Social media handles for Facebook, Twitter, Instagram, LinkedIn, and the website skcet.ac.in are provided.

One of the presentation slides is titled "What we learn this in 2020?" and contains the following text: "Design thinking is not new! It already exist in creative companies. It's not language or any particular technology, it's not going to fade away! Every companies are using design thinking to solve the problems." Below this text is a list of items: "List: 1. Shops (Shop open), 2. Groceries, 3. Pharmacy, 4. Supermarkets, 5. Overall statistics regarding COVID-19." A diagram titled "DESIGN THINKING A FRAMEWORK FOR INNOVATION" is also visible, showing a circular process with "CONTEXT" and "IDEATE" stages.

The Zoom meeting screenshot shows two participants in a video call, with a search bar at the bottom.

The Department of **Computer Science and Business Systems** conducted a webinar session for the faculty members and students on 17.04.2020 on the topic “**Design Thinking**” by **Mr. Anbu Selvan, Chief Executive Officer, CyberDude Networks Pvt. Ltd. Chennai.**

Welcome address was given by **Dr. G.IgnishaRajathi**, hosted by **Mr.J.Daniel** and organised by **Dr.S.Balakrishnan**, HOD, CSBS. **Nivethini** from I CSBS delivered the vote of thanks.

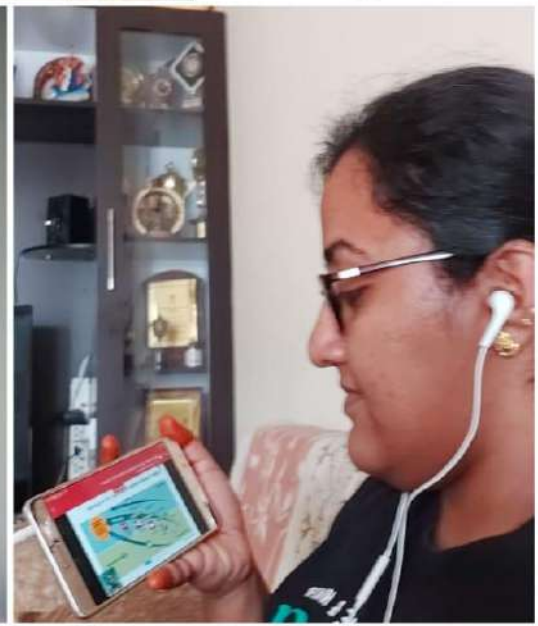
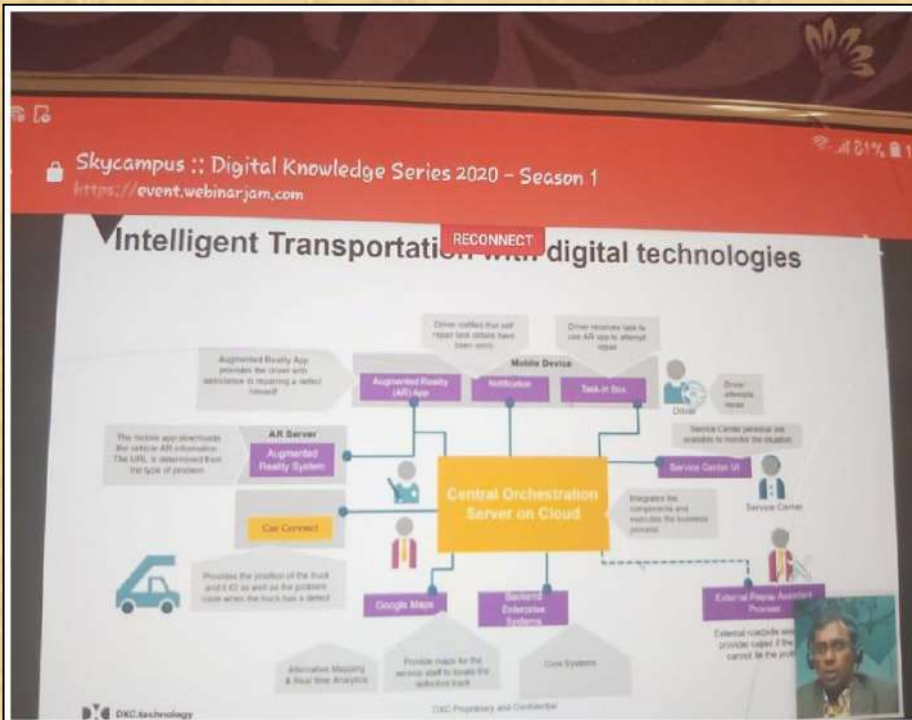
### Key Deliberations:

- What is Design Thinking?, How useful it is? Why Design Thinking?, Design Sprint, Creativity is Everything, Build an App, RIGHT AWAY! , Using Real world example. – Live Mobile creation on Dash Board.

He cleared many queries posted by the students and received positive feedback. The session was very interactive and gave a complete insight on Design thinking.

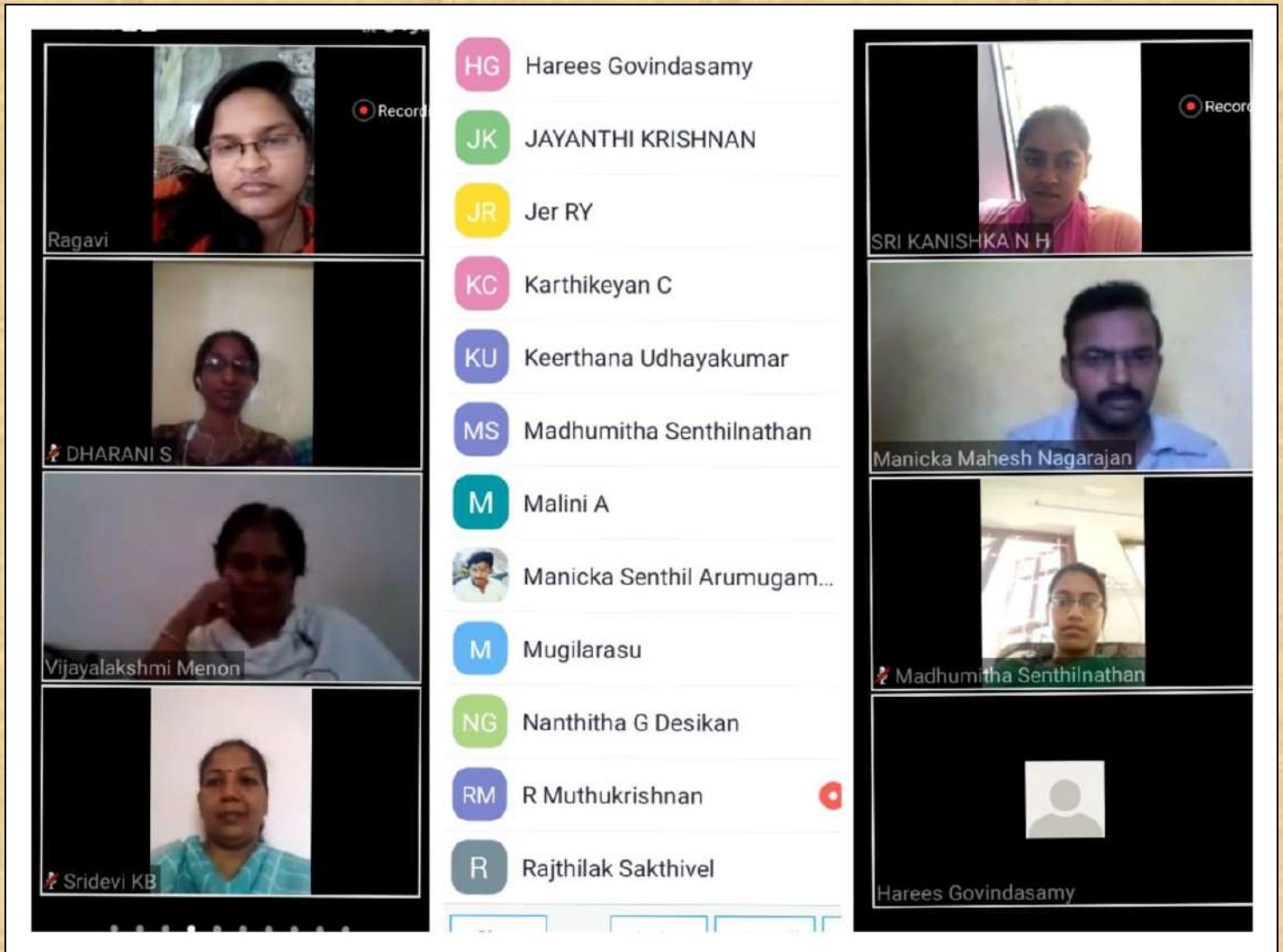


# IT - DIGITAL TRANSFORMATION IN ENTERPRISE



Faculty members from the Department of Information Technology attended the ICT Academy Webinar series of Skycampus Digital Knowledge series on “**Digital Transformation in Enterprise**” by Mr. Sriram Parthasarathy, DXC Technology on 18.04.2020.

## SOM - SELF DISCIPLINE: NEED OF THE HOUR

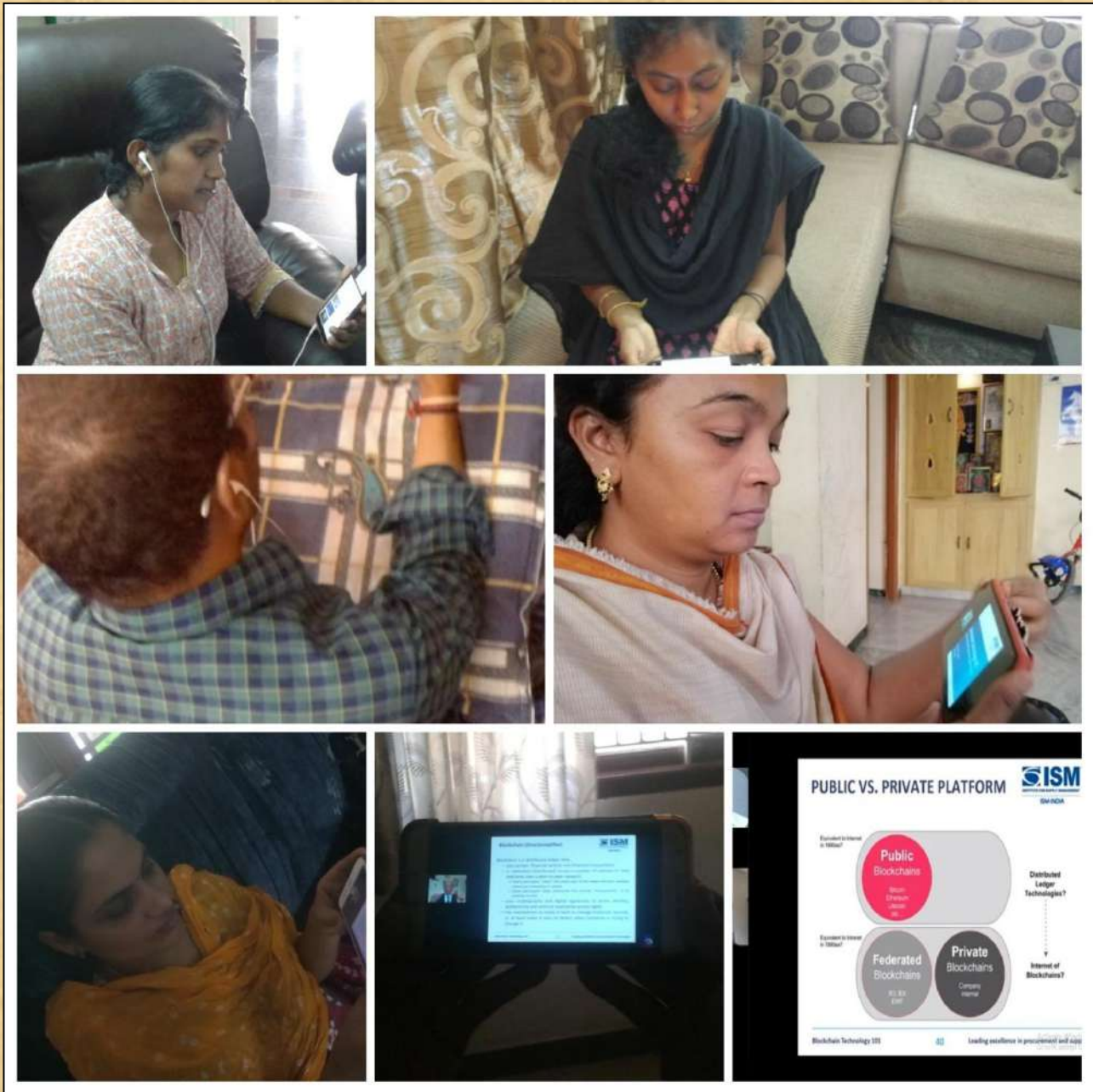


The screenshot displays a Zoom meeting interface. On the left, there are four video thumbnails of participants: Ragavi, DHARANI S, Vijayalakshmi Menon, and Sridevi KB. In the center, a list of participants is shown with their initials and names: HG Harees Govindasamy, JK JAYANTHI KRISHNAN, JR Jer RY, KC Karthikeyan C, KU Keerthana Udhayakumar, MS Madhumitha Senthilnathan, M Malini A, Manicka Senthil Arumugam..., M Mugilarasu, NG Nanthitha G Desikan, RM R Muthukrishnan, and R Rajthilak Sakhivel. On the right, there are three video thumbnails: SRI KANISHKA N H, Manicka Mahesh Nagarajan, and Madhumitha Senthilnathan. At the bottom right, there is a placeholder for Harees Govindasamy.

The Institution's Innovation Council (IIC) of SKCET and School of Management organized webinar series. **Ms. Abhinaya Vadivel, Co-Creator, Q'seen Food Stories** addressed on the topic: 'Self Discipline - Need of the Hour' on 17<sup>th</sup> April 2020. This session was attended by both I and II MBA students. The main motive of this session is to inculcate the self discipline among the students. She has given a detail lecture on the topic and also instructed the students to adopt the practices of discipline in the present lockdown situation.



## IT – BLOCK CHAIN TECHNOLOGY



Department of Information Technology organized a webinar “**Block Chain Technology**” by **Mr.Krishan K Batra**, president & CEO, Institute for Supply Management on 18.04.2020. The key points discussed in the session were Application of Blockchain in Procurement, Smart Contract and secure transaction.



# DEPARTMENT MEETINGS



**e - Academia – Special Edition II**



## CSE – MEETING WITH CLUSTER HEADS



Cluster Heads Meeting



Dr.K.Sasi Kala Rani, HOD,CSE & Team



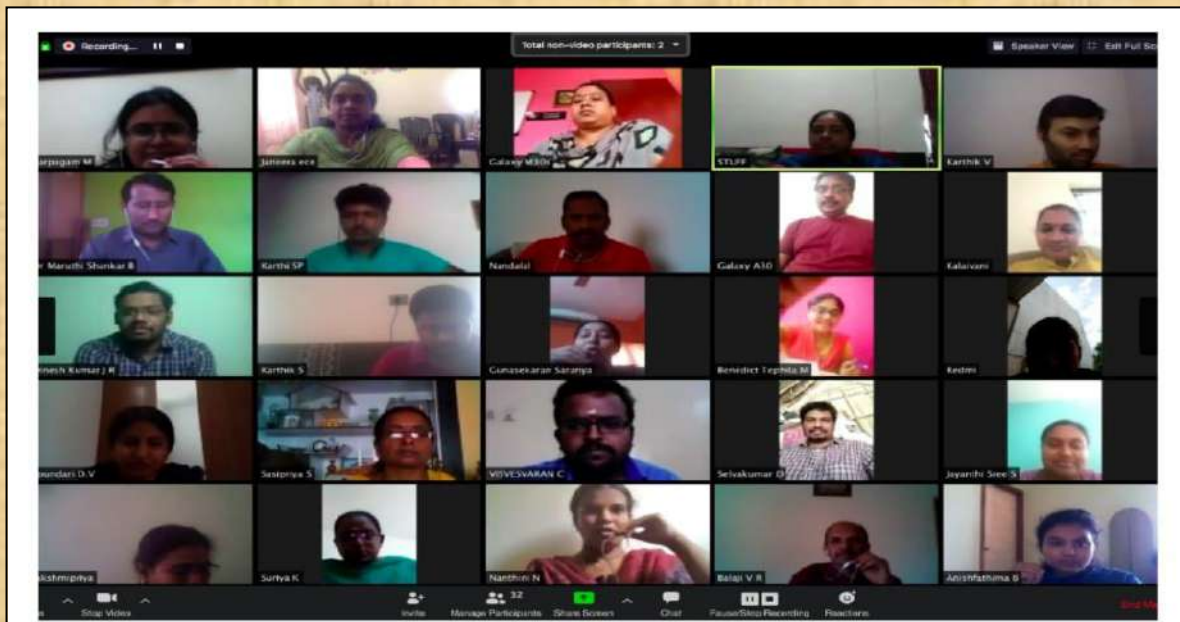
A meeting with BOS team members was convened **Dr.K.Sasi Kala Rani, HOD,CSE** by cluster heads in-line with guidelines by regarding syllabus revamping process for R2018 BE CSE & R2019 M.Tech CSE (5 year) integrated programme through Zoom Cloud Meeting.

## EEE - MEETING WITH CLUSTER HEADS



**Dr.K.C.Ramya HoD, EEE** convened a meeting with Cluster heads and discussed the Innovative TLP methodologies, Advanced concepts adopted in International curriculum and Tutoring Videos by experts.

## ECE - DEPARTMENT MEETING



**Dr. S. Sophia**, Head of the Department, ECE convened a meeting with the faculty members on **16.04.2020** via zoom cloud. Factors like student Engagement, Upcoming semester preparedness, Faculty knowledge Up gradation, placement training, Conduct of webinar and online guest lectures were the points discussed.



## SOM - DEPARTMENT MEETING



**Dr.P.Thamaraiselvi,** HoD,  
School of Management convened a Department meeting on 04.04.2020 15.04.2020 with the faculty members on II year Project review and Research proposal submission.

## CIVIL – DEPARTMENT MEETING

**Dr.D.Maruthachalam,** HOD convened a meeting on 15.04.2020 to discuss the AICTE -NITTTR Module Registrations status, Faculty Publication, Online course/FDP/Membership updates, Upcoming semester design project and guide selection process.



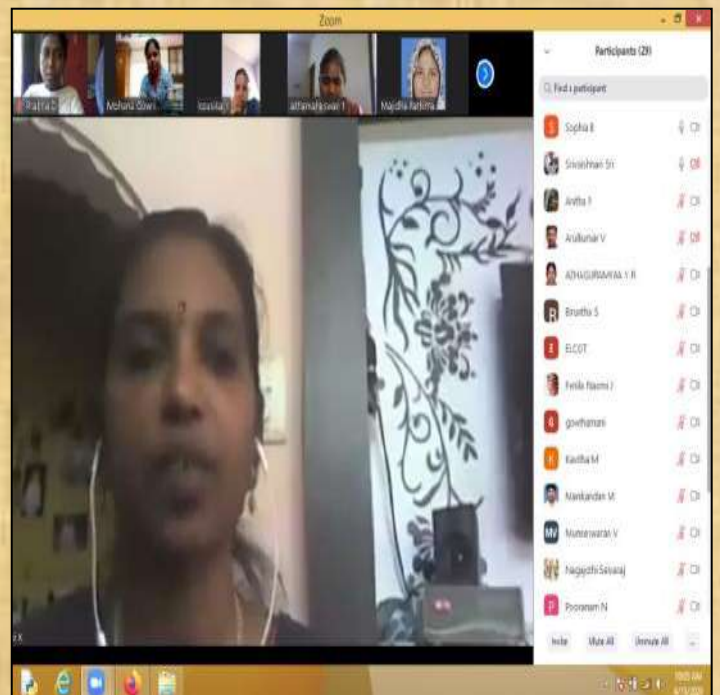
## MCT - DEPARTMENT MEETING



Dr.T.A.Selvan, Head of the Department, **MCT** convened a meeting with the faculty members through Zoom call on 15.04.2020 to discuss the academic and research activities.

## CSE – DEPARTMENT METING

Dr. K. Sasi Kala Rani, Head of the Department, **CSE** convened a meeting to discuss the activities of the week on 13.04.2020. Conduct of Webinars for Students/Faculty, III Year - Placement Training Monitoring, R&D Publication Status and IIC Activities Status were discussed.



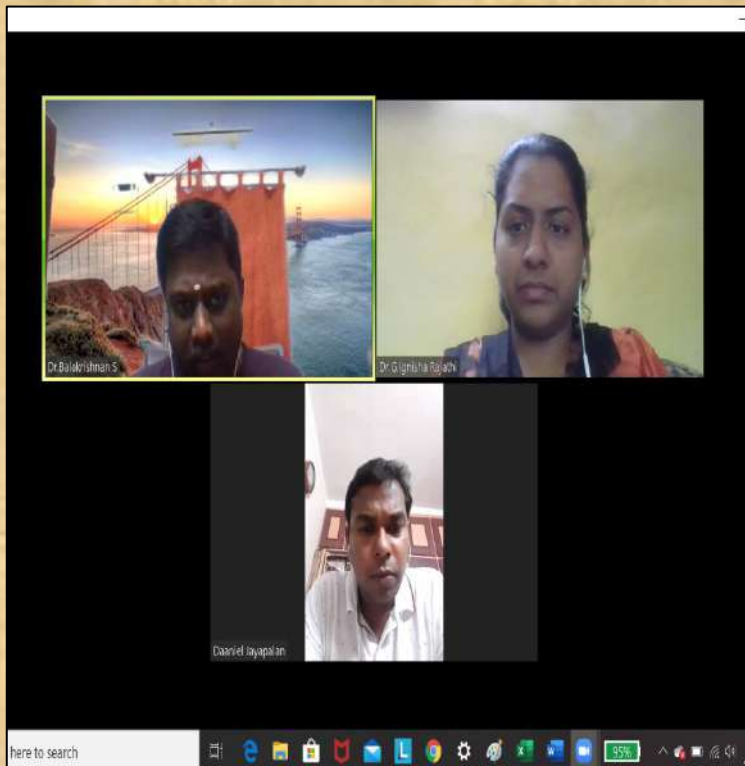


## MECH - DEPARTMENT MEETING



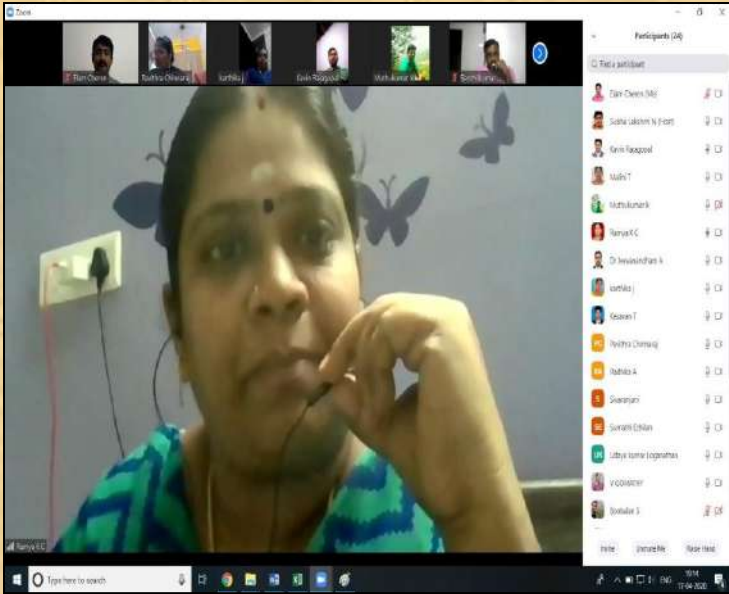
**Dr. P.Ashoka Varthanan,** HoD, Mechanical Engineering Department convened a meeting with the faculty members on 15.04.2020. Organizing industry based webinar and Progress of Online workshops and FDPs were discussed.

## CSBS - DEPARTMENT MEETING



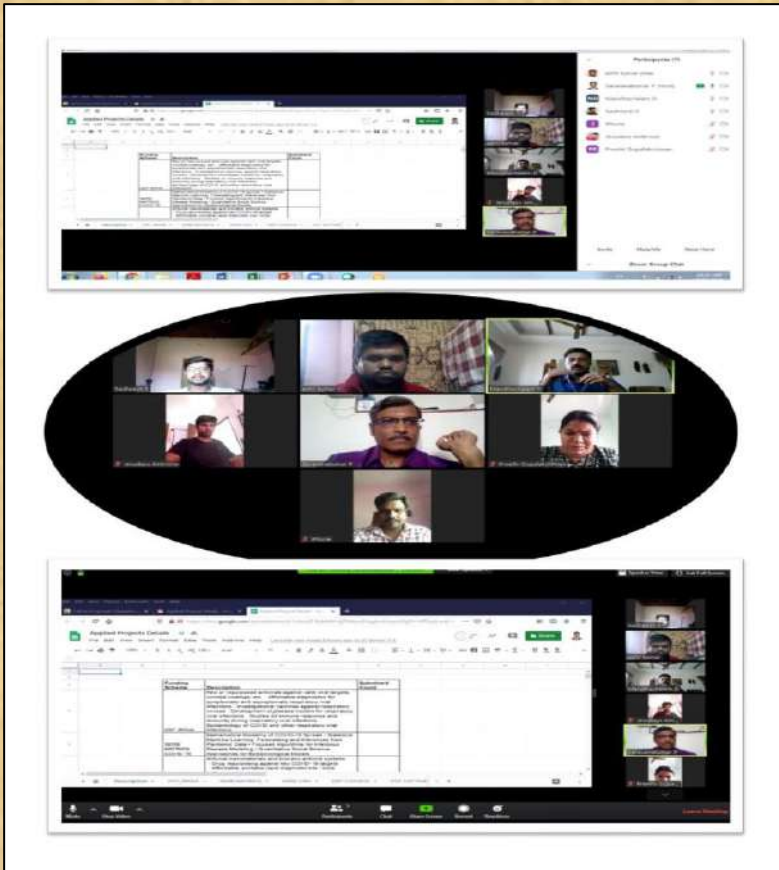
**Dr.S.Balakrishnan,** HoD-CSBS, conducted a meeting on 17.04.2020 with the faculty members through Online mode – Zoom and the discussions were on Curriculum finalisation, Pro, Video creation for awareness - Students Team and Webinar series for the forthcoming week.

## EEE - DEPARTMENT MEETING



**Dr.K.C.Ramya**, HoD, EEE convened meeting with the department faculty members through video conferencing mode. The ongoing schedule of IIC activities, Webinars, Online coaching classes, Placement training, Upcoming semester preparedness and Faculty progression activities were discussed on 17.04.2020

## CIVIL - DEPARTMENT R & D MEETING



Civil Department R&D meeting was hosted by the coordinator through online by 10:00 am today (18.04.2020).



## IT – DEPARTMENT MEETING



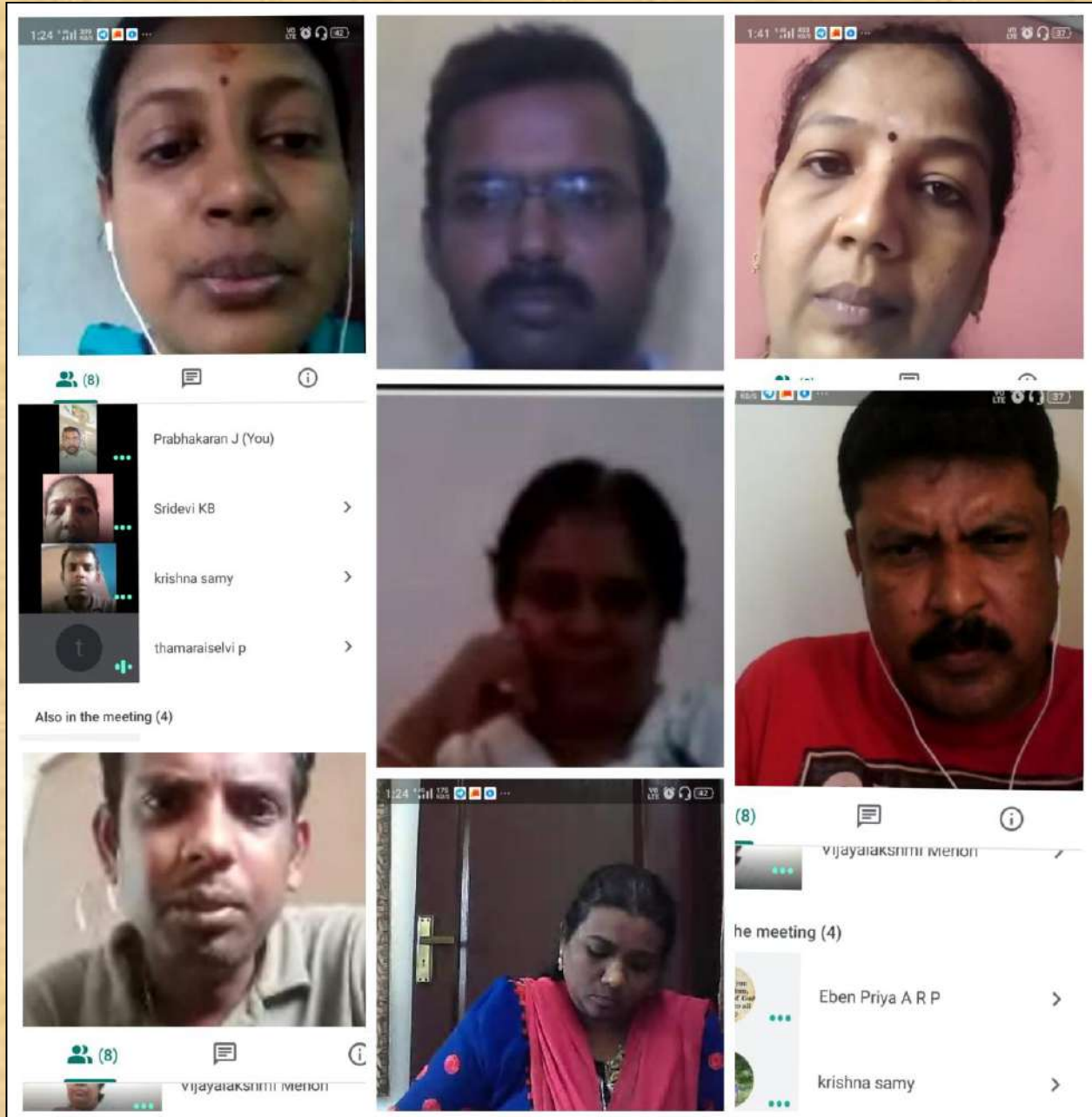
**Dr. N.Susila**, Head of the Department, Information Technology, organized a meeting with faculty members through zoom app on 17.04.2020 to discuss the academic and research activities.

## S& H - DEPARTMENT MEETING



**Dr.V.Ragavi**, HOD, Department of Science and Humanities convoked a faculty meeting on 17<sup>th</sup> April, 2020. The discussion focused on Budget for the upcoming academic year, USVA Activities, Online FDP and Certification Course, SAMADHAN – Mea Online challenge, Project Proposals, Webinars and Syllabus revamping.

## SOM – DEPARTMENT MEETING



**Dr.P.Thamaraiselvi**, HoD, School of Management conducted a department meeting on 17/04/2020 to review the following points: Online lecture classes, Webinar schedules, II year project review, online certification programs for students and faculty .





## WEBINARS ON CORE ENGINEERING



**e - Academia – Special Edition II**

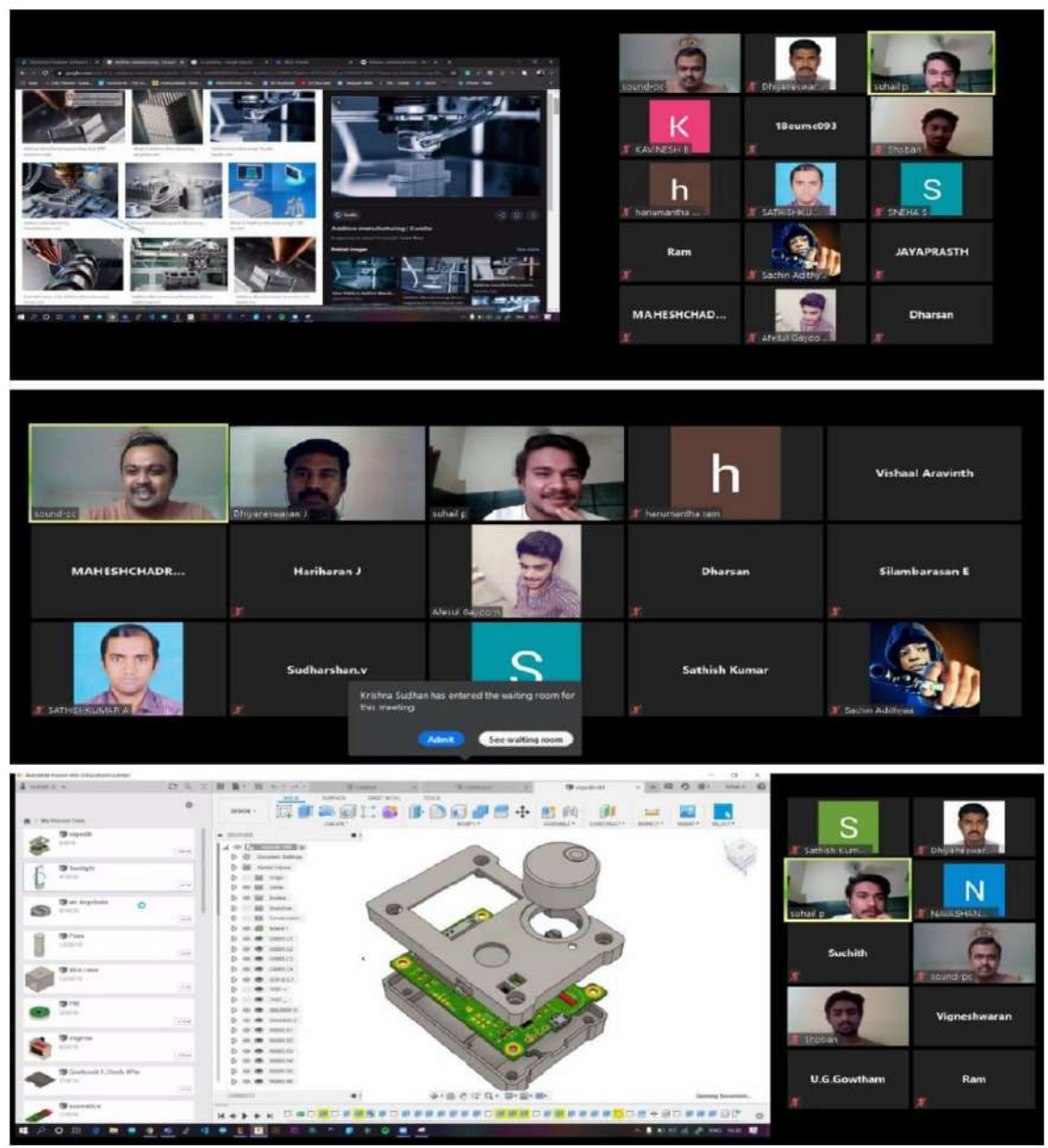
## EEE - IEEE - POWER ELECTRONICS SOCIETY WEBINAR



The faculty members from the Department of **EEE** attended the Online Webinar organised by **IEEE - Power Electronics Society (PES)** on the topic '**Fast EV Chargers using Three phase LLC Converter**' on 15.04.2020. **Prof. Sayed Abbas Arshadi** and **Prof. Martin Ordonez**, University of British Columbia, Canada were the resource people of the session.

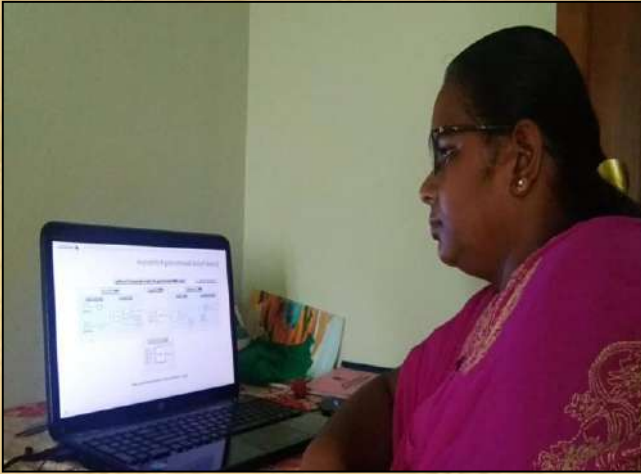


# MECH -INTRODUCTION TO 3D MODELLING USING FUSION 360



Department of **Mechanical Engineering** organized a webinar on "**Introduction to 3D Modelling using Fusion 360**" on 15.4.2020. **Mr.P.Suhail**, Co-Founder, Fab-Lab Graduate was the resource person. The discussion was on Fusion 360 software and Additive Manufacturing with a case study. Faculty and students actively participated in the session.

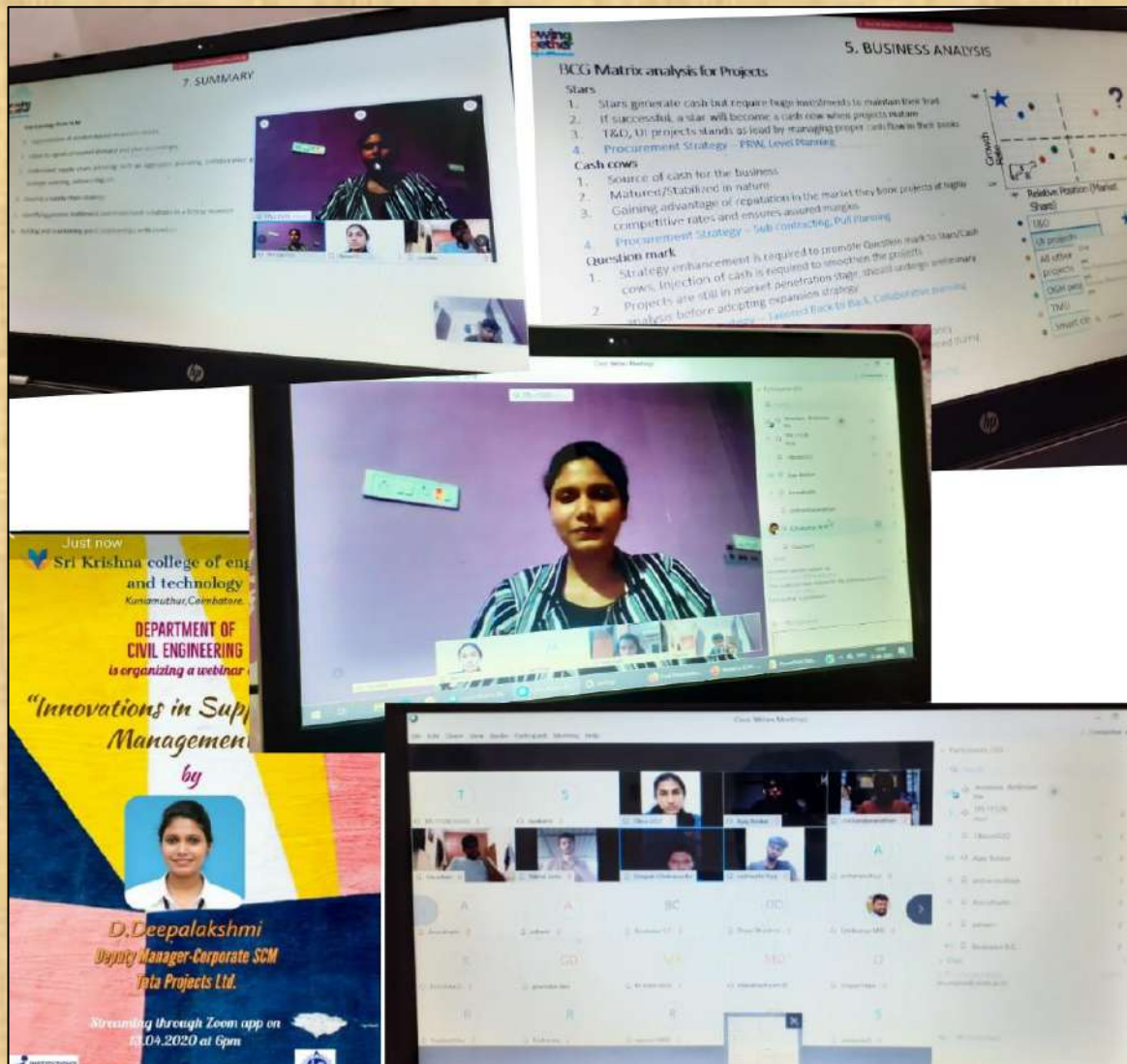
## ECE – 5G HYBRID BEAMFORMING DESIGN



The Department of ECE organized an online webinar on the topic "**5G Hybrid Beamforming Design**" on 16.04.2020 and was delivered by **Dr.Houman Zarrinkoub**, Senior wireless product manager, Mathworks. The key take-aways of this webinar were 5G waveform generation , Channel modeling and spatial multiplexing, Antenna arrays design and visualization , Approach to hybrid beam forming , Design of RF front end and matching network.



## CIVIL – INNOVATION IN SUPPLY CHAIN MANAGEMENT



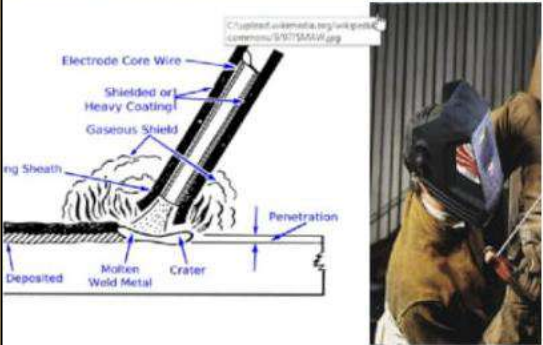
The Institution's Innovation Council of SKCET and Department of **Civil Engineering** organized a webinar on **“Innovation in Supply Chain Management”** which was streamed through Zoom on 13.04.2020. **Ms.D.Deepalakshmi**, Deputy Manager -Corporate SCM, Tata Projects Ltd, **Prominent alumni** of the Department was the resource person. The process of risk associated in supply chain management of a project and optimizing price dynamically by improving and monitoring the inventory system were some of the topics discussed.

# S&H - TIPS AND TRICKS FOR WELDING



Manikandan Manoharan (host)

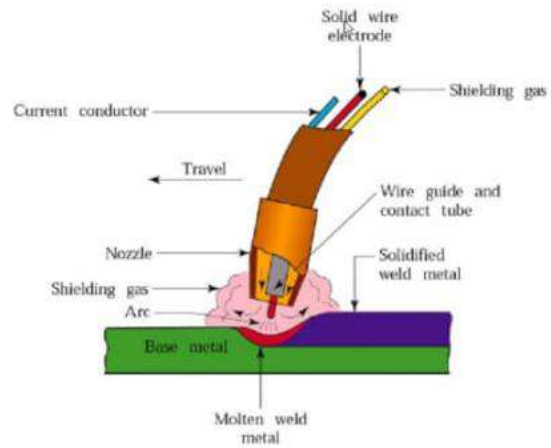
### Shielded Metal Arc Welding (SMAW) or MMAW or Stick w



coating of the electrode disintegrates, giving off vapors, shielding gas and providing a layer of slag, both of which protect the weld from atmospheric contamination.

Protection → Deoxidation → Arc stabilization → Metal ad

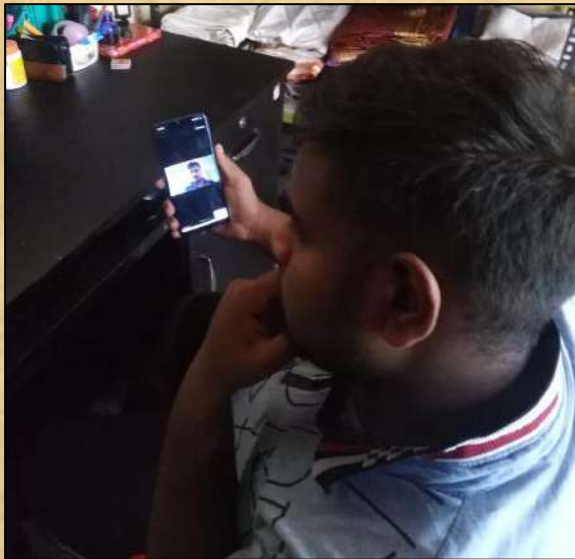
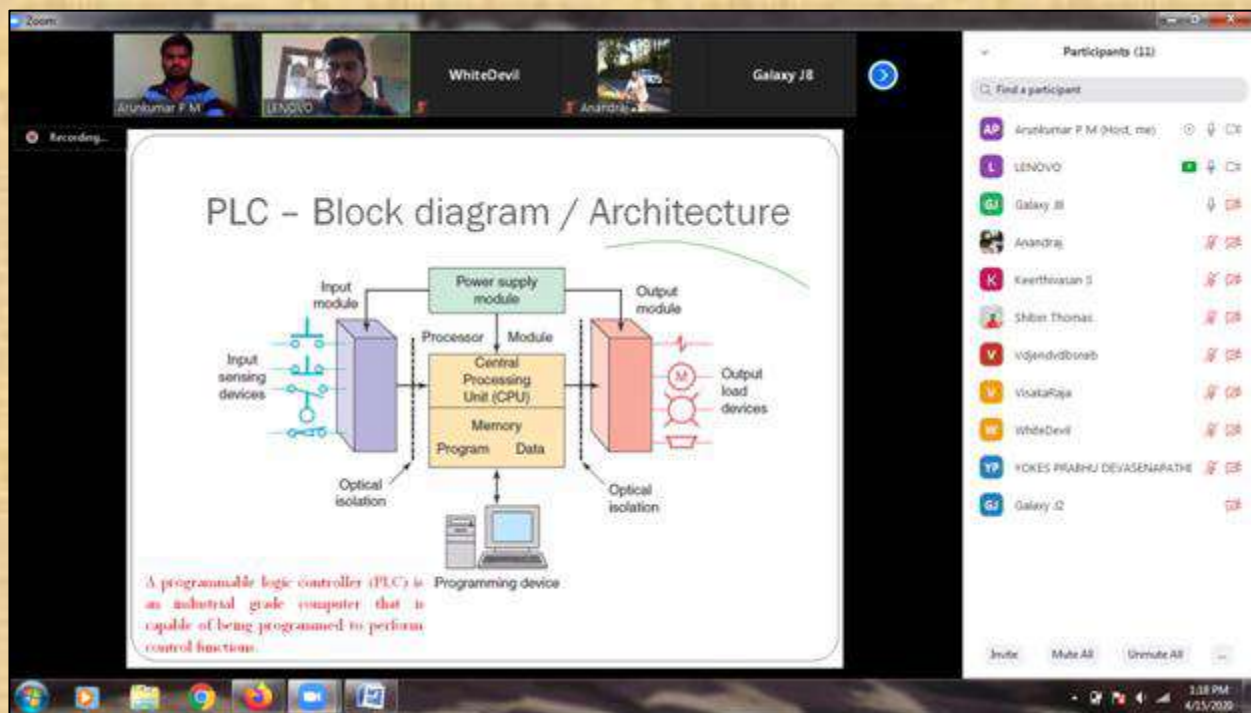
### Basic Welding Gun



A Webinar was organized for the First year **Mechanical Engineering** students on **Tips and Tricks for Welding** on 15.04.2020 **Dr.Manikandan**, Associate Professor, VIT, Vellore was the resource person of the session.



## MCT –PROGRAMMABLE LOGIC CONTROLLER



The Department of Mechatronics Engineering organized a webinar on **Programmable Logic Controller** through zoom online application on 15.04.2020. **Dr.T.Mohanraj** from Amrita School of Engineering was the speaker. Second and Third year students gained knowledge on Block diagram of PLC, Programming concepts and Wiring of PLC.

## EEE - SOLAR HEAT AND ELECTRICITY - PVT SOLUTIONS FOR BUILDINGS AND INDUSTRY

The collage consists of three main parts:

- Top Left:** A grid of approximately 20 small video feeds showing participants in a virtual meeting.
- Top Right:** A presentation slide titled "Applications: wide typology of clients, and systems" with the logo "TASK30". It lists various applications: Individual homes (DHW, Pools), Multihouse building, social housing, Schools, Campsites, restaurants and hotels, Public pools, gymnasium, Establishments, Direct SDHW, Direct pool heating, Direct glycol to heat pump, and Cold side storage to heat pump. Each application is accompanied by a small image of the respective building or system.
- Bottom Left:** A webinar banner for Sri Krishna College of Engineering and Technology. It states: "SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY (AN AUTONOMOUS INSTITUTION, ACCREDITED BY NAAC WITH 'A' GRADE) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING". The webinar title is "Solar heat and electricity: PVT solutions for buildings and industry". The date is 15.04.2020 and the time is 2:00 pm. The speaker is Mr. Jean Christophe Hadorn, CEO of Solar energies and strategies, Switzerland. Logos for Sri Krishna Institutions and the Institution's Innovation Council are also present.
- Bottom Right:** Another grid of video feeds, similar to the top left, showing more participants.

Department of **EEE** organised a Webinar for **II** year EEE students on **Solar Heat and Electricity - PVT solutions** on 15.04.2020 for buildings and Industry by **Mr. Jean Christophe Hadorn**, CEO-Solar Energies and Strategies. The expert discussed the overview of PVT Systems, Cost Limit, Proper energy monitoring systems and low carbon buildings.



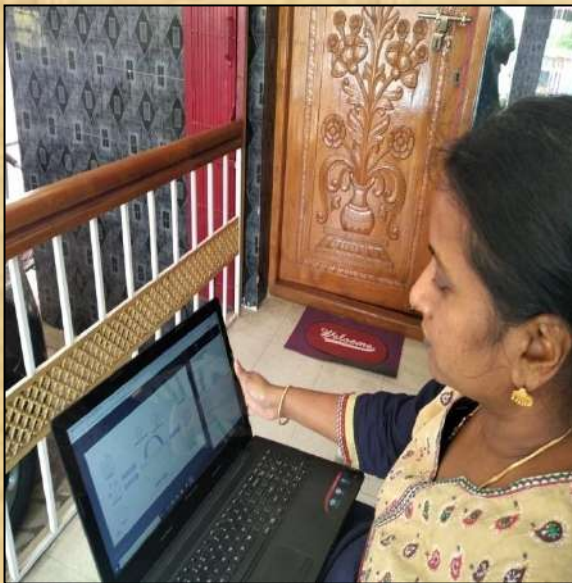
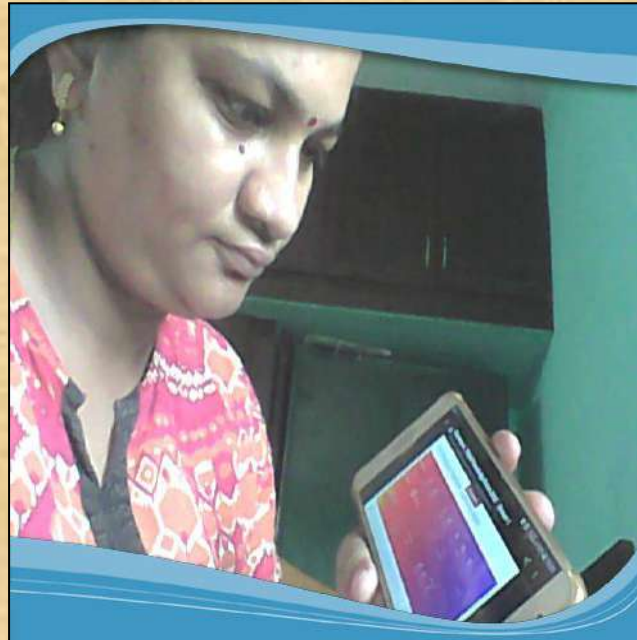
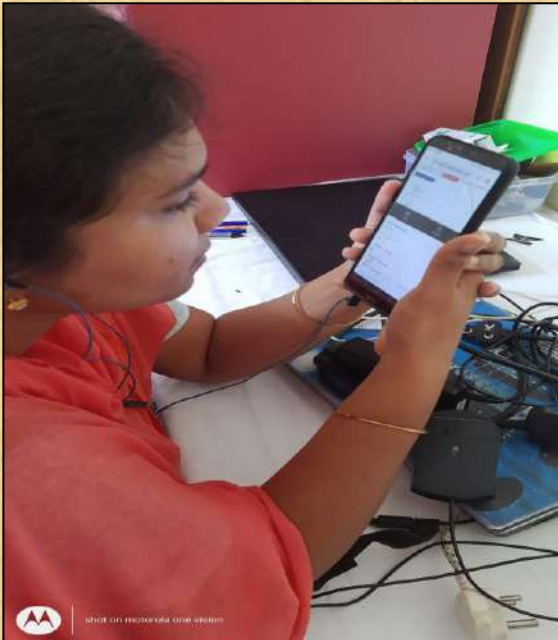
## MECH - ENTERING A NEW ERA USING SIMULATION TECHNOLOGY FOR AIRCRAFT ELECTRIFICATION



Department of **Mechanical Engineering and ANSYS** organized a webinar on the topic "**Entering a New Era Using Simulation Technology for Aircraft Electrification**" on 13.04.2020. **Ms.Sreedevi Krishnan**, Lead Engineer, ANSYS was the resource person of the event. She discussed the application of simulation in aircraft electrification, aerodynamic design and fuel cells. Faculty and students actively participated in the session.



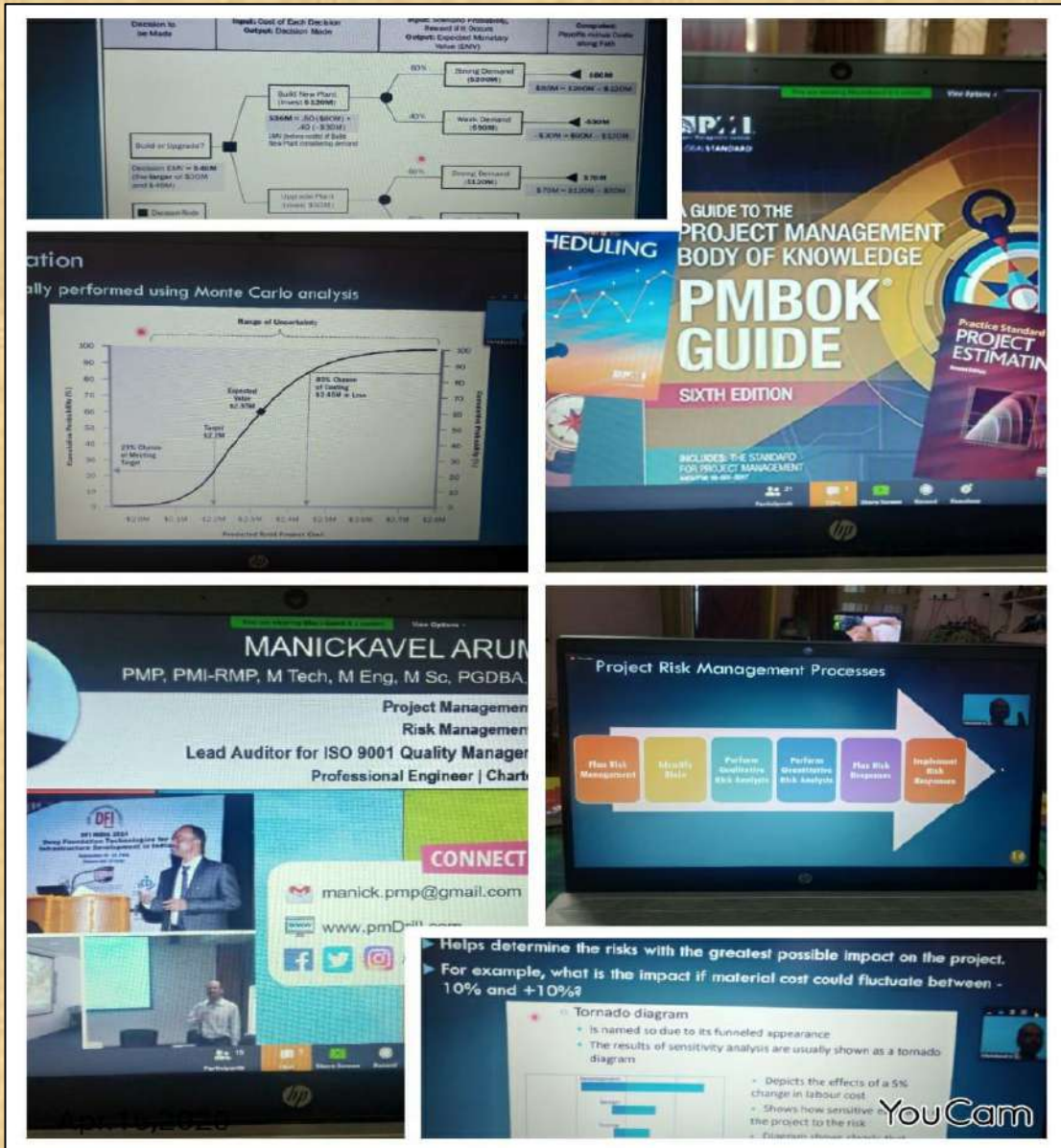
## ECE –SEMICONDUCTOR POWER VALIDATION



Faculty and Students of ECE department attended a webinar on the topic **Semiconductor Power Validation** on 15.04.2020. Resource person was **Mr. Mike Watts**, Senior Solutions Marketer, National Instruments. The Highlights of the topic were optimizing semiconductor power, Performance validation, Instrumentation and S/W Deep dive.

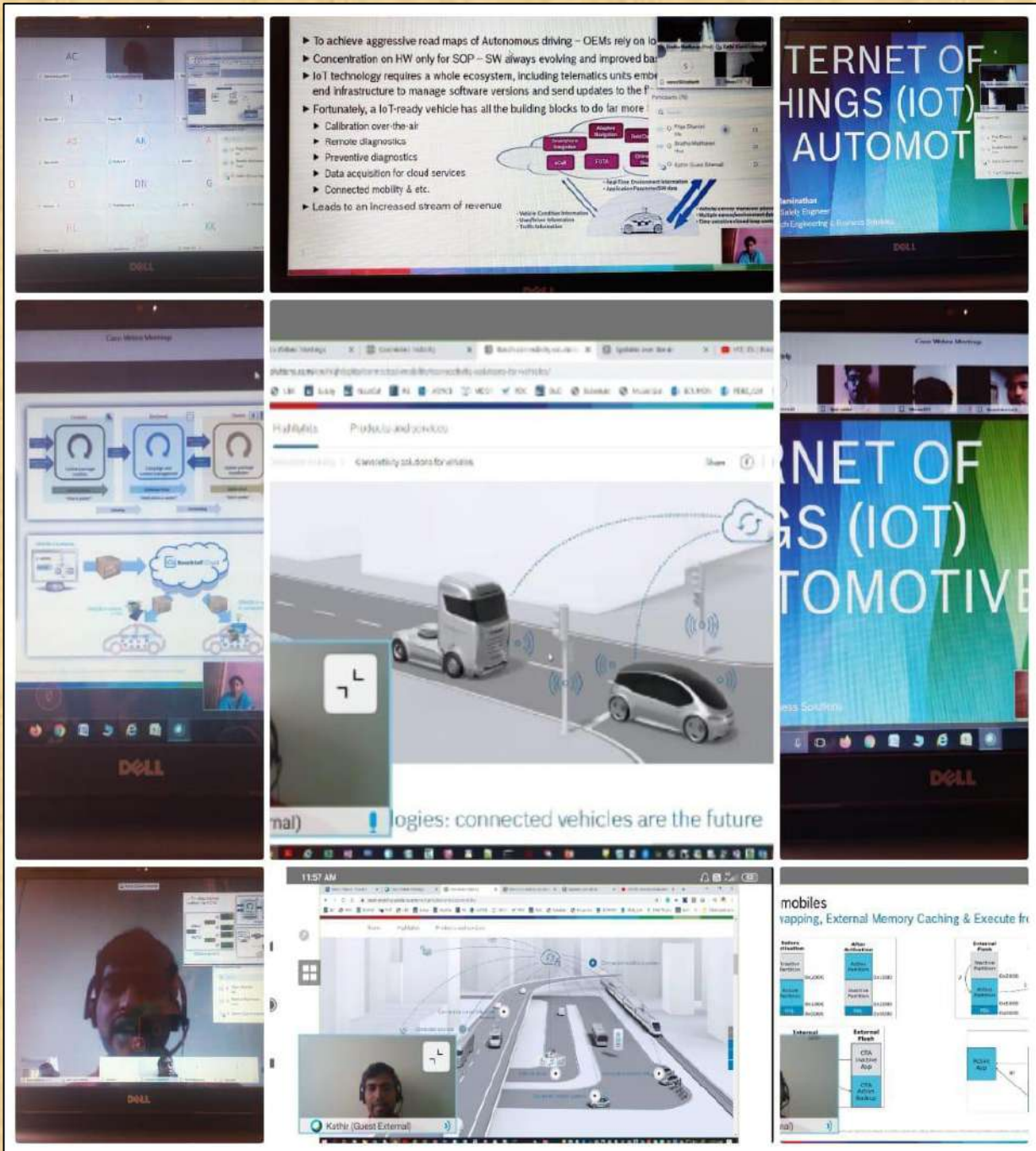


# CIVIL – RISK MANAGEMENT



Department of **Civil Engineering** organized a webinar on “**Risk Management**” on 16.04.2020. The resource person **Mr.Manikavel Arumugam PMP, PMI-RMP, Project Management Trainer and Consultant, Chennai** explained the importance of PMBOK and ten knowledge area's in construction management. He further emphasized the risk registration to risk transfer and mitigation in construction projects.

# S&H –IoT IN AUTOMOTIVE INDUSTRIES



A Webinar was organized for the First year **Electronic Communication Engineering** students on **IoT in Automotive Industries** on 14.04.20. **Mr.Karthivel**, Project Engineer, Robert Bosch was the resource person of the session.

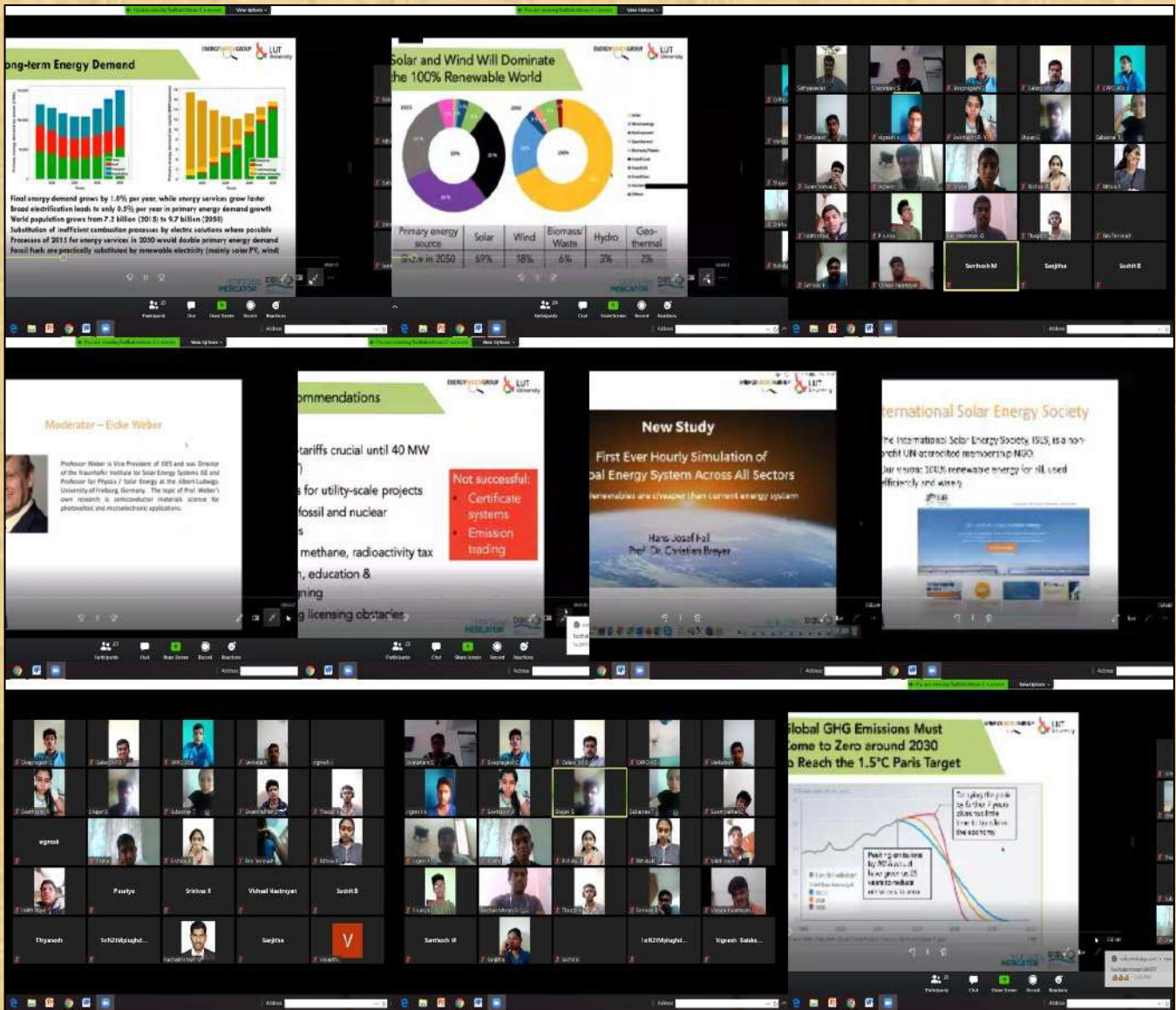


## MCT –VISION SYSTEMS



The Department of **Mechatronics Engineering**, organized a webinar on "Vision system" on 12.4.2020. **Mr.C.Leander Jones**, Assistant Manager, Manufacturing Engineering, HMIL, Chennai shared his expertise on introduction to Vision system with types and components, Basic working procedure with case study example. The session helped the students to get a clear view on how vision system used in industry.

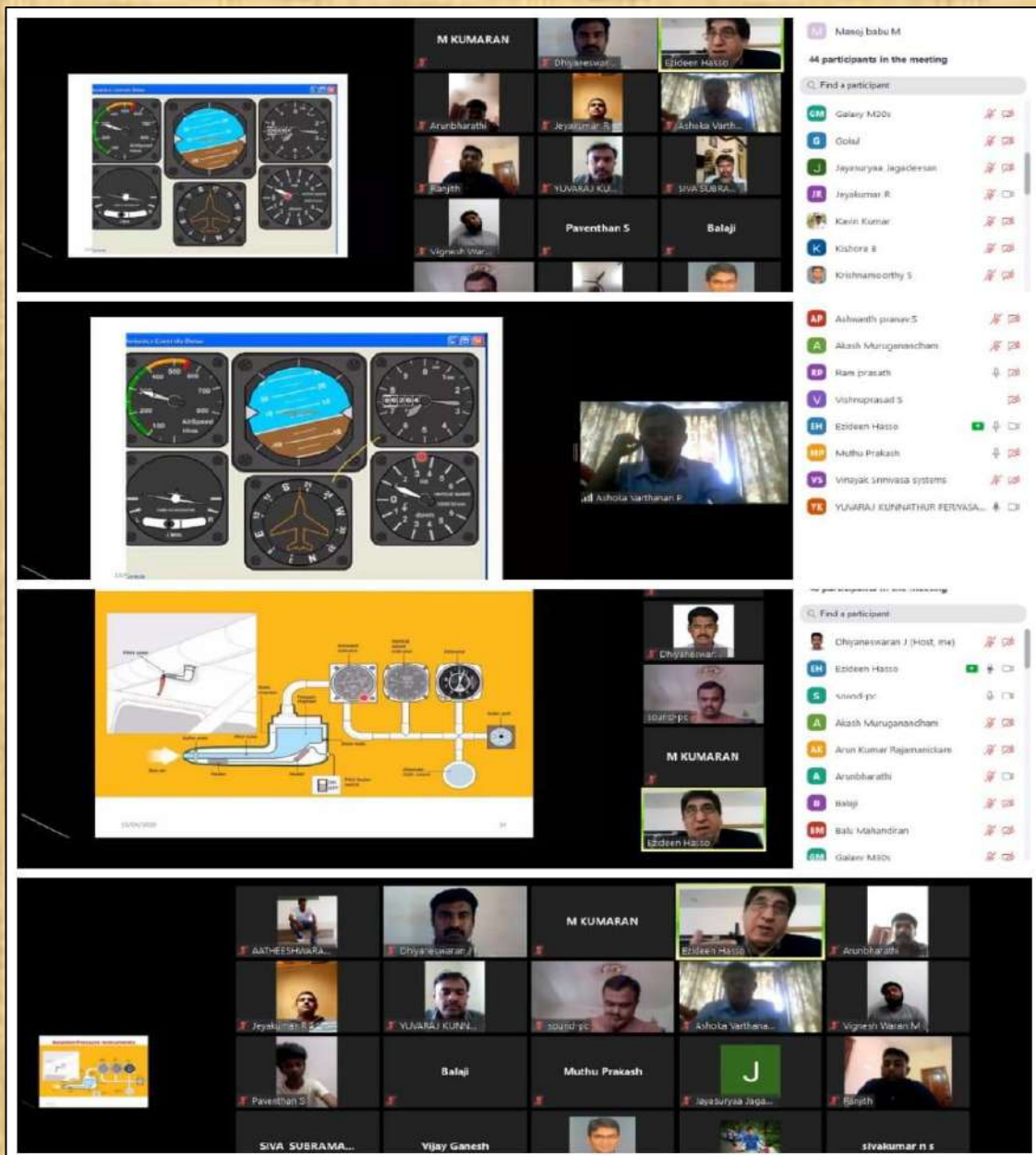
# EEE - GLOBAL ENERGY SYSTEMS



Students of **EEE** Department attended a webinar on '**Global Energy Systems**' by **Dr. Christian Breyer**, Solar Economy-LUT University, Finland. Technology-rich renewable energy systems, Renewable transition, Zero emission energy system, Comprehensive electrification in energy sectors were some of the key points discussed.



## MECH –AIRCRAFT INSTRUMENTS



Department of **Mechanical Engineering** organized a webinar on "**Aircraft Instruments**" on 15.4.2020. **Dr.Ezideen A Hasso**, HOD, Mechatronics Engineering, TISK International University, Iraq was the resource person. He discussed the Aircraft Instruments Design and its applications. Faculty and students actively participated in the session.

# CIVIL –NOMINAL CONCRETE MIX

**MIX PROPORTIONING**

Mix proportions shall be selected to ensure the workability of the fresh concrete and when concrete is hardened, it shall have the required strength, durability and surface finish.

Determination of the proportions shall be made by

- By designing the concrete mix (design mix concrete)
- By adopting nominal concrete mix ( nominal mix concrete)

14 April, 2020

**Ingredients of concrete and their Uses**

Ingredient	Function	Generally used Material	Generally used Size
Coarse aggregate	Primary Filler	Broken natural stone	>4.75 mm
Fine aggregate	Secondary Filler, Influences workability	River sand, quarry fines	<4.75 mm
Binder	Binding of aggregates, Durability	cement	300 m <sup>3</sup> /Kg
Water	Hydration, workability	water	#####
Admixtures / Additives	To enhance / alter performance	Numerous types	#####

ACCE (I) - Coimbatore 14 April, 2020

**Webinar on "Nominal Concrete Mix"**

**WHAT IS CONCRETE ?**

- \*To a Civil Engineer / Designers ...
- It is a building material which is generally strong in compression and weak against tension. It is plastic, workable when in fresh state and attains strength and stiffness on hardening.
- \*To a Concrete Maker ...
- It is a homogeneous mixture of aggregates (Coarse and Fine) with a binder and water with or without admixtures or additives. The quality and quantity of ingredients are based on requirements of behaviour in the fresh and hardened state. The proportions of the ingredients are usually measured and mentioned in terms of equivalent measures of the binding material (cement).

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**

**Department of Civil Engineering**

**Webinar on "Nominal concrete Mix"**

**Dr. A. Sudhakar, Chief Consultant, DIMENSIONS, Coimbatore**

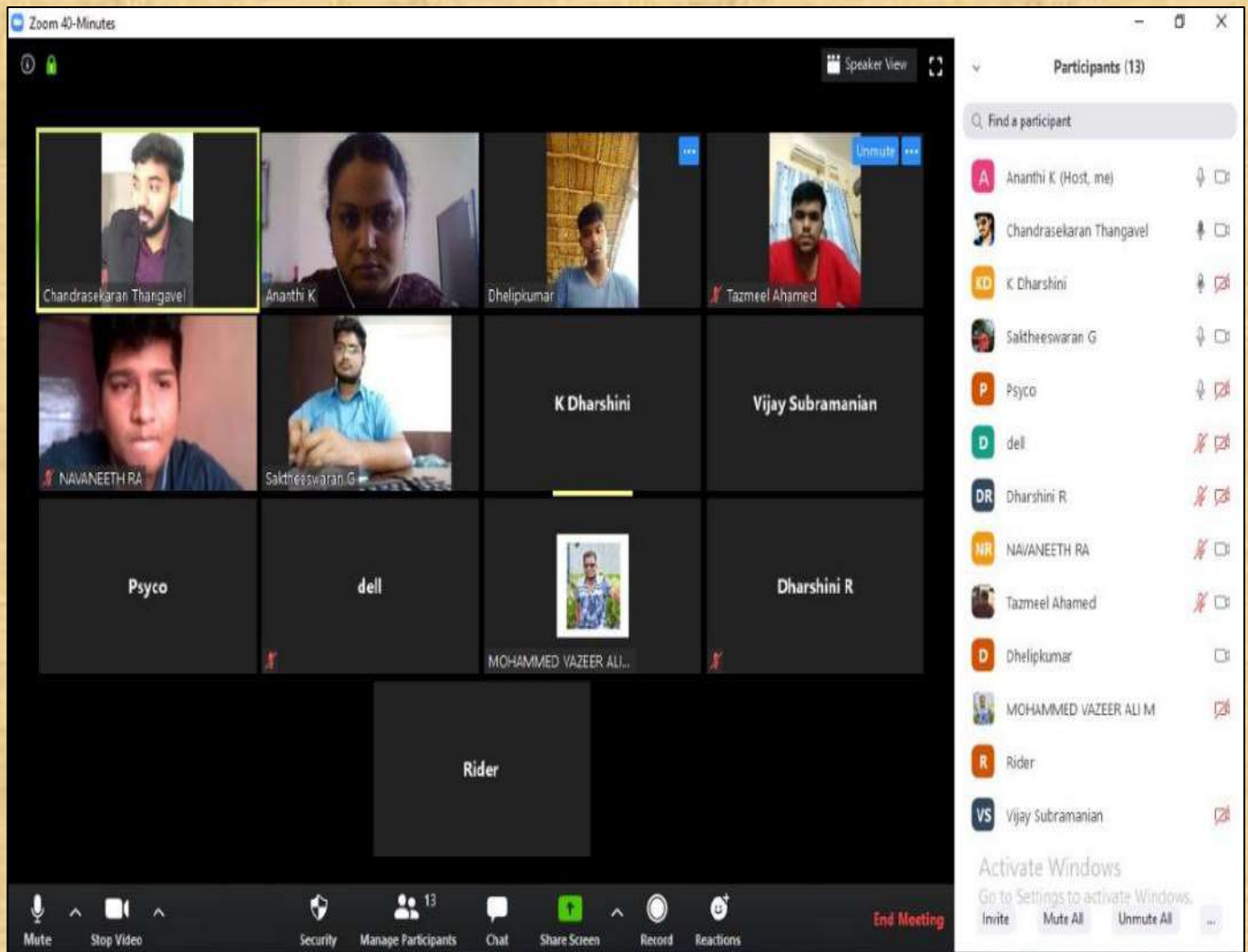
**Streaming via Webex on 14th April, 5:30 PM**

Concrete is the most abundantly used building material !!!

The Department of **Civil Engineering** in association with the **Institution's Innovation Council** conducted a webinar on '**Nominal Concrete Mix**' by **Dr.A.Sudhakar, Chief Consultant, Dimensions, Coimbatore** which was streamed through Webex on 14.04.2020. The discussion was on the minor changes and its implementation which results in reduction of total project cost.

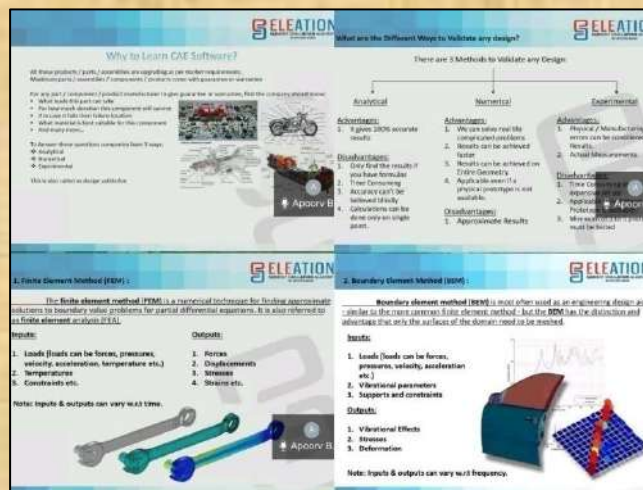
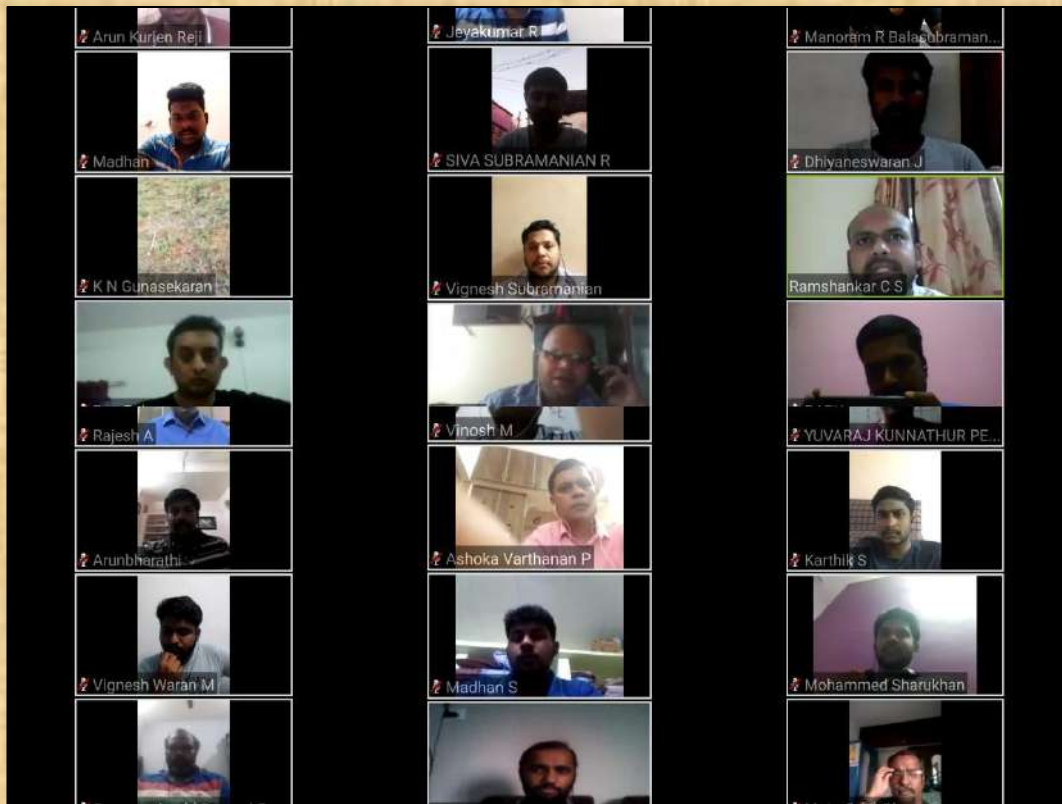


## MCT –VEHICLE DIAGNOSTICS



Department of **Mechatronics Engineering** organized a webinar on '**Vehicle Diagnostics**'. Mr. T. Chandrasekaran, Associate project manager, Robert Bosch Bangalore effectively spoke about different diagnostics methods of vehicle through online zoom application. Students actively participated and gained knowledge on vehicle diagnostics.

## MECH - SCOPE OF CAE IN CORE INDUSTRIES



Department of **Mechanical Engineering** organized a Webinar on "**Scope of CAE in Core Industries**" on 14.04.2020. **Mr.ApoorvBapat**, Founder & CEO of ELEATION Simulation Academy, Pune was the resource person. He discussed the Computer Aided Engineering and role of analysis in designing engineering components.



# EEE - BATTERIES FOR ELECTRIC VEHICLES

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE**  
An Autonomous Institution  
Accredited by NAAC with 'A' Grade, Accredited by NBA, Affiliated to Anna University,  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Webinar  
**Batteries for Electric Vehicles**  
by  
Dr. Parveen Kumar, Senior Manager, Cities and Transport, WRI India  
Streaming through Zoom web Application  
Date: 16.04.2020 Time : 10.00 am

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE**  
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
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**Batteries for Electric Vehicles**  
by  
Parveen Kumar, Senior Manager, Cities and Transport, WF  
Streaming through Zoom web Application  
Date: 16.04.2020 Time : 10.00 am

**Understanding Batteries for Electric Vehicles (EV): Technology and Performance**

**Complex Fuel Tank**  
Complex parts  
High Cost

**Simple Battery**  
Simple parts  
Low Cost

Grid → V2G Unit → Electric

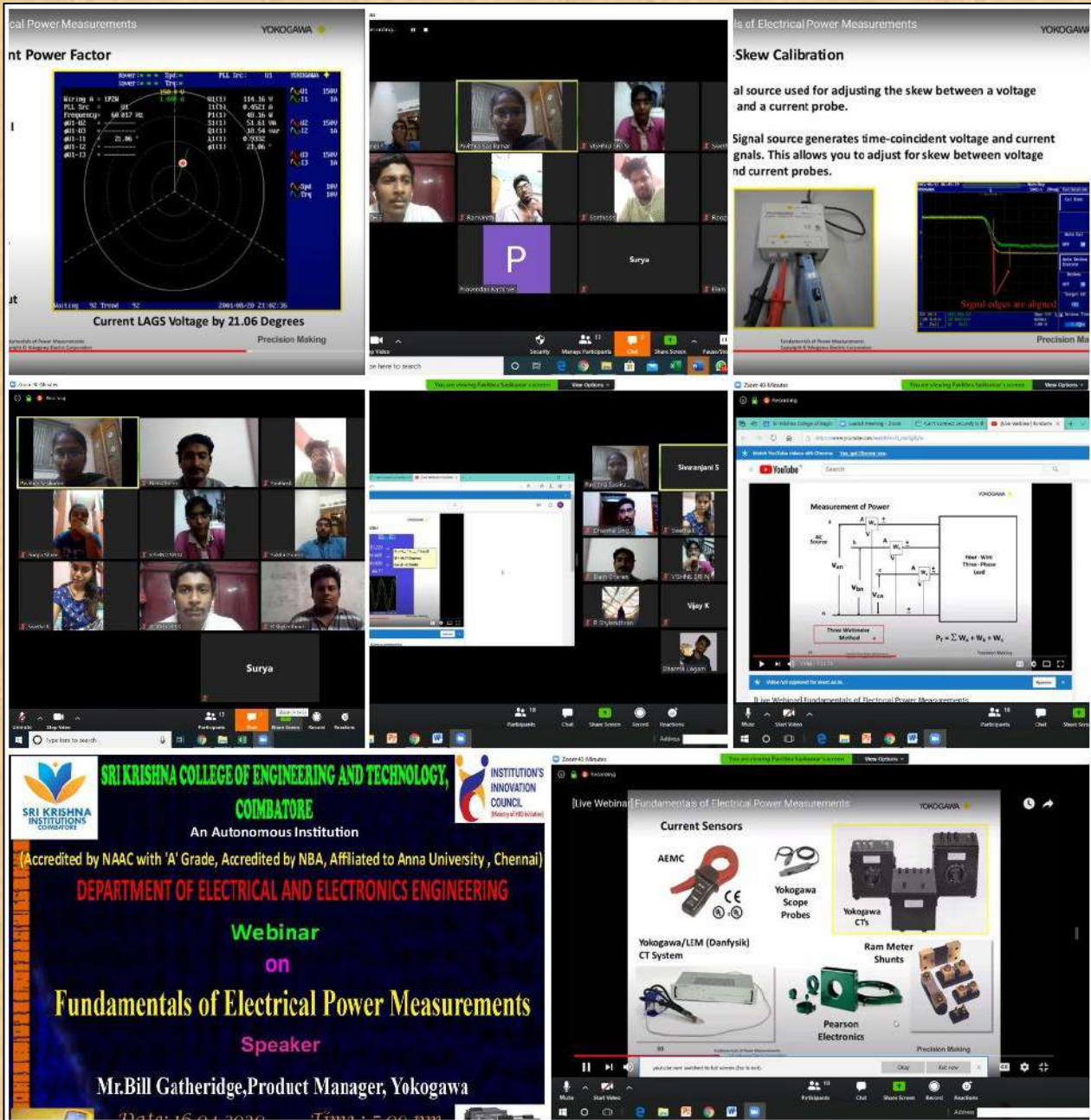
Department of **EEE** organized a webinar on "**Batteries for Electric Vehicles**" on 16.04.2020. **Dr. Parveen Kumar**, senior manager at WRI India under Cities and Transport program was the resource person. Preferred type of battery for electric vehicles, Safety of EV batteries, Future enhancement of EV batteries and Environmental impacts of EV batteries were some of the key points discussed.

## MECH - FOUNDRY 4.0

The **Institute of Indian Foundrymen** students' chapter of **Mechanical Engineering** Department organized a Webinar on "**Foundry 4.0 – Opportunities and Challenges**" on 13.04.2020 through Webex app. **Dr.NithyanandanDevaraaj**, Chief Executive Officer – Foundries, CRI Groups, Coimbatore was the resource person of the event. He delivered the lecture to the II year students and faculty members and highlighted the evolution of industries, technologies used in Industry 4.0, implementation Strategies and impact of industry 4.0 on the manufacturing industries.

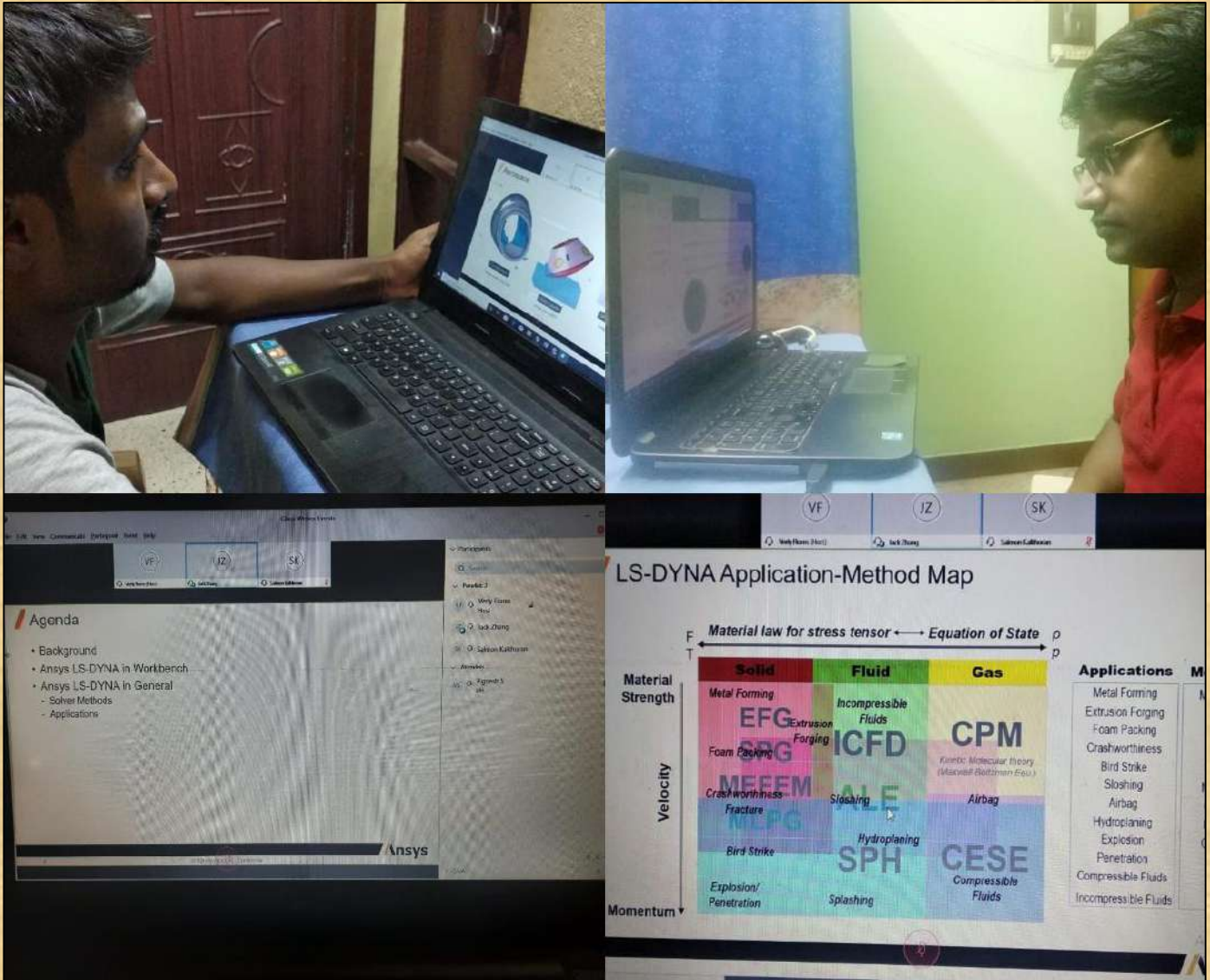


# EEE - WEBINAR ON FUNDAMENTALS OF ELECTRICAL POWER MEASUREMENTS



Department of **EEE** organised a webinar on '**Fundamentals of Electrical Power Measurements**' by **Mr. Bill Gatheridge**, Product Manager, Yokogawa. The expert discussed the Advanced Measuring Meters and Oscilloscopes, Power Analyzers and Power Factor Measurements.

## MECH - ANSYS LS-DYNA OVERVIEW



Department of **Mechanical Engineering** and **ANSYS** organized a webinar on topic "**ANSYS LS-DYNA Overview**" on 15.04.2020. **Mr. Jack Zhang**, Application Engineer, ANSYS was the resource person. He explained the importance of ANSYS LS-DYNA in explicit simulation program and it's capabilities of simulating the response of materials to short periods of severe loading. Faculty and students actively participated in the session.



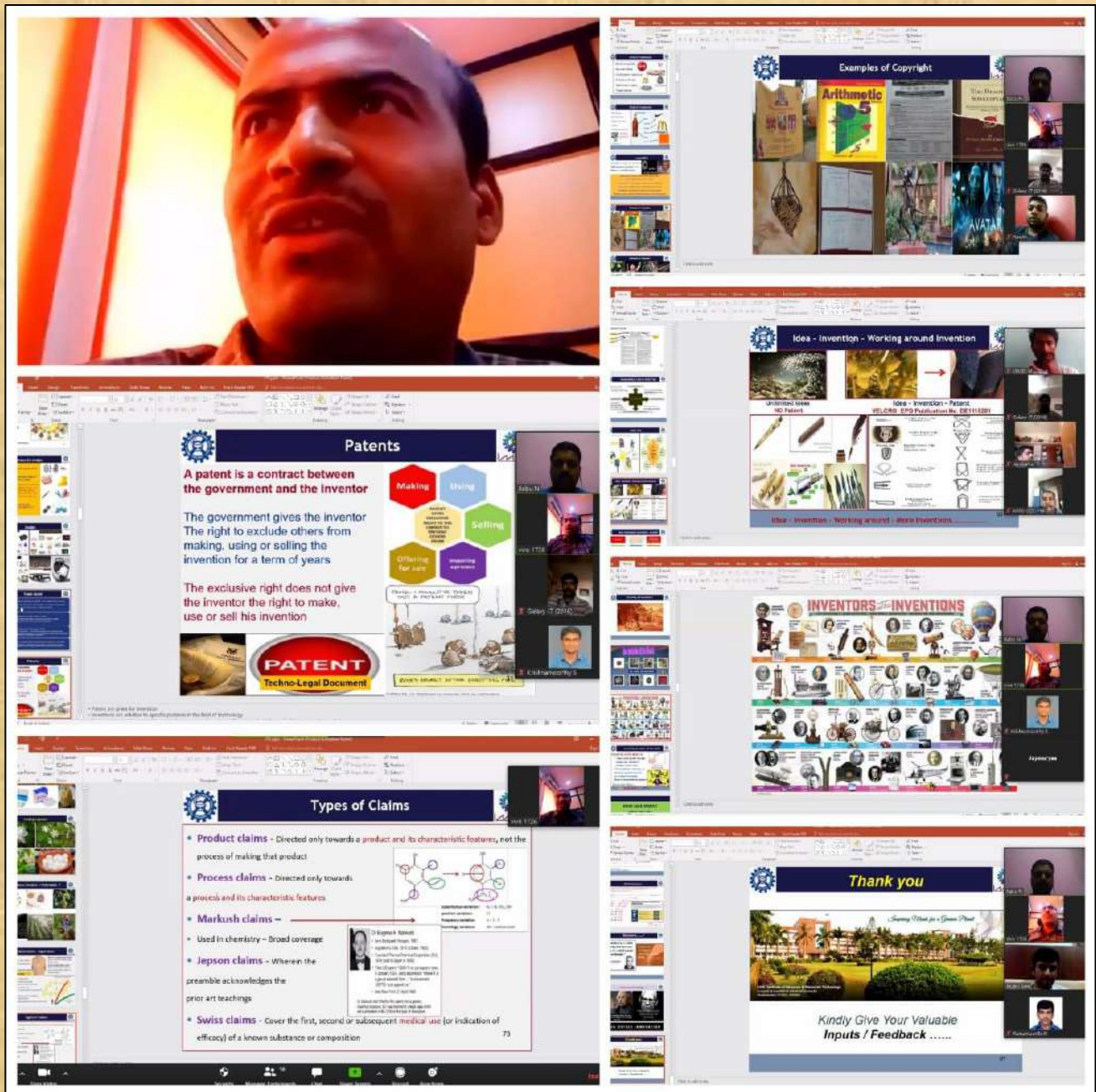
## EEE - SOLAR THERMAL HEAT FOR INDUSTRY PROCESSES



Students and Faculty members of **EEE** Department attended a Webinar on 'Solar Thermal Heat for Industry Processes' by **Mr. Steven Meyers**, International Solar Energy Society, Germany. Copper mining process, Solar Thermal steam for Pharmaceuticals and Process Integration were some of the key discussion points.



# MECH - IPR AND PATENT DRAFTING



Department of **Mechanical Engineering** organized a Webinar on "**IPR and Patent Drafting**" on 13.03.2020. **Dr.Pavan Kumar**, Senior Scientist, CSIR-IMMT, Bhuvaneshwar was the resource person of the webinar. He provided valuable insights on IPR and Patent Drafting to the students and faculty.



## EEE - MASTERING OSCILLOSCOPE



Department of EEE organised a Webinar on the topic '**Mastering Oscilloscope**' by **Mr. Jiri Keprda** , IPC Product Marketing for II EEE students on 17.04.2020. The resource person highlighted on Oscilloscope and Probing basics, Overview of Vertical systems, Channel input coupling and Effective ways to improve vertical resolution.

# MECH - WORK AT HOME: CONVICTIONS AND CHALLENGES

**WORK FROM HOME**  
CONVICTIONS AND CHALLENGES  
RANGARAJAN S. (ASST. MANAGER, FLSMIDT CHENNAI)

**WORK FROM HOME – A REALITY?**

- A double edged sword
- Pros:
  - Flexible schedule
  - Custom environment
  - Zero commuting – Bed to Desktop
  - No traffic
  - Save money
  - Cozy clothes
- Cons:
  - Power naps
  - Wifi power
  - Calling Uber/ eats / Zomato
  - Poor connectivity
  - The Waiting – ASAP

**RECOMMENDATIONS FOR PRODUCTIVE WORK FORCE**

1. Prepare a permanent place to work
2. Keep up your routine
3. Establish work schedule – to do list
4. Relevance of communication
5. Disconnect – at the end of the day
6. Use Lunch Time & 5-minute breaks
7. Minimize social network, friends and pets
8. Stay Motivated – Exercise, avoid junk food

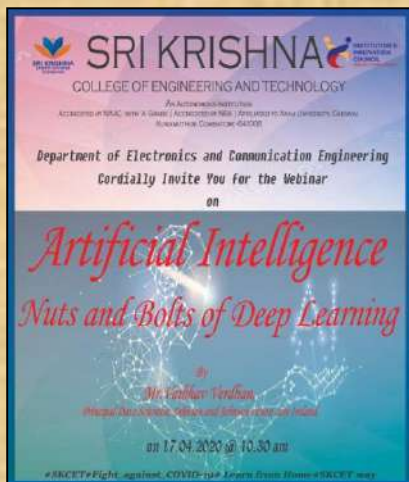
**USEFUL COURSES FOR UPGRADING YOURSELF**

1. Udemy
2. Upgrad
3. Harvard University
4. NPTEL
5. TATA – Capability development - Technical

Department of Mechanical Engineering organized a webinar on **"Work at Home: Convictions and Challenges"** on 17<sup>th</sup> April' 2020 from 5 PM to 6 PM. **Mr.Rengarajan**, Assistant Manager, FLSmidt was the resource person of the webinar. He clearly shared the challenges and solutions in work at home situation. He also motivated the student participants not to panic about their future and discussed the prospective employment opportunities.



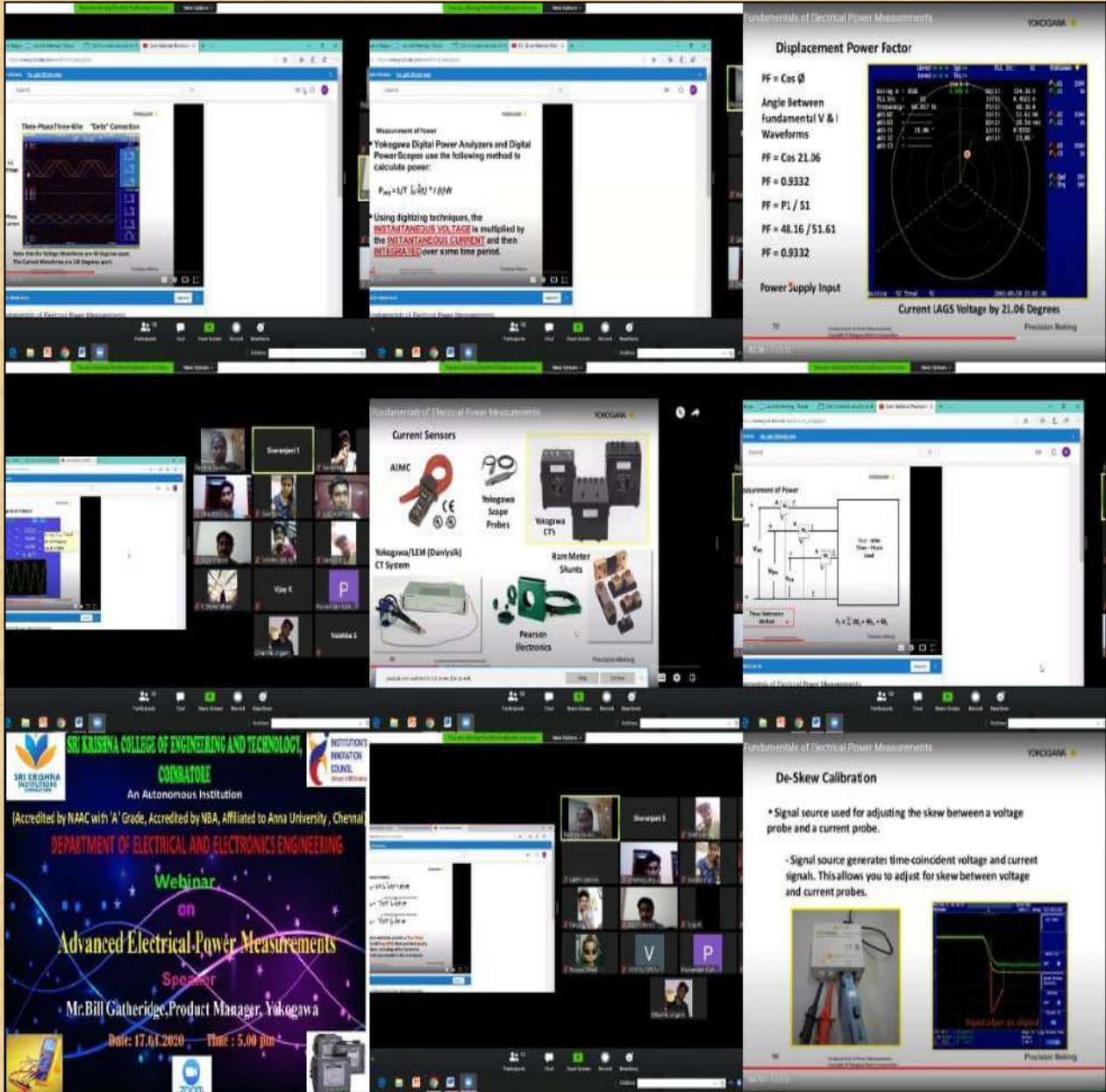
## ECE – ARTIFICIAL INTELLIGENCE: NUTS AND BOLTS OF DEEP LEARNING



The department of ECE, SKCET organized an online webinar on the topic **“Artificial Intelligence: Nuts and Bolts of Deep Learning”** on 17.04.2020 delivered by **Mr. Vaibhav Verdhan, Principal Data Scientist, Johnson and Johnson vision Care Ireland**. The key take-aways of this webinar were:

- Deep Learning is a friend. Use it judiciously
- You don't need to a mathematician to learn and implement DL
- There are tool and packages available to be used
- Practice practice and practice again

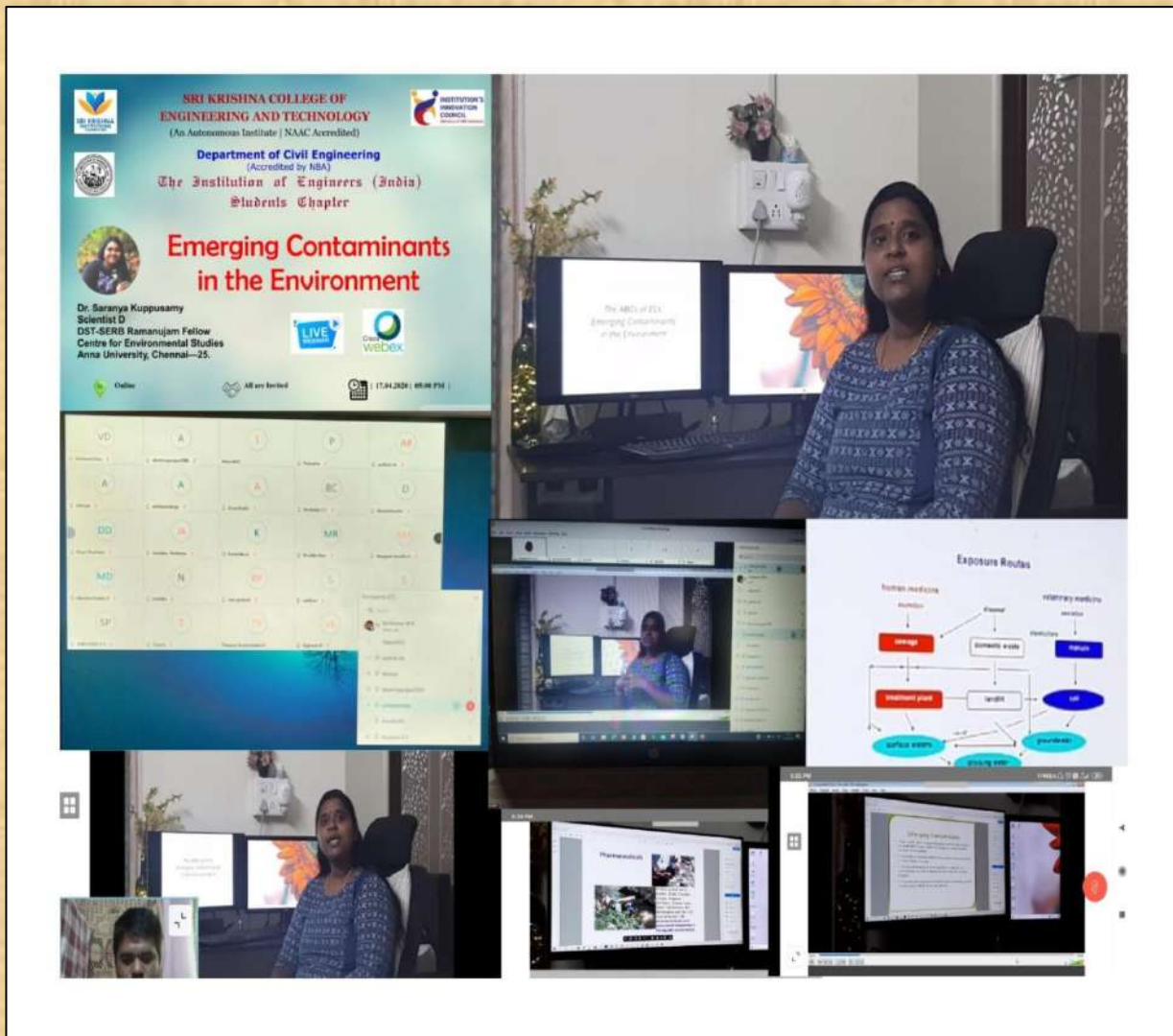
# EEE - ADVANCED ELECTRICAL POWER MEASUREMENTS



Department of EEE organized a webinar on '**Advanced Electrical Power Measurements**' by **Mr. Bill Gatheridge**, Product Manager, Yokogawa on 17.04.2020. The expert discussed the Advanced Measuring Meters and Oscilloscopes, Benefits of Power Analyzers and importance of Power Factor Measurements.



## CIVIL - EMERGING CONTAMINANTS IN THE ENVIRONMENT



Department of Civil Engineering under Institution of Engineers (India), Students Chapter, organised an online webinar on “**Emerging Contaminants in the Environment**”. The Spokesperson **Dr.Saranya Kuppusamy**, Scientist D (DST-SERB-Ramanujam Fellow), Centre for Environmental Studies, Anna University described about emerging contaminants, its sources and how it varies from conventional ones. Also, she emphasised the importance of research on emerging contaminants, and its health risk associated with human beings.

## MECH - AIRCRAFT COMMUNITY NOISE SOURCES



Department of Mechanical Engineering in association with DASSAULT SYSTEM SIMULI organized a webinar on the topic "**Identify Aircraft Community Noise Sources and Reduce its Impact using Simulia Fluids Solutions**" on 17/04/2020. **Mr. Ehab Fares**, A&D Director and **Mr. Zaki Abiza**, Industry Solutions Manager, A&D Initiatives of SIMULIA were the resource persons for the session. They explained about the following key points:

1. Introduction of the main A&D industry trends
2. Introduction of Aircraft Community Noise challenges and benefits
3. Technical details of each benefit and differentiator and
4. Main Aircraft Community Noise workflows addressed by SIMULIA fluids



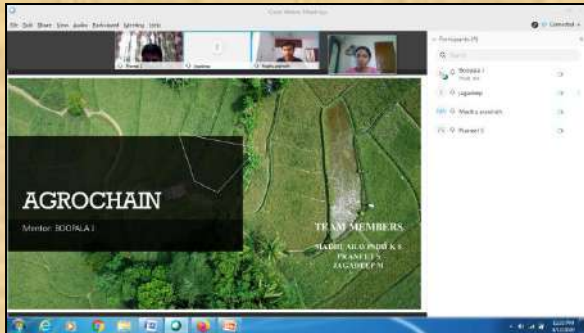


# PROJECT BASED LEARNING

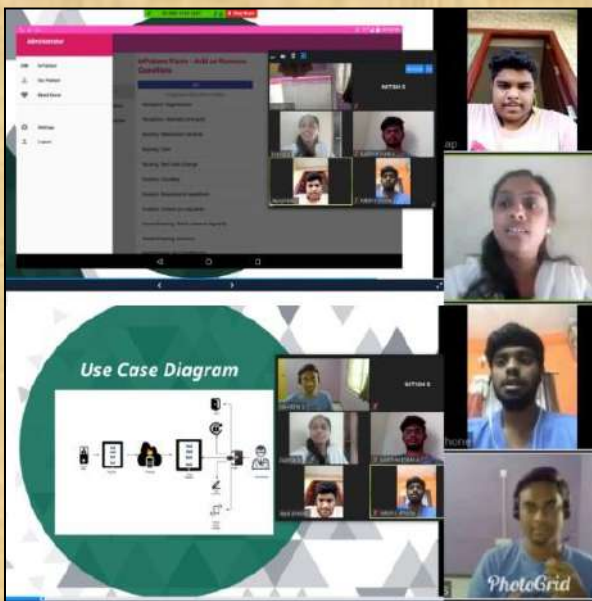


**e - Academia – Special Edition II**

# CSE - III & IV YEAR PROJECT - REVIEW



**Project Title - Agrochain**  
**Project Guide - J.Boopala**

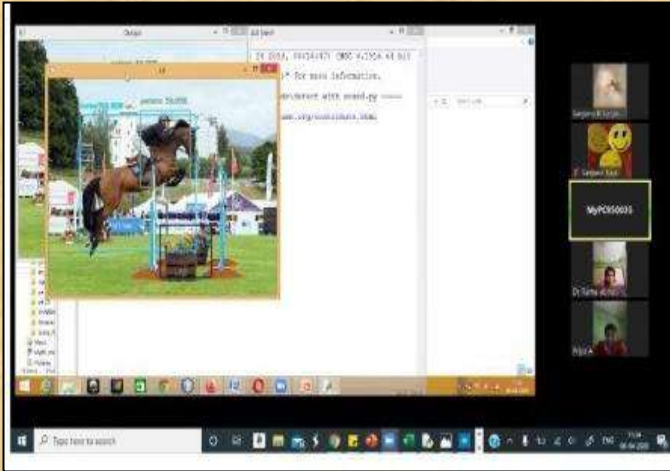


**Project Title: Feed us**  
**Project Guide: B.Sophia**

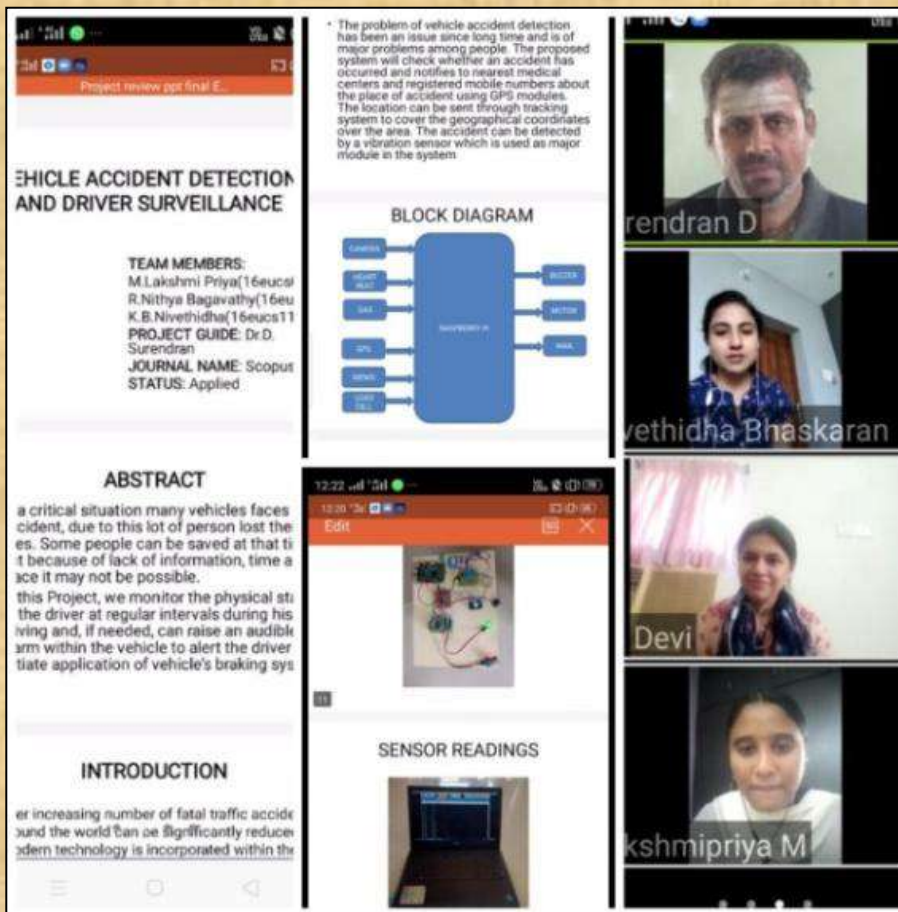
To exhort creative problem solving, drive innovation and build brand awareness, the Department of **CSE** conducted an **Online Mock project review** for **III & IV** CSE Students through Zoom/WebEx Cloud Meeting by the Panel Members. At the end, Panel member acquainted the team to put themselves in the end user's point of view to unpack what a high value customer experience looks like within a defined time frame.



## CSE - III & IV YEAR PROJECT - REVIEW

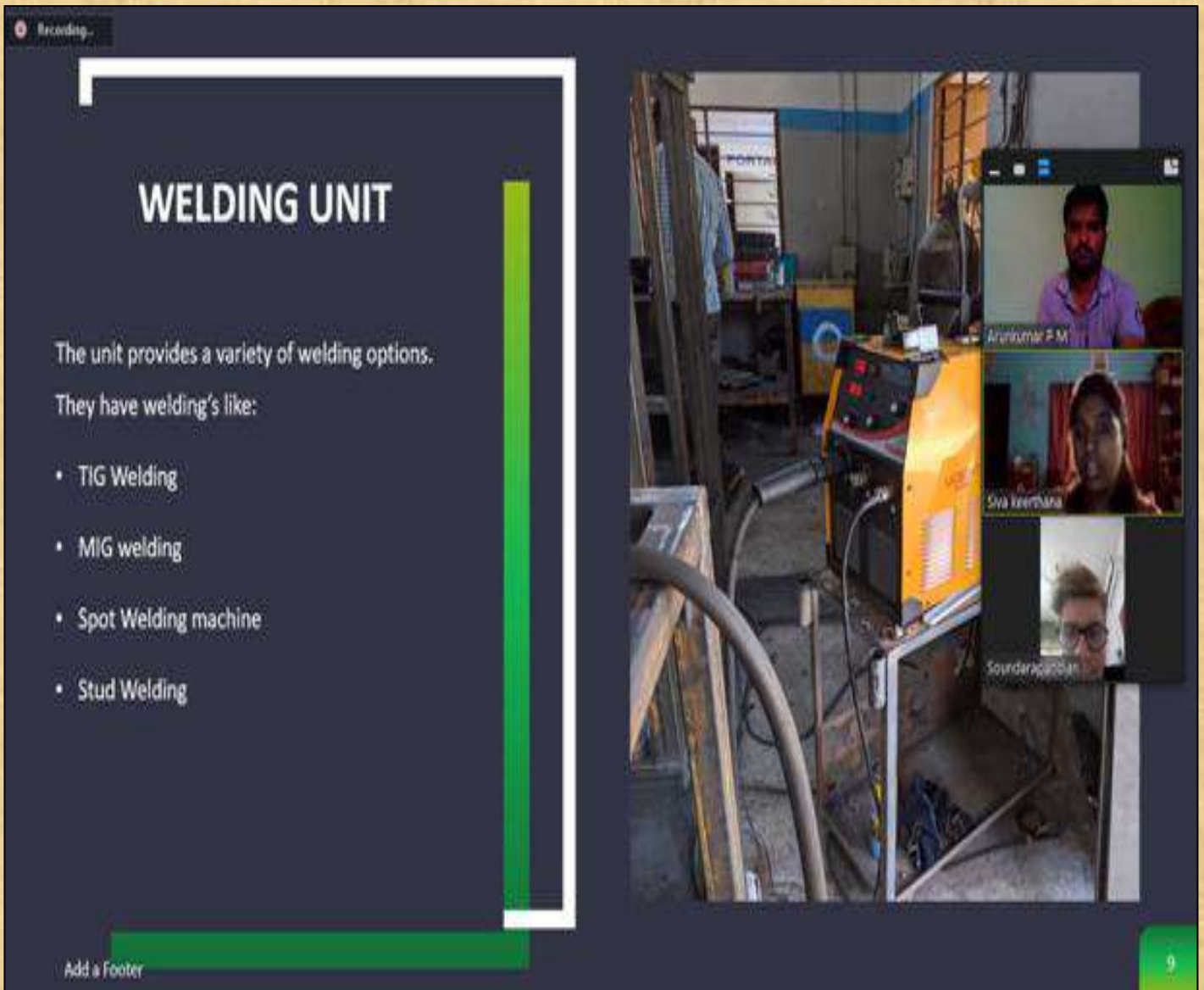


**Project Title: Smart Classroom for Energy Auditing and Attendance System**  
**Project Guide: Ms.A.Priya**



**Project Title: Vehicle Accident Detection and Driver surveillance**  
**Project Guide: Dr.D.Surendhran**

## MCT - INDUSTRIAL FIELD TRAINING PRESENTATION



The slide titled "WELDING UNIT" contains the following text:

The unit provides a variety of welding options.  
They have welding's like:

- TIG Welding
- MIG welding
- Spot Welding machine
- Stud Welding

The video call interface shows a welding workshop with a yellow welding machine and three participants: Arun Kumar P M, Oya Keerthana, and Soundarapandian.

Third year **Mechatronics Engineering** students were reviewed on their Industrial Field training which they underwent during their semester holidays. Students presented the organization structure of the company, Products manufactured, quality policy, automation involved and the technical knowledge gained from the industry.





# RESEARCH & DEVELOPMENT



**e - Academia – Special Edition II**

# R&D - TECHNICAL ARTICLE PUBLICATION:CSE

## COVER STORY



### Smart Watch with Route Guidance: IoT based Smart Monitoring System for the Blind People

**S. Suresh Kumar**  
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Email: sureshkumar@skcet.ac.in

**J. Janet**  
Professor, Department of Computer Science and Engineering  
Sri Krishna College of Engineering and Technology, Coimbatore, India

**S. Sheeba Rani**  
Associate Professor, Dept. of Electrical and Electronics Engg., Sri Krishna College of Engg. and Tech., Coimbatore, Tamilnadu, India.

Internet of Things (IoT) is a convergence of multiple technologies, in which the real world objects are connected to sensor, The objects are connected through wireless network which helps the human to interact with objects in both digital as well as physical world. Due to some unfortunate situations the reason for vision impairment are traumatic injuries, macular degeneration, and diabetes infection of retina or cornea, inability to attain glasses. Every year the blindness rate has been increased seriously. Normally day to day life the vision impairment people needs to depend someone for their work completion. The proposed system aims to provide an IoT based smart watch device to help blind people who functions by using voice recognition facility and sensors. This system can be able to act as guide for finding the route and also helps to monitor the health of user. The system measure health of user which facilitating the blind to be independent and happy. Different sensors are integrated into the arduino which facilitates the additional features such as obstacle detection, integrated GPS facility & monitoring of patients using different wireless body sensors. The system helps mainly in emergency situation to save the life of blind people. Since it is cost effective, the main aim is to have a nutshell package in a single smart watch thereby providing assistance to the blind and the elderly.

**Keywords:** Outdoor Navigation, GPS, Obstacle Detection, Arduino Board, Blood Pressure Sensor, Heart rate Sensor

#### Introduction

The major defects occurred among age group people is blindness. Moreover 253 million people are in with vision impairment only. The major reason for vision impairment is uncorrected refractive error (21%), Glaucoma (8%) and unoperated cataract (85%). It makes the additional human assistance in order to have a care for the blind people and the elderly. Though there are several assistances available in the market there exists some lag either in the design or in the implementation part. In order to have compensating coordination between the design and the implementation view an IoT based Smart watch System which facilitates human assistance even in the absence of human requirement. The system incorporates an IoT (Arduino) where it integrates the Google map with it to instruct the route for blind people with time. The blind people some time affected by high blood pressure or heart rate. There is high pressurized situations the device make an automatic call to ambulance and also send message to relatives. The alert sound is produced from device to get help from society people. The design proposed

aims an effective, low cost production which provides an efficient route discovery to blind and also helps in emergency situation. The device can be used by both educated as well as uneducated people. The aim of the proposal is to facilitate the blind and the elderly to have an IoT smart system which makes them to function independent and it also eliminate the dependency of others in their life.



Fig 1: Smart watch for blind

#### Literature Survey

Q. Navene Rajaji et al proposed the paper on GPS Based Smart Navigation for Visually Impaired Using Bluetooth 3.0. It is suitable for both indoor and

outdoor navigation. It uses GPS for outdoor navigation and Bluetooth for indoor. The GPS is turn for outdoor navigation and the Google map is opened using voice command. The destination of the user is given through voice command. The route is tracked and the output is given using voice command through headset. The user can move towards the destination. The indoor navigation is done through Bluetooth. The Bluetooth is turned on and the user enters in some particular range of the receiver and it gets paired. There receives more than one signal the Bluetooth which has highest signal gets paired to receive Bluetooth signal. The paired signal finds the location of user and it routes the indoor navigation. The user can easily move in indoor navigation. The input is given through voice command. The output is given through audio. The Bluetooth receiver is placed in center of the indoor.

Somnath koley, Ravi Mishra proposed the paper on voice operated outdoor navigation system for visually impaired persons.

In this paper, the outdoor navigation has been performed with the help of GPS

## COVER STORY

providing assistance in order to monitor the blind in an effective way. It used to save the life of blind people and help them during emergency time. The pressure rate will be abnormal when the user over the accidental situation. At that time it automatically makes a call to ambulance and sends SMS to relatives. It will do automatically when the user is in unconscious situation. It produces the buzzer sound to make alert them and get help from society people. These systems provide a safe outdoor navigation system for blind people.

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#### About the Authors



**Mr. S. Sureshkumar** is an Assistant Professor in Department of CSE at Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu. He has completed his Undergraduate and Post graduate studies in Computer Science and Engineering in Anna University, Chennai. He has 10 years of academic experience in teaching. He has published 5 books and over 20 publications in highly cited Journals and Conferences. He is a professional body member of ISTE and IAENG.



**Dr. J. Janet** is the Principal of Sri Krishna College of Engineering and Technology, Coimbatore, a top 100 NIRF ranked autonomous institution affiliated to Anna University. Being a distinguished academician with 25 years of experience and versatile research outcomes in Computer Science Engineering, she has guided more than 13 doctoral candidates to completion in Anna University, JNTU and MS University. With research thrust on Knowledge based systems, she has over 120 SCI and Scopus Indexed Journal publications to her credit with research imprint of 300+ citations. She has procured colossal Research funding grants to the tune of 6.87 Crores in diverse schemes of DST-FIST, TIDE, CHORD, CSIR, TITE, SEED, WOS, ACTE-RPS & UGC-MRP and her strong research modeling skills to act as technical mentor for multitude of projects. The key research findings have been converted to more than 17 IPR patent publications and 1 international patent. She has served as Convener and Program Chair for more than 50 international conferences and workshop program committees. She has authored an assortment of books and book chapters with leading publishers on emerging technologies. She is the recipient of Top Influential Women Educator Award by ULEKIZ, Excellence in Education Award and Lifetime Achievement, Young Principal - Coimbatore Zone award 2018 and several institutional awards for establishment of COEs and vibrant Academic-Industry interfaces.



**Dr. S. Sheeba Rani** is a faculty of Electrical and Electronics Engineering at Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India. She has completed her undergraduate in Instrumentation and Control Engineering and postgraduation in Embedded Systems Technologies from College of Engineering, Anna University Chennai. She has also secured a post graduate in Business Administration from Madras University. She has been conferred doctorate in Embedded Systems Engineering Education from National Institute of Technical Teacher Training and Research, Chennai. She has authored more than 50 scientific publications and 8 books. She is a noted key note speaker in Embedded Systems and Outcome based Education in Engineering Education domain. Her research interests are Biomedics, Internet of things and Curriculum development.

A research article “Smart Watch with route Guidance: IoT based Smart Monitoring System for the Blind people” authored by **Dr.J.Janet**, Principal SKCET, **Mr.S.Sureshkumar**, Assistant Professor, Department of Computer Science and Engineering and **Dr.S.Sheeba Rani**, Associate Professor, Department of Electrical and Electronics Engineering is published in the April 2020 edition of “CSI Communications” Magazine.



## R&D - PATENT PUBLICATION:CSE

Application Details	
APPLICATION NUMBER	202041007185
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/02/2020
APPLICANT NAME	1. S.Sureshkumar 2. Dr.J.janet 3. Dr.K.N.Sivabalan 4. P.Anitha 5. D.Srivaishnavi 6. R.Kaviyaraj 7. A.Peter Soosal Anandara 8. R.Siva Subramanian 9. N.Ramachandran 10. KR.Senthilmurugan
TITLE OF INVENTION	INTELLIGENT WHEELCHAIR WITH VOICE USER INTERFACE (VUI) SYSTEM FOR DISABLED & ELDERLY USING IOT
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sureshamcetce@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sureshamcetce@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/02/2020

Application Status	
APPLICATION STATUS	Application Published

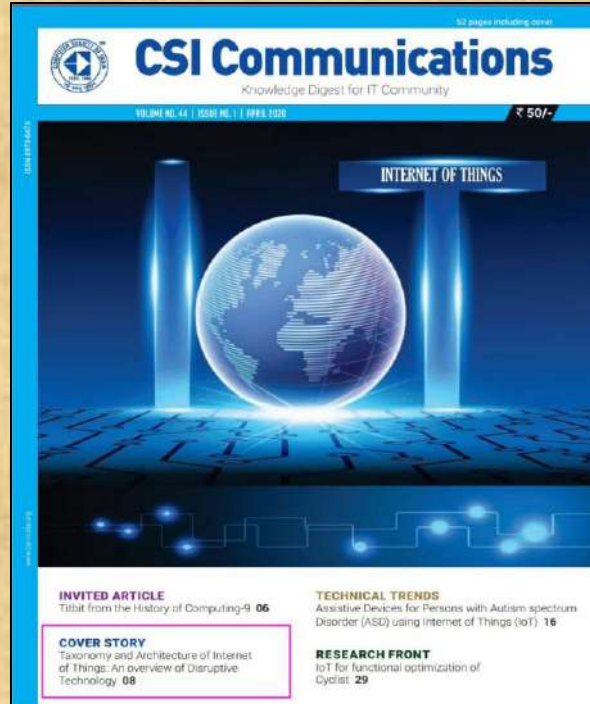
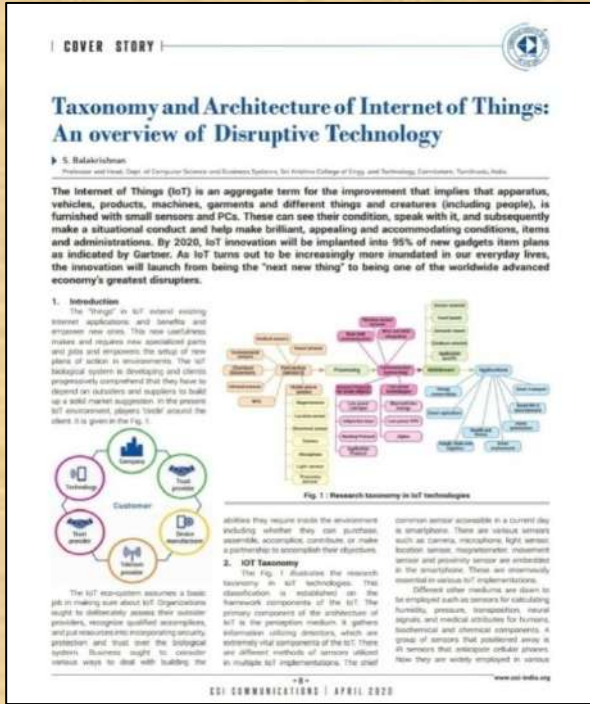
[View Documents](#)

(12) PATENT APPLICATION PUBLICATION	(21) Application No. 202041007185 A
(19) INDIA	(35) Publication Date : 28/02/2020
(27) Date of filing of Application : 19/02/2020	
(54) Title of the invention : INTELLIGENT WHEELCHAIR WITH VOICE USER INTERFACE (VUI) SYSTEM FOR DISABLED & ELDERLY USING IOT	
(51) International Classification (IPC) : G06F03/01(000), G06F03/01(000), G06F03/01(600), H04L025908000, H04W0004700	(71) Name of Applicant : 1.S.Sureshkumar Address of Applicant Sri Krishna College of Engineering and Technology Kuzhambalur, Coimbatore Tamil Nadu India 2.Dr.J.Janet 3.Dr.K.N.Sivabalan 4.P.Anitha 5.D.Srivaishnavi 6.R.Kaviyaraj 7.A.Peter Soosal Anandara 8.R.Siva Subramanian 9.N.Ramachandran 10.KR.Senthilmurugan
(31) Priority Document : NA No	
(32) Priority Date : NA	
(33) Name of priority country : NA	
(36) International Application No : NA	
(37) Filing Date : NA	
(38) International Publication No : NA	
(61) Patent of Addition to Application No : NA	
(62) Filing Date : NA	
(63) Divisional Application Number : NA	
(64) Filing Date : NA	
(57) Abstract : Internet of Things describes an intelligent system where the physical objects in the world are connected with sensors via the Internet. With the advent of IoT technology, for the disabled has opened a space for the redesign of the systems which makes them to feel even more comfortable and independent. The proposed system aims to provide an IoT based smart voice recognition system and gesture controlled system for the disabled. The user can function the wheel chair automatically to move from one place to another by using facial/hand gesture and also by voice commands. Additionally, it has a pulse monitoring system to monitor the patient health	
No. of Pages : 10 No. of Claims : 5	

The Patent Office Journal No. 09/2020 Dated: 28/02/2020 11228

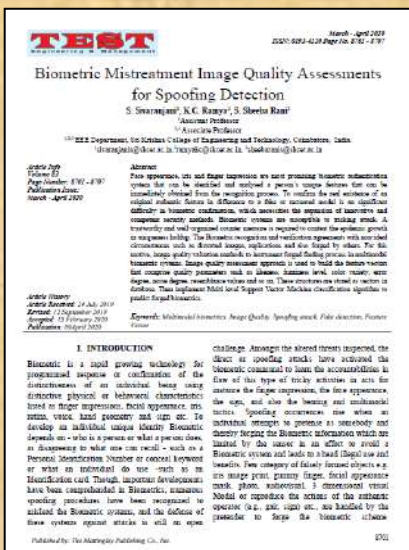
The Patent titled “Intelligent Wheelchair with Voice User Interface (VUI) System for Disabled and Elderly using IoT” filed by Principal Madam, **Mr.S.Sureshkumar**, Assistant Professor, CSE, **Dr.K.N.Sivabalan**, Professor, IT, **Ms.P.Anitha**, Assistant Professor, ECE, **Ms.D.Sri Vaishnavi**, Assistant Professor, CSE, **Mr.R.Siva Subramanian**, Assistant Professor, Mech, **Mr.N.Ramachandran**, Assistant Professor, Mech and **Mr.KR.Senthilmurugan**, Assistant Professor, CSE is published in IPR Journal identified with Appl.No: **2020410007185 A** on **19.02.2020**.

# R&D – TECHNICAL ARTICLE PUBLICATION:CSBS



**Dr. S. Balakrishnan, HOD-CSBS has published a cover story for CSI Communications, April 2020, entitled “Taxonomy and Architecture of Internet of Things: An overview of Disruptive Technology”.**

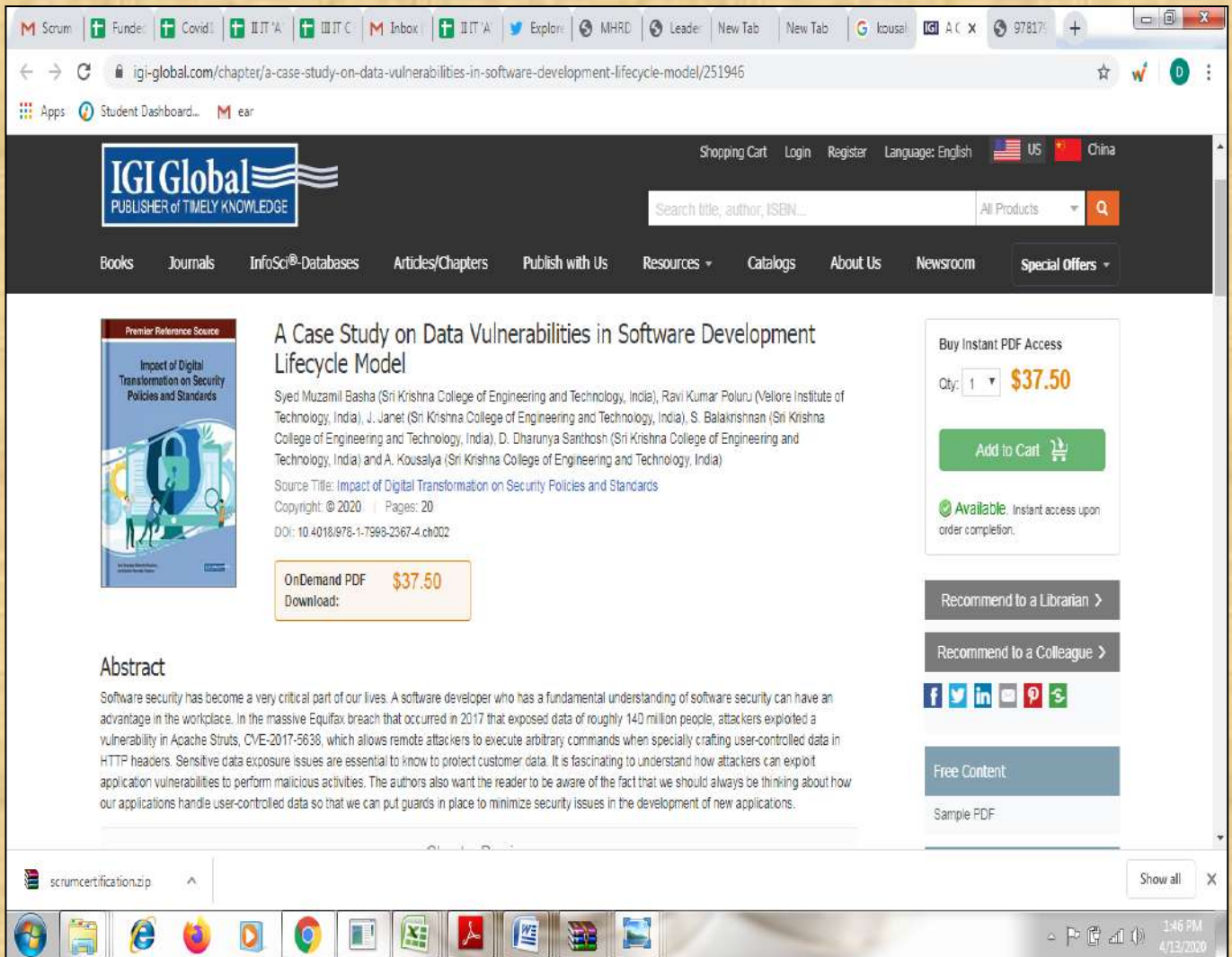
# R&D – JOURNAL PUBLICATION: EEE



Faculty members from department of **EEE - Mrs. Sivaranjani S, Dr.K.C.Ramya and Dr.S.Sheeba Rani** have published a paper entitled on **“Biometric mistreatment Image Quality Assessments for Spoofing Detection”** in Test Engineering and Management,ISSN:0193-4120, Vol.83, Pp.8701-8707, March 2020.It is Scopus indexed journal.



## R&D – BOOK CHAPTER PUBLICATION: IT



The screenshot shows the IGI Global website interface. The main content area displays the book chapter details:

- Title:** A Case Study on Data Vulnerabilities in Software Development Lifecycle Model
- Authors:** Syed Muzamil Basha (Sri Krishna College of Engineering and Technology, India), Ravi Kumar Poluru (Vellore Institute of Technology, India), J. Janet (Sri Krishna College of Engineering and Technology, India), S. Balakrishnan (Sri Krishna College of Engineering and Technology, India), D. Dharunya Santhosh (Sri Krishna College of Engineering and Technology, India) and A. Kousalya (Sri Krishna College of Engineering and Technology, India)
- Source Title:** Impact of Digital Transformation on Security Policies and Standards
- Copyright:** © 2020 | **Pages:** 20
- DOI:** 10.4018/978-1-7998-2367-4.ch002
- OnDemand PDF Download:** \$37.50

The abstract text reads: "Software security has become a very critical part of our lives. A software developer who has a fundamental understanding of software security can have an advantage in the workplace. In the massive Equifax breach that occurred in 2017 that exposed data of roughly 140 million people, attackers exploited a vulnerability in Apache Struts, CVE-2017-5638, which allows remote attackers to execute arbitrary commands when specially crafting user-controlled data in HTTP headers. Sensitive data exposure issues are essential to know to protect customer data. It is fascinating to understand how attackers can exploit application vulnerabilities to perform malicious activities. The authors also want the reader to be aware of the fact that we should always be thinking about how our applications handle user-controlled data so that we can put guards in place to minimize security issues in the development of new applications."

Faculty members from Department of Information technology- **Dr.Syed Muzamil Basha**, Associate Professor, **Ms. Dharunya Santhosh**, Assistant Professor & **Dr.A.Kousalya**, Associate Professor, published a book chapter “ **A Case Study on data Vulnerabilities in Software Development Lifecycle Model**”, by IGI Global Publishers with DOI: 10.4018/978-1-7998-2367-4.ch002, ISBN13: 978179982367.

## R&D - PATENT PUBLICATIONS: MECH

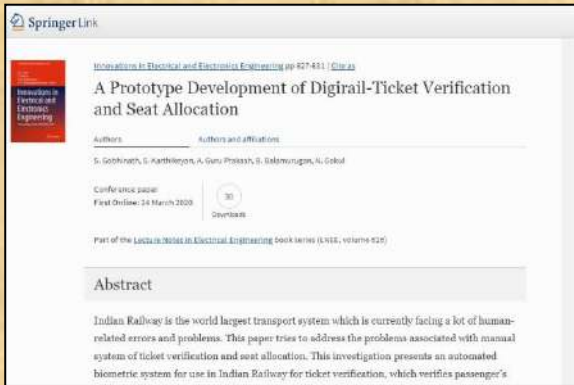
(12) PATENT APPLICATION PUBLICATION	(21) Application No.202041010996 A
(19) INDIA	
(22) Date of filing of Application :14/03/2020	(43) Publication Date : 20/03/2020
(54) Title of the invention : WASTE SORTING ROBOT FOR SANITATION	
(51) International Classification : B09B001000000,C05F001700000,B09B003000000,C05F0017020000,C12M0001000000	(71)Name of Applicant : 1)Mr.V.P.Srinivasan Address of Applicant :Assistant Professor Department of Mechanical Engineering Sri Krishna College of Engineering and Technology Kumiamuthu Coimbatore Tamil Nadu India 2)Mr.B.Balakarthik 3)Mr.Aswin sriram 4)Mr.A.B.Dhanush Prabhu 5)Mr.S.Devadarshan
(31) Priority Document : NA No (32) Priority Date : NA (33) Name of priority country : NA (86) International Application : NA No : NA Filing Date : NA (87) International Publication : NA No (61) Patent of Addition to Application Number : NA Filing Date : NA (62) Divisional to Application Number : NA Filing Date : NA	(72)Name of Inventor : 1)Mr.V.P.Srinivasan 2)Mr.B.Balakarthik 3)Mr.Aswin sriram 4)Mr.A.B.Dhanush Prabhu 5)Mr.S.Devadarshan

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202041011077 A
(19) INDIA	
(22) Date of filing of Application :15/03/2020	(43) Publication Date : 20/03/2020
(54) Title of the invention : DUAL AXIS MOVEMENT WRITING MACHINE	
(51) International classification : F2450030455000,G16H0010400000,G03F007200000,G09B0019000000,B01F0007000000	(71)Name of Applicant : 1)Mr.V.P.Srinivasan Address of Applicant :Assistant Professor Department of Mechanical Engineering Sri Krishna College of Engineering and Technology Kumiamuthu Coimbatore Tamil Nadu India 2)Mr.Abhilash Arulvalan 3)Mr.J.Amarnath 4)Mr.R.B.Dhivyan 5)Mr.L.Dhinesh
(31) Priority Document : NA No (32) Priority Date : NA (53) Name of priority country : NA (86) International Application : NA No : NA Filing Date : NA (87) International Publication : NA No (61) Patent of Addition to Application Number : NA Filing Date : NA (62) Divisional to Application Number : NA Filing Date : NA	(72)Name of Inventor : 1)Mr.V.P.Srinivasan 2)Mr.Abhilash Arulvalan 3)Mr.J.Amarnath 4)Mr.R.B.Dhivyan 5)Mr.L.Dhinesh

- **Mr. V. P. Srinivasan**, Assistant Professor, Department of Mechanical Engineering has published a patent entitled **“Waste Sorting Robot For Sanitation”** along with passed out students (2016 – 2020 batch) Mr. B. Balakarthish, Mr. AswinSriram, Mr. Dhanush Prabhu, Mr. S. Devadarshan.C. The patent was published on 20.03.2020 with the Application Number: 202041010996A.
- **Mr. V. P. Srinivasan**, Assistant Professor, Department of Mechanical Engineering published a patent entitled **“Dual Axis Movement Writing Machine”** along with passed out students (2016 – 2020 batch) Mr. J. Abhilash, Mr. J. Amarnath, Mr. R. B. Dhivyan, Mr. L. Dhinesh with the Application Number: 202041011077.



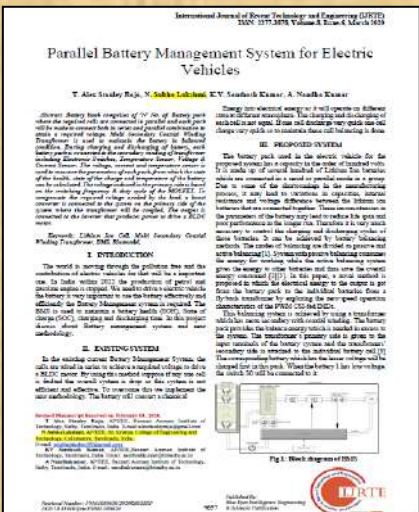
# R&D - FACULTY RESEARCH PUBLICATION: EEE



Faculty members from Department of EEE **Mr. S. Gobhinath** and **Mr. S.Karthikeyan** have published journal paper entitled

- **A Prototype Development of Digirail-Ticket Verification and Seat Allocation** at Innovation in electrical and electronics engineering, ,Pp.827-831 Springer series.
- **A Practical Approach in Design and Fabrication of Solar-Powered Four-Wheeled Electric Vehicle** at Innovation in electrical and electronics engineering, Springer series,Pp.601-607.

# R&D - FACULTY RESEARCH PUBLICATION: EEE



**N.Subha Lakshmi**, Assistant Professor, EEE has published a paper entitled **“Parallel Battery Management System for Electric Vehicles”** in International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-6, March 2020.

## R&D - MANUSCRIPT CERTIFICATION: CSBS



Dr. S. Balakrishnan, HOD-CSBS has received a certificate of “**Manuscript Evaluation Certificate**” for the article, “Tracking of wearable IoT devices through WAP using Intelligent rule based location aware approach” for the **Journal of Information and Knowledge Management**.



## R&D - FACULTY REVIEWER CERTIFICATION: CSE



**Advances in Science, Technology and Engineering Systems Journal (ASTESJ)**  
(ISSN: 2415-6698)

This certificate is awarded to

**SURESHKUMAR**

**Sri Krishna College of  
Engineering and Technology**

**Email:**  
**sureshamcetcse@gmail.com**

**Reviewer Code: AJR06837**

I am pleased to inform you that you are selected as a Reviewer for Advances in Science, Technology and Engineering Systems Journal that is a well reputed Journal. The decision has been taken after keen evaluation of your research experience and scientific vision. Your name is successfully registered under subject codes CAI.

Hope you will be a great asset for us in future and will work hard with us to promote the Journal. Wish You best of Luck in life endeavor.

Regards



**Prof. Passerini Kazmorski**  
Editor-in-Chief  
ASTES Journal  
[www.astesj.com](http://www.astesj.com)  
editor@astesj.com

Issue Date: 26 March 2020

**Mr.S.Sureshkumar**, Assistant Professor, Department of CSE has been certified as a reviewer for **Advances in Science, Technology and Engineering Systems (ASTES) Journal**. Reviewer Code: AJR06837.

## CIVIL – PROFESSIONAL BODY MEMBERSHIP



Mr.R.Vighnesh, Mr. M.R.Ezhilkumar, Mr.S.Sadheesh, Ms.S.Vaishnavi Devi and Mr. S.C.Boobalan, Assistant Professors of Department of Civil Engineering are certified as members of **The Asian Society of Researchers (ASR)**.



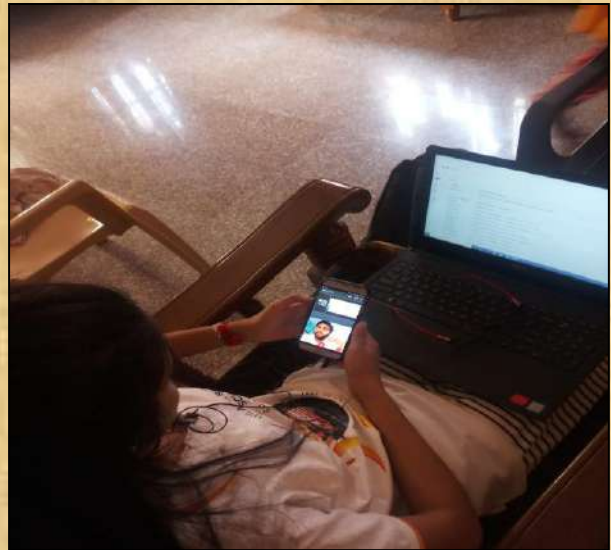


# WEBINARS ON LIFE SKILLS



**e - Academia – Special Edition II**

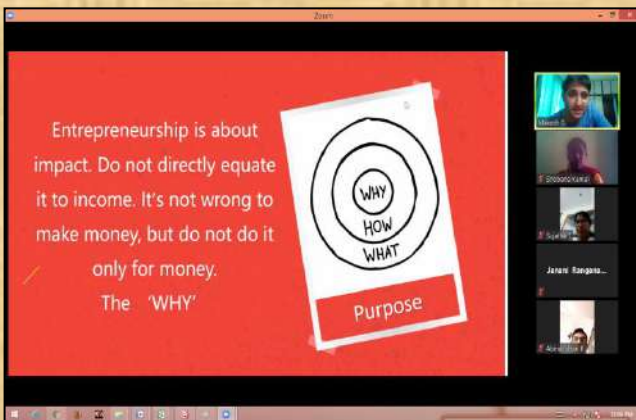
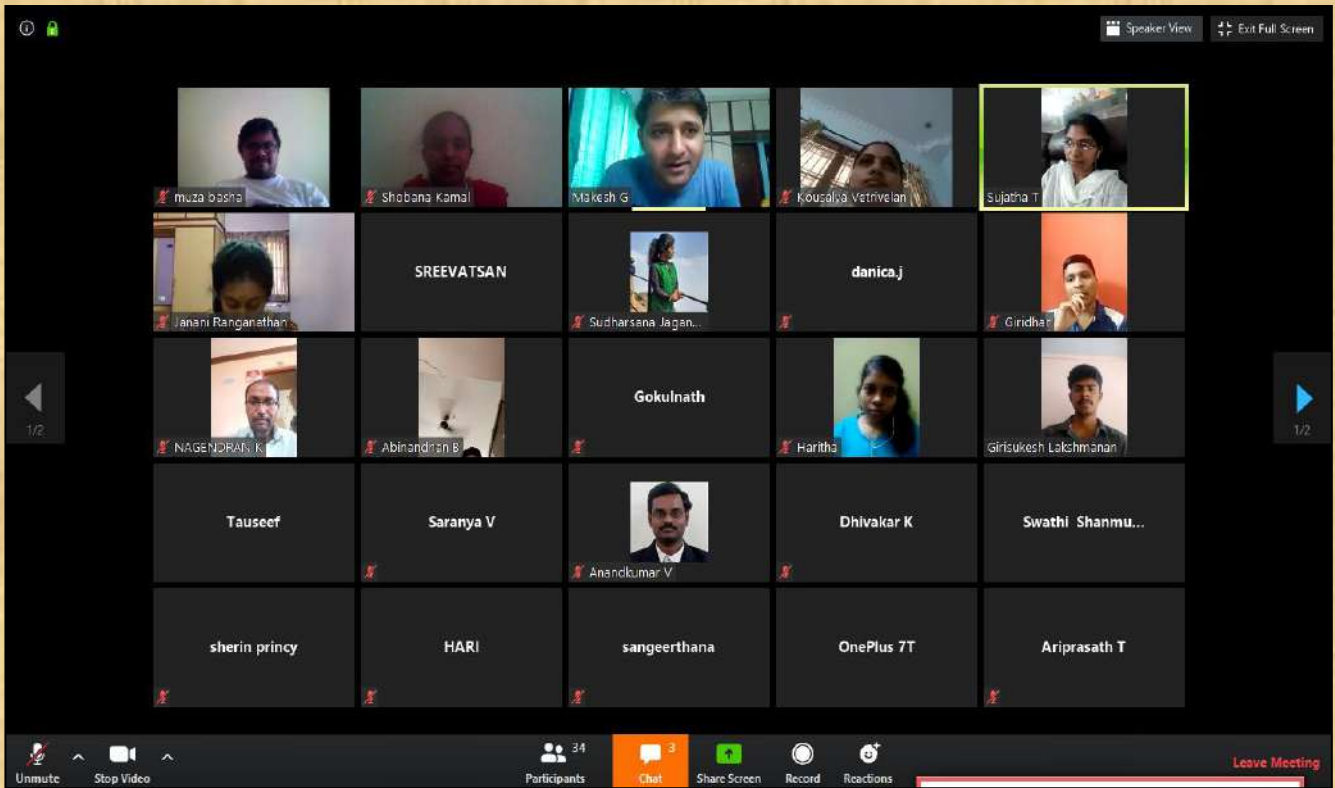
## ECE – PLACEMENT PREPARATION



Third year ECE Students attended a webinar on "**Lock Down - A golden opportunity for placement preparation**". The session was handled by **Mr. Mohammed Musthak Ali**, Hardware Integrator, Robert Bosch, Coimbatore. Webinar mainly concentrated on the self learning online channels available for preparing Aptitude, logical Reasoning and verbal tests. He also shared his experiences and projects. Students actively participated and enquired regarding interviews.

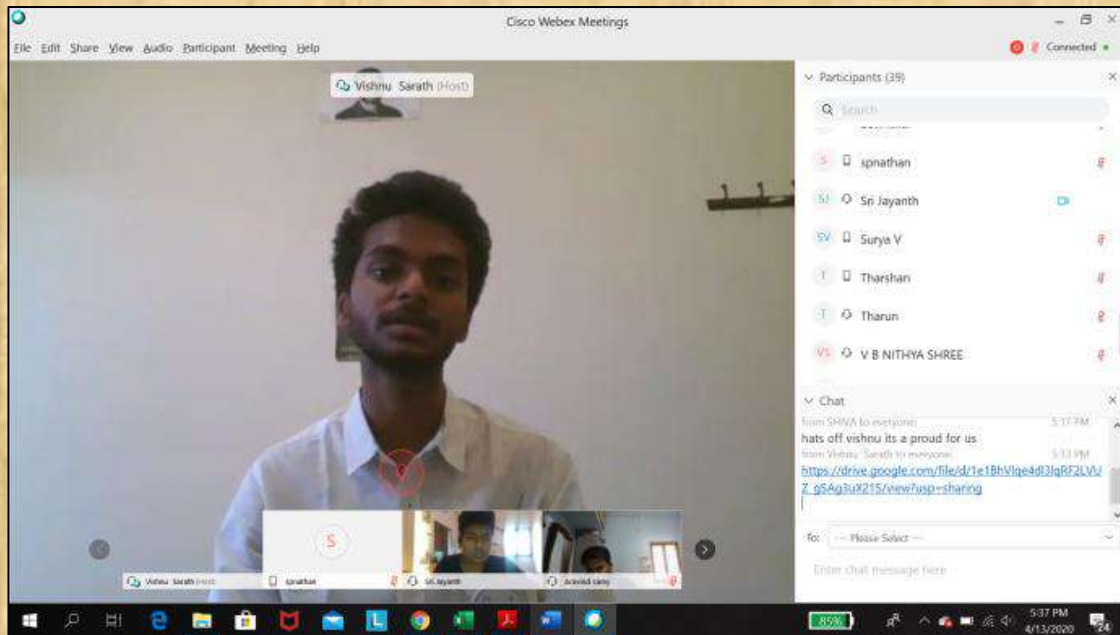


# IT – DREAMS AND IMPACT



The Department of **Information Technology** organized a webinar session for students and faculty through zoom app on 15.04.2020. Resource Person was **Mr.Makesh G**, CEO, Crayon'd Solutions, Chennai, delivered a session to dream big, market the skills and impact for humanity welfare.

## CSBS - INNOVATION & START-UP



Department of **Computer Science and Business Systems** conducted a webinar session for the faculty members and students on 13.04.2020 on the topic **“Innovation and Start-Up”** by **Mr. Vishnu Sarath S, CEO & Co-Founder of “0 and 1”, Student President of EDC-SKCET.**

Key Deliberations:

- Mistakes on Product Innovation, which kills the Startup
- 3 steps to build a valuable Product/Service
- Real world examples

He cleared many queries posted by the students. The session was very fruitful and interactive.

[https://drive.google.com/file/d/1e1BhVlqe4dl3lqRF2LVUZ\\_gSAg3uX21S/view?usp=sharing](https://drive.google.com/file/d/1e1BhVlqe4dl3lqRF2LVUZ_gSAg3uX21S/view?usp=sharing)



# CSBS - INNOVATION & START-UP: GLIMPSES





# SRI KRISHNA

COLLEGE OF ENGINEERING AND TECHNOLOGY  
An Autonomous Institution, Accredited by NAAC with 'A' Grade.



## DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

### INNOVATION & START-UP



**VISHNU SARATH . S**  
CEO & CO-FOUNDER OF  
"0 and 1"  
STUDENT PRESIDENT  
- ENTREPRENEURSHIP  
CLUB OF SKCET

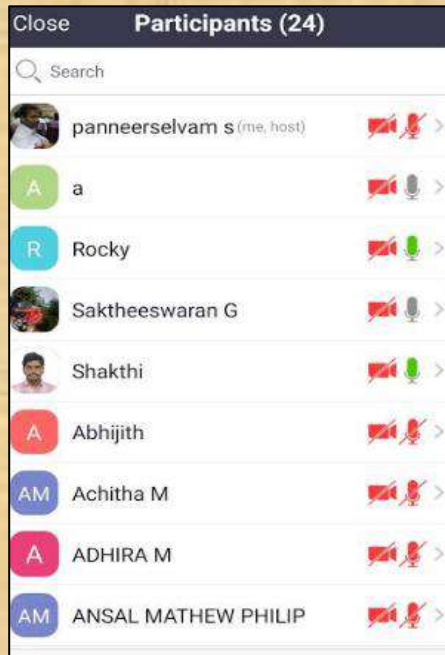
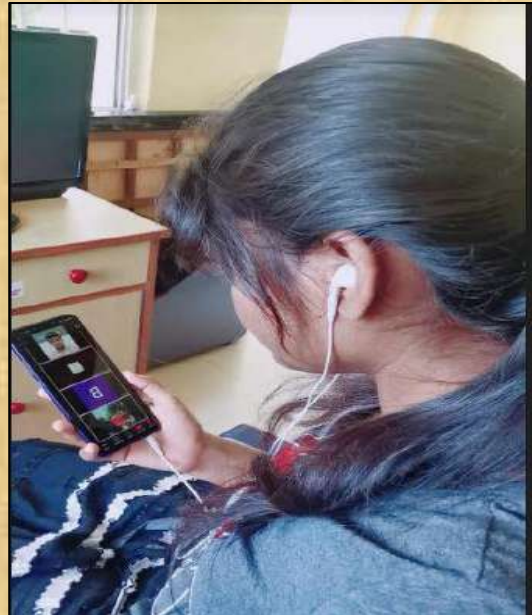
APRIL 13TH, 2020  
AT 5PM

STREAMING  
THROUGH



MEETING ID  
589 296 562

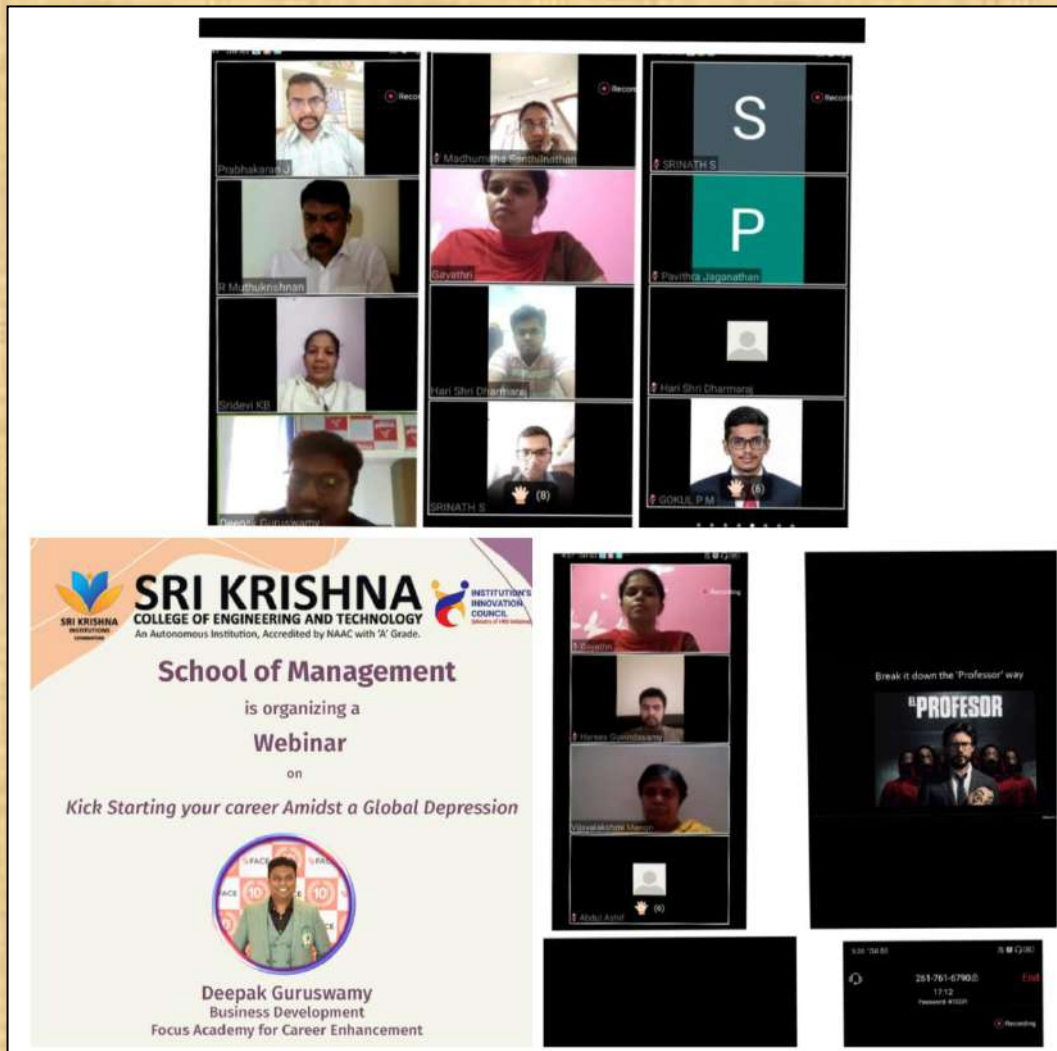
## MCT – ATTAIN GOALS IN MCT



Mechatronics Engineering students attended the Webinar on **“How to attain goals in Mechatronics field”** by **Mr.B.Shakthi** (MCT Alumni 2015 passed out) SAP Consultant, Infosys Limited.

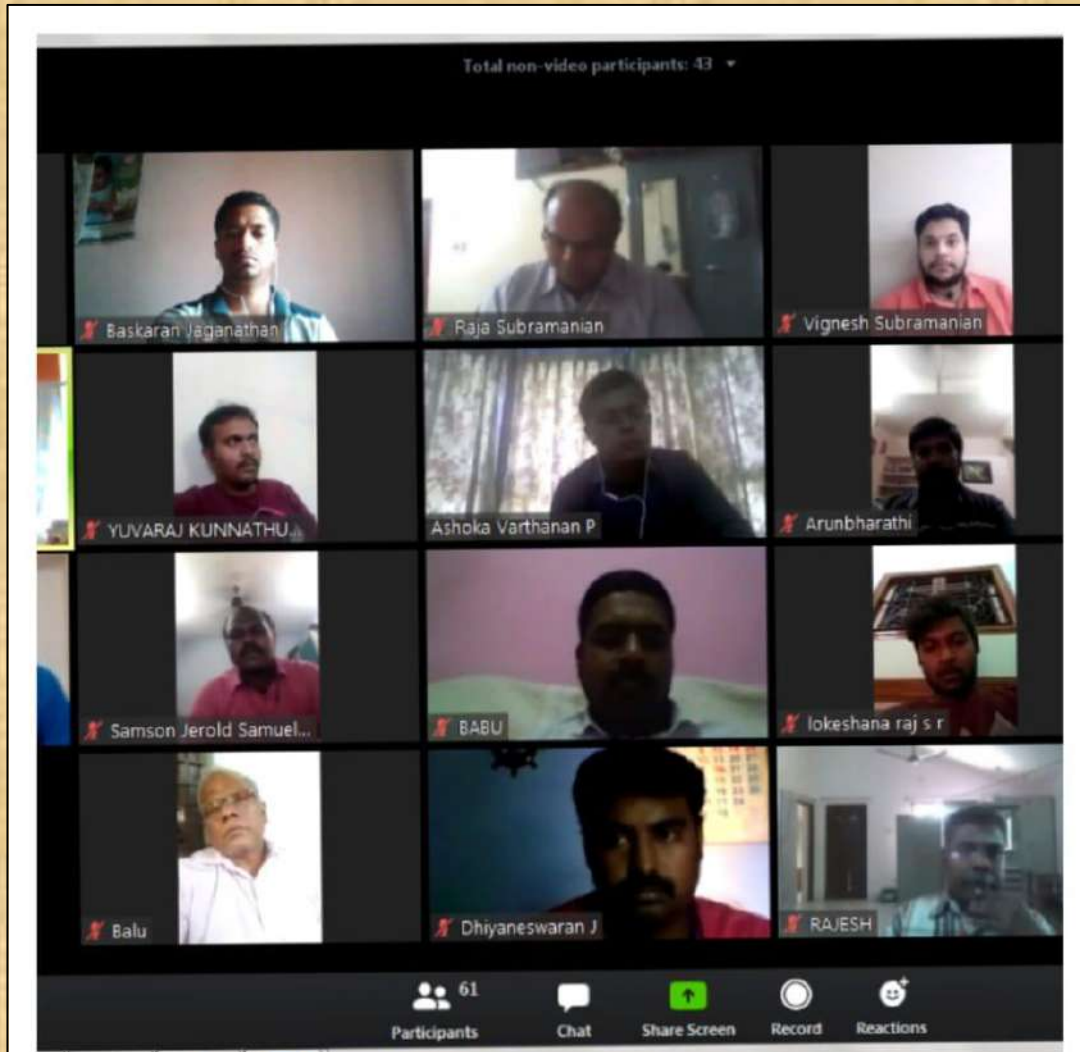


## SOM - KICK STARTING YOUR CAREER



The **Institution's Innovation Council (IIC)** of SKCET and **School of Management** organised Webinar Series on 16.4.2020. Session was handled by **Mr. Deepak Guruswamy**, Business Development Executive, FACE, Bangalore. The topic for the session was **'Kick Starting your career Amidst a Global Depression'**. Various inputs for the student community and how to mould themselves for their career rather than seeking for a job were the points discussed. Students posted real time queries and the session was a very interesting one.

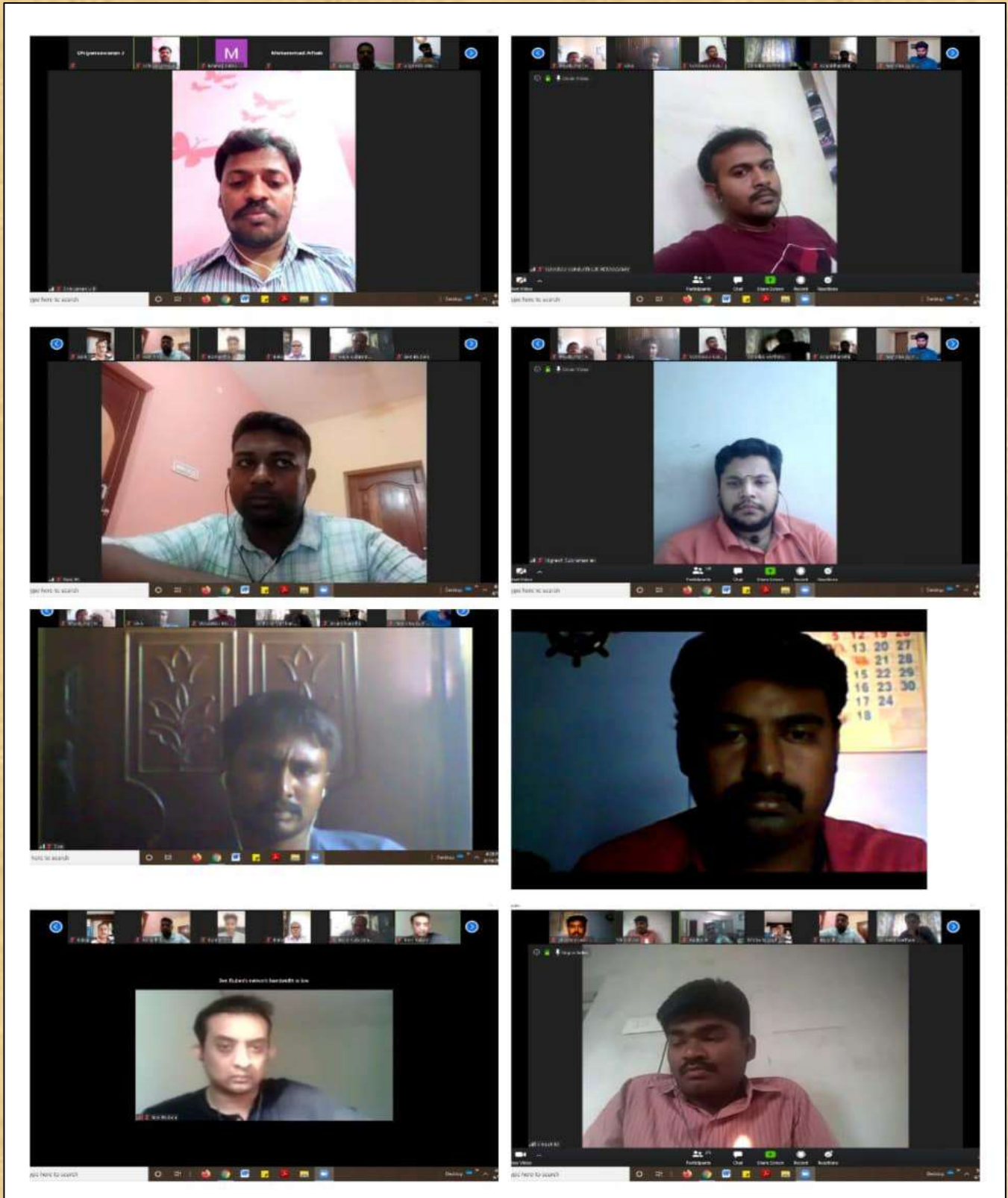
## MECH - UNCERTAINTY AND MANAGING UNCERTAINTY AT DOWN TRENDS



Department of **Mechanical Engineering** organized a webinar on the topic "**Uncertainty and Managing Uncertainty - at Down Trends**" on 16.04.2020 **Mr. D. Eregamani**, Director - Operations, Maple Tech Solutions was the resource person. He shared his valuable thoughts on uncertainty due to COVID'19. He explained how to equip oneself and also briefed the methodologies to unleash the potential of students and faculty during this lock down period.

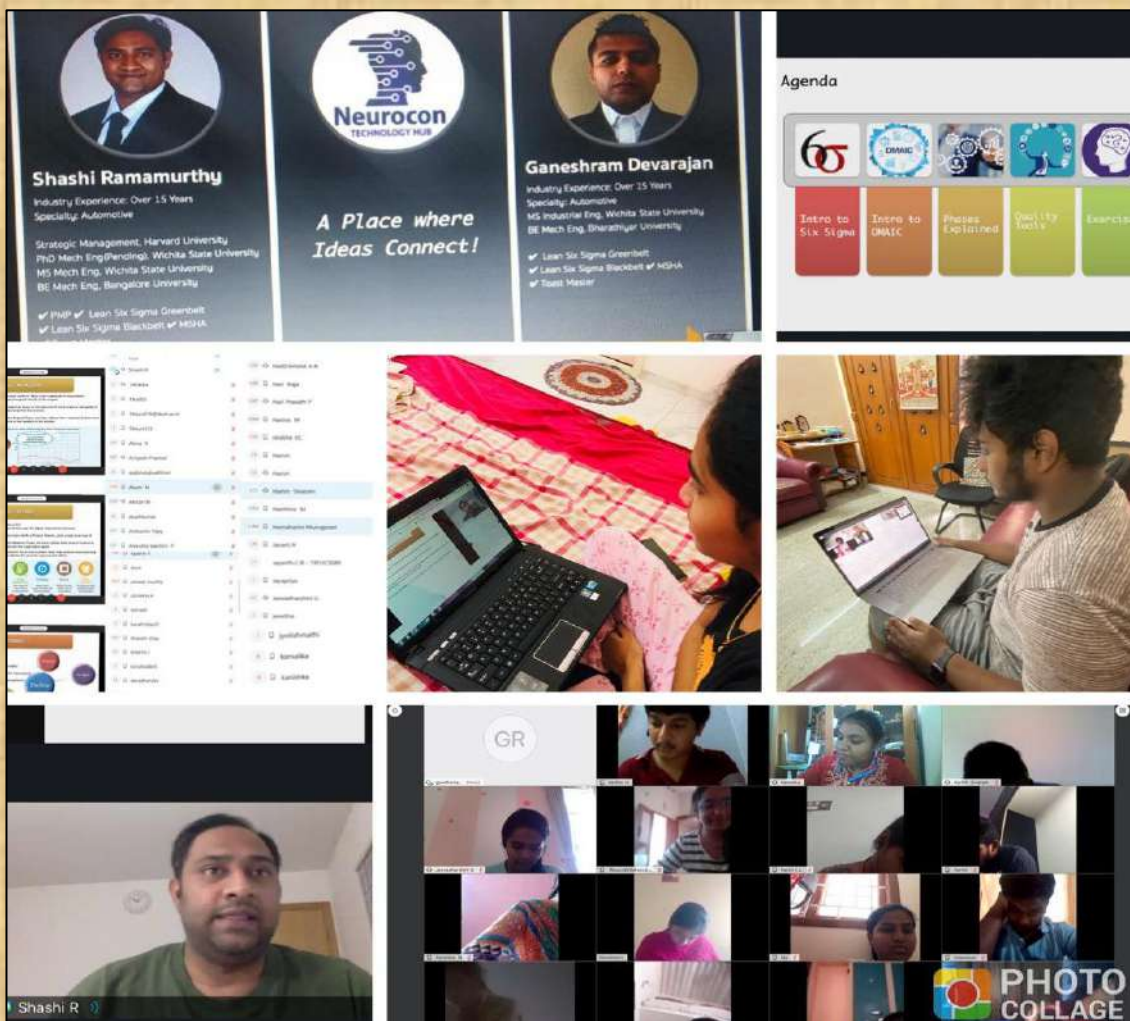


## MECH - UNCERTAINTY AND MANAGING UNCERTAINTY AT DOWN TRENDS: GLIMPSES



## CSE - ENTREPRENEURSHIP TRAITS

IIC along with the Department of CSE organised a webinar on "Entrepreneurship Traits" on 15.4.2020 by **Mr.Saran M.** CEO, ICS Technologies, Coimbatore . IIC students and faculty members from various departments attended the event. His enlightened speech threw light upon the traits of a successful entrepreneur. He also focussed on the need for entrepreneurship, the significance of mobile and web app development, red bus user story and entrepreneurship competencies. The presentation ended up with a brainstorming session paving way to create a new generation of entrepreneurs.





## SOM - WILL DIGITAL MARKETING BE THE ANSWER IN POST COVID-ERA?



The **Institution's Innovation Council (IIC)** of SKCET and **School of Management** organised a Webinar on **"Will Digital Marketing be the answer in Post COVID-ERA?"** on 13.04.2020. **Mr. Chandan Singh**, Senior Corporate Trainer- Digital Marketing, Digital Consultant and Blogger, New Delhi, India was the resource person of the event. IIC students and faculty members attended the event. The lecture was about the pandemic situation and scope of Digital marketing resulted due to Covid-19 and he presented the facts and cases of online behavior in the world wide scenario. The speaker has highlighted the need for upskilling in the domain of Digital Marketing by getting hands on exposure to the latest APPs and digital courses.

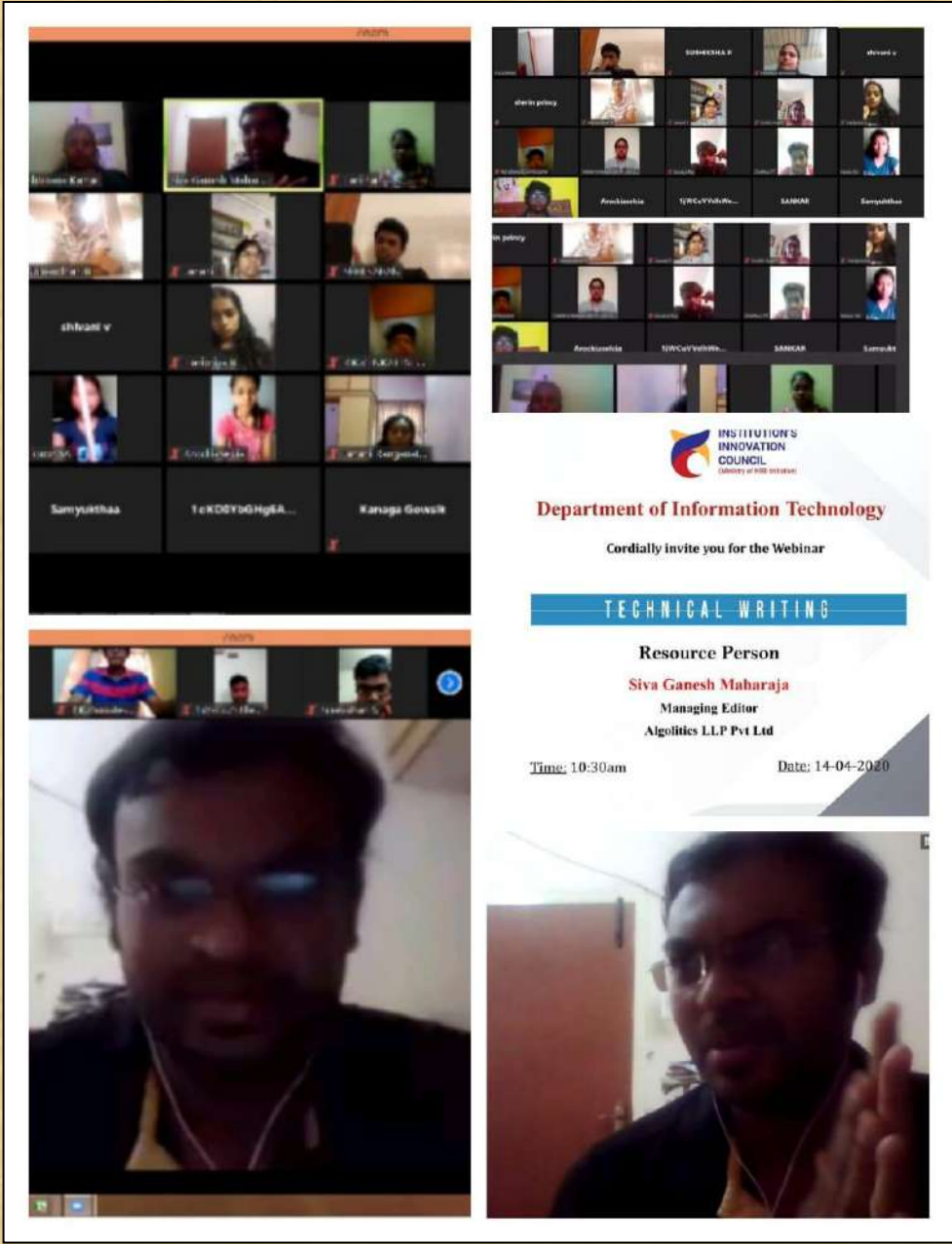
## MECH - PROJECT MANAGEMENT



Department of **Mechanical Engineering** organized a webinar on the topic "**Project Management**" on 15.4.2020. **Mr.Ravichandran M**, CEO/Confident Engineering was the resource person of the event. He shared his 34 years of Industrial experience in project management and interacted with students and faculty of Mechanical Engineering Department.

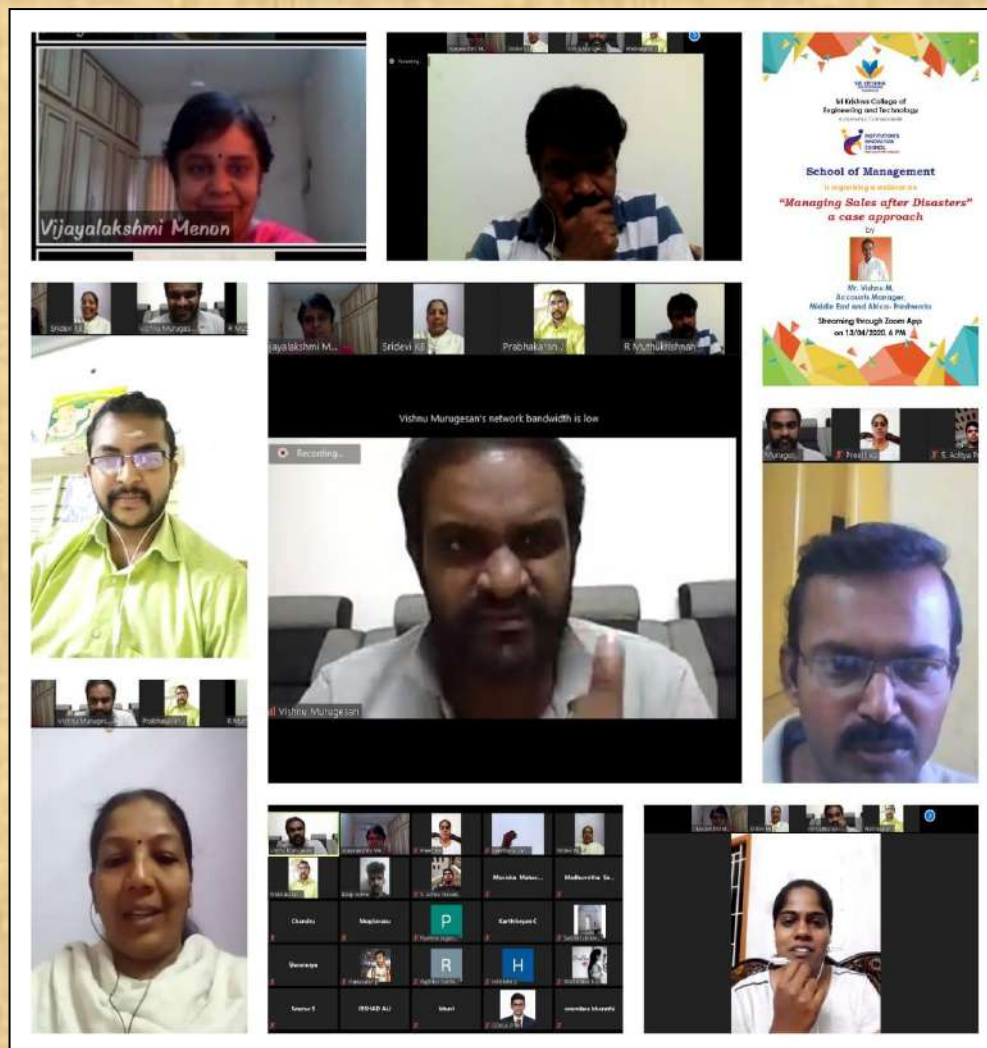


# IT – TECH WRITING



The Department of **Information Technology** organized a webinar session for students and faculty members on 14.04.2020 through zoom app. The Resource person was **Mr. Siva Ganesh**, Managing Editor, Algolitics LLP Pvt Ltd. He discussed on basics of technical writing, preparation, opportunities and blog creation.

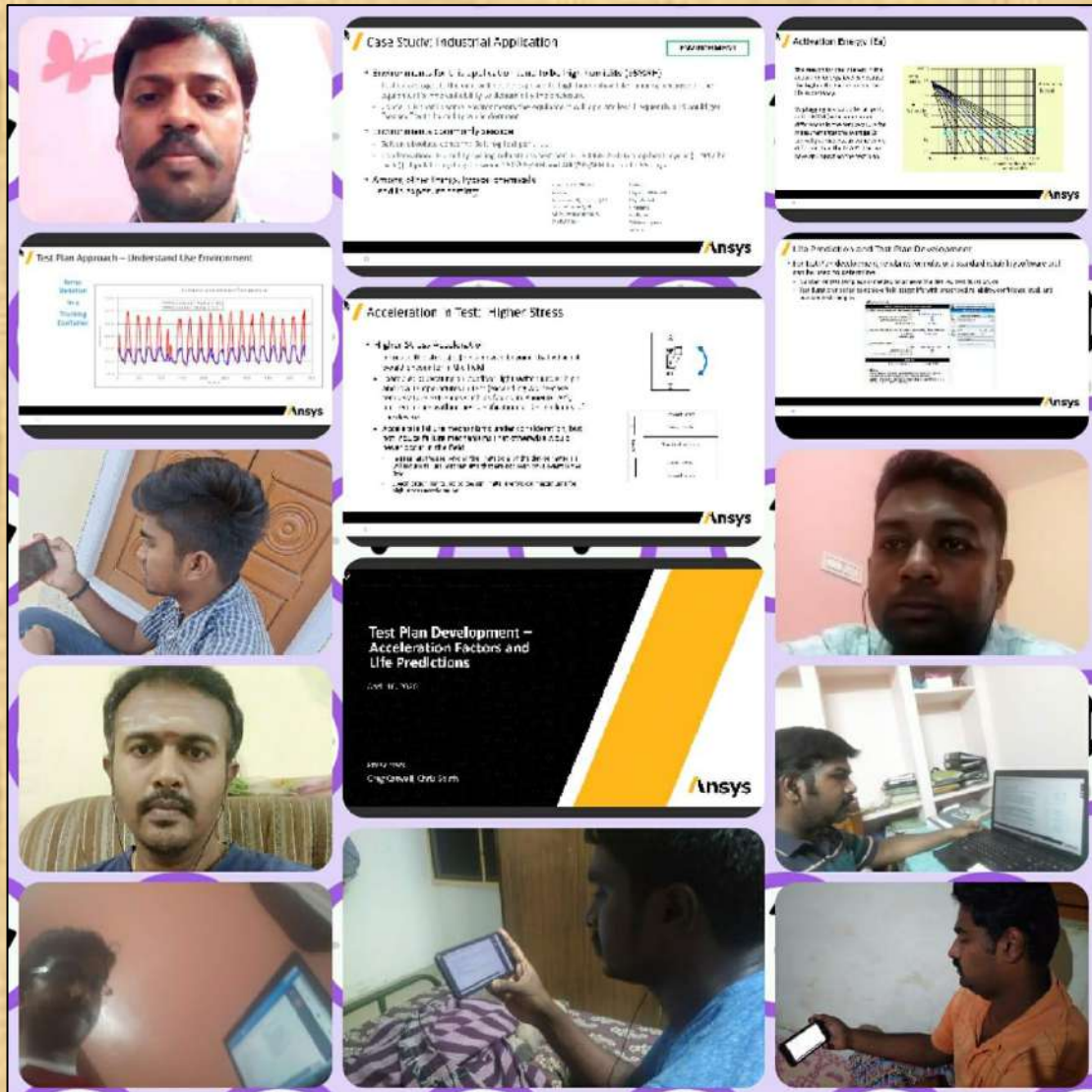
## SOM - MANAGING SALES AFTER DISASTERS



The Institution's Innovation Council (IIC) of SKCET and School of Management organised a Webinar on the topic '**Managing Sales after Disasters - a Case approach**' on 13.04.2020. **Mr. Vishnu M**, Account Manager, Middle East and Africa - Freshworks was the resource person of the event. IIC students and faculty members from various departments attended the event. The key points were how disaster will impact the Sales, how to recuperate, applying the 5R strategy, adapting to the new normal, different approach to encourage sales and the Expansion strategy. Students also interacted with the guest on the strategies adapting to the new normal and how to handle the current situation in India.



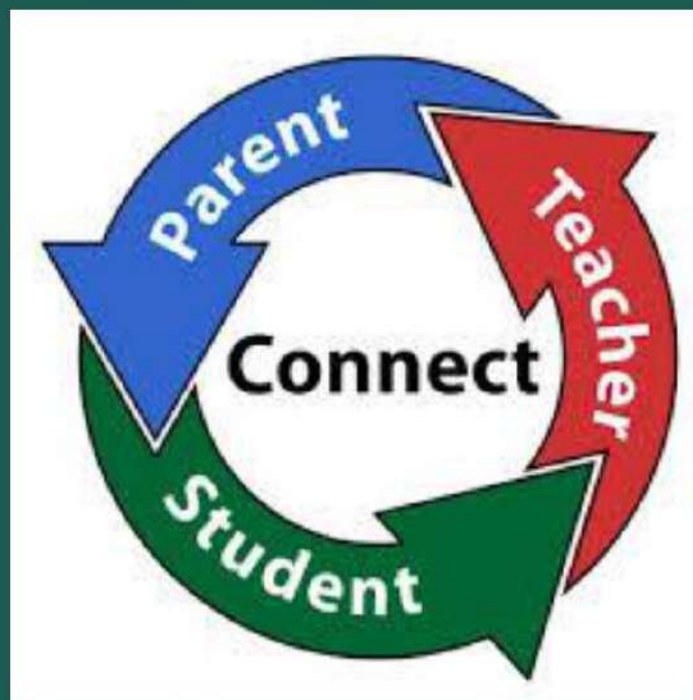
# MECH - ACCELERATION FACTORS AND LIFE PREDICTIONS



Department of **Mechanical Engineering** and **ANSYS** organized the webinar on the topic "**Acceleration Factors and Life Predictions**" on 16/04/2020 **Mr.Greg Caswell** and **Mr.Chris South**, Application Engineers of ANSYS were the resource persons of the session. They explained about the acceleration factors and its impact on test protocols and their role in quickly determining the faults and failures of a product while analysing. Faculty and students actively participated in the session.



# TUTOR WARD MEETINGS



**e - Academia – Special Edition II**

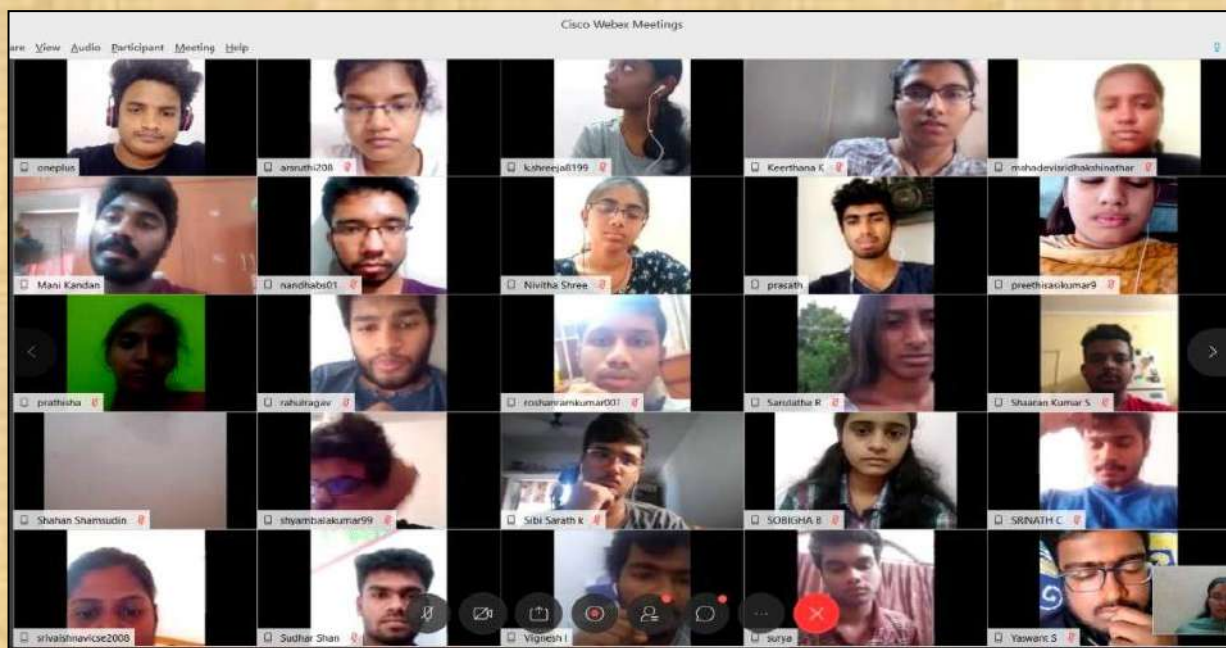


## ECE – ACADEMIC REVIEW MEETING



**Academic review meeting** was conducted for the **III year ECE students**. Parents actively involved and appreciated the efforts taken by SKCET during this lockdown period and assured their extended support towards learning and participation. Placement test, End semester Preparations, Placement activities, Performance analysis of CIA -3, Activities scheduled for students, Resource available from SKCET to learn and WIPRO test performance were the agenda of the meeting.

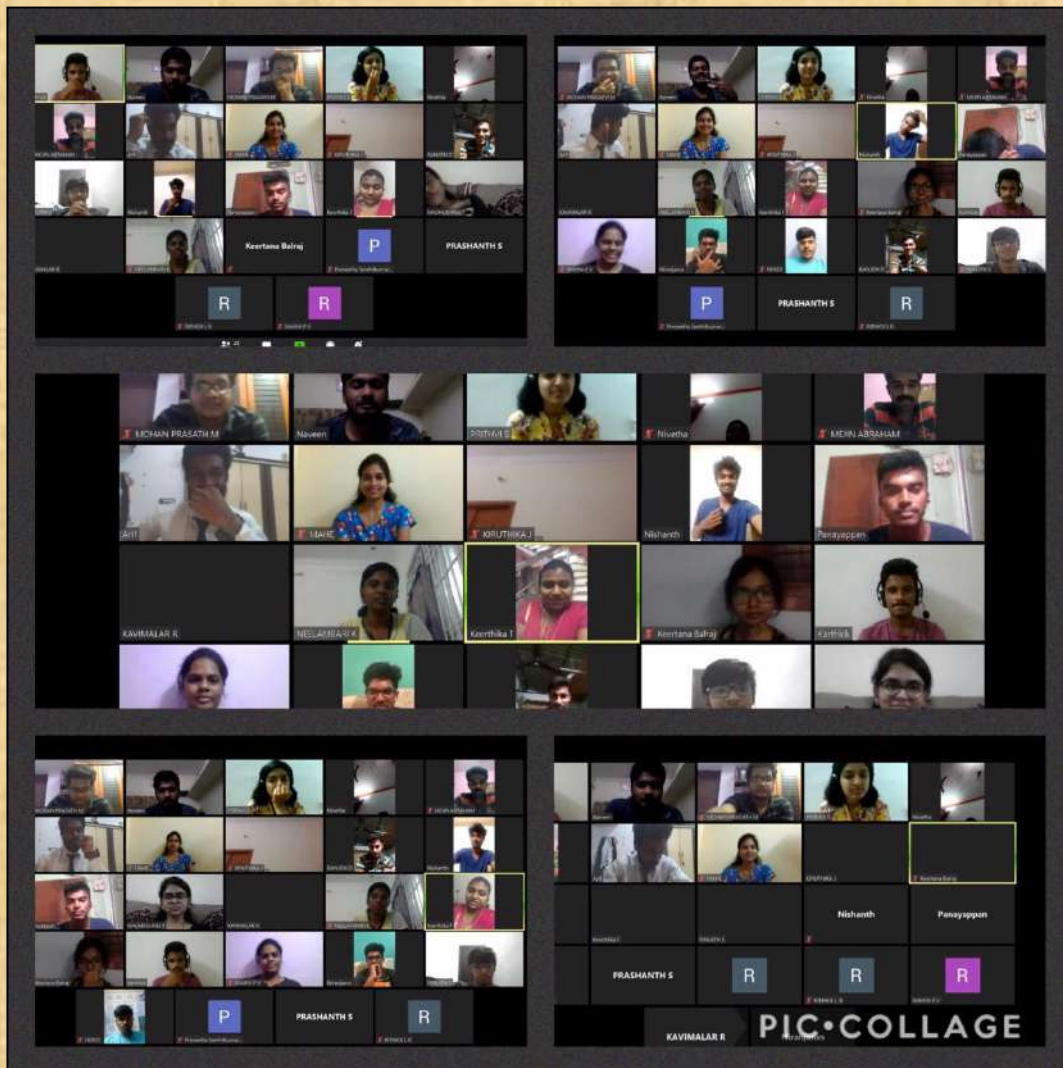
## CSE - TUTOR WARD MEETING – II YEARS



Tutor ward meeting was conducted for the **Second and Third** year students by the Tutors on 14.04.2020 and 15.04.2020 through WebEx meeting app. CIA 3 performance, Bootcamp, T1, InfyTq, TCS Codevita preparation, participation in upcoming webinars and online courses, participation in Hackathon, Samadhan and End Semester preparation were the topics discussed during the meeting.

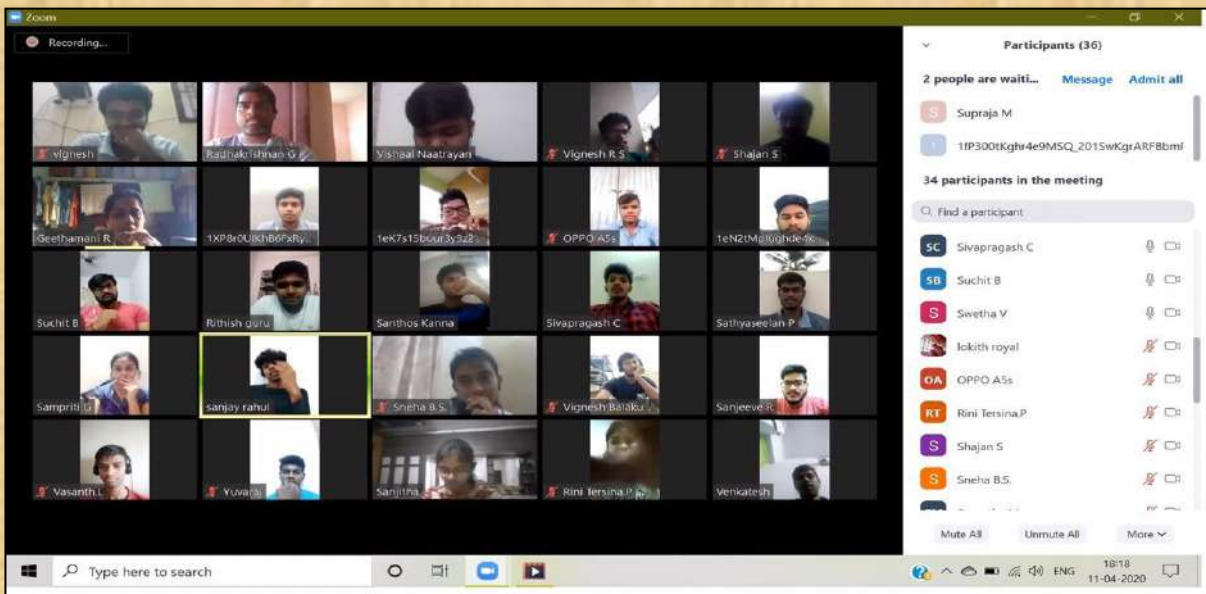
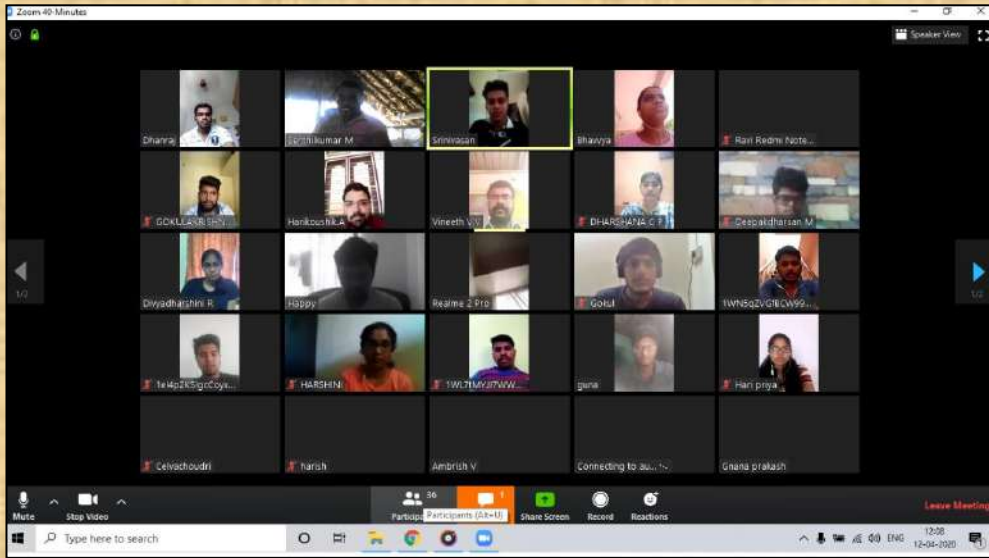


## IT- TUTOR WARD MEETING



**Ms.T.Keerthika**, Assistant Professor, Department of Information Technology, organized Tutor Ward meeting on 13.04.2020 for **Third year IT B** students via ZOOM app. Performance of CIA 3, Mini Project Review preparation, Online performance test preparation, End semester exam preparation, Upcoming webinar series, Samadhan and Hackathon Events were the points discussed.

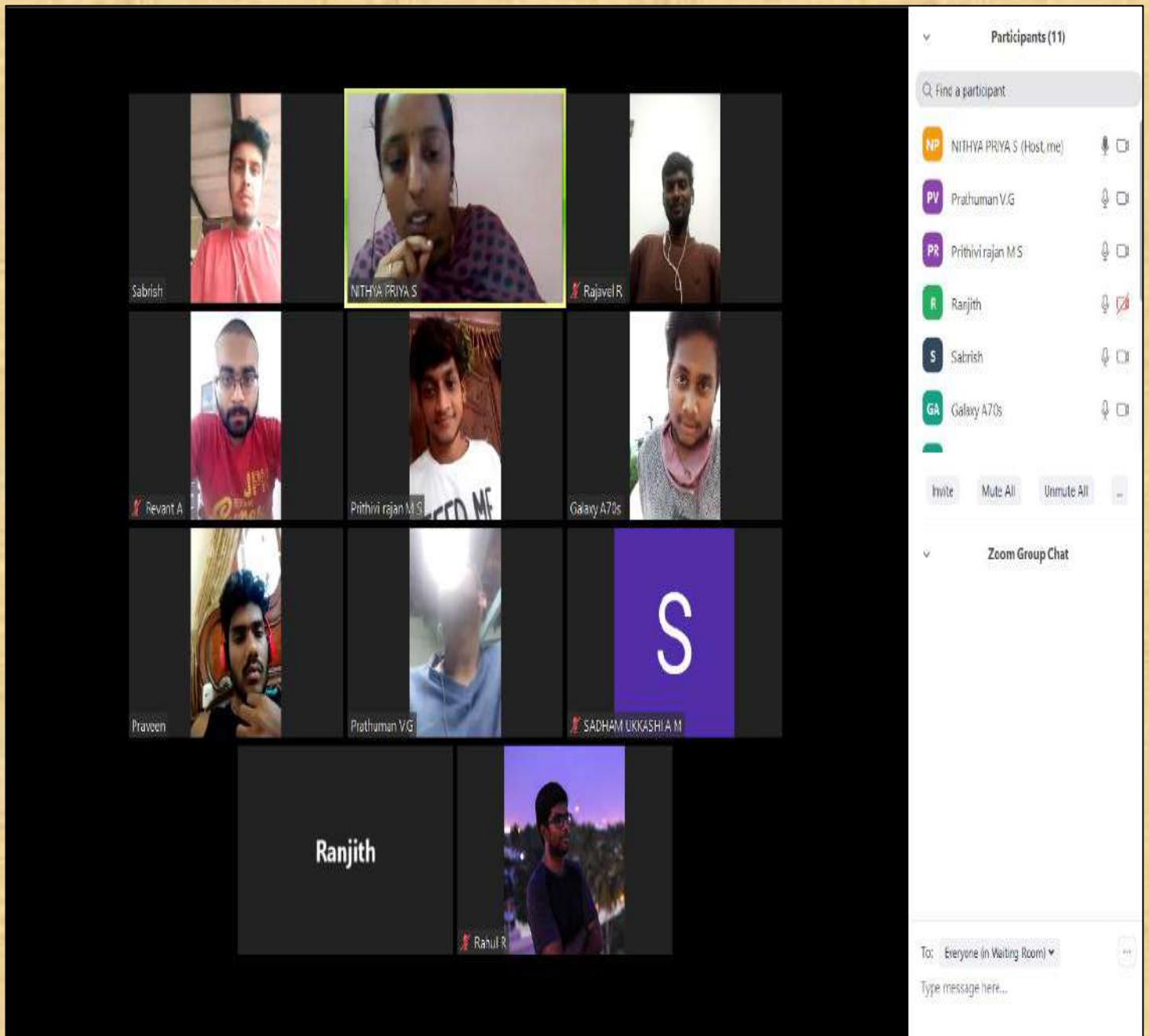
# EEE - TUTOR WARD MEETING



**Second year and Third year** Tutors of EEE Department conducted tutor ward meeting through Zoom cloud app. The Pointers of discussion were CIA 3 Performance , Mini Project Review Preparation, Placement Preparation and online test Performance, End Semester exam preparation, Participation in Samadhan and other competition , online classes and IIC webinars & leadership talks.

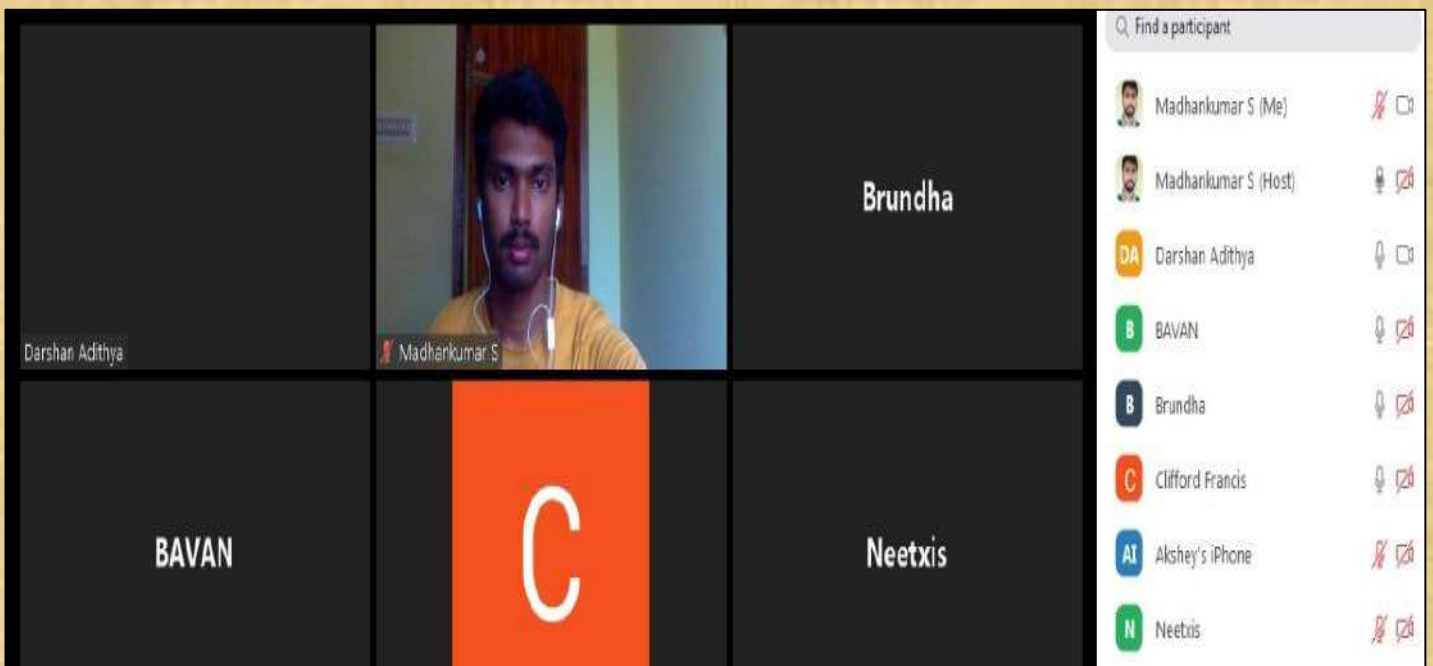
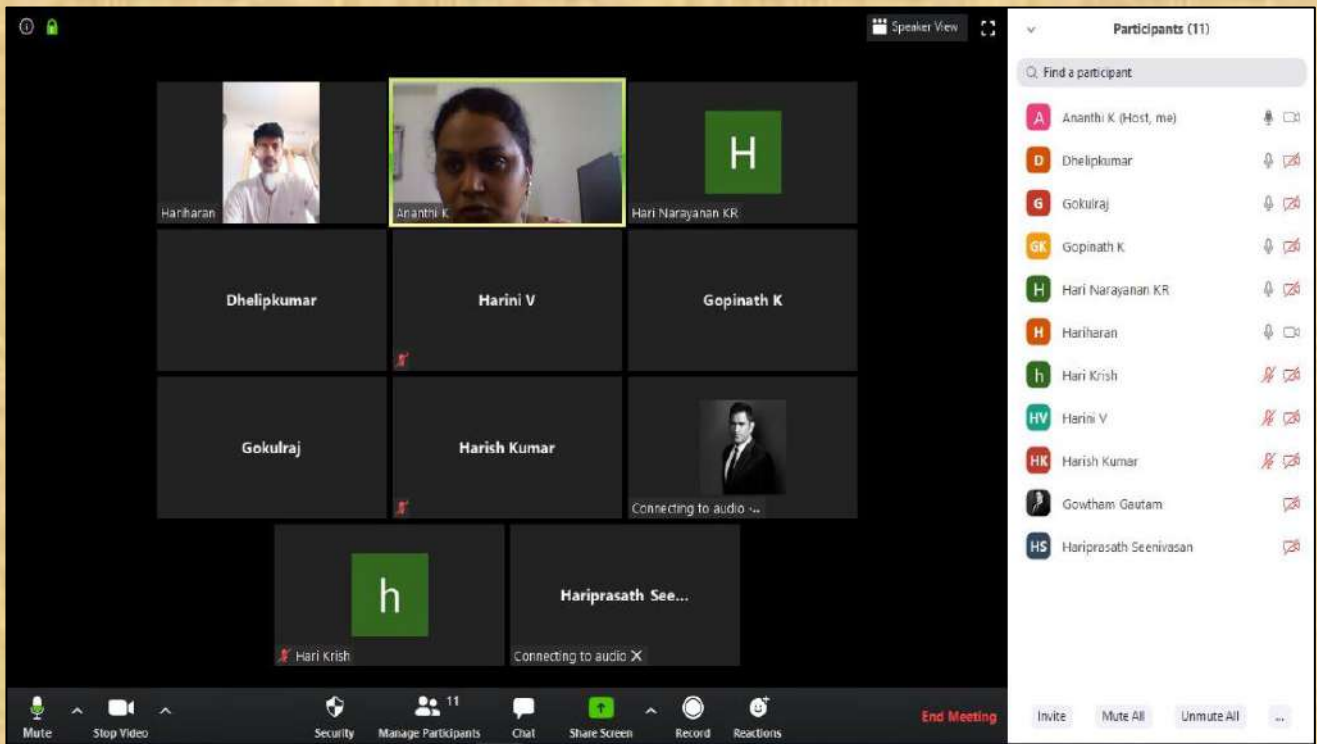


## MCT - TUTOR WARD MEETING



**Ms. K. Ananthi** and **Mr. S. Madhankumar**, Assistant Professors from the Department of MCT conducted Tutor ward meeting for **II MCT A** students using Zoom cloud Meeting on 15.04.2020.

## MCT - TUTOR WARD MEETING



Tutor ward meeting was conducted for **III year MCT B** students through Zoom cloud meeting on 16.04.2020. Points discussed were Semester Preparation, Wipro NASSCOM course and Placement Preparation.







# NPTEL SPECIAL LECTURES

## NPTEL

National Programme on Technology Enhanced Learning



1000+ courses

20,000+ video hours

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<http://nptel.ac.in/>

2257 5905/08

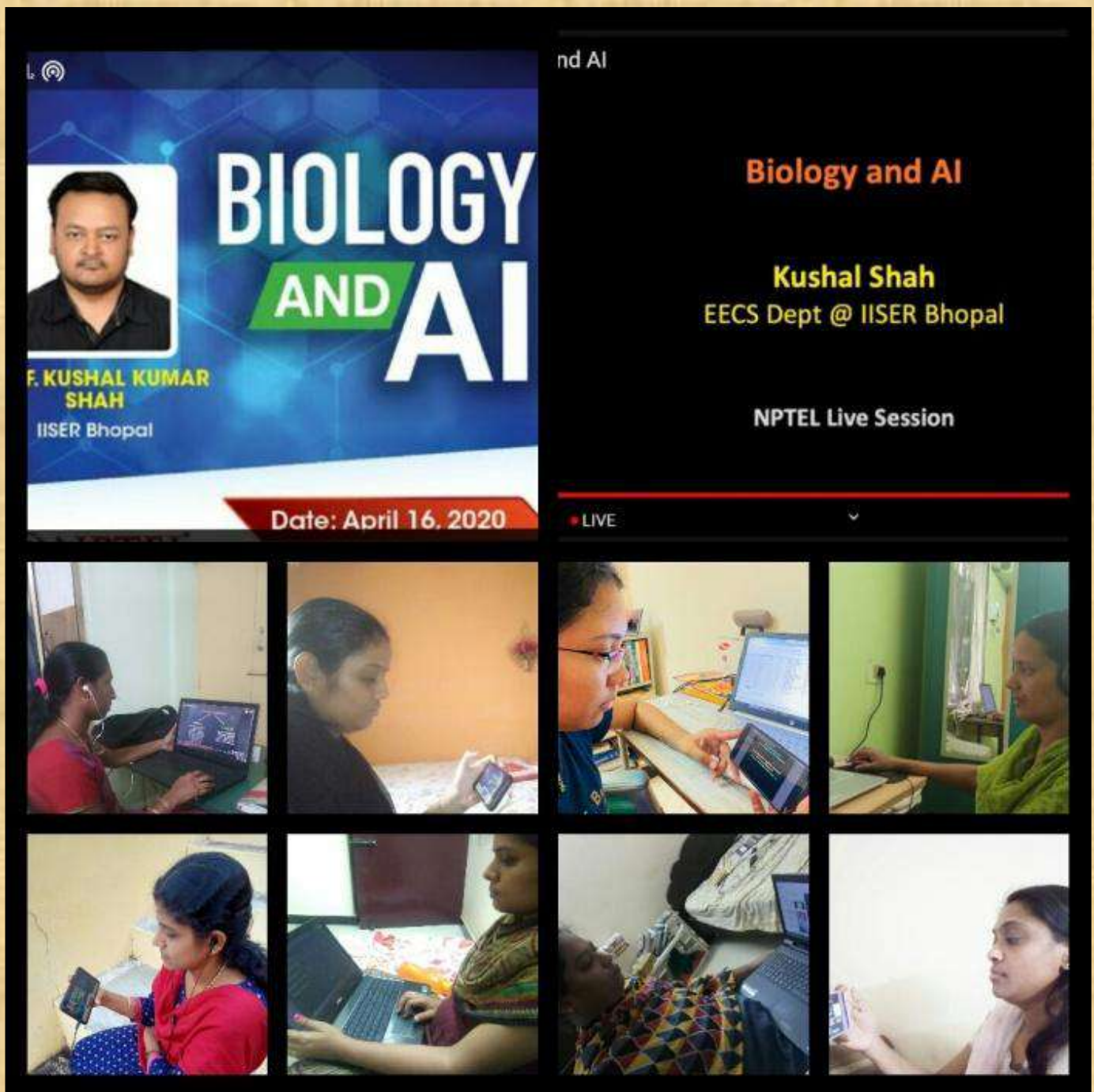
[nptel@iitm.ac.in](mailto:nptel@iitm.ac.in)

NPTEL Office: Web Studio,  
3rd Floor, IC & SR Building,  
IIT Madras, Chennai - 600036

## e - Academia – Special Edition II



## CSE - NPTEL ONLINE SPECIAL LECTURE #1

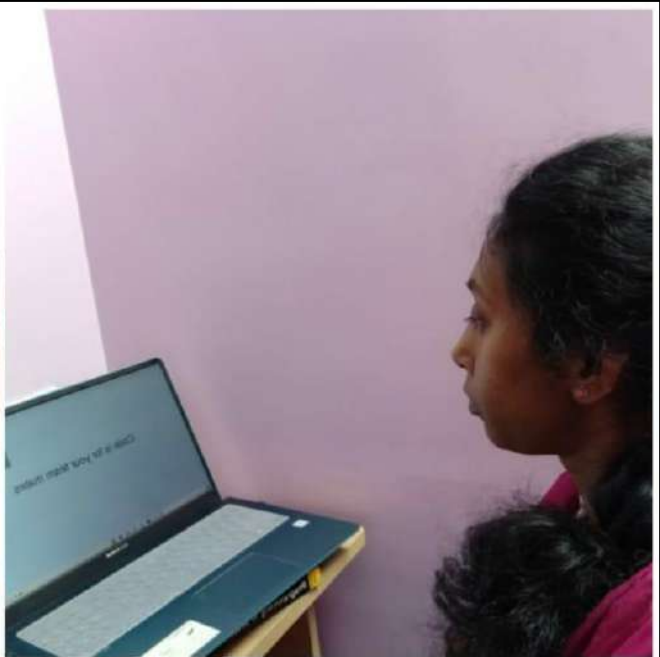


The screenshot displays the NPTEL live session interface. On the left, a banner for the lecture "BIOLOGY AND AI" by F. KUSHAL KUMAR SHAH, IISER Bhopal, dated April 16, 2020, is visible. On the right, the session title "Biology and AI" and the speaker's name "Kushal Shah, EECS Dept @ IISER Bhopal" are shown. Below the banner, a grid of eight small video windows shows various faculty members attending the session from their offices or homes, some using laptops and others smartphones.

Faculty Members from the Department of CSE attended the NPTEL online special lectures series on the topic "**Biology and AI**" on 16.04.2020. Resource Person: Prof. Kushal Kumar Shah, Professor, IISER Bhopal.

## IT - NPTEL ONLINE SPECIAL LECTURE #2

Topic : **How to be a good software developer**  
 Speaker : **Mr. Thejesh GN**  
 Profession : **Senior Developer and Architect**  
 Time : **6.00pm**  
 Link to watch : [https://youtu.be/EC95EMi\\_zlk](https://youtu.be/EC95EMi_zlk)



Faculty members from the Department of **Information Technology** attended online special lectures series on “**How to be a Good Software Developer**” by G.N.Thejesh, Co-Founder, Datameet.



## EEE - NPTEL ONLINE VIDEO SERIES #3



Faculty members from the Department of **EEE** attended the online lecture series from 13.04.2020 to 16.04.2020 on various topics like Film Sense, Career options available for students, What does a future in journalism, How to be a good software Engineer, and Biology and AI.



## IT - NPTEL ONLINE VIDEO SERIES #4



Faculty and Students from the Department of **Information Technology** attended NPTEL online special lecture series "**Biology and AI**", by Prof.Kushal Kumar, IISER, Bhopal, on 16.04.2020.

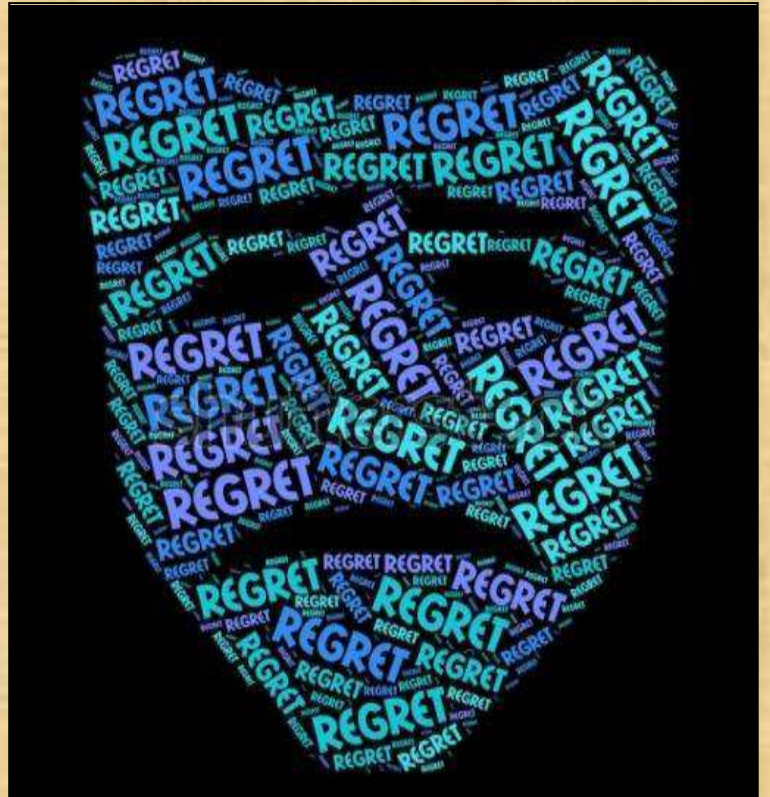


## IT - NPTEL ONLINE VIDEO SERIES #5



CSE Faculty members attended NPTEL Special Lecture Series - Live Session on "In Response to COVID19: Time Management" on 17.4.2020. Speaker: **Dr. Pratima Khandelwal**, Prof & Head, Founder, Global Academy of Technology, Bangalore and FlyHigh Bangalore.

## WORD OF THE WEEK - REMORSE



**Meaning:** The feeling of being extremely sorry for something wrong or bad that you have done, regret.

**Remorse in a sentence:**

- I felt guilty and full of remorse.
- She felt no remorse at leaving them without notice.
- He learned the remorse of hangovers and overeating.
- He learned the remorse of hangovers and overeating.
- Bill felt remorse when he crashed his friend's car.





# ICT SKYCAMPUS KNOWLEDGE SERIES



**e - Academia – Special Edition II**

## CSE - ICT ACADEMY SKYCAMPUS WEBINAR



Faculty members from the Department of **CSE** attended the **nine** days Webinar series of **Skycampus Digital Knowledge Series 2020 - Season 1 - Technology for Future** by ICTACT.



## ECE - ICT ACADEMY SKYCAMPUS WEBINAR

ICTACADEMY

**Skycampus**  
DIGITAL KNOWLEDGE SERIES  
— 2020 —  
SEASON 1  
TECHNOLOGY FOR FUTURE

**SESSION 5**  
**THE FUTURE OF MAKING**  
14 April 2020  
11 am to 12 pm (Tuesday)

**Anand V Pujari**  
Autodesk

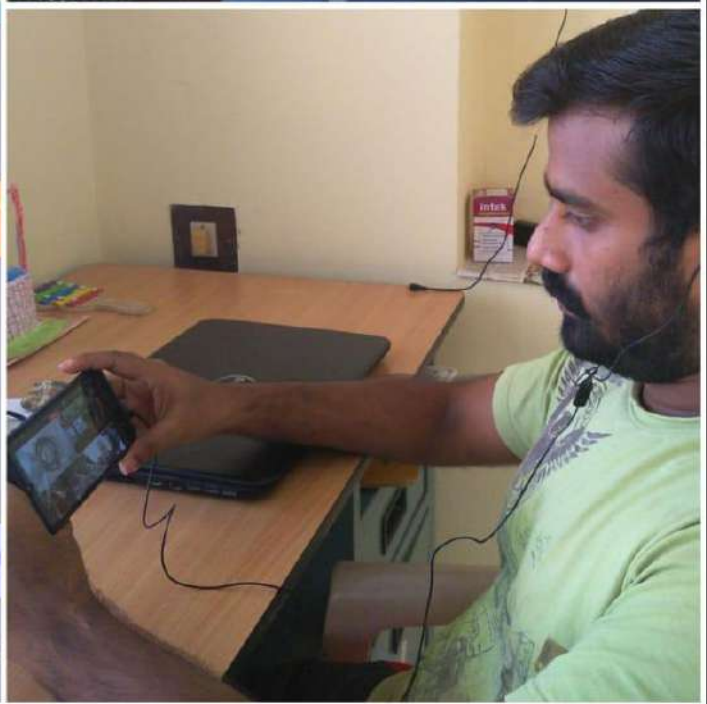
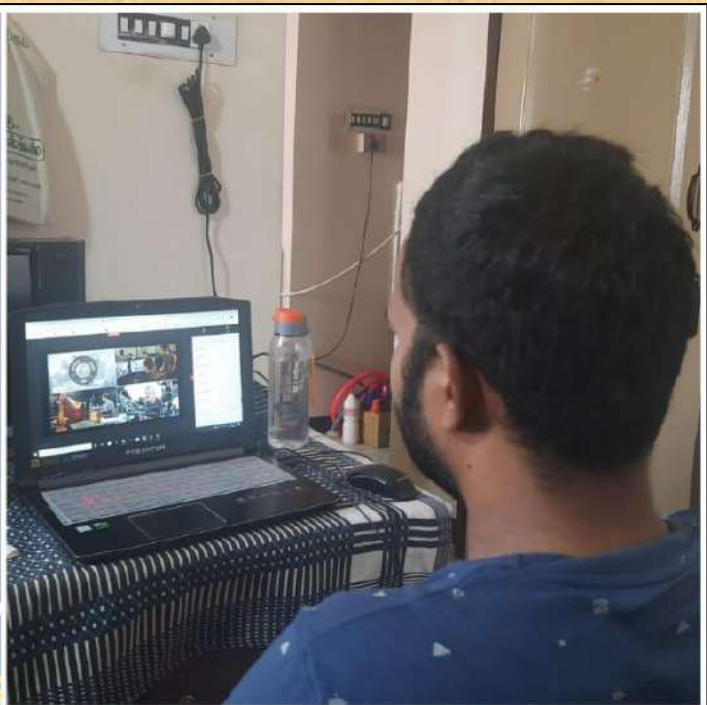


Faculty members from Department of **ECE** attended the Online Webinar conducted by ICT Academy Sky Campus Knowledge Series 2020.



## EEE - ICT ACADEMY SKYCAMPUS WEBINAR

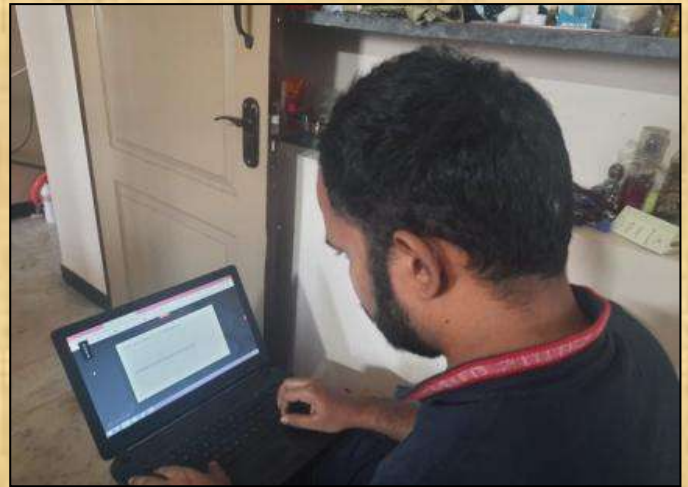
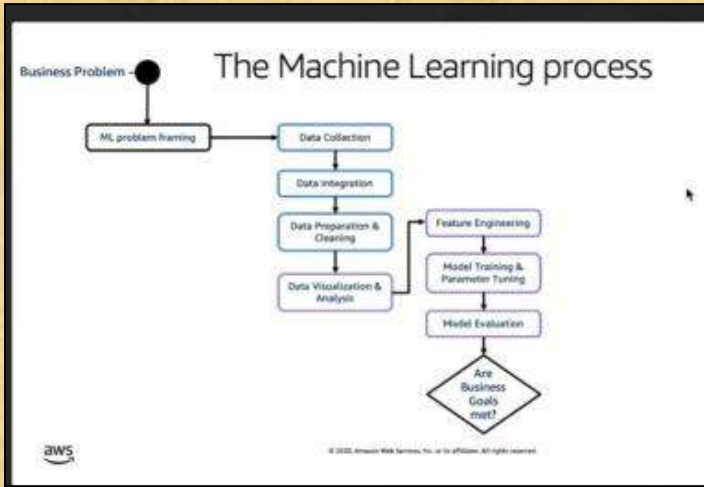
  
**ICTACADEMY**  
 Presents  
  
**Skycampus**  
 DIGITAL KNOWLEDGE SERIES  
 — 2020 —  
**SEASON 1**  
 TECHNOLOGY FOR FUTURE  
**EXTENDED TO**  
 10 DAYS - 9 EXPERTS - 9 SESSIONS  
 from 14<sup>TH</sup> Apr 2020 : Every Day 10:00 AM to 11:30 AM  
[WWW.ICTACADEMY.IN/SKYCAMPUS](http://WWW.ICTACADEMY.IN/SKYCAMPUS)  
 Exclusive For Registered Participants of Sri Krishna College of Engineering and Technology



Faculty members from the Department of ECE attended the Skycampus Digital Knowledge Series - **Season 1- The Future of making** ,hosted by ICT Academy, Mr.Anbu, Mr.Saravanan, Mr.Anand Pujari on 14.04.2020.



# EEE - ICT ACADEMY SKYCAMPUS WEBINAR



Put AI to work for your business

Modernize your contact center to improve customer service

conversational chat bots | call transcription | intelligent routing | sentiment analysis | VoC analytics  
text-to-speech | multilingual omni-channel communication

POLY TRANSCRIBE TRANSLATE ENGAGEHUB LEX

Vonage RedFire Liberty Mutual

aws



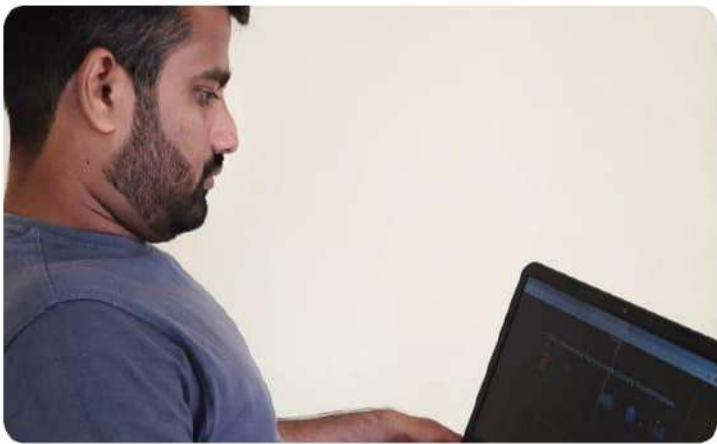
The Machine Learning Process:  
From Business Problem to ML in Production

Durga Prasad Kakaraparthi  
Solutions Architecture

aws

EEE faculty members of attended the ICT Academy Webinar series of Skycampus Digital Knowledge on the topic "Introduction to AI & ML" by Mr.Durga Prasad Kakaraparthi, Solutions Architecture on 15.04.2020.

# EEE - ICT ACADEMY SKYCAMPUS WEBINAR



Everything is Changing

### Cisco: Accelerating Digitization & Country Transformation



Technology Association/Provider	Value	% of respondents
Class	22,81,11	21.4%
CompTIA	20,16,12	21.2%
Microsoft	20,16,12	21.2%
VMware	13,71,34	13.2%
Oracle	10,85,10	9.8%
IBM	9,98,8	10.5%
ANSI	6,17,15	6.4%
ITIL	5,84,8	6.1%
ISACA	5,24,8	5.5%
LPJ	4,91,10	5.1%
IEEE	4,26,11	4.5%
AI Council	3,81,13	4.0%
Star Line	3,81,13	4.0%
ISC	3,81,13	4.0%
Class	2,96,15	3.1%
Large Networks	2,96,15	3.1%
IT Security	2,96,15	3.1%
Public Networks	2,96,15	3.1%
Parsons	2,96,15	3.1%
Net Inc	2,96,15	3.1%

Faculty members from the Department of **EEE** attended the ICT Academy Webinar series of Skycampus Digital Knowledge Series on '**Cybersecurity Essentials**' by Mr. Ananth and Mr. Murugan Vasudevan, CISCO on 16.04.2020.



# EEE - ICT ACADEMY SKYCAMPUS WEBINAR



What is Design Thinking?

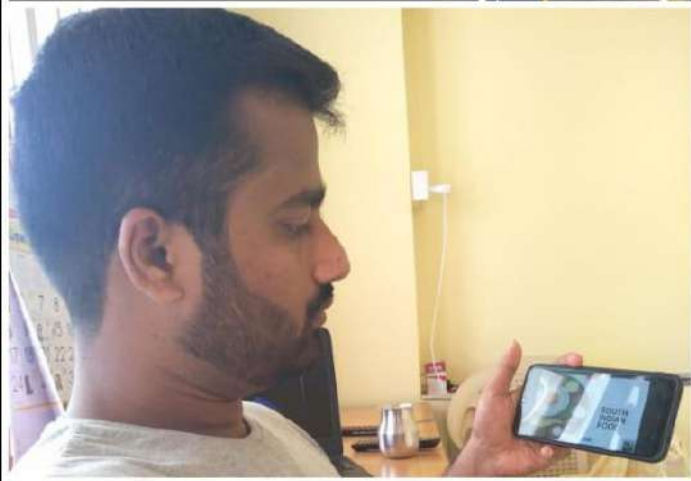
- Human Centered
- Future Focused
- Creates Value

TECHNOLOGY FOR FUTURE  
9 DAYS - 9 EXPERTS - 9 SESSIONS  
9th to 18th Apr 2020 : Every Day 10 - 11 am  
[WWW.ICTACADEMY.IN/SKYCAMPUS](http://WWW.ICTACADEMY.IN/SKYCAMPUS)

**Skycampus**  
DIGITAL KNOWLEDGE SERIES  
2020

SESSION 8 : 17 APR 2020 - 10.00 AM  
**DESIGN THINKING**  
Preparing For the Disruption

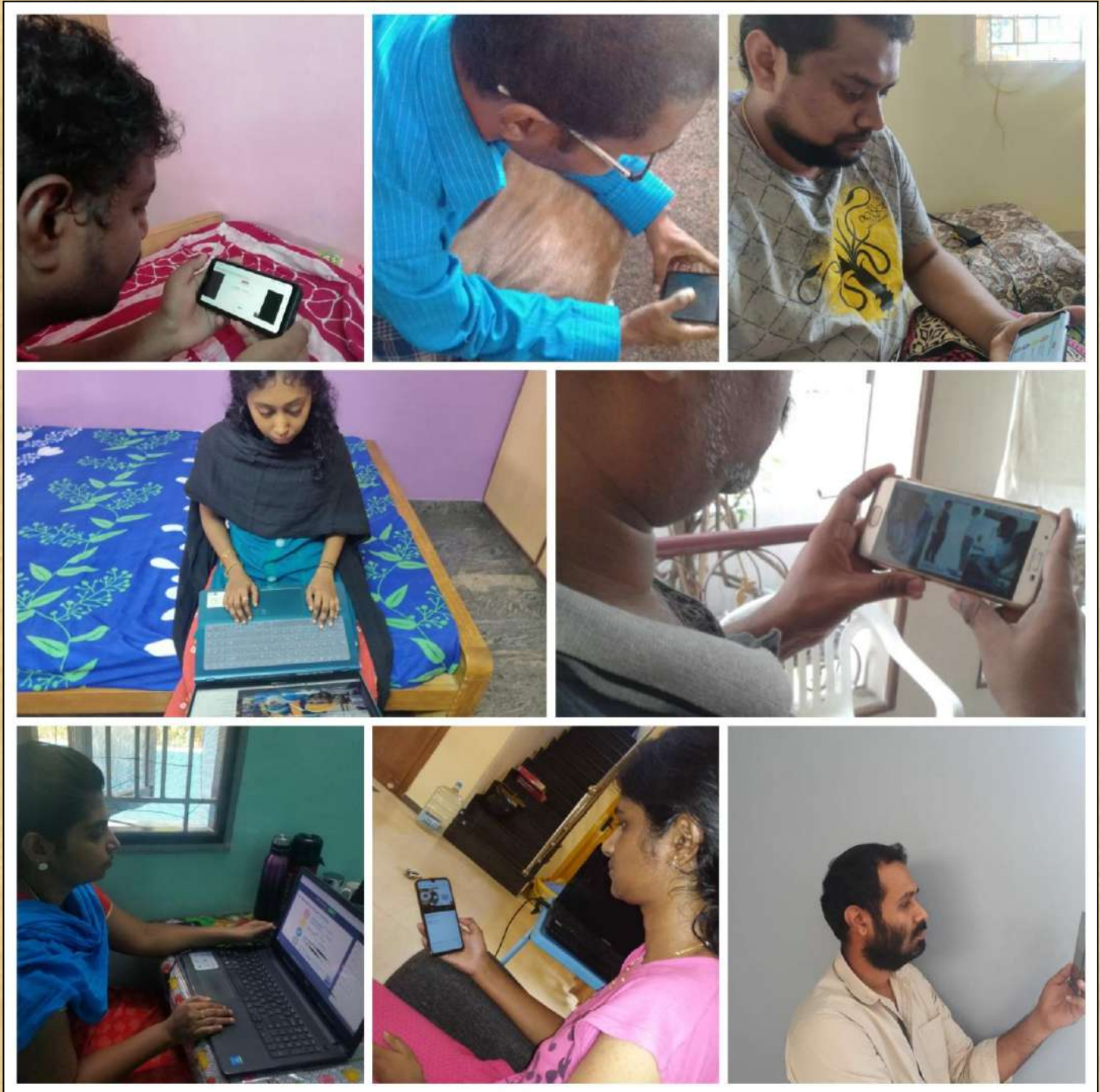
Expert Session by:  
**Dr Anbu Rathinavel**, Chief Design Officer  
Intellect Design Arena



Department of **EEE** faculty members attended the ICT Academy Webinar series of Skycampus Digital Knowledge Series on '**Design Thinking**' by **Dr.Anbu Rathinavel**, Chief Design officer, Intellect Design Arena on 17.04.2020.



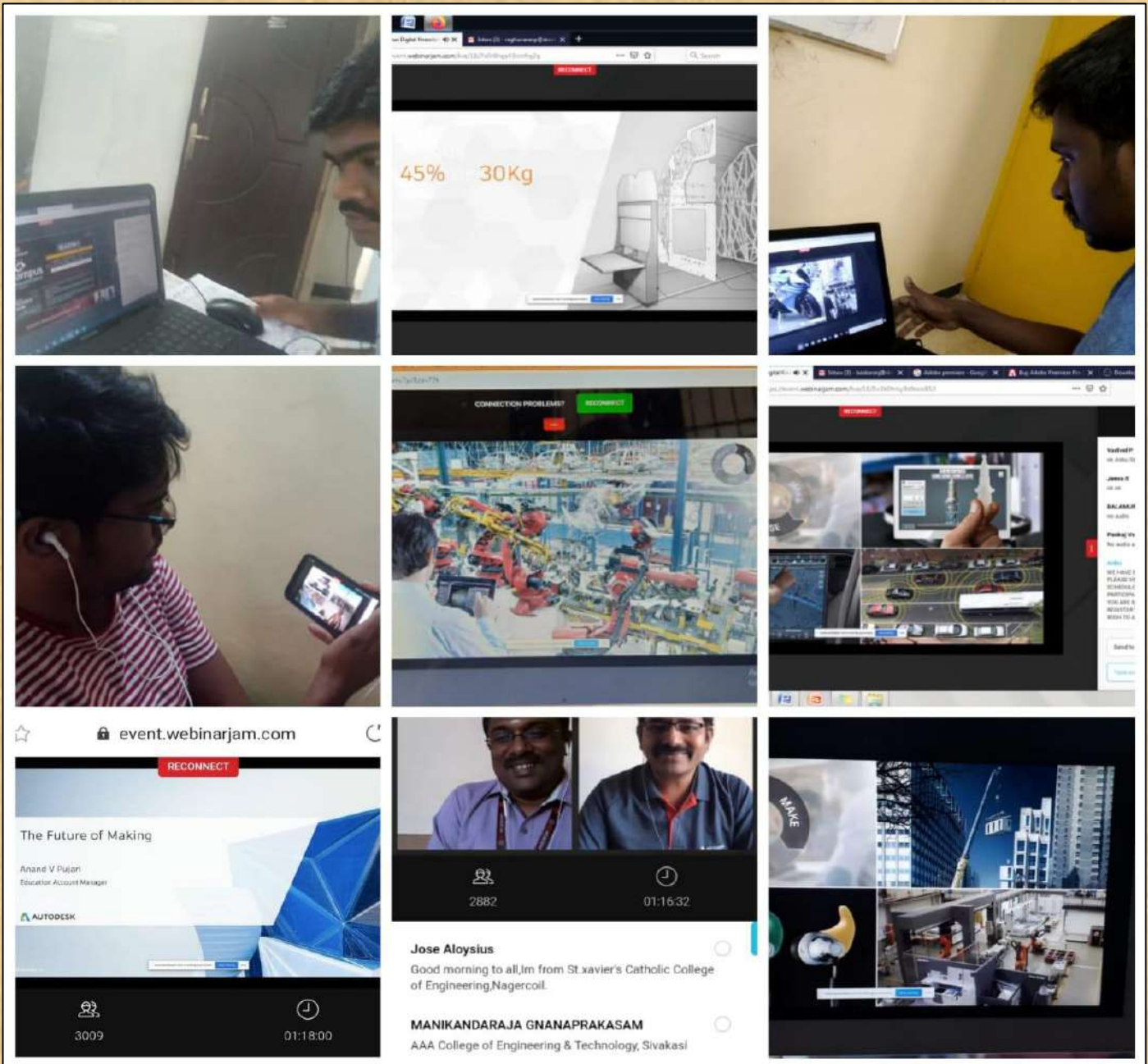
## IT - ICT ACADEMY SKYCAMPUS WEBINAR



Faculty members from the Department of **Information Technology** attended the ICT Academy Webinar series of Skycampus Digital Knowledge series on “**Design thinking Preparing the Mind for Disruption**” by Dr.Anbu Rathinavel, Chief Design Officer, Intellect Design Arena on 17.04.2020.



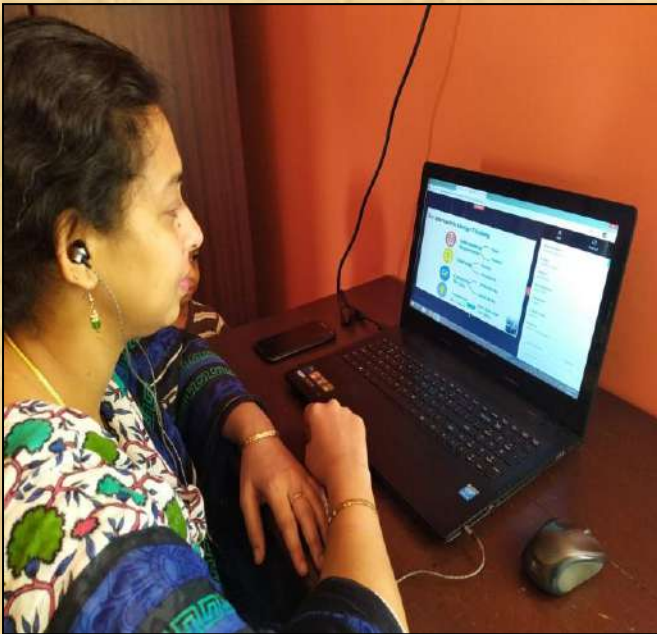
## MECH - THE FUTURE OF MAKING



Faculty members and students from the Department of **Mechanical Engineering** attended a webinar on the topic “**The Future of Making**” by ICT Academy Skycampus Digital Knowledge Series. **Mr. Anand V Pujari**, Educational Support, Autodesk is the resource person of the event. He discussed about the Autodesk applications, concurrent design and gap between designs to manufacturing.



## ECE – ICT ACADEMY SKYCAMPUS WEBINAR



ICTACADEMY

**Skycampus**  
DIGITAL KNOWLEDGE SERIES  
2020  
SEASON 1  
TECHNOLOGY FOR FUTURE

SESSION 8  
**DESIGN THINKING-**  
PREPARING THE MIND FOR DISRUPTION  
10:00 AM - 11:00 AM  
17 APRIL 2020

**Dr. Anbu Rathinavel**  
Intellect Design Arena

**About the Speaker**

As a strong believer in Design Thinking as a Way-of-life, and bringing the same as culture/DNA within the organization and society at large.  
An executive coach, extensively use the Strength Philosophy coaching model that helps corporate leaders and managers in focusing on lasting impact and creating a tribe within the teams to ensure application of design principles and delivery excellence.  
With interest & background in Artificial Intelligence, he is passionate about understanding the evolving intricacies of Human Emotions design.

**MODERATOR: Dr B Anbuthambi, President, ICT Academy**

For registrations  
[www.ictacademy.in/skycampus](http://www.ictacademy.in/skycampus)

**LIVE WEBINAR** For further information please contact [sathish@ictacademy.in](mailto:sathish@ictacademy.in)

Faculty Members from ECE Department has attended the 8th Session of #Skycampus Digital Knowledge Series 2020 - Season-I webinar on "**Design Thinking**", handled by **Dr Anbu Rathinavel**, Intellect Design Arena Ltd, on 17th April 2020 from 10 - 11 AM, moderated by Dr Anbuthambi, President, ICT Academy.



# EEE - ICT ACADEMY SKYCAMPUS WEBINAR

### COVID-19 pushing Digital Transformation faster

Who led the digital transformation of your company?  
A) CEO  
B) CTO  
C) COVID-19

### Enterprise Technology Stack

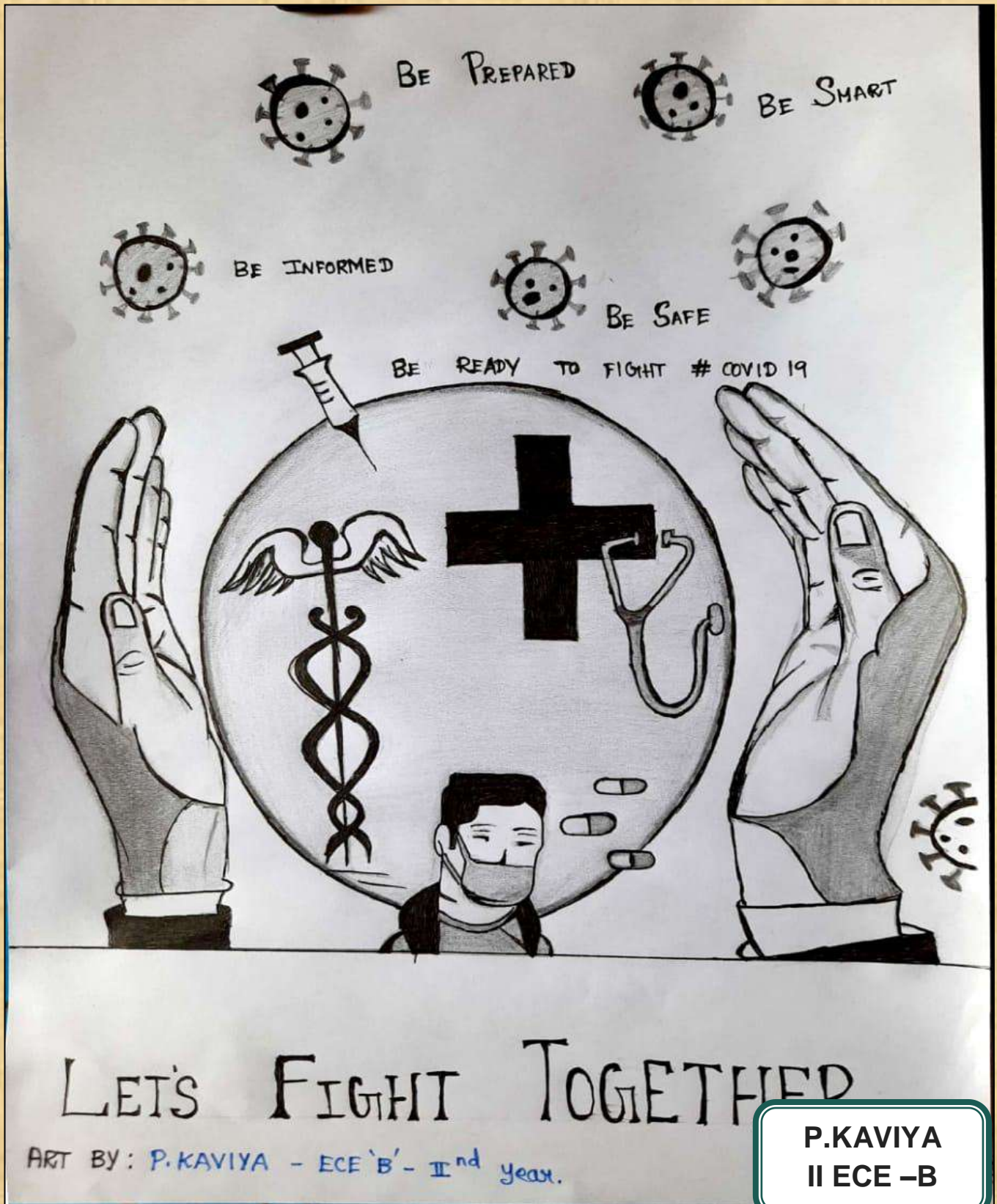
Enterprise Technology Stack



Department of EEE faculty members attended the ICT Academy Webinar series of Skycampus Digital Knowledge Series on 'Digital Transformation in Enterprise' by Mr.Sriram Parthasarathy, DXC Technology.



## ART MERAKI







## MYGOV PLEDGES



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## MCT - MYGOV QUIZ & PLEDGES



Faculty members from the Department of MCT actively participated in Covid19 online quiz conducted by IIC of SKCET and have received the certificates of commitment.





## FDP & STC



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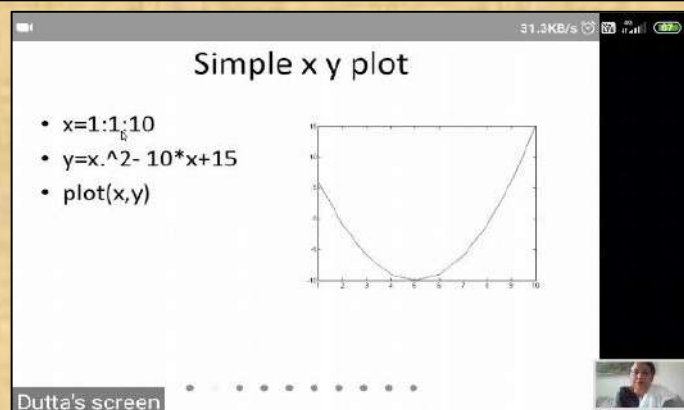
## CSE - AICTE SHORT TERM COURSE ON "IOT"



Faculty members of **CSE** attended five days AICTE recognized Short Term course on "**IOT**" (Internet of Things) organized by NITTTR, Chandigarh through Zoom. Sessions were handled by **Dr. K G Srinivasa**, Professor of CSE, NITTTR and **Mr. Ajay Kumar** CEO, Enovate Skill, NITTTR Startup, Chandigarh.



## S&H –NITTTR SHORT TERM COURSE



Dr.R.Ramesh, Mr.S.Pradeep, and Ms.A.Jayapradha, Assistant Professors from the Department of **Science and Humanities** of Maths domain attended one week **Short Term Course (STC)** via Zoom platform organized by **NITTTR, Chandigarh**. Prof.Maitreyee Dutta, Head, CSE Department, Chandigarh was the resource person. The session accentuated on **Introduction of Scilab and Matrix Functions 2D and 3D plots** in Day 1 and **Polynomials and Derivatives Using Sci Lab Programming** in the day 2 of the Short Term Course.

# S&H – NITTTR SHORT TERM COURSE:GLIMPSES

```

• p1=poly([3 2],x,'r');
• p2=poly([6 -5 1],x,'c');
• p3=p1+p2
• p4=p1*p2
• q1=1+x
• q2=1+2*x+x^2
• q=q1/q2
• q3=1+3*x+2*x^2
• q1/q3
• roots(p1)
• coeff(p2)

```

```

-->poly(0,'y')
y
-->inv_coeff(a,'y')
!-error 144
Undefined operation for the given operands,
check or define function %c_a_ for overload
at line 13 of function inv_coeff called
a=inv_coeff(a,'y')
-->al=inv_coeff(a,'y')

```

**Example**

```

s=poly(0,'x');
p=[x^2+1]^2*(x^2+x+3);
[xx,ac]=symvar(p*s);
p*p'*r

```

### Matrix Index

- The matrix indices begin from 1 (not 0 (as in C))
- The matrix indices must be positive integer

Given:

<b>A =</b>	<b>&gt;&gt; A(5)</b>	<b>&gt;&gt; A(3,2)</b>	<b>&gt;&gt; A(2,:)</b>	<b>&gt;&gt; A(1,2:2)</b>
$\begin{bmatrix} 3 & 5 & 3 \\ 6 & 8 & 2 \\ 2 & 7 & 3 \end{bmatrix}$	$\begin{matrix} ans = \\ 7 \end{matrix}$	$\begin{matrix} ans = \\ 7 \end{matrix}$	$\begin{matrix} ans = \\ 6 & 8 & 2 \end{matrix}$	$\begin{matrix} ans = \\ 5 \end{matrix}$

A(-2) A(0)  
!-error 21  
Invalid index.

A(4,2)  
!-error 21  
Invalid index.

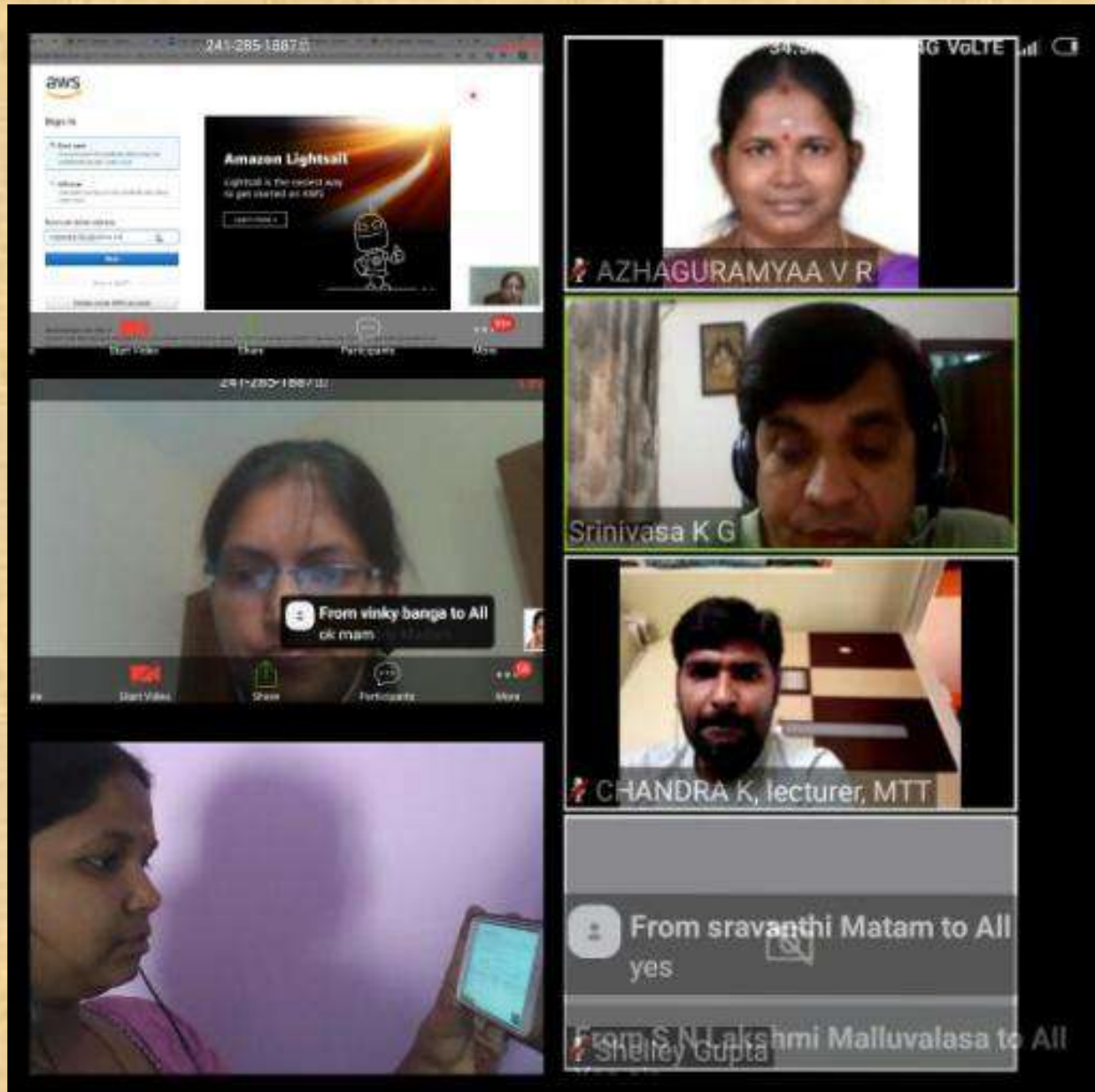
```

-->a=[1 2;3 4]
a =
     1     2
     3     4
-->inv_coeff(a)
Warning: redefining function: ma
ans =
     1     2
     3     4

```



## CSE - AICTE SHORT TERM COURSE ON CLOUD, FOG AND EDGE COMPUTING



**Mrs.V.R.Azhaguramyaa**, Assistant Professor, CSE attended AICTE recognized Short Term Course on "Cloud, Fog and Edge Computing" from 10.04.2020 to 14.04.2020 organized by NITTTR Chandigarh.

Day 1 - session 1 topic - Introduction to cloud computing

Day 1 - session 2 topic - AWS EC2 Instance creation.

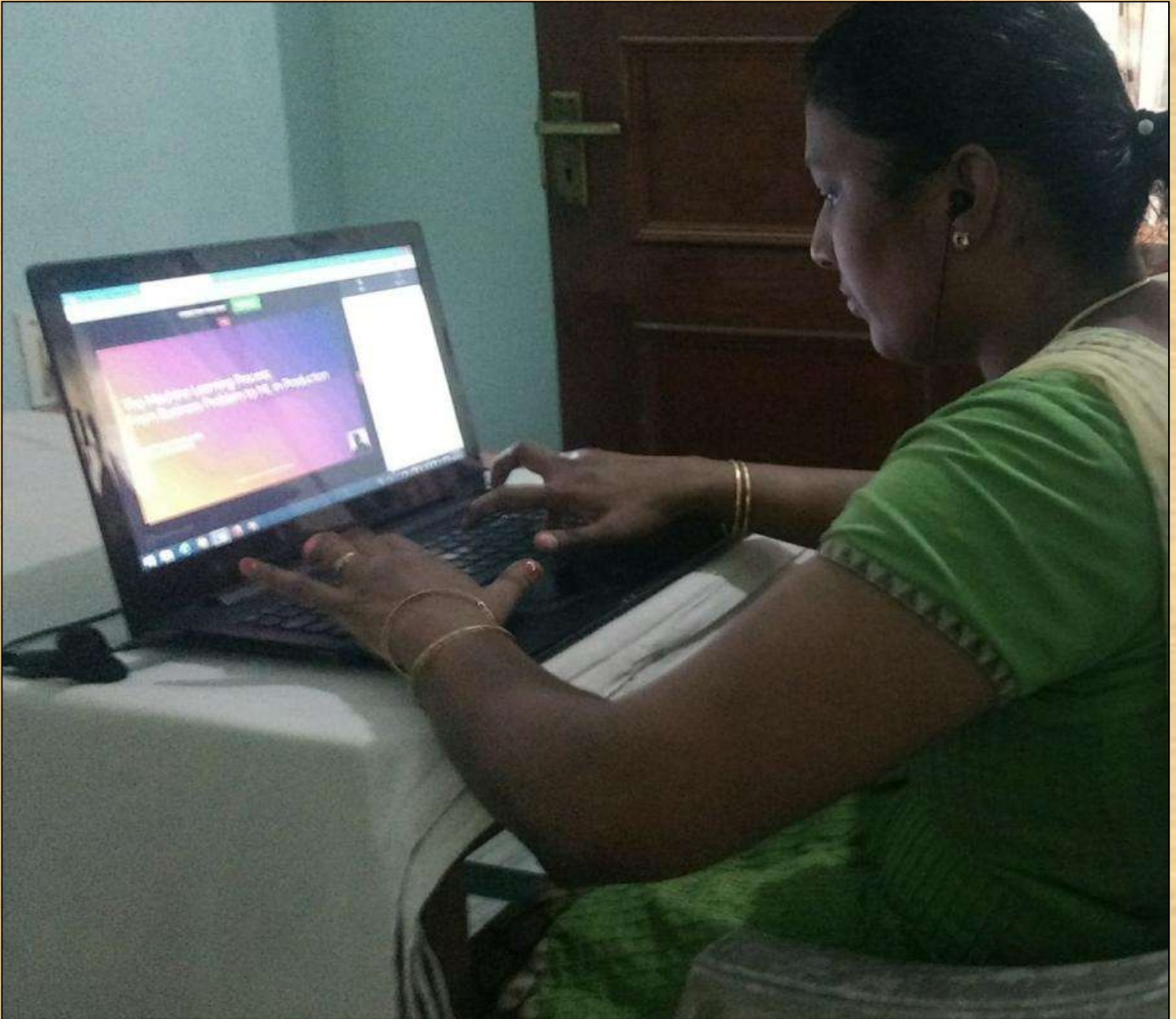
## ECE – SHORT TERM COURSE ON IoT



Faculty members from ECE Department attended the Short Term Course of National Institute of Technical Teachers Training and Research, Chandigarh from 15.04.2020 to 19.04.2020 via Zoom Platform on the topic 'Internet of Things'.

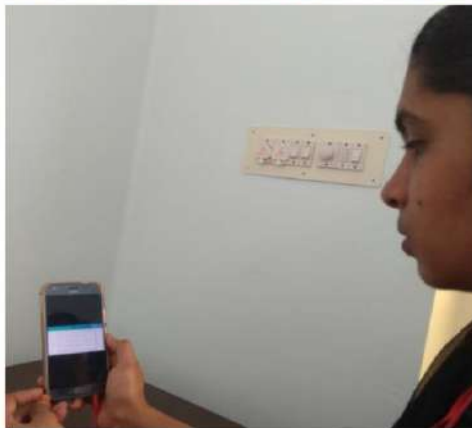


## MCT- INTRODUCTION TO AI AND ML



Faculty members from the Department of MCT attended the Sky campus Digital Knowledge series 2020 by ICACT Academy session - 6 titled **Introduction to AI and ML** by experts from Amazon Web service, India on 15.04.2020.

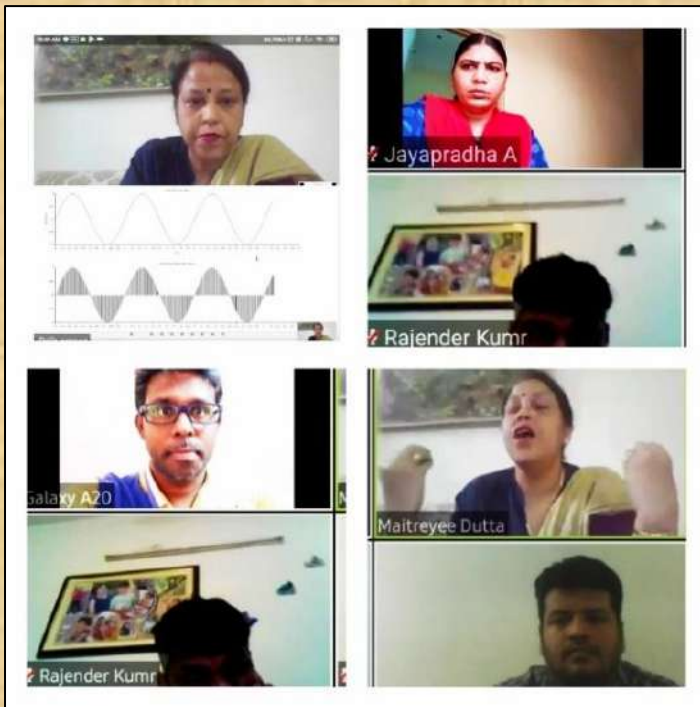
## IT- FDP ON AWS CLOUD PRACTITIONER ESSENTIALS



Faculty members from the Department of **Information Technology** attended a Faculty Development program on “**AWS Cloud Practitioner Essentials**” on 17.04.2020.

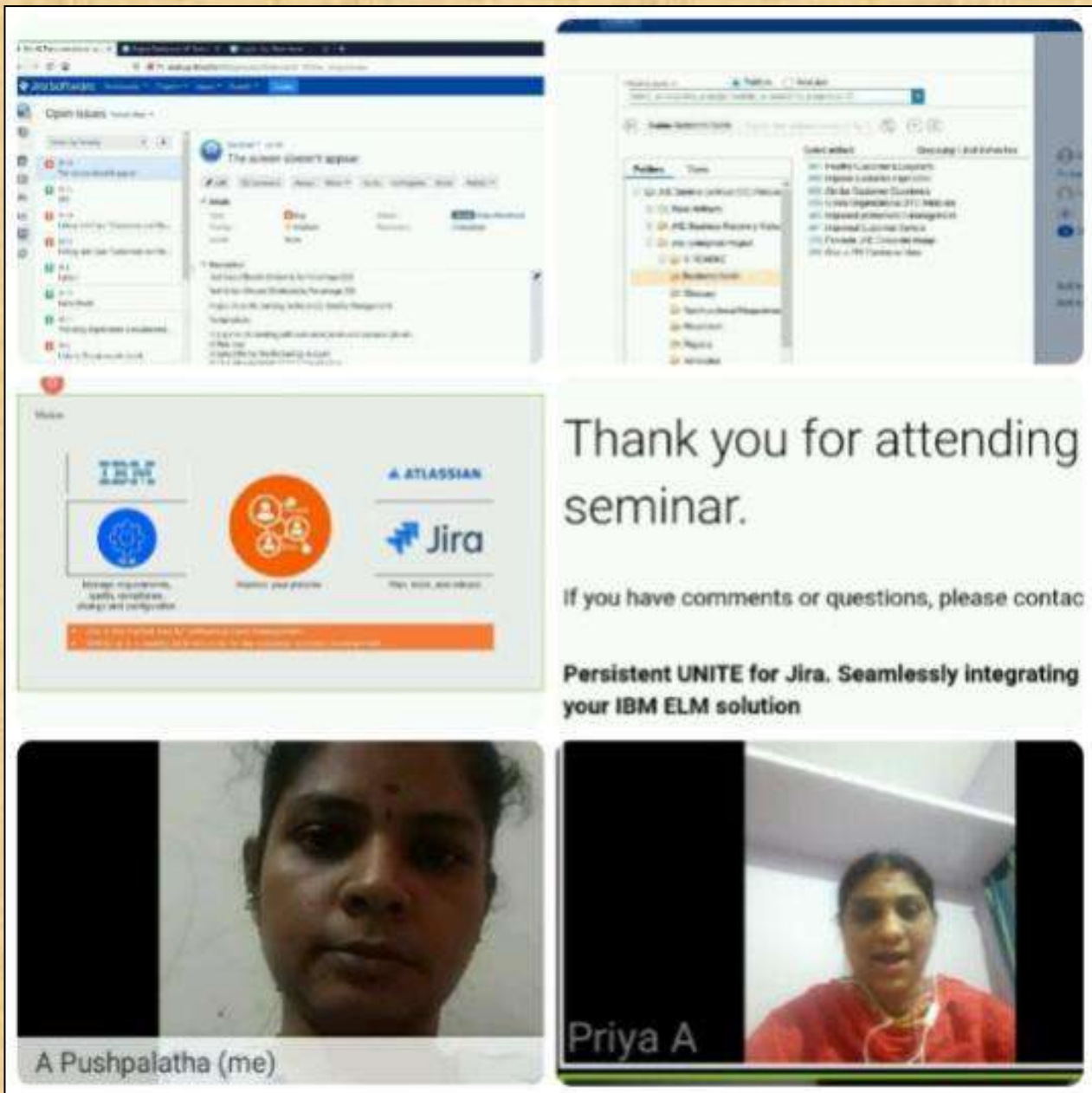


# S&H - NITTTR SHORT TERM COURSE-DAY 3 AND 4



**Dr.R.Ramesh, Mr.S.Pradeep, and Ms.A.Jayapradha**, Assistant Professors from the Department of **Science and Humanities** of Maths domain attended one week **Short Term Course (STC)** via Zoom platform organized by **NITTTR, Chandigarh**. **Prof.Maitreyee Dutta**, Head, CSE Department, Chandigarh was the resource person. The third day focused on **Signal Processing Using Sci Lab** and **Filter Design Using Sci Lab**. The fourth day was on Introduction on **Opencv Using Sci Lab**.

## CSE - WEBINAR ON PERSISTENT UNITE FOR JIRA



**Ms.A.Priya and Ms.A.Pushpalatha**, Assistant Professors of CSE Department attended a webinar on "**Persistent UNITE for Jira - Seamlessly integrating Atlassian JIRA and your IBM ELM solution**". The webinar focused on the insight knowledge of JIRA. IBM ELM 7.0 Release and What's Next for Engineering ( Featuring IBM's Sky Matthews),Integration(Jira, Git, OSLC,ALM +PLM) and Industry Compliance.



## CSE - WEBINAR ON AWS EDUCATE



To handle features in cloud environment, faculty members of CSE attended the AWS Educate Webinar on **"Introduction to Cloud Computing"** on 16.04.2020.



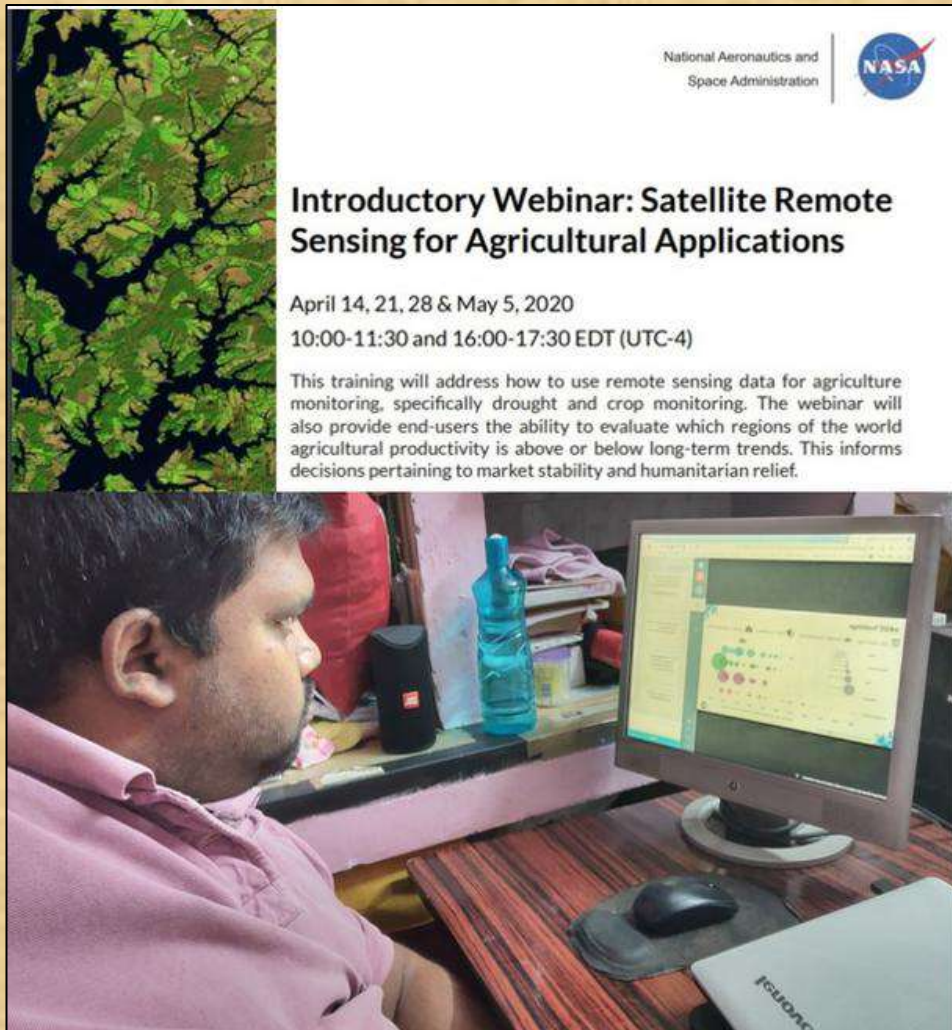
## CSE - WEBINAR BY CISCO



CSE faculty members attended the CISCO Webinar "**Better Together Office 365 & Cisco Email Security**" by experts from CISCO on 16.04.2020. Key Take-aways of the session were: Structured approach, Areas of functionality, Recommended architecture - Office 365, Cisco email security and Recommended offerings from Office 365 and Cisco.

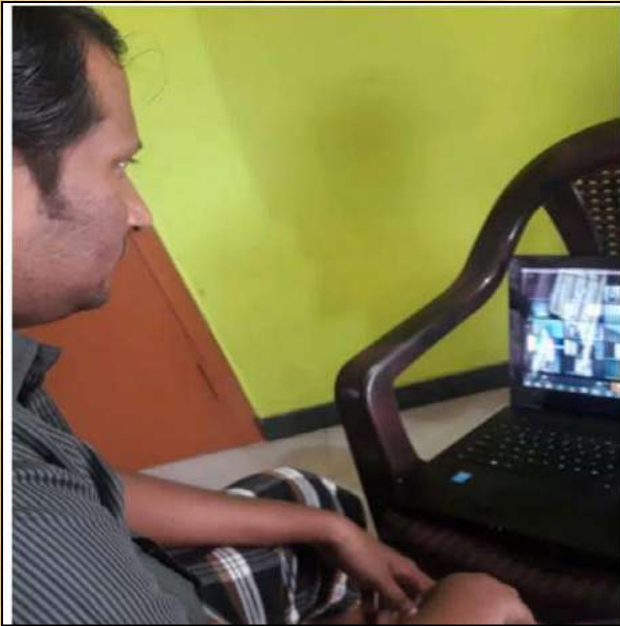


## CIVIL- FACULTY PARTICIPATION IN NASA WEBINAR



**M.R.Ezhilkumar**, Assistant Professor from Department of **Civil Engineering** attended the 4 days webinar organized by NASAs' Applied Remote Sensing Training Program titled "**Satellite Remote Sensing for Agricultural Applications**". Identification of satellites and sensors for agricultural applications, Specific scientific data products suitable for this application and Limitations of remote sensing modeled data for agriculture and food security were some of the points discussed.

## ECE – STC ON INTERNET OF THINGS



Faculty members of ECE department has attended the DAY-3 of Short Term Course of National Institute of Technical Teachers Training and Research, Chandigarh on the topic **Internet of things**. In today's session, "**IoT sensor simulation tool and Interfacing Sensors using tinkercad tool**" was handled by **Mr. Ajay Kumar**, CEO, Enovate Skill, NITTTR Startup, Chandigarh via Zoom Platform.



## S&H - NITTTR – ONLINE SHORT TERM COURSE DAY 5



**Dr.R.Ramesh, Mr.S.Pradeep, and Ms.A.Jayapradha** of Department of science and Humanities of Maths domain attended one week **Short Term Course (STC)** via Zoom platform organized by **NITTTR, Chandigarh**. **Prof.Maitreyee Dutta**, Head, CSE Department, Chandigarh was the resource person. The fifth day session focused on **Artificial Neural Networks**.



# MOOC CERTIFICATIONS



**e - Academia – Special Edition II**



# IT- STUDENT SCRUM CERTIFICATIONS



**Third year Students of IT Department and Mr.T.R.Kalaiarasan, Assistant Professor, Department of Information technology, have attended Scrum Fundamentals Certification exam. 54 students + 1 faculty have passed the Scrum Fundamentals exam obtained certifications.**

## CSBS - STUDENT PODCAST- THAMIZHINAM



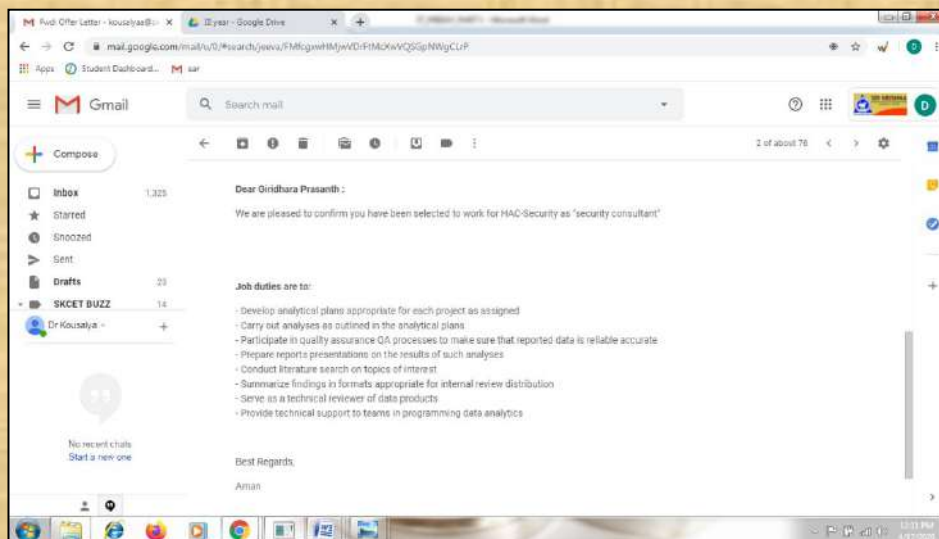
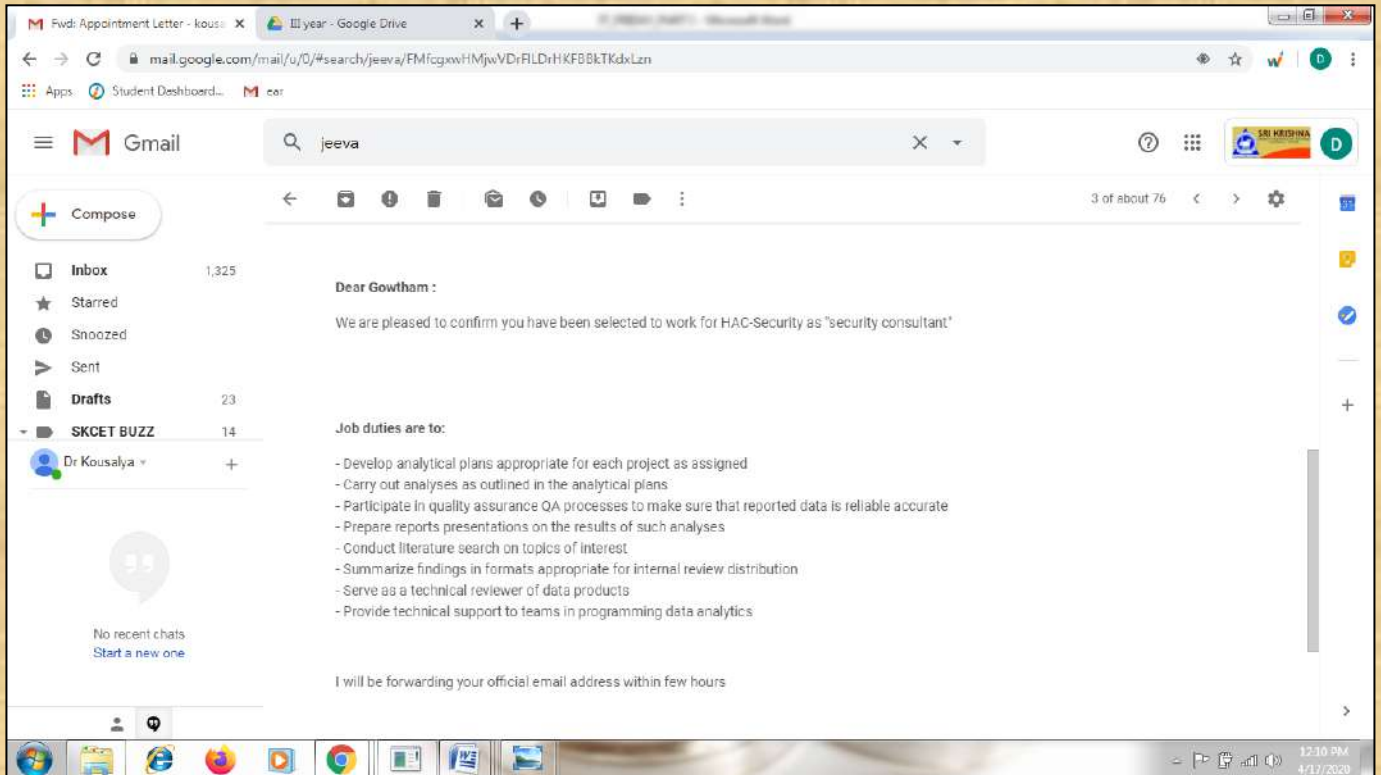
**THAMIZHINAM** is a podcasting channel powered by Anchor podcast. It was started by **Siva Shankar of II CSE C(TCS)** with the objective of providing valuable news and an opportunity to showcase their talents. The user can share information to RJ SHIVA through whatsapp on 9894030497. THAMIZHINAM is also available in Spotify.

In anchor: <https://anchor.fm/siva-shankar/episodes/ep-ecp9nl>

In spotify: <https://open.spotify.com/show/2vTHDBbbOH8RX9uZbTjMXn>

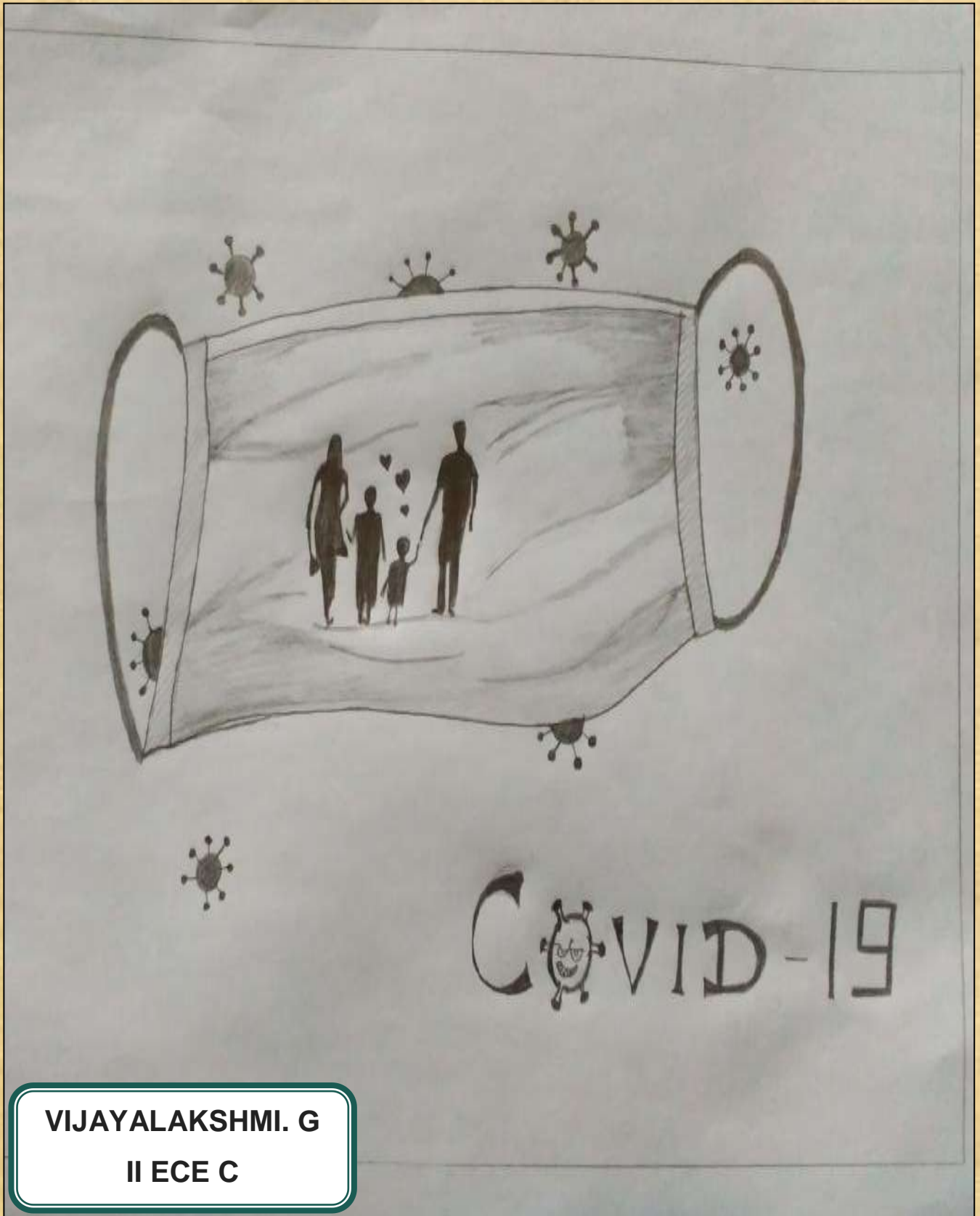


## IT – INTERN OFFER



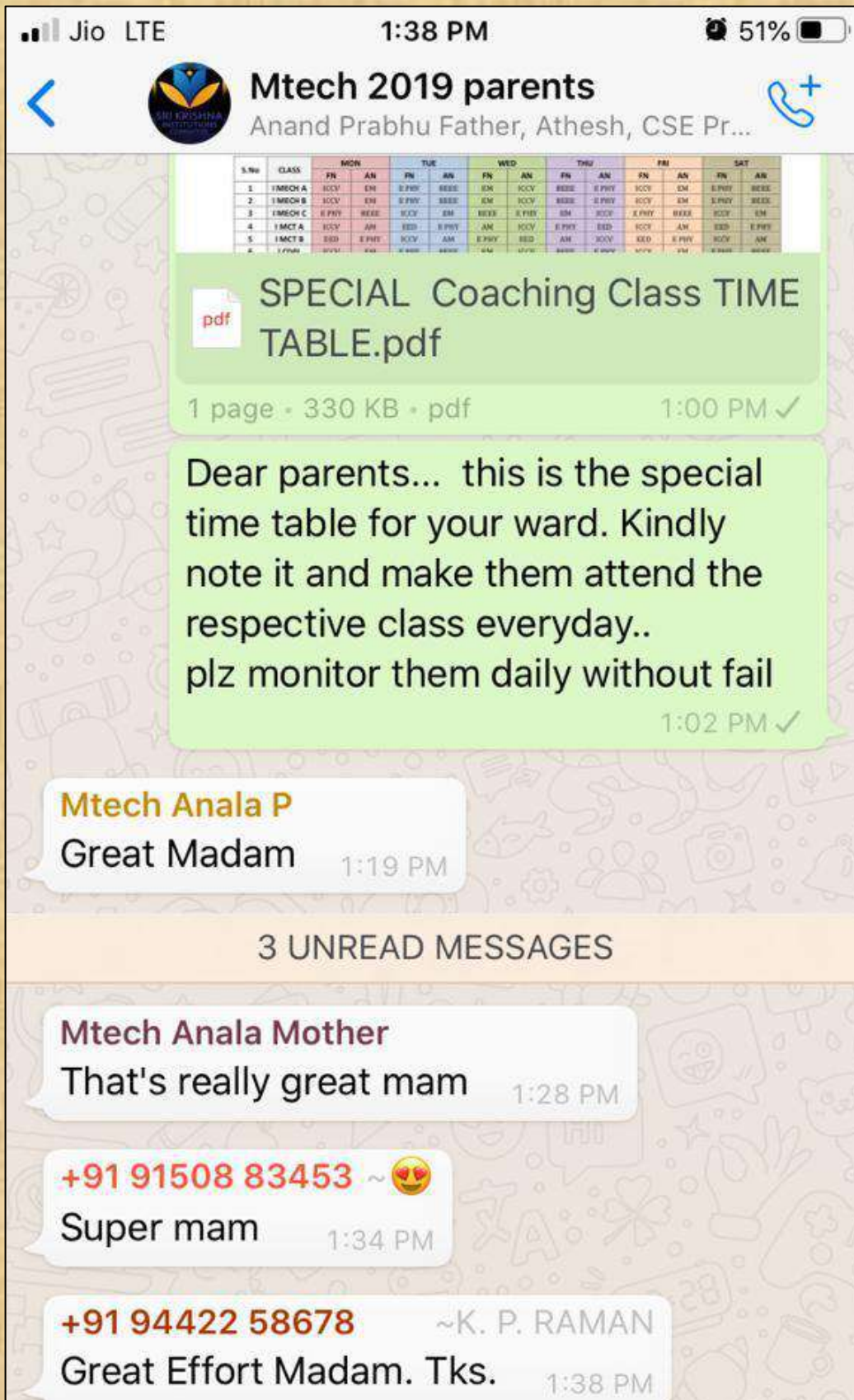
**Gowtham and Giridhara Prasanth, students of II IT A** have been selected to work for **HAC-SECURITY** as “**Security Consultant**”. It is a startup virtual company located in Dubai.

## ART MERAKI

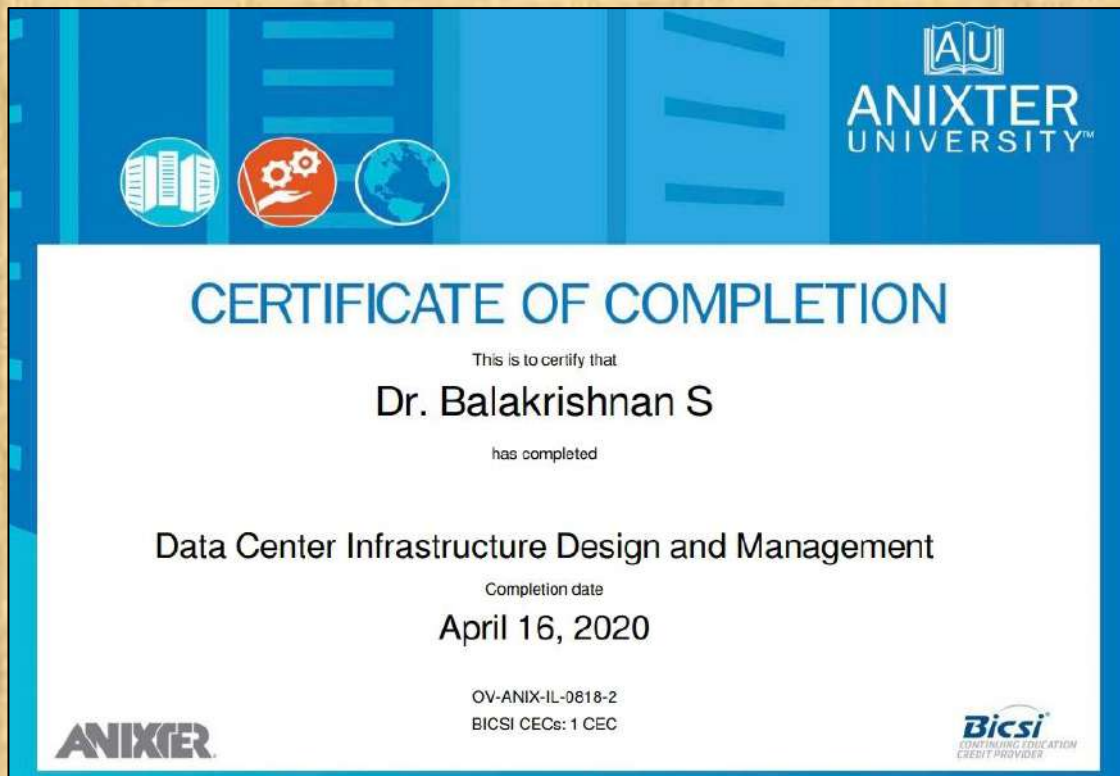




## M.TECH PARENT'S FEEDBACK ON SPECIAL COACHING CLASS



## CSBS - FACULTY CERTIFICATION



As a part of Industry MOOC initiative, **Dr.S.Balakrishnan**, HOD-**CSBS**, has completed a course titled '**Data center Infrastructure Design and Management**' by Anixter University, USA an educational initiative of Anixter, a global supplier of communications and security products. It is a 120 minutes course of live interactive presentation via Anixter's Virtual Engagement Center with the following learning outcomes:

- Trends within the data center industry.
- Global design standards and best practices (TIA, BICSI, ISO/IEC, CENELEC)
- Infrastructure monitoring and management.
- Global standards and best practices for cabling infrastructure design.

The course has also been planned to live stream for our students.



## CSE - GOOGLE ANALYTICS ACADEMY ONLINE COURSE



**Mr.V.Arul Kumar**, Assistant Professor, CSE has attended two weeks Google Analytics Academy Online Course on **Google analytics Beginners** and **Advanced Google Analytics**.

## MECH – ELSEVIER CERTIFICATION



**Dr. R. Soundararajan**, Associate Professor, Department of Mechanical Engineering has completed the following modules from Researcher Academy, ELSEVIER on the topics "Why write a book" and "How to get your book published".

## ECE – COURSERA CERTIFICATION



**Ms. N.Nanthini**, Assistant Professor from the Department of **Electronics and Communication Engineering** has successfully completed the course **“Introduction to Artificial Intelligence”** through Coursera and certified by IBM.

## IT – DATACAMP CERTIFICATION



**Dr.Syed Muzamil Basha**, Associate Professor, Department of Information Technology, has been awarded with a certificate for successfully completing the course **“Introduction to SQL”** offered by DataCamp.



## MECH – TATA STEEL CERTIFICATIONS



**Mr.S.Vignesh**, Assistant Professor, Department of **Mechanical Engineering** has successfully completed E-Learning Program under the following titles from **Capability Development, TATA Steel**.

- Heat Treatment of Steel
- Industry 4.0
- Fuel and Combustion
- Basic Metallurgy

## MECH – TATA STEEL CERTIFICATIONS



**Mr. R. Siva Subramanian**, Assistant Professor, Department of Mechanical Engineering has successfully completed E-Learning Program under the title “**Fuels and Combustion**” from Capability Development, TATA Steel.



## CSE - FACULTY AWS CERTIFICATION



Faculty members of CSE has successfully participated and received their certificates for **AWS Educate Webinar sessions** on "Cloud 101: An Introduction to Cloud Computing" in AWS Educate Classrooms".

## DIGITAL LIBRARY:REMOTE ACCESS FACILITIES

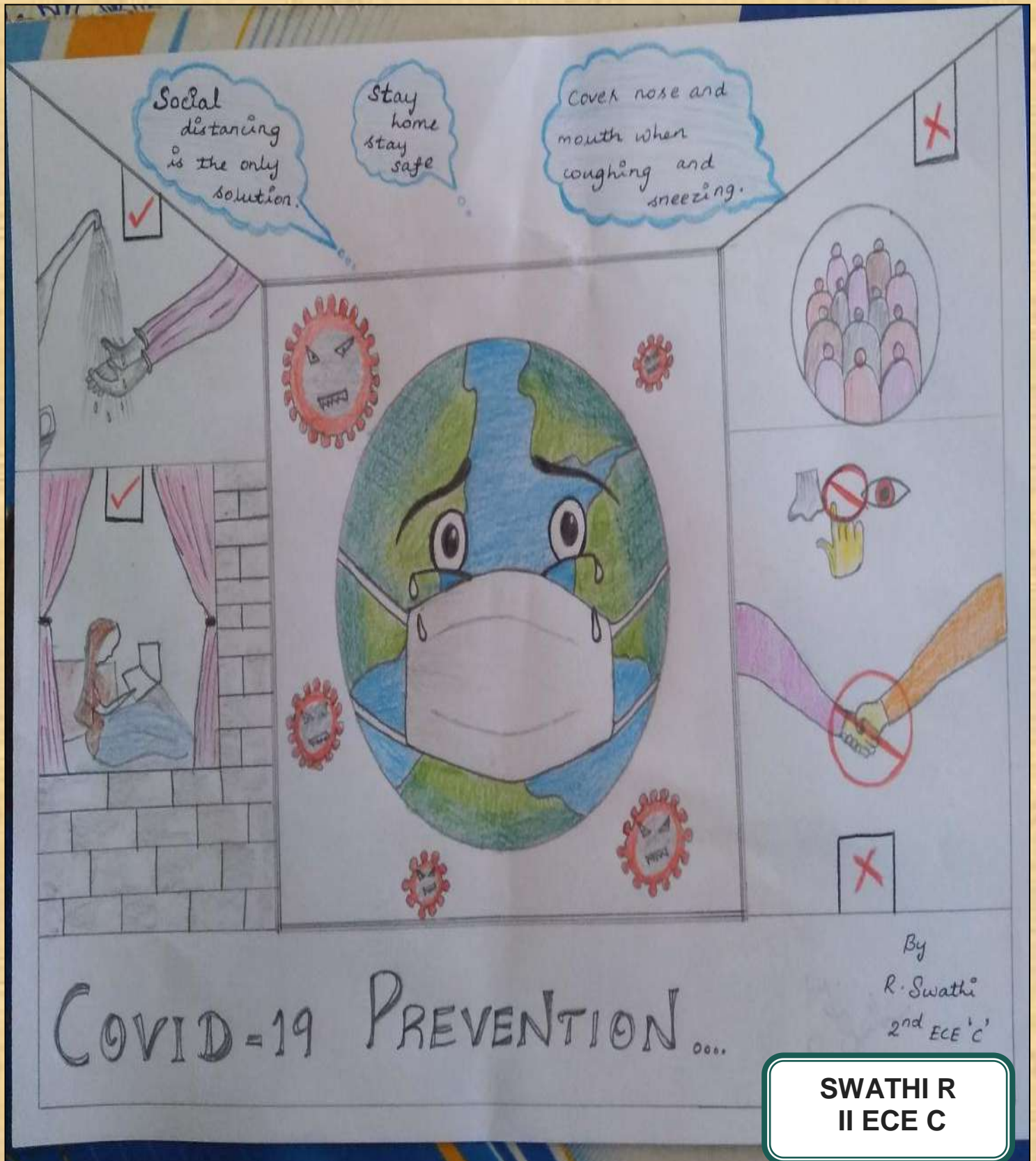
### E-Book / Digital Library



The Vankatram Learning Centre has facilitated the remote access of **ASCE Digital Library**, **ASME Digital Collections** and **EBSCO Online Journal Database** to all faculty members and students. They can access and download the articles at their residences. The links and passwords can be obtained from respective departments.



## ECE – ART MERAKI



## INTERNATIONAL DAY - WORLD HERITAGE DAY



**World Heritage Day** is observed on **April 18<sup>th</sup>** of every year to increase awareness on the importance of diversity of cultural heritage and preserving it for the generations ahead. The day is about preserving human heritage, diversity and vulnerability of the world's built monuments and heritage sites. As Ancient buildings and monuments are an asset for us and for the world, let us value it. The theme for this year is **“Shared Culture, Shared heritage and Shared responsibility”**.





## SKCET IN MEDIA



**e - Academia – Special Edition II**

## SKCET IN MEDIA



**Mr. S.Mathankumar** of III Year Mechanical Engineering demonstrated his project **IoT based motion control robot** at Kovilpatti municipal office in the presence of Minister Mr.Kadambur Raju, Thoothukudi District Collector Mr.Sandeep Nanduri and Municipal Commissioner Mr.O.Rajaram.They appreciated the project and encouraged the student to further develop it. This project news was published in daily Newspaper “**Dinamalar**”. The project was mentored by **Mr.S.Krishnamoorthy**, Assistant Professor / Department of Mechanical Engineering.





# UPCOMING EVENTS

## NEXT WEEK



**e - Academia – Special Edition II**

## IT- UPCOMING EVENT



[spoken-tutorial.org](http://spoken-tutorial.org)

### SPOKEN TUTORIAL

SOFTWARE TRAINING PROJECT



Developed by IIT BOMBAY

A PROJECT OF THE NATIONAL MISSION ON EDUCATION THROUGH ICT  
POWERED BY THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
GOVERNMENT OF INDIA

### FDP ON TRAINING AND TEST ON MOODLE LEARNING MANAGEMENT SYSTEM

Sri Krishna College of Engineering and Technology in association with Spoken Tutorial, IIT Bombay has planned to organize an **Online Faculty Development Program on "Computer Applications - Moodle Learning Management System"** - free certification cum Faculty Development Program for all the faculty members. Spoken Tutorial is an initiative of National Mission on Education through ICT, MHRD, Govt. of India, to promote IT literacy through Open Source Software.



## EEE - UPCOMING EVENT



**SRI KRISHNA**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

**SRI KRISHNA INSTITUTIONS**  
COIMBATORE



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

IS ORGANIZING A WEBINAR ON

*Raspberry Pi & Arduino - ARM based processor-controller combo*

by



*Srinath Ramachandran*  
*Embedded Firmware / Software Engineer at Kodak Alaris Inc*  
*Rochester, New York*

Streaming through ZOOM 

ON  
22nd April 2020  
@04:00 P.M



## CRAFT A CAPTION CONTEST



### WHAT TO SEND:

- Original caption of 20 words or less for the above featured photograph.
- Keep it simple, funny and clever.
- Not more than two entries per person.

### HOW TO SEND:

All captions must be submitted via [skcetbuzz@skcet.ac.in](mailto:skcetbuzz@skcet.ac.in) with full name and department.

### ELIGIBILITY AND JUDGING:

All Buzz readers are eligible!

Entries will be judged **based on originality, humor, and overall impact.**

**DEADLINE:** Wednesday, 22 April 2020- 6pm