



K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA,
Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution



5.1.3 The following Capacity Development and Skill Enhancement activities are organized for improving students' capabilities

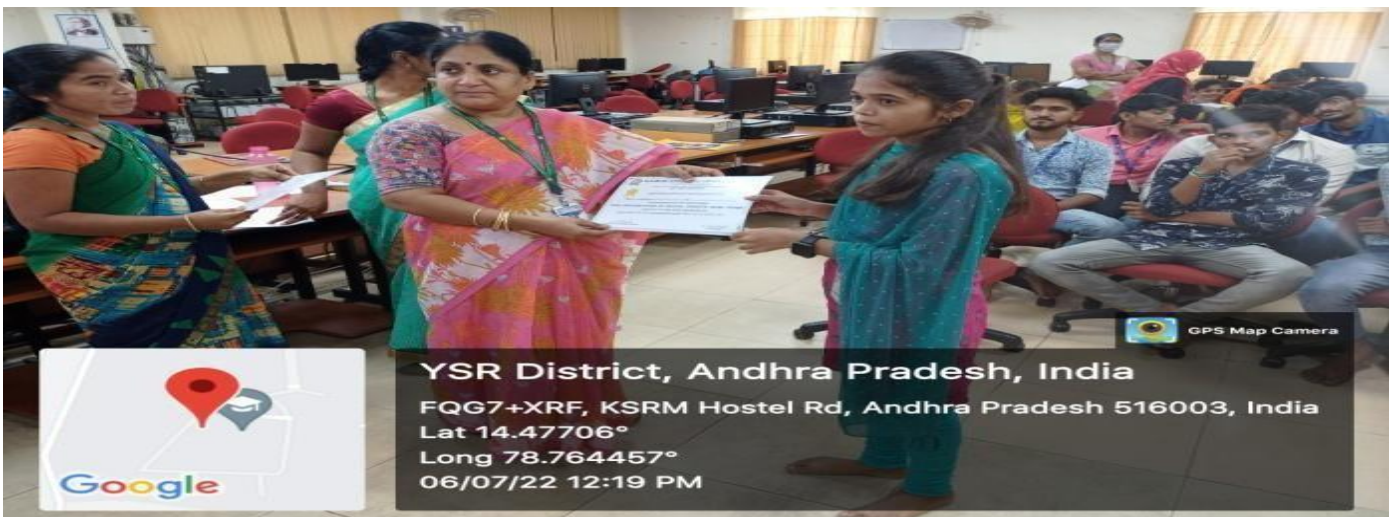


Fig: Workshop on “FPGA implementation of digital circuits using Vivado” organized by ECE & ECHO from 04-07-2022 to 05-07-2022.



Fig: “FPGA” Odysseus Hackathon organized by ECE& IEEE SB on 06-07-2022.

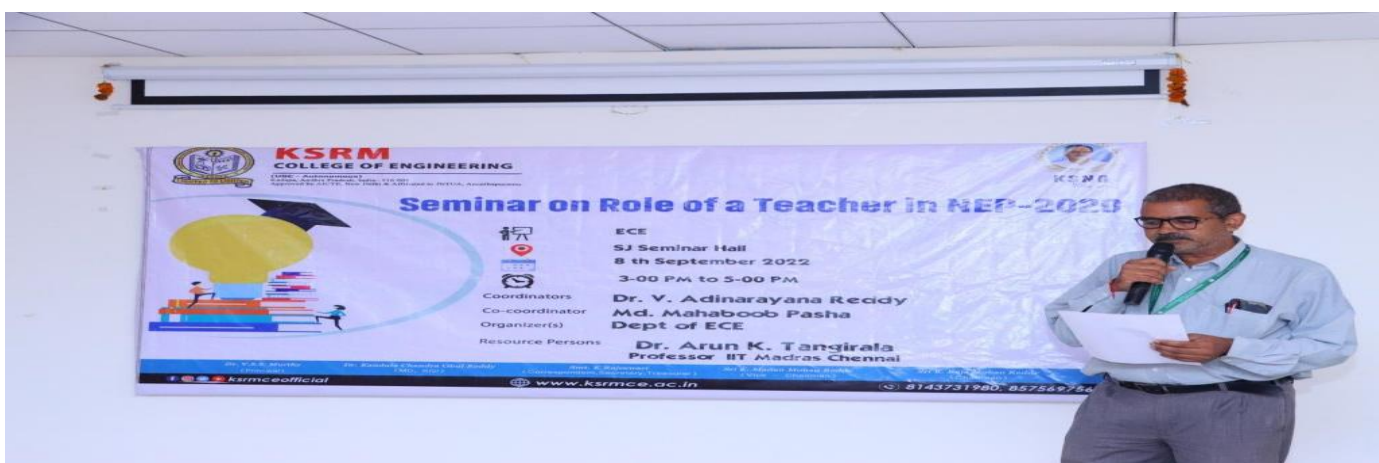


Fig: Seminar on “Role of a Teacher in NEP -2020” organized by ECE on 08-09-2022



Fig: World radio day celebrations organized by ECE & IEEE KSRMCE SB on 13-02-2023



Fig: "Technical Pick and Talk" Organized By IETE – ISF & ECE on 25-02-2023



Fig: Skill course on “IOT” Organized by ECE from 05-12-2022 to 23-12-2022.

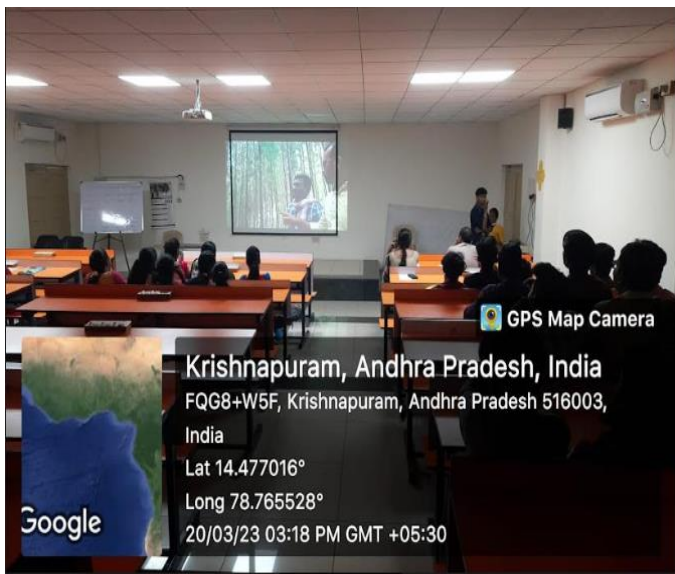


Fig: ECHO event on “SHORT FILM CONTEST” Organized by IEEE SB & ECE on 20-03-2023.



Fig: QUIZ Program organized by ECHO & IETE Student Forum-ISF local chapter on 15-09-2022.



Fig: Technical Quiz competition on International Marconi Day organized by ECE on 21-04-2023

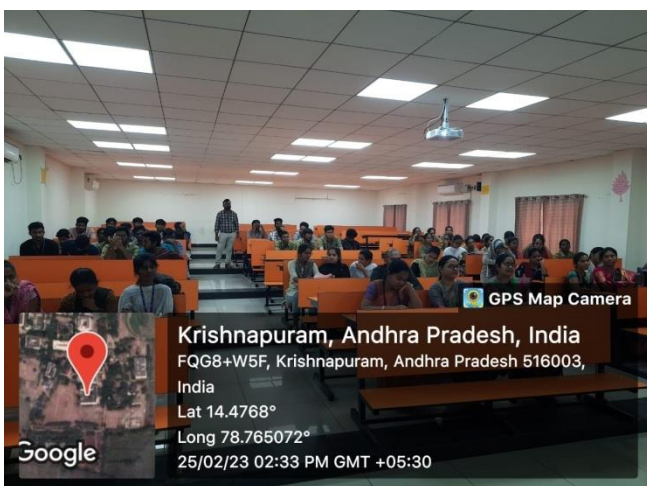


Fig: "IETE Day Celebrations" on 25-02-2023



Fig: World Engineers Day Celebrations organized by ECE on 04-03-2023

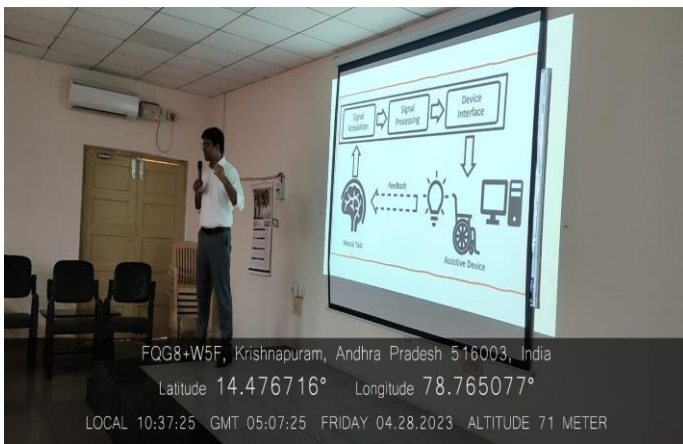


Fig: Guest Lecture on “Endogenous Brain Switch” In association with IEEE KSRMCE Student Branch on 28-04-2023.



Fig: Debate Competition “Battle of Minds” organized by IETE ISF & ECE on 29-11-2022



Fig: Competition on “Circuit Debugging” organized by IETE ISF & ECE on 06-01-2023

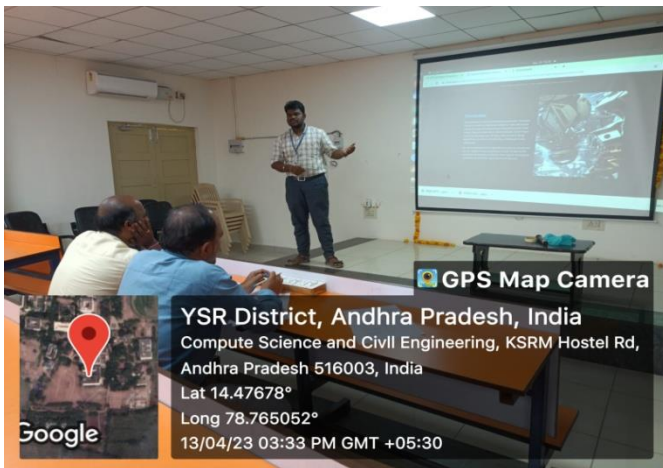


Fig: Avalanche 2K23, A State Level Tech Fest organized by ECE on 13-04-2023



Fig: One week workshop on “PCB DESIGN” from 30-01- 2023 to 04-02-2023.

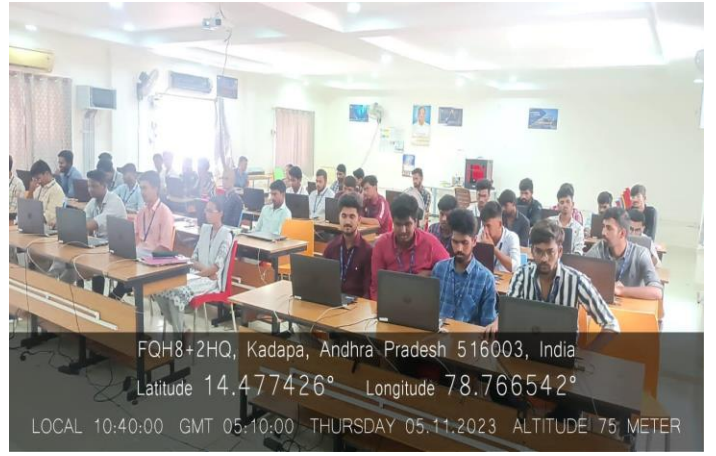


Fig: One week workshop on “Game Design using Unity 3D” from 01-05-2023 to 06-05-2023.



Fig: Guest Lecture on “World Telecommunication Day” organized by IETE ISF & IEI on 17-05-2023



Fig: Awareness program on “The Value of IEEE and Society Memberships” organized by ECE on 06-09-2023



Fig: Department of ECE organized “Prolific 2K23” - A Project Expo on 09-02-2023.

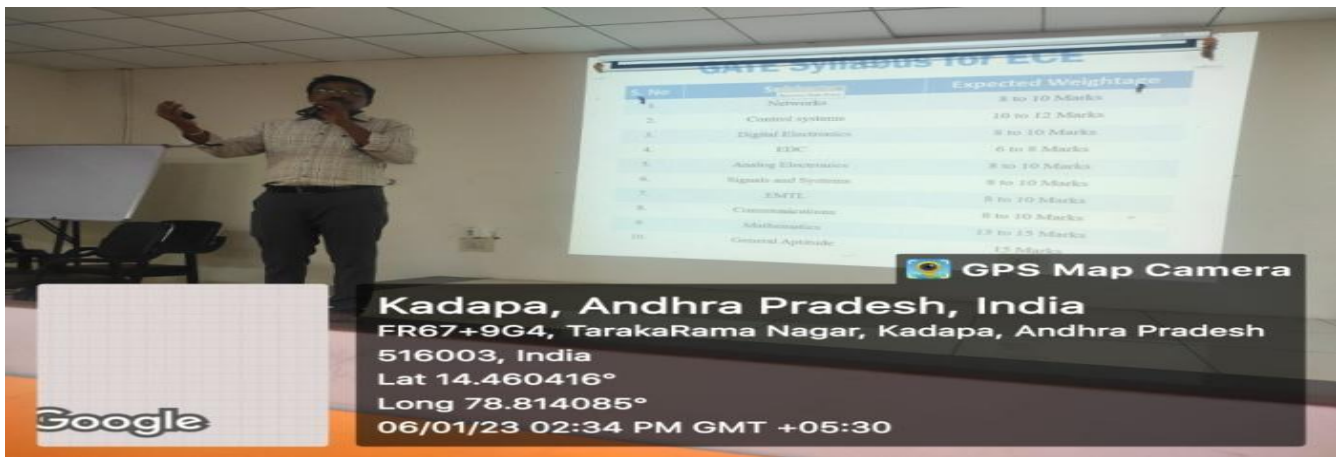


Fig: GATE Orientation Program organized by ECE on 06-01-2023



Fig: Certification Course on “Fundamentals of MATLAB Programming” from 13-07-2022 to 02-08-2022

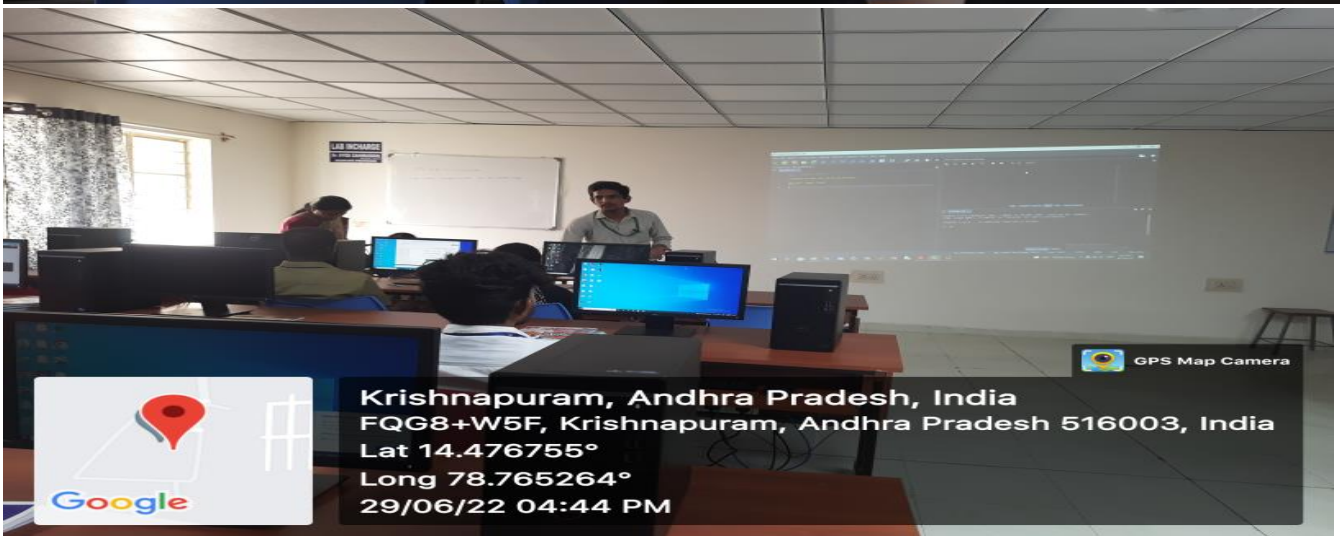
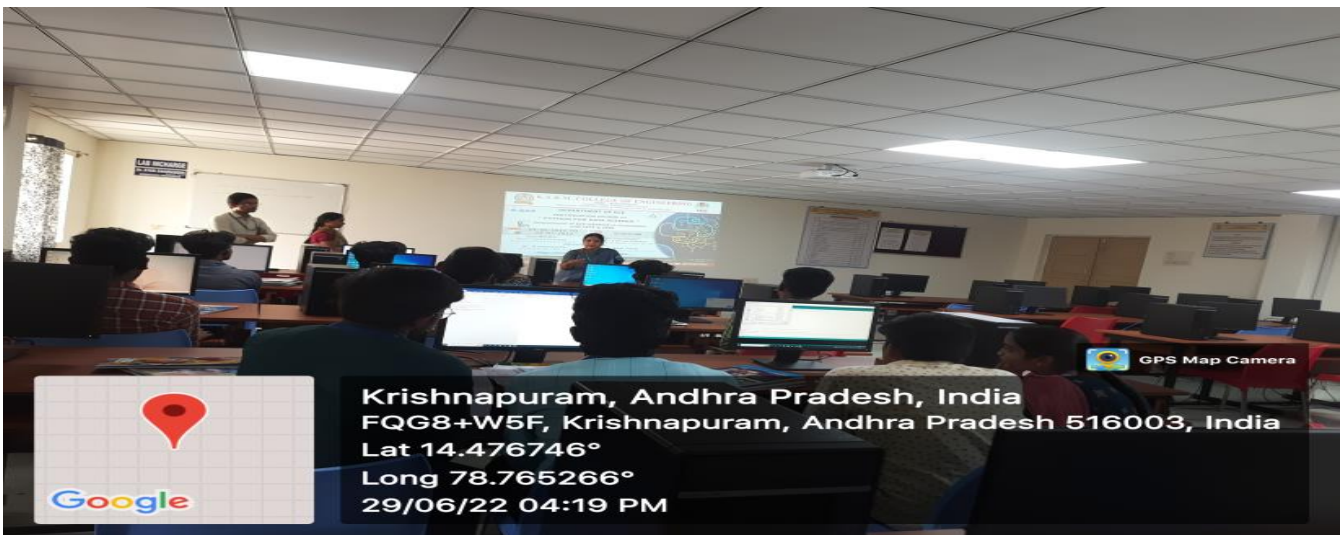


Fig: Certification Course on “Python for Data Science” from 29-06-2022 to 29-07-2022



Fig: World Television day celebrations on 20-11-2021



Fig: One day hands on workshop on “Machine Learning” organized by ECE & CSE on 27-11-2021

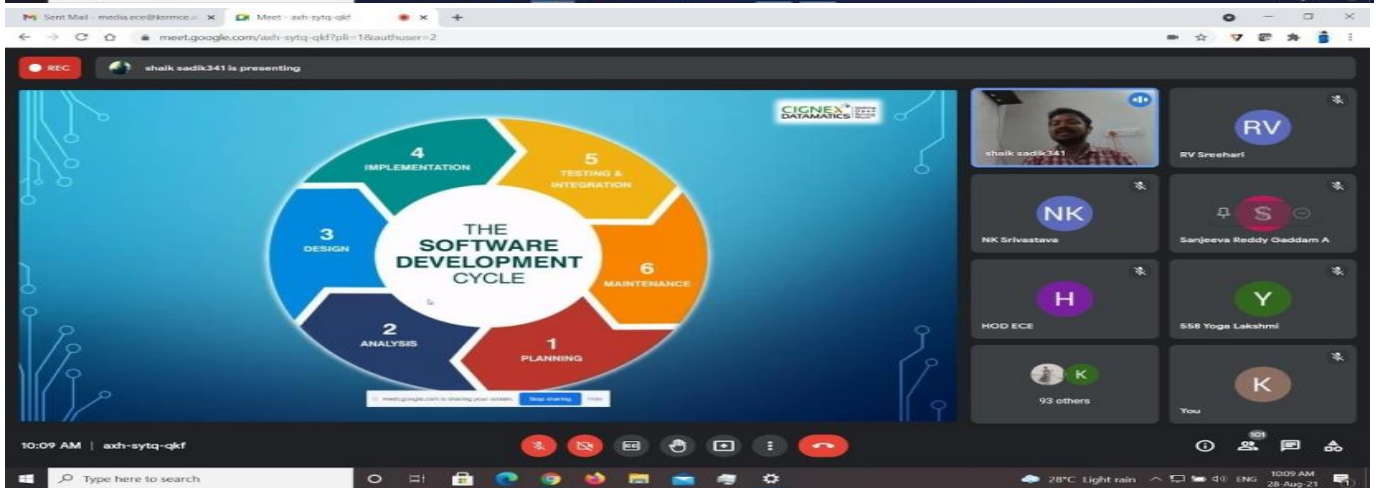
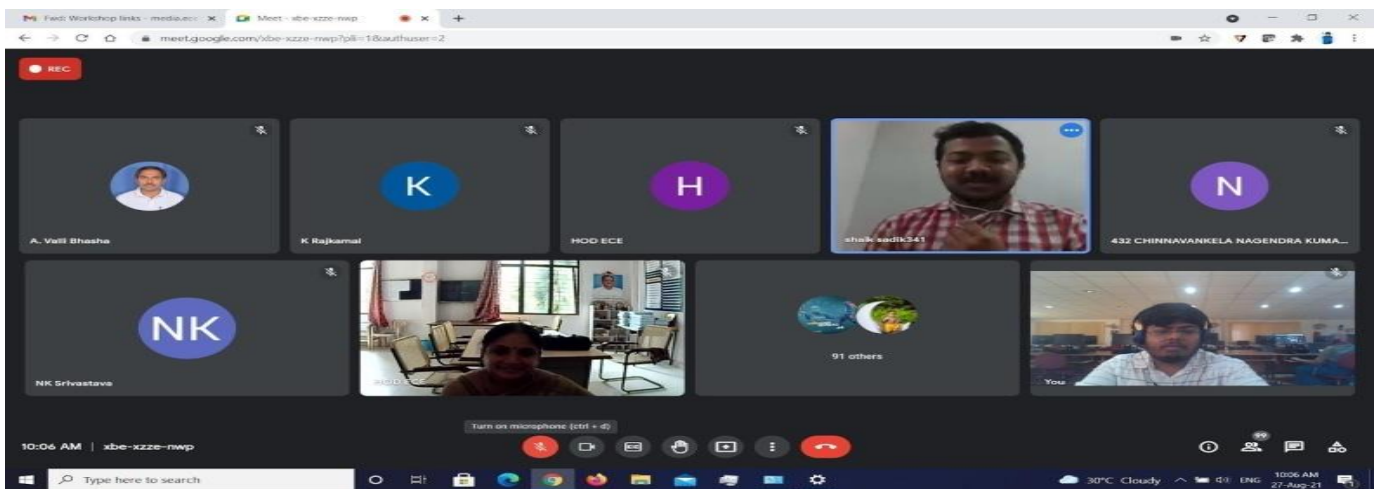


Fig: A National level Two Day Workshop on "SDLC in real-time projects and Induction on Application Development" from 27-08-2021 to 28-08-2021.



Fig: Webinar on “Synchronization of TDMA bursts with short preamble for Geo satellite receiver” on 28-09-2021



Fig: One day Webinar “Awareness Program on GATE” organized by ECE on 01-02-2022.

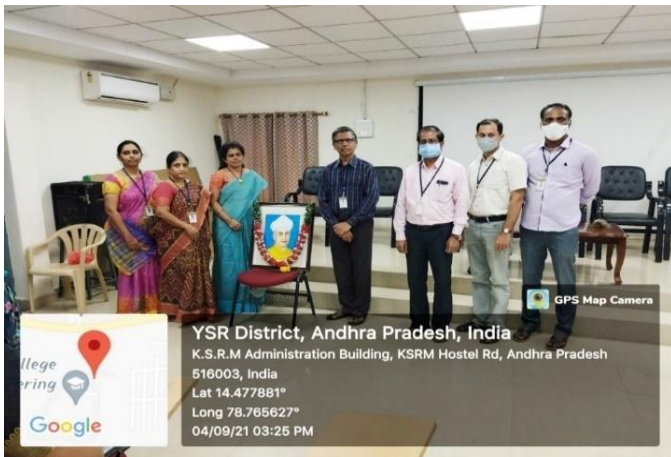


Fig: Teachers’ Day celebrations organized by ECE & NSS on 04-09-2021



Fig: A Three day National level Workshop On “IoT, Embedded Systems and Robotics” (In association with EdGate Technologies Bangalore) from 29-09-21 to 1-10-21



Fig: “PROJECT EXPO 2K22” organized by IETE ISF on 07-05-2022



Fig: ECHO Event on “PROJECT EXPO” organized by ECE on 17-02-2022



Fig: Awareness Program on “Training and Placements” organized by ECE on 01-11-2021



Fig: Guest Lecture on “Machine Learning” organized by ECE on 07-05-2022



Fig: A Guest Lecture “5G Massive MIMO and Beam forming” organized by ECE on 05-03-2022



Fig: Guest Lecture on “Automation In Industry” organized by ECE on 11-04-2022



Fig: Guest Lecture on “AI Applications in Signal Processing” organized by ECE on 09 March 2022

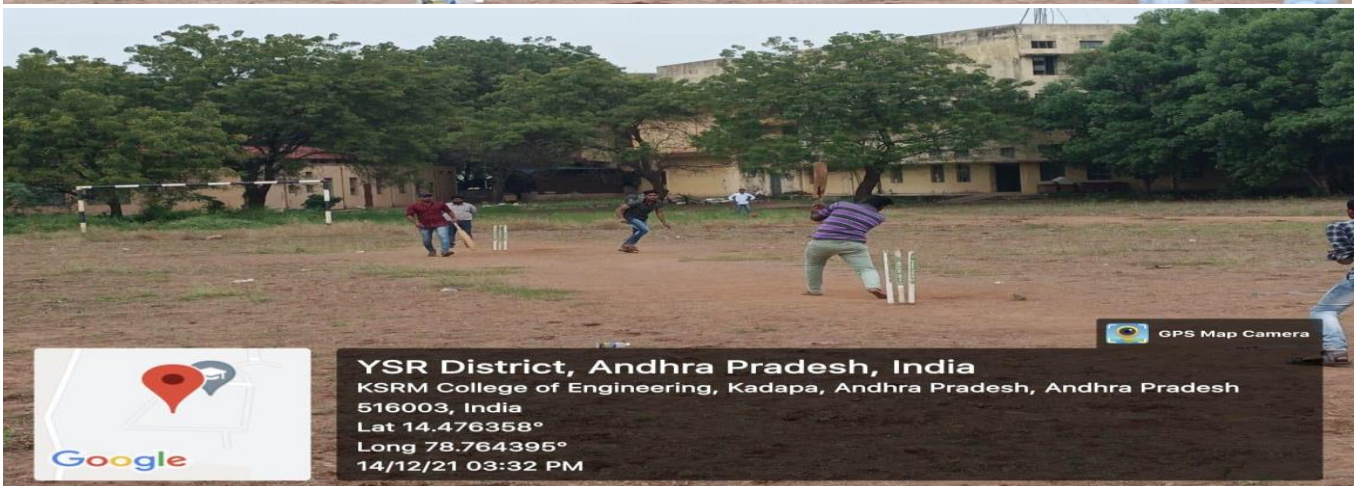
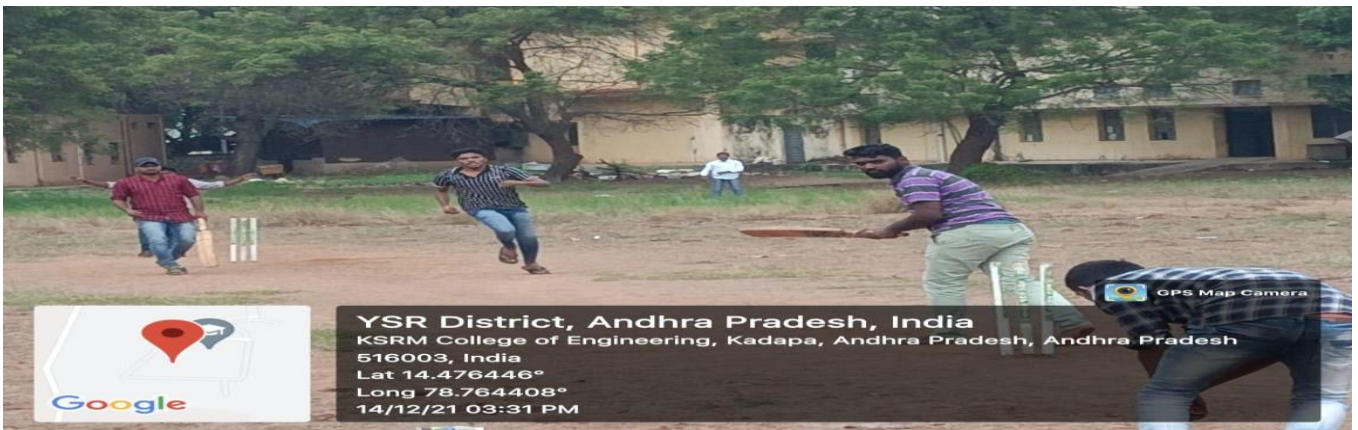


Fig: Echo Event “Cricket Match” organized by ECE on 13-12-2021 & 14-12-2021



Fig: A National Level Technical Symposium “AVALANCHE 2K22” on 28-02-2022



Fig: Workshop and Hackathon on Machine Learning organized by ECE from 27-05-2022 to 28-05-2022



Fig: "World Radio Day-Celebrations" organized by ECE on 12-02-2022



Fig: A Two Day Workshop on "Ethical Hacking" from 22-10-2021 to 23-10-2021

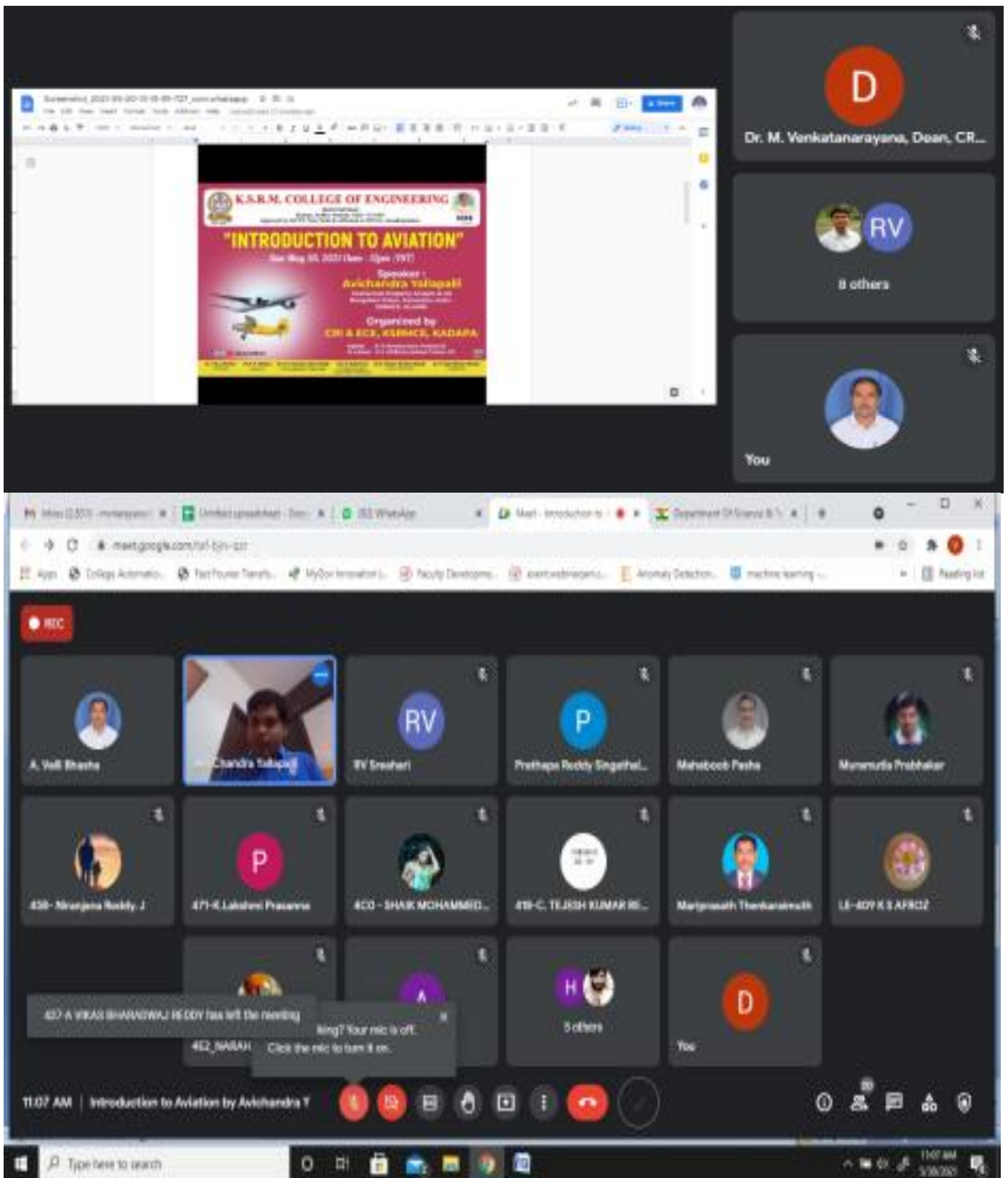


Fig: Guest Lecture on “Introduction to Aviation” organized by ECE on 30-05-2021

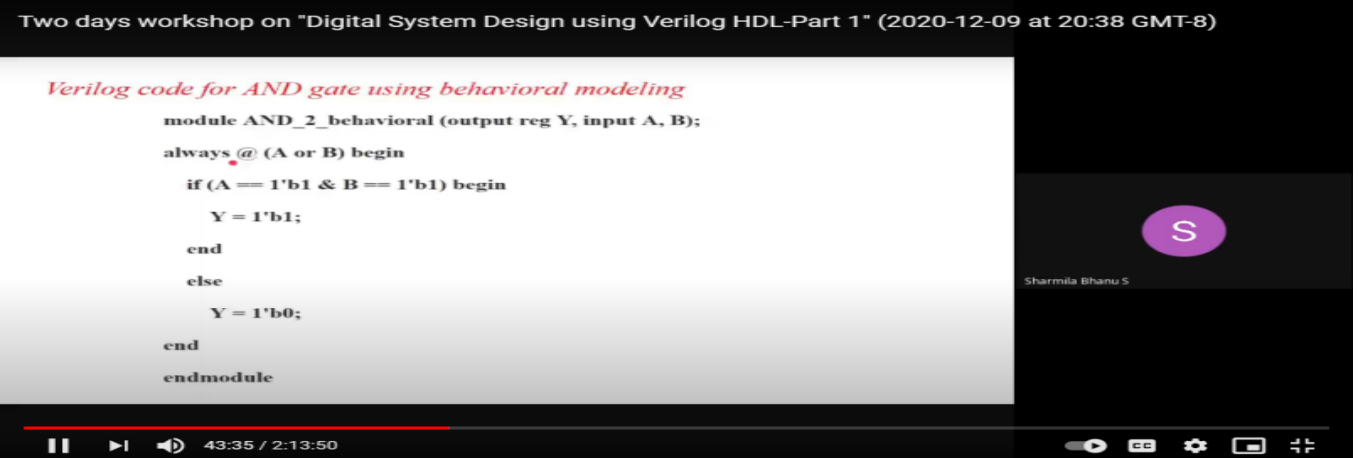
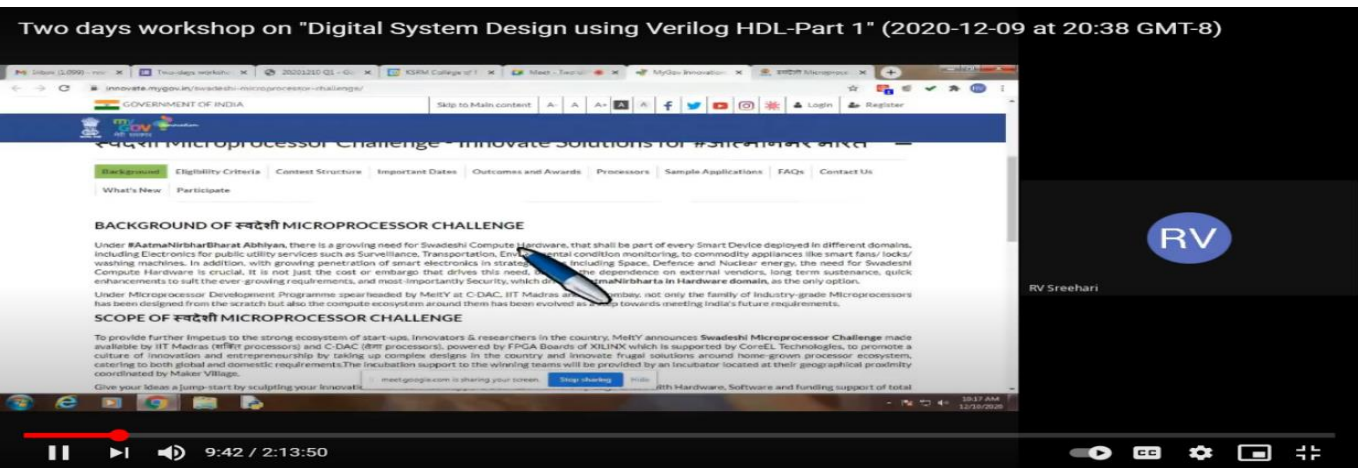


Fig: A Two day online workshop on “Digital System Design using Verilog HDL Part-I” on 10-12-2020 & 11-12-2020



Fig: Webinar on Embedded Systems and IOT organized by ECE on 29-06-2020

Machine learning with Flask Framework

K.S.R.M. COLLEGE OF ENGINEERING
 (Autonomous)
 Kadapa, Andhra Pradesh, India- 516 003
 Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

WEBINAR ON MACHINE LEARNING WITH FLASK
 (IN ASSOCIATION WITH PANTECH E LEARNING)

Speaker :
S.Nandhini
 Project Engineer

Co - ordinator :
N. Radha Krishna
 Assistant Professor

DATE & TIME
 10-07-2021, @ 2:30 PM TO 3:30 PM

Dr. G. Hemalatha
 Dr. V.S.S. Murthy
 Prof. A. Mohan
 Sri. K. Chandra Chari Reddy
 Smt K. Rajeswari
 Sri K. Madan Mohan Reddy
 Sri K. Raja Mohan Reddy

HIGHLIGHTS OF THE MACHINE LEARNING

Answer

1. $x=2$
 2. $x=4$

Data

1. $x=1$
 2. $x=2$

Rule

1. $y=x+2$
 2. $y=x+2$

Rule

1. $x=2$
 2. $x=2$

Answer

1. $x=2$
 2. $x=2$

Fig: Webinar on “Machine Learning With Flask” (In association with Pantech E-Learning) on 10-07-2021



Fig: Seminar on “Wireless communication networks” on organized by ECE 14-09-2018



Fig: Guest Lecture on “Machine Learning” organized by ECE on 09-05-2019



Fig: A Seminar on “Awareness Program on GATE” organized by ECE on 30-01-2020



Fig: Guest Lecture on “AI Applications in Signal Processing” organized by ECE on 10-10-2019



Fig: AVALANCHE-2K20 – A National Level Technical Symposium on 04-03-2020

Virtual Seminar On “Transform Yourself” – 25-05-2020

The screenshot shows a Zoom meeting interface. At the top left, a red 'REC' button is visible. The main content area displays a presentation slide titled '4 Square Questions'. The slide features a 3x3 grid of squares with a diagonal line from the top-right corner of the central square to the top-right corner of the entire grid. The grid is labeled with 'B' at the top-left, 'A' at the top-right, 'C' at the bottom-left, and 'D' at the bottom-right. To the right of the grid, the text reads 'Q 3' followed by 'Divide the white area in square C into four equal pieces.' Below the grid, a notification states '408 B.ANUSHA has left the meeting'. On the right side of the meeting, there is a list of participants with their names and status icons. The list includes: 110 BORRA SAI MAHEN..., 118 ADITYA SREERAM, 147-MOTHUKURI RAHUL, 170-SEELAM SRAVANTHI, 189-POOJITHA URLAG..., 204_BANDI NEERAJA R..., and 206 CHEMIKALA RAMA... Two video thumbnails are visible: one for 'KSRMCE Principal' and another for 'Praveen Kumar Challa'. A third video thumbnail at the bottom shows 'VISHWAKARMA Parivarthan ...'.

Speaker interaction with students by asking questions

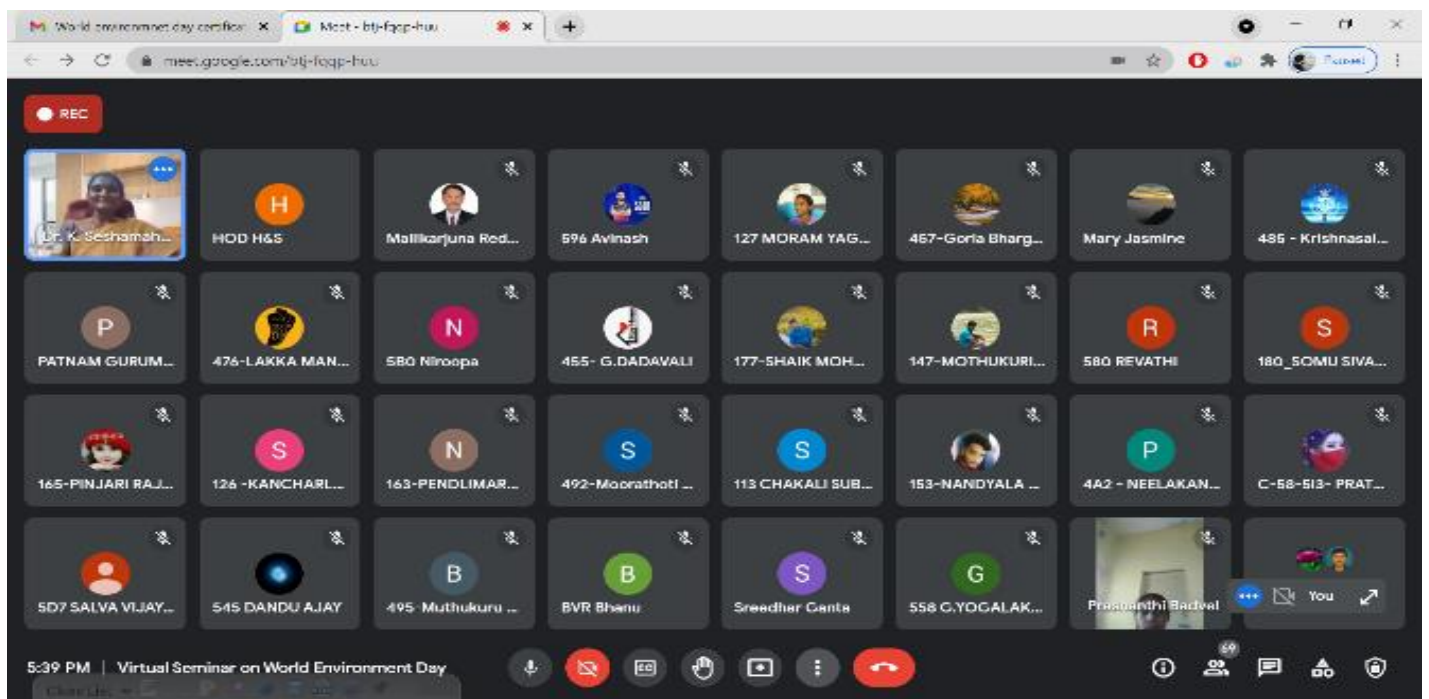
This screenshot shows the Google Meet interface during the same session. The top bar includes a 'Sent Mail - jasmine@ksrmce.ac.in' tab, a 'Meet - Motivational Speech' tab, and the URL 'meet.google.com/fqa-bjzg-ycb?pli=1&authuser=0'. The meeting title is 'Motivational Speech on Transform Yourself'. The top right shows '4C4 SEETHI BABY ... and 35 more' participants, a 'Paused' status, and the time '5:58 PM'. The main area is a grid of participant avatars. The first row includes 'Eswar Reddy', 'Praveen Ku...', 'VISHWAKAR...', 'C-42-567- S...', '453 Vinay ku...', '537.C RENU ...', '527 B.Neelima', 'Dr K Venkata...', and 'Mary Jasmine'. The second row includes '169_R.GANG...', 'Joyce Stella ...', 'ME-48-348 P...', '584 K.HARS...', 'C-58-513- PR...', '430_ madha...', '549 Sai teja', '510 LAVANYA', and '4E5 T VAMSHI'. The third row includes '4B4 Peram R...', '480 PATUKU...', '557 G.MADH...', 'ME-67-367 Y...', 'RAGHUNAT ...', '174 SHAIK ...', 'Vijaya Bhask...', 'HOD H&S', and 'Bhaskara Re...'. At the bottom, there are meeting controls: 'Motivational Speech on Transf...', a lock icon, a microphone icon, a red mute button, a video icon, a 'Raise hand' button, 'Turn on captions', and 'Present now'. A notification bar at the very bottom shows 'class-list (2021-0...html)' and a 'Show all' button.

Students participation in online program

A One - Day Virtual Seminar On “We are the part of Solution towards Sustainability” -05-06-2020

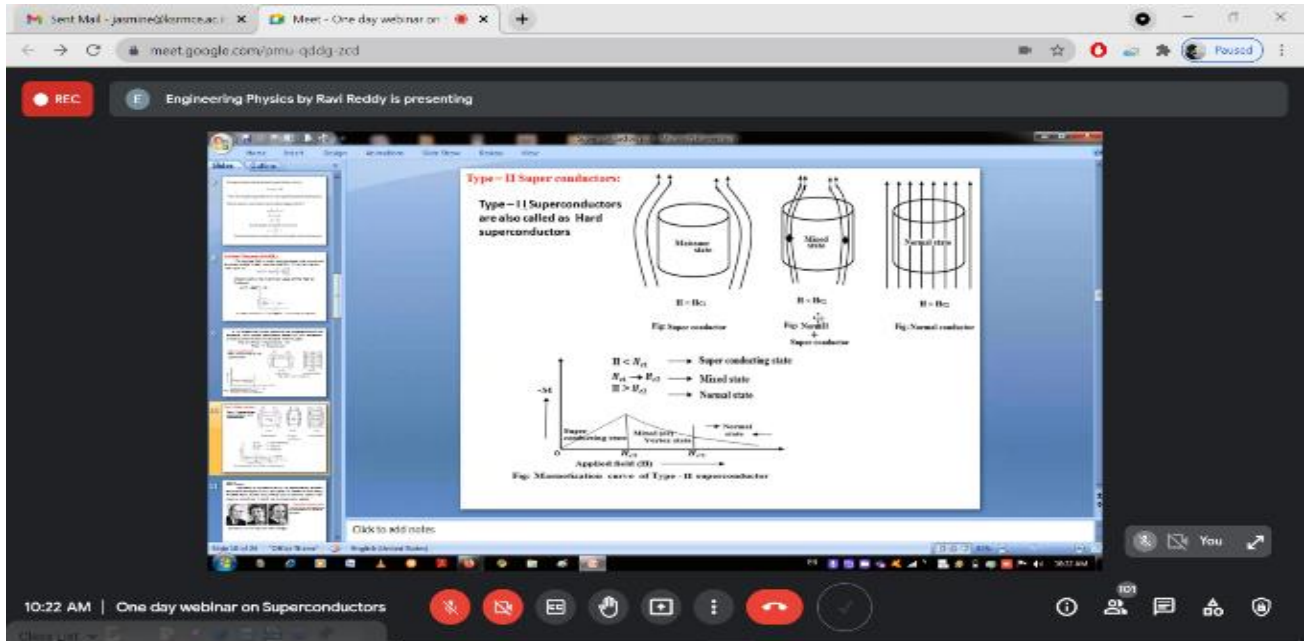


Speaker explaining the goals in sustainable development

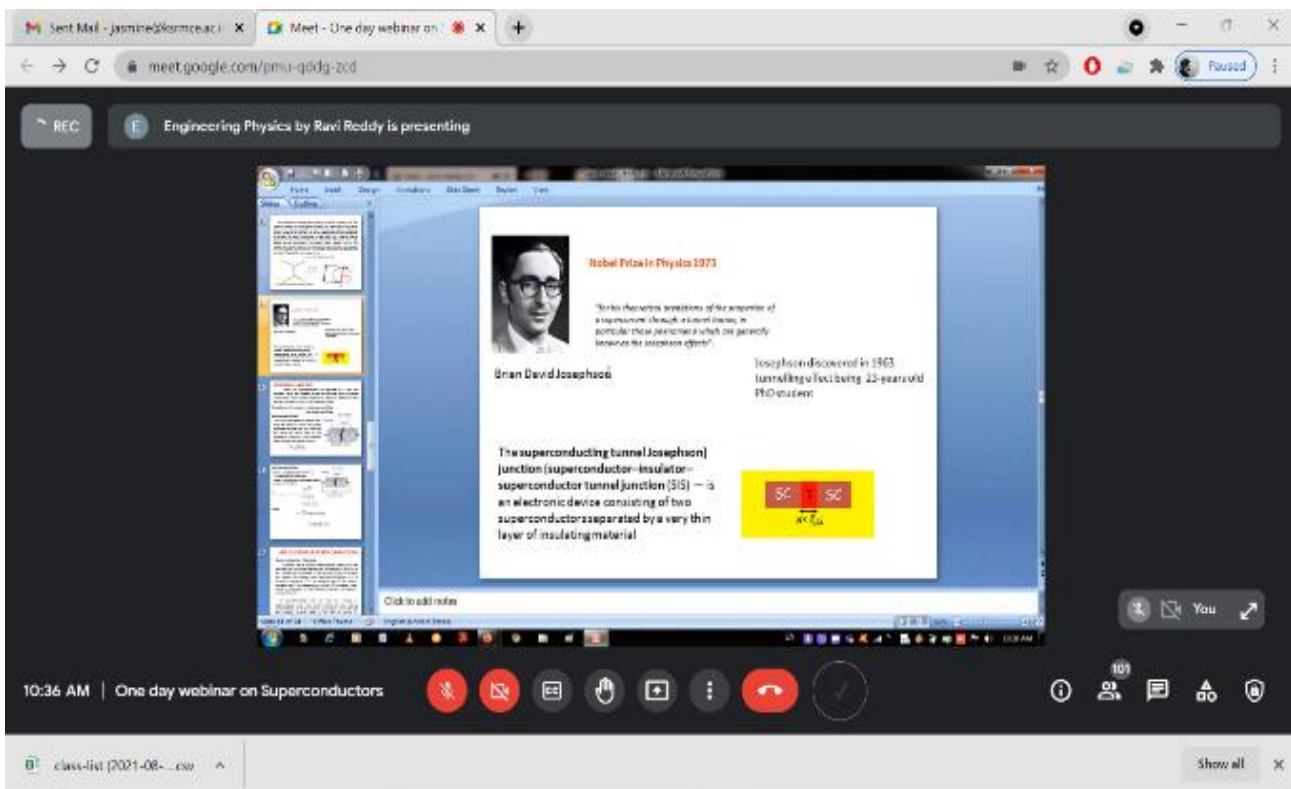


Students participation in the program

One day Webinar on Superconductors-31-08-2021

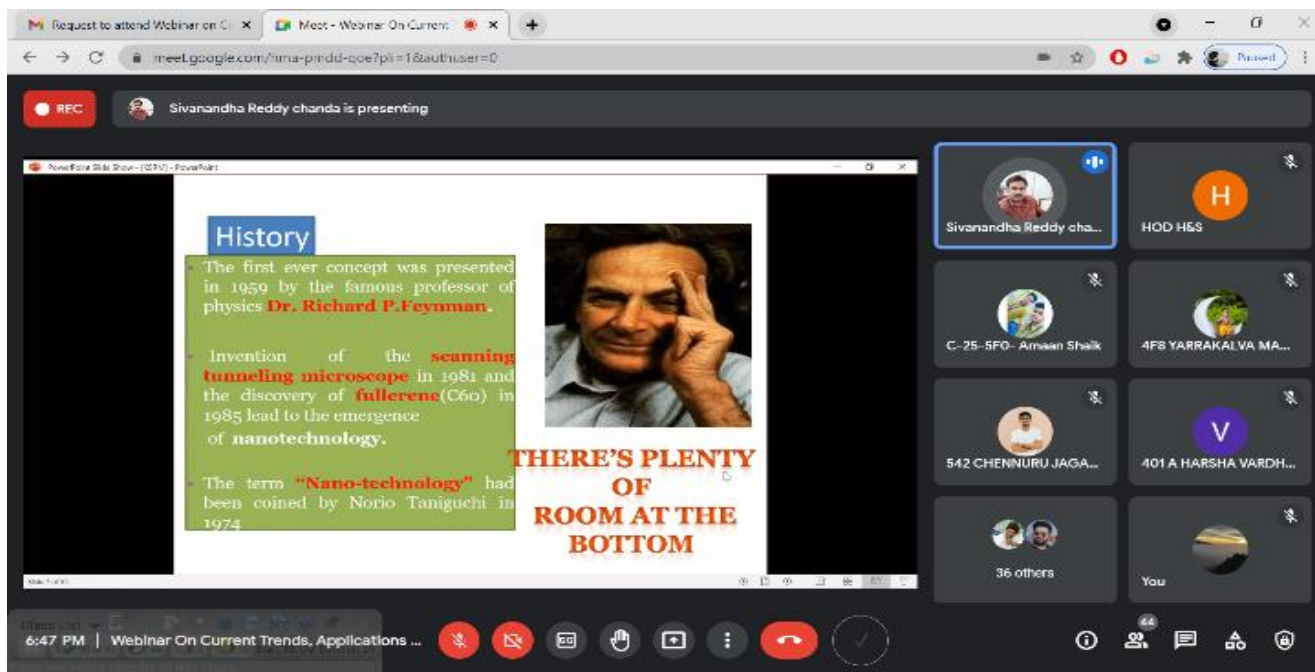


Speaker presenting the ppt

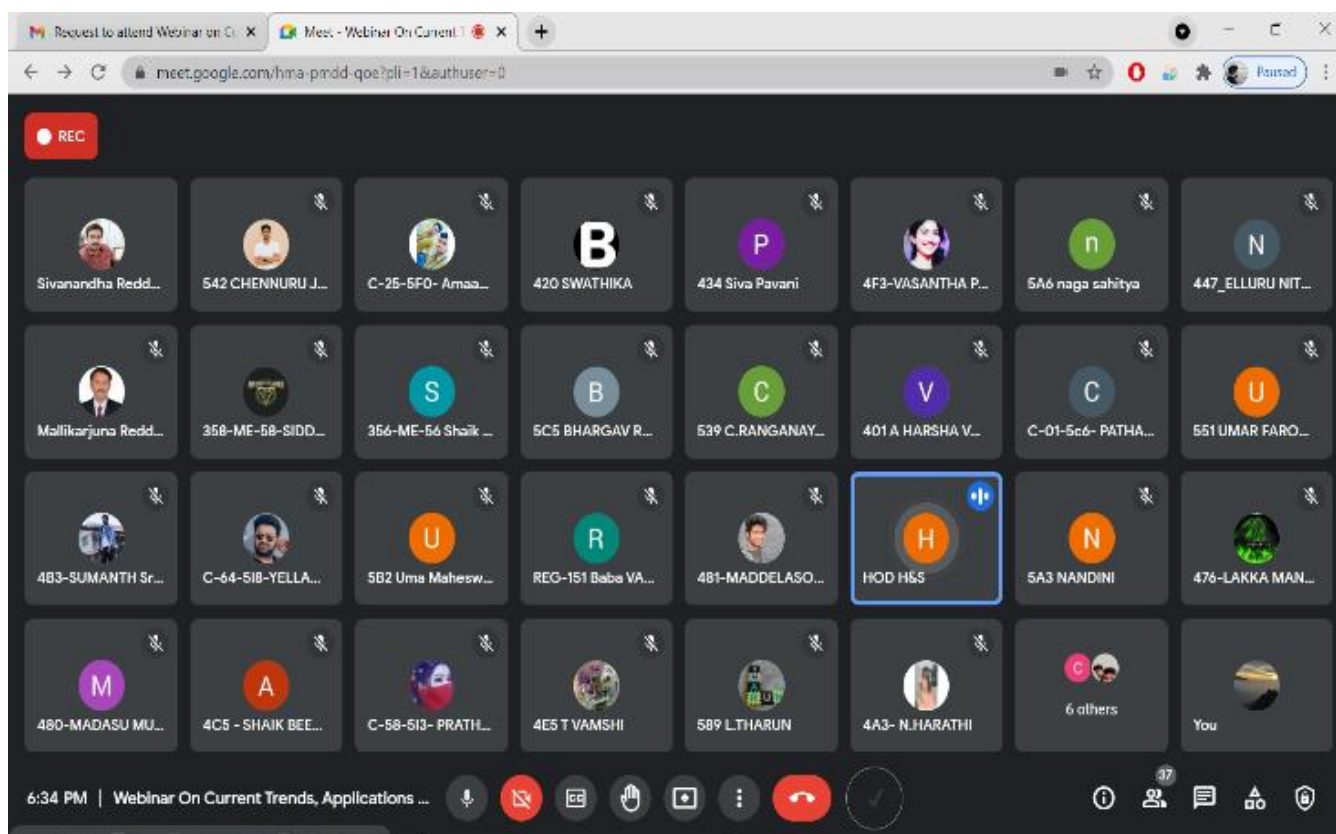


PowerPoint presentation on applications of Superconductors

A One - Day Webinar On “Current trends, Applications and Future prospects in Nanotechnology” -09-09-2021



Speaker presentation on Nanotechnology



Students Participation in the program

Guest lecture On “Ozone on the environment- 16-09-2021

The slide is titled "Ozone hole formation" and contains the following text:

- The ozone hole occurs mostly during spring season in Antarctic region (from September to early December) as strong westerly winds circulate around the continent and create an atmospheric container.
- During this period there will not be sunlight for three months and temperature is -80 degrees. This leads to formation of **Polar Stratospheric clouds (PSC)**.
- The PSC provide a platform for chemical reactions whose products will lead to ozone destruction.

Visuals include a diagram of the Earth with arrows indicating wind circulation, and icons for OZONE and Chlorine. A globe is labeled "Polar Stratospheric Clouds".

At the bottom of the slide, it says "meet.google.com is sharing your screen".

The meeting interface shows a "REC" button, the presenter's name "mavallur varalakshmi is presenting", and a grid of participants including Dr K Venkata Ram..., mohana krishna ktp, 4F8 YARRAKALVA..., HOD H&S, 333-ME - M. Ranji..., 348-ME-48 POTT..., 24 others, and You.

Speaker explaining the importance of Ozone Day

The slide is titled "Plant more trees and save existing plantation." and contains the following text:

- Plant trees
- Save trees

Visuals include two images: one showing hands holding a small tree sapling, and another showing a tree growing on a globe. Below the images, it says "Be the change, you want to see in others".

At the bottom of the slide, it says "meet.google.com is sharing your screen".

The meeting interface shows a "REC" button, the presenter's name "mavallur varalakshmi is presenting", and a grid of participants including Dr K Venkata Ram..., mohana krishna ktp, 4F8 YARRAKALVA..., HOD H&S, 333-ME - M. Ranji..., 164-PETLU R..., 25 others, and You.

Participation of students in the guest lecture

Guest lecture On Optical fibers and its Applications – 20-09-2021

The screenshot shows a Google Meet interface. The main window displays a PowerPoint slide with the following content:

- Title:** What is Fiber Optics?
- Text:** Fiber optics is a branch of optics which deals with the study of propagation of information in the form of light (rays or modes) through transparent dielectric optical fibers.
- Image:** A photograph of a bundle of optical fibers.

The Meet interface includes a 'REC' button, a list of participants (Dr. Amaranatha Reddy, 580 REVATHI, Mallikarjuna Reddy Da..., 526 BOGGU NAVYASRI, C-25-5FO- Amaan Shaik, 587 P.SHIRISHA, 20 others, and You), and a bottom control bar with icons for microphone, video, chat, and other functions. The time is 6:46 PM.

PowerPoint presentation on Optical fibers

The screenshot shows a Google Meet interface. The main window displays a diagram titled "Optical fiber communication system:" with the following text: "An optical fiber communication system mainly consists of three parts viz., (1) transmitter section (2) optical fiber (3) receiver section as shown in fig."

The diagram illustrates the flow of an optical signal through a communication system:

- Transmitter Section:** An input source (audio, video, data) is converted into an analog signal, which is then processed by a drive circuit and a light source (LASER/LED) to create an optical signal.
- Optical Fiber:** The optical signal is transmitted through an optical fiber.
- Receiver Section:** The optical signal is received by a photo detector, which is then processed by a signal restorer and an amplifier to produce an analog signal, which is finally converted back into an output source (audio, video, data).

The diagram is labeled "Fig: fiber optical communication system".

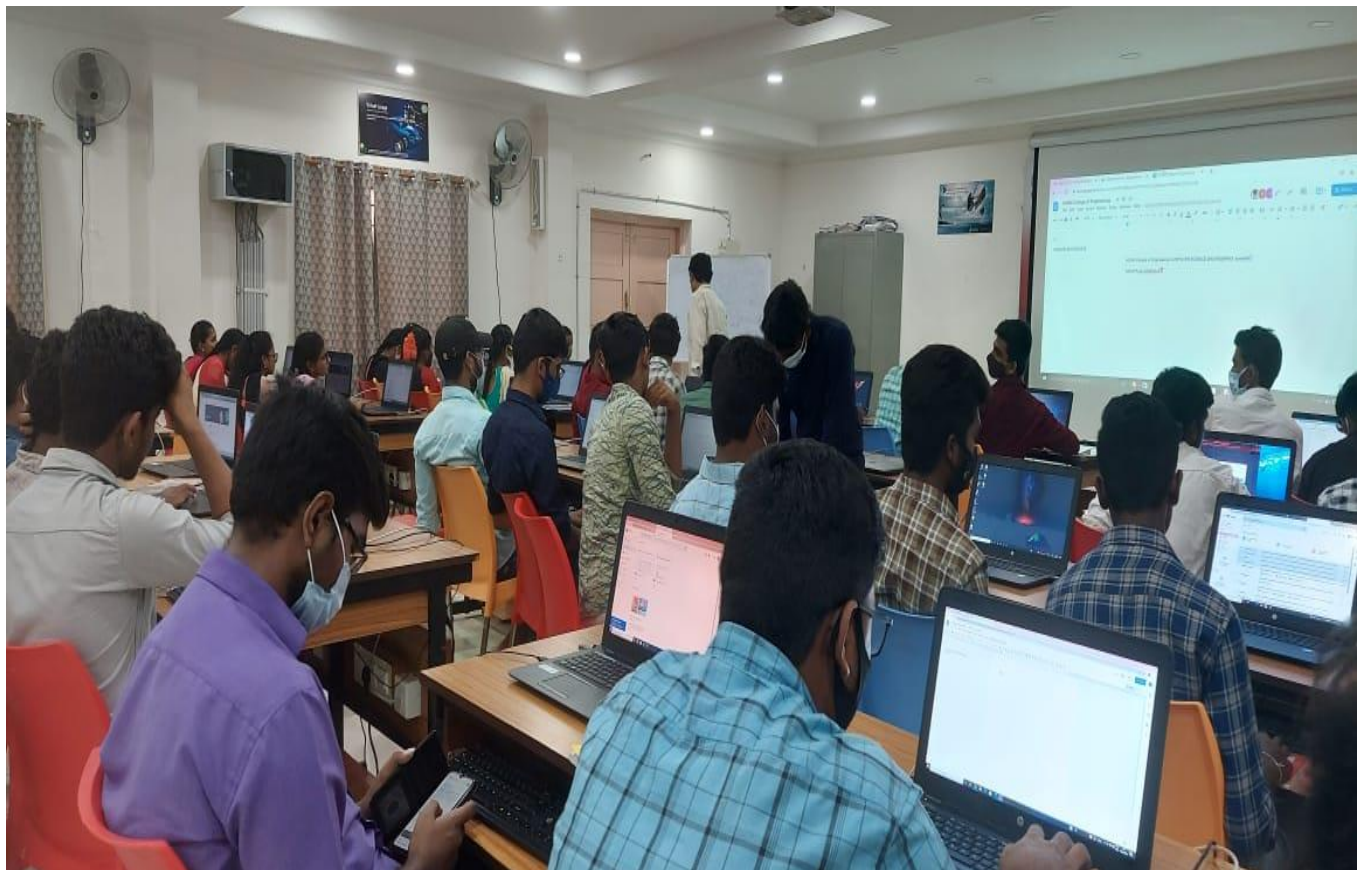
The Meet interface includes a 'REC' button, a list of participants (Dr. Amaranatha Reddy, 537.C.RENU SRI, 580 Niroopa, 580 REVATHI, HOD H&S, 549 Sai teja, 10 others, and You), and a bottom control bar with icons for microphone, video, chat, and other functions. The time is 7:24 PM.

Participants listening to speaker in online mode

Two-day Workshop on G-Suite – 03-02-2022 to 26-02-2022



Speaker monitoring the student's participation in workshop



Students practicing different online platforms

National Students' Symposium on Recent Trends in Science & Technology-2K22 – 28-02-2022

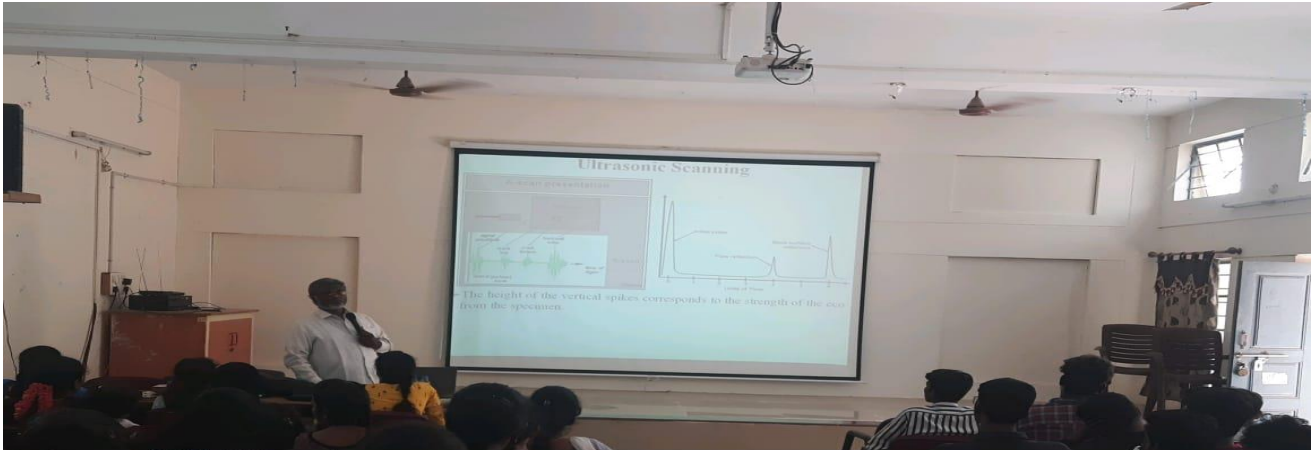


Garlanding the portraits by Dignitaries



Participants presenting papers in symposium

Guest Lecture on Ultrasonic's-29-04-2022



Compute Science and Civil Engineering, KSRM Hostel Rd, Andhra Pradesh 516003, India

Andhra Pradesh
India

2022-04-29(Fri) 03:10(pm)

43°C
109°F

Speaker explaining the applications of ultrasonics



Compute Science and Civil Engineering, KSRM Hostel Rd, Andhra Pradesh 516003, India

Andhra Pradesh
India

2022-04-29(Fri) 03:36(pm)

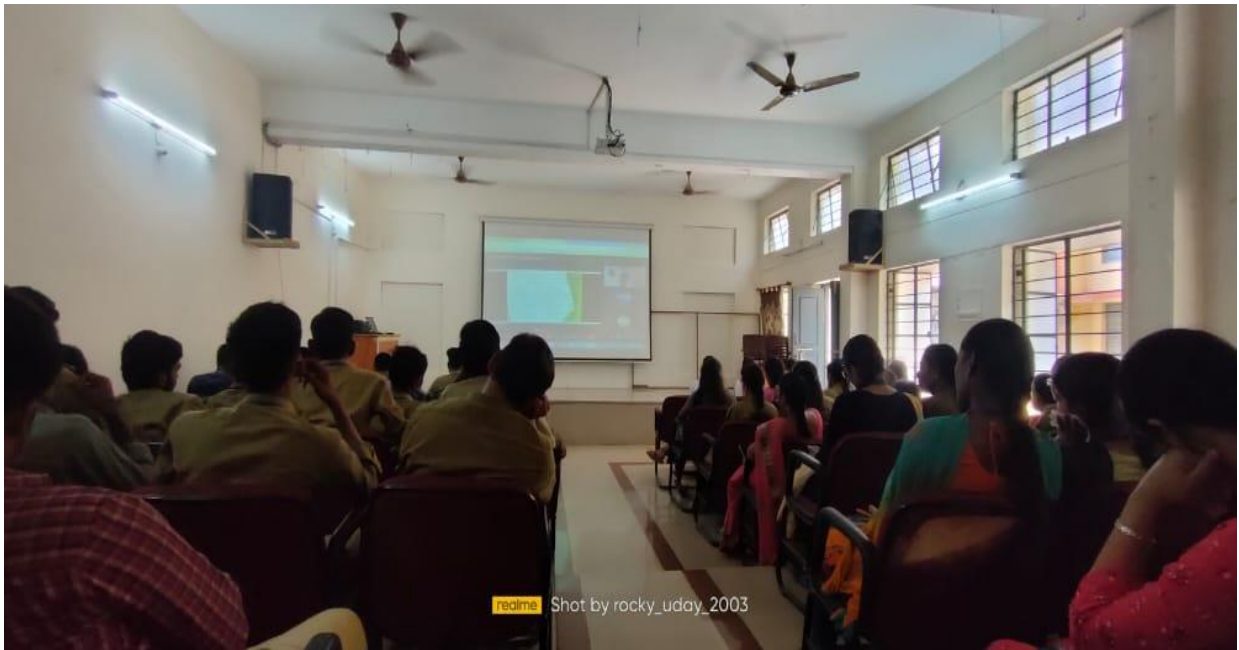
43°C
109°F

Felicitation to the speaker by HOD, H&S

Webinar on Squids – 04-05-2022



Students participation in the program



Speaker presenting ppt on SQUIDS

Guest Lecture On “Organic Spectroscopy Applications For Engineers”-09-05-2022



Speaker explaining the importance of spectroscopy

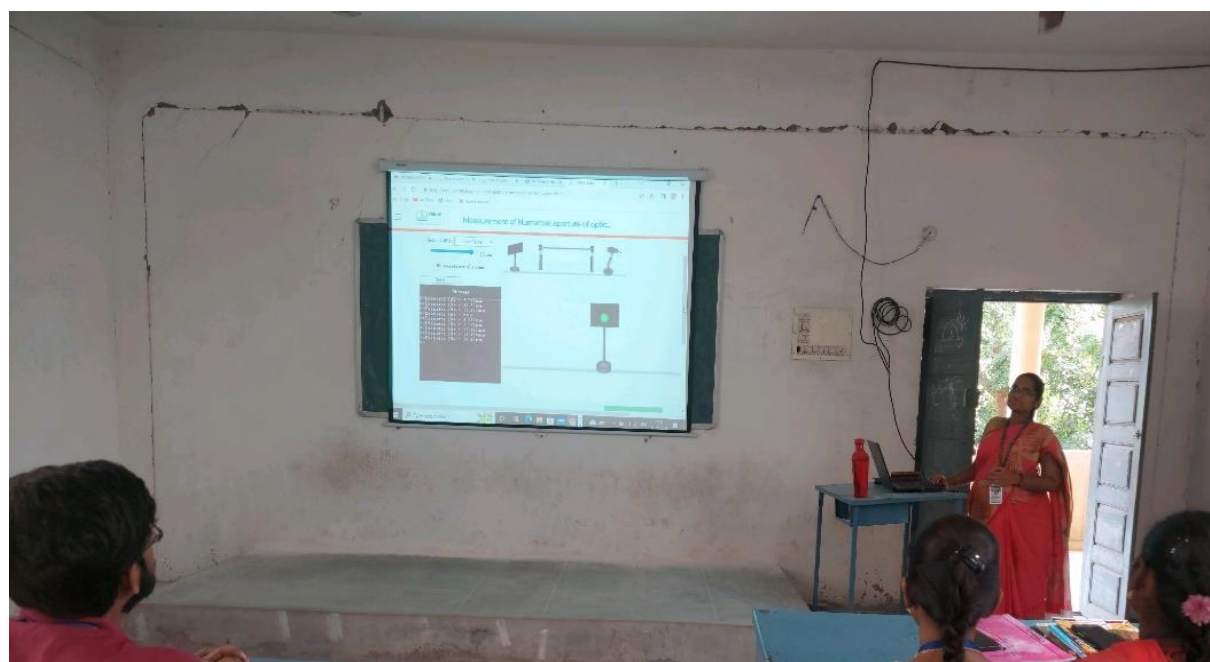


Participants listening to the speaker

Workshop on Virtual Labs- 19-09-2022 to 24-09-2022



Participants listening to Speaker



Coordinator demonstrating Experiments

Guest Lecture on Superconductors and its Applications – 11-10-2022



Interaction of speaker with participants



Felicitation to the chief guest

Photographs



A Webinar on “Career opportunities for Engineering Graduates”



II Mechanical students attending the program



A Webinar on “Non-Destructive Testing”



Mechanical faculty and students attending the program

Photographs

Guest Lecture on “Creative Techniques for Budding Engineers”

26.05.2022



Photographs

Guest Lecture on “Creative Techniques for Budding Engineers”



II Mechanical students attending the program

Guest Lecture on “Career Development” 05.05.2022

PHOTOS



Mr Abdul Syed, Ph.D scholar, IIT Madras highlighted the different career opportunities available for engineering graduates both within the country and abroad



HOD Dr. D. Ravikanth & senior faculty honoring the resource person Mr Abdul Syed, Ph.D scholar, IIT Madras

Guest Lecture on “Metal matrix on Composite Materials” on 05.05.2022

The screenshot shows a Google Meet interface with a presentation slide. The slide content is as follows:

SREE VIDYANIKETHAN
Engineering College (Autonomous)

Guest Lecture
on
METAL MATRIX COMPOSITES (MMCs)
(An Overview)

By
Mr. B. Vishnu Vardhana Naidu, M.Tech. (Ph.D.)
Asst. Professor of ME & ED Cell Coordinator
Sree Vidyanikethan Engineering College (Autonomous)
Tirupati

At the bottom of the slide, there is a small notification: "meet.google.com is sharing your screen. Stop sharing Hide".

The Meet interface shows a "REC" button, the presenter's name "Vishnu Vardhana Naidu B is presenting", and a list of participants: "HOD ME", "Nagaraja chintal", and "You". The system tray at the bottom shows the time as 11:13 AM on 25-09-2021.

Resource person Mr. B. Vishnu Vardhan Naidu, NIIT, Calicut. Addressing the students

The screenshot shows a Google Meet interface with a presentation slide titled "INTRODUCTION". The slide content is as follows:

INTRODUCTION

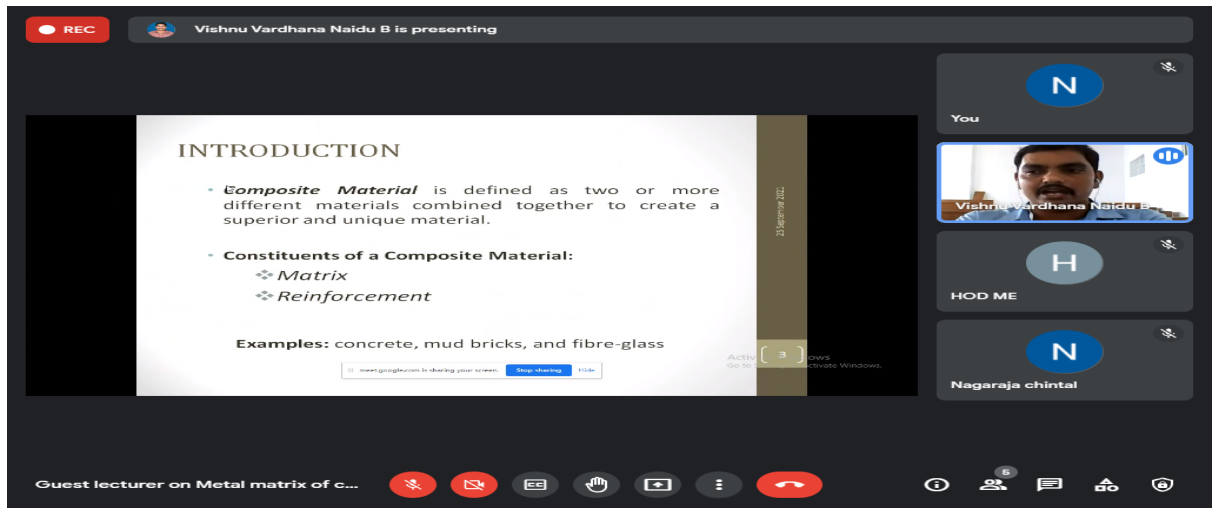
- **Composite Material** is defined as two or more different materials combined together to create a superior and unique material.
- **Constituents of a Composite Material:**
 - ❖ *Matrix*
 - ❖ *Reinforcement*

Examples: concrete, mud bricks, and fibre-glass

At the bottom of the slide, there is a small notification: "meet.google.com is sharing your screen. Stop sharing Hide".

The Meet interface shows a "REC" button, the presenter's name "Vishnu Vardhana Naidu B is presenting", and a list of participants: "You", "HOD ME", and "Nagaraja chintal". The system tray at the bottom shows the time as 11:13 AM on 25-09-2021.

Guest Lecture on “An over view of condition monitoring techniques in to the diagnosis of machine elements” on 18.11.2021



Mr.B.Vishnu Vardhan Naidu,NIIT,, calicut. Explaining the Metal matrix of composite materials



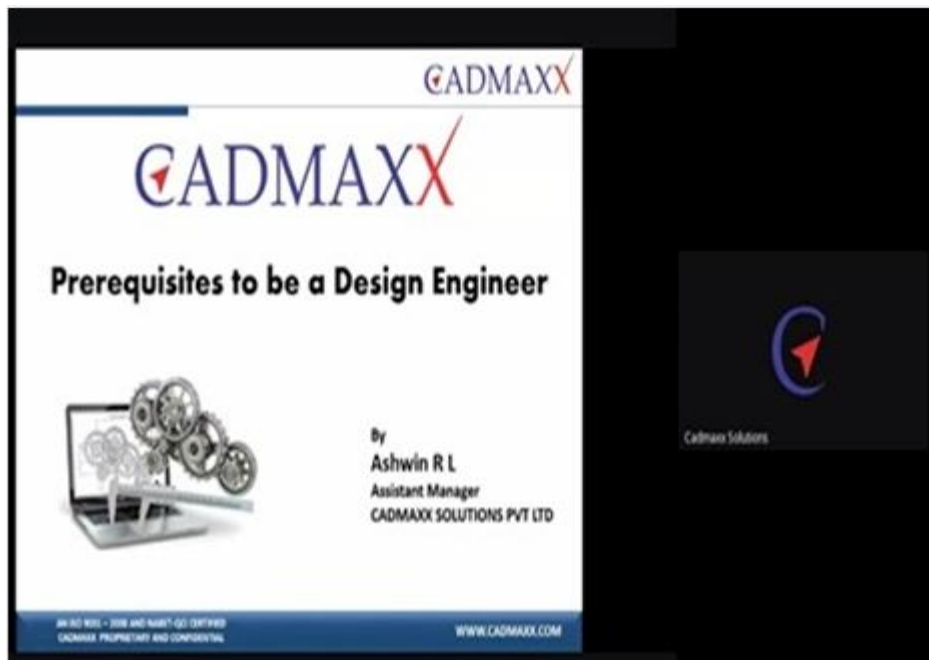
V sem students attending the program

Virtual Guest Lecture On “Overview of Mechanical Engineering” 4th Sep, 2021

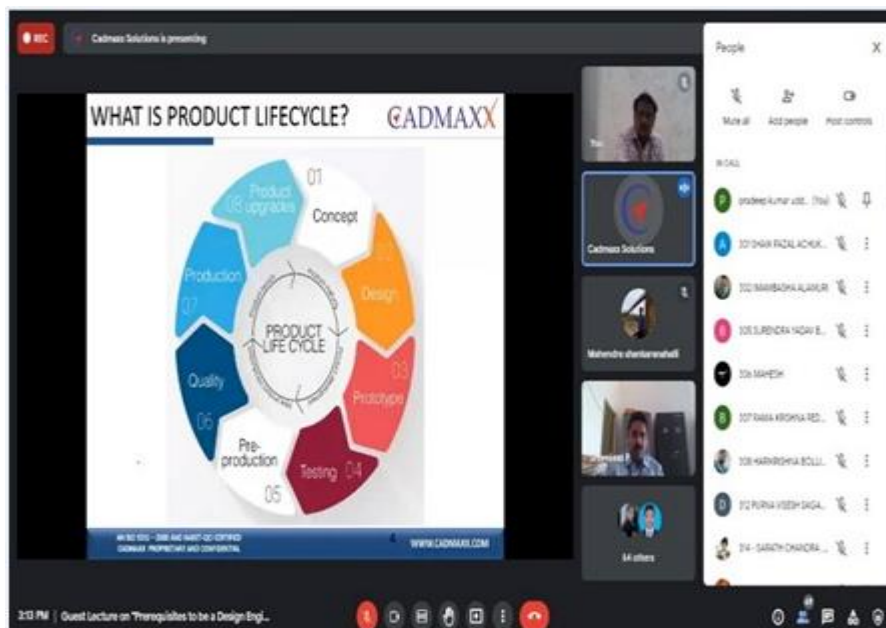


Resource person Dr J Chidanandappa Scientist-E, NRSE, Hyderabad addressing the students

A Guest Lecture on ‘Prerequisites to be a Design Engineer’ on 30.06.2021



a Guest Lecture on ‘Prerequisites to be a Design Engineer’



Final year Mechanical students attending the program

INTRODUCTION TO MISSILE SYSTEMS AND ITS CONTROL TECHNOLOGY on 01ST
APRIL, 2021



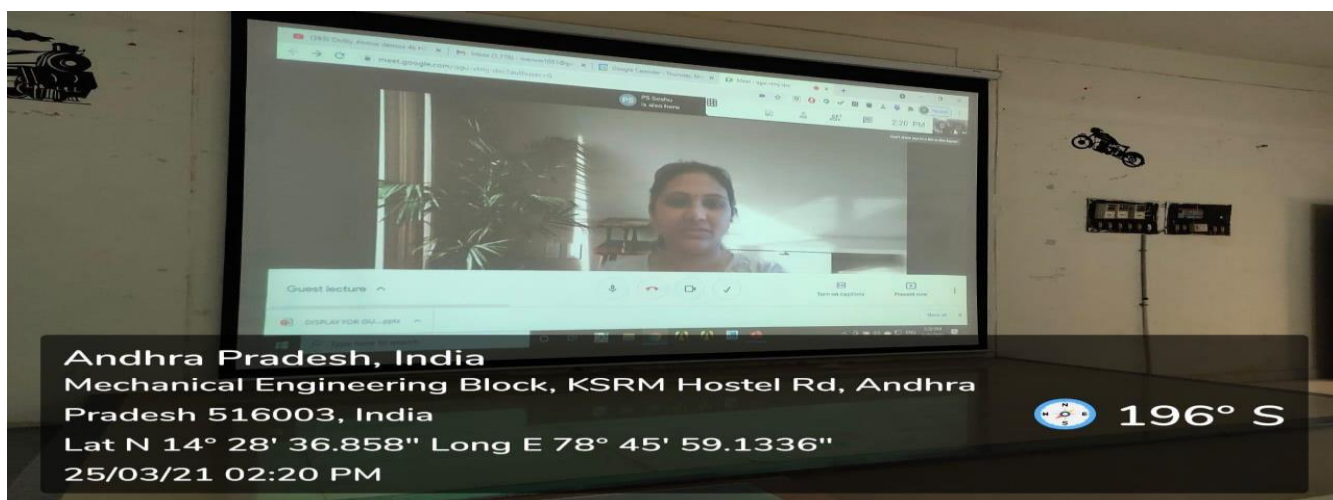
Resource Person explaining **Missile** Technology with **Missile** Technology Control Regime



III-year Mechanical students attending the program

A One - Day Guest Lecture on “3D Part Design,
Assembly and detailing using Solid Works”25-03-2021

Mrs. V. Sandhya Mohan, working as Senior Mechanical Design Engineer Lion Laboratories Ltd.Barry,
United Kingdom explaining about *3D Part Design, Assembly and Detailing using
Solid works*





III-year Mechanical students attending the program

A Guest Lecture on “**Awareness for Mechanical Students**” was organized by the Department of Mechanical Engineering, KSRMCE, Kadapa on 14 th, 2020 from 2:00 PM to 3:00 PM

Photos

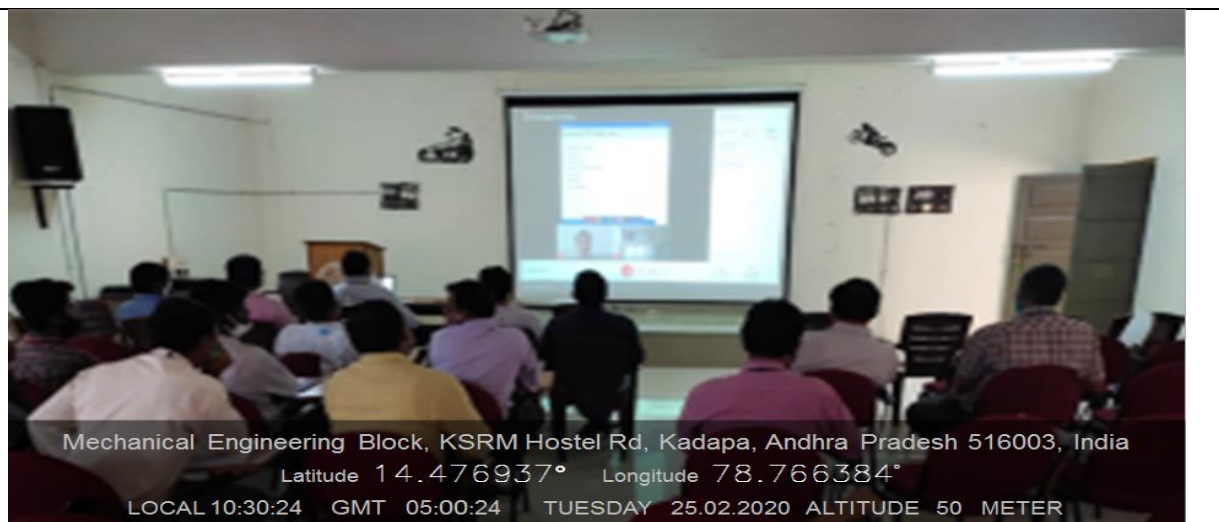


Felicitation to Motor vehicle Inspector Sri. Venkata Ramana Naik by HOD Dr.D. Ravikanth and senior professors



Faculty and students attending the Awareness program

Guest Lecture on Computational fluid Dynamics and its applications on 25.02.2020 at 10:30 AM



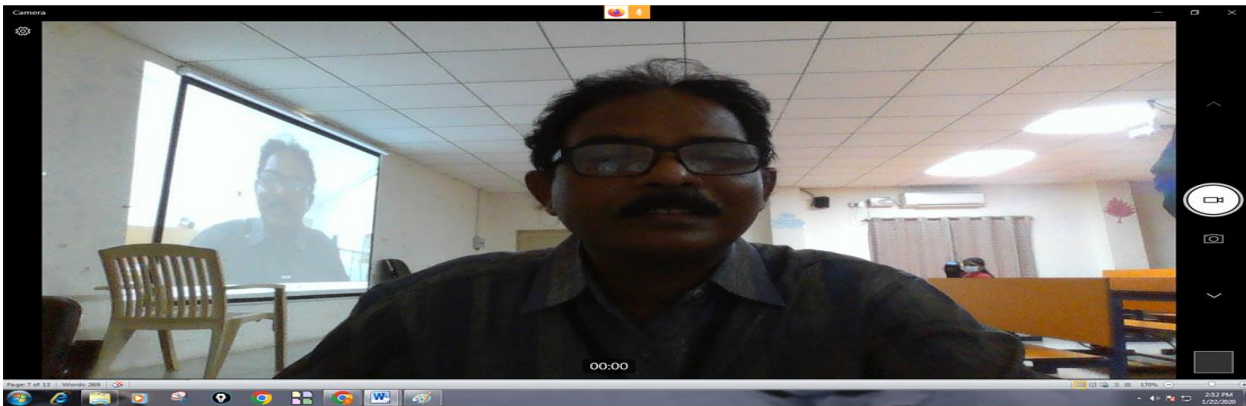
Resource person Dr. A. Harish, senior project Scientist, IIT Madras, Chennai, addressing the students



VII sem ME Students participating in the program

A virtual Guest Lecture on “**Industrial safety and Management**” was organized by the Department of Mechanical Engineering, KSRMCE, Kadapa on 22nd Jan, 2020 at 2 Pm

Photos :



Sri. S.Vijay Kumar addressing the students



Dr. J. Chidanandappa Scientist-E, NRSE, Hyderabad, addressing the students about industrial safety.

**One Week Workshop on “AutoCAD”
From 14/11/2022 to 19/11/2022**

PHOTOS

The pictures taken during the course are given below:



Students attending inauguration function



Students listening to the concepts

A One-week workshop on “PRODUCT DESIGN AND DRAFTING BY CATIA”

17th October, 2022 to 22nd October, 2022

Photos:



Dr.D. Ravikanth Professor & HOD addressing the students about importance of product design to the students

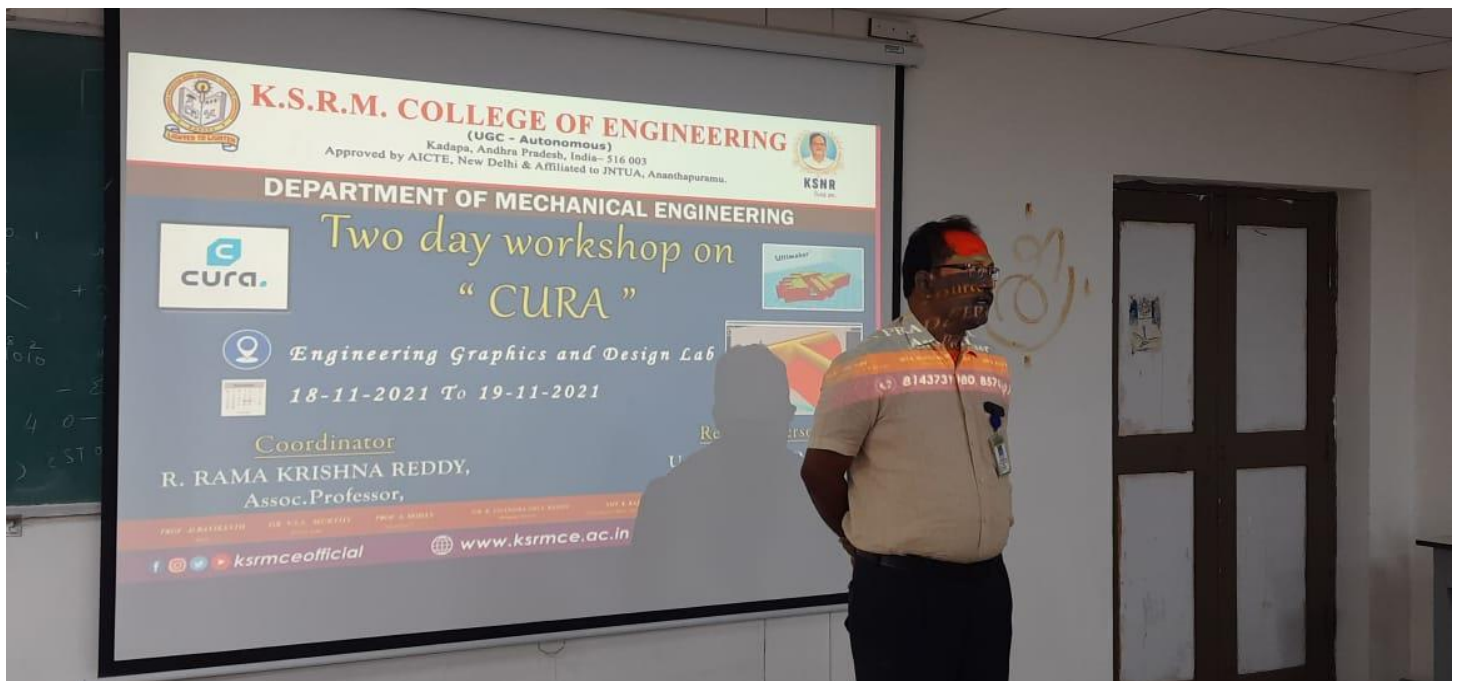


V sem Mechanical Engineering students attending the program

Two-day workshop on CURA was organized by department of mechanical engineering on 18th to 19th Nov 2021

Photos

The pictures taken during the course are given below:

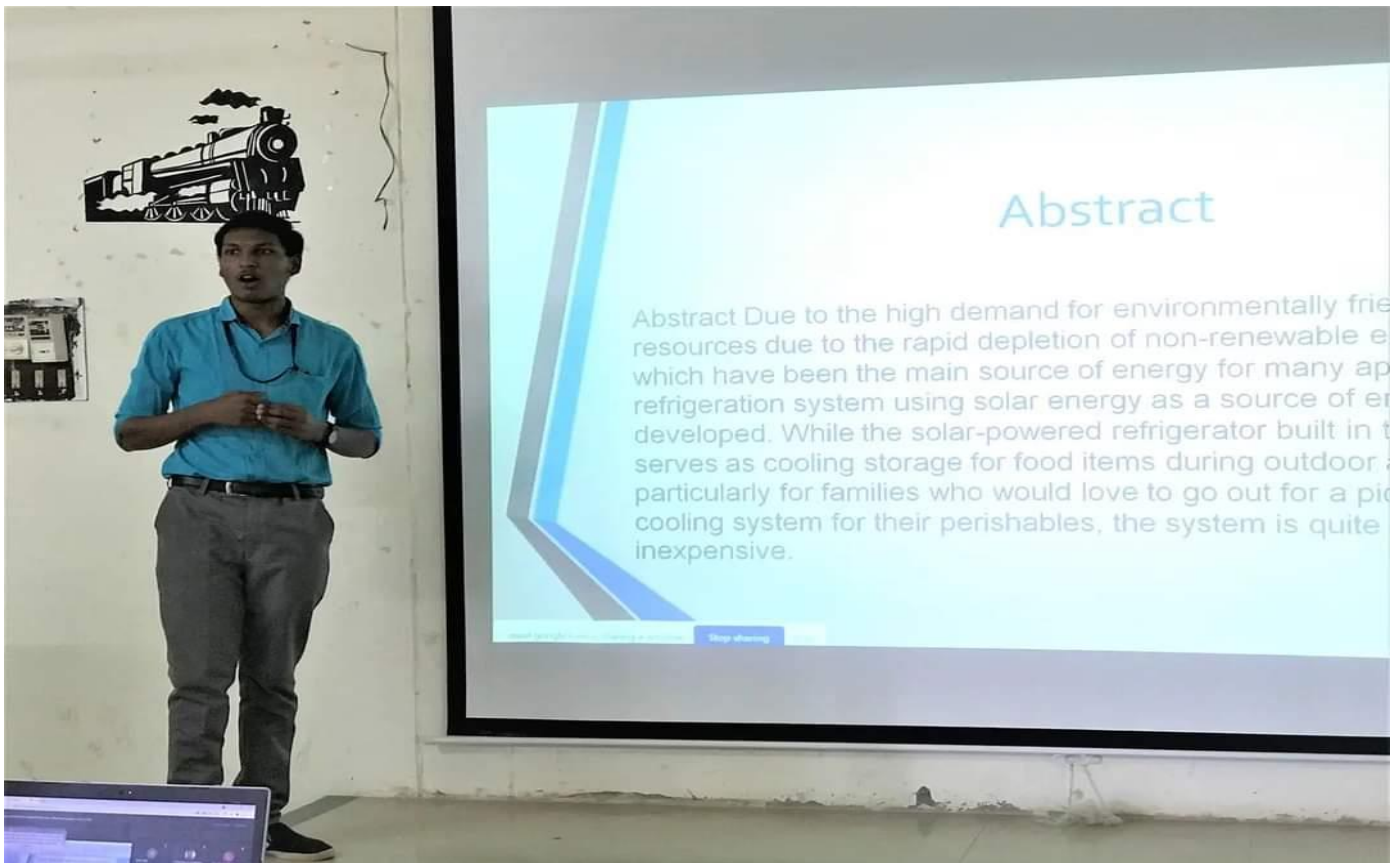


Sri.R. RamaKrishna Reddy, Coordinator introducing about the course



Practice session of cura

**One Day National Level Students Technical Symposium Exemplary@2K21
Date: 29th September, 2021**



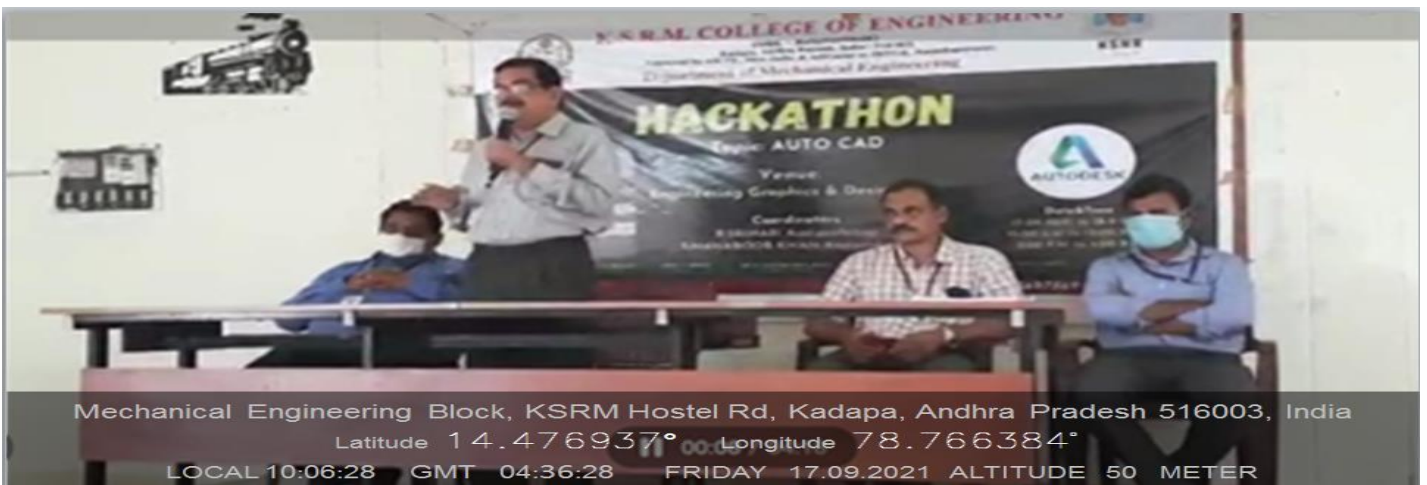
Paper presentation



Cash Prize & Certificate Distribution (Second Prize)

AUTO CAD HACKATHAN

17 & 18TH SEP 2021



Dr.V. S. Srinivasa Murthy, Principal explaining the importance of AUTO CAD to the students



V Sem Mechanical students attending the Animation basics in AUTO CAD program

One Day Workshop on 3D printing Software's for 3D Printer on 25/01/21

PHOTOS



Dr.B.Sudharshan kumar, Assosiate Professor ,MED, K.S.R.M college of Engineering adressing the students about 3D Printing softwares.



Dr.B.Sudharshan kumar, Assosiate Professor ,MED, K.S.R.M college of Engineering adressing the students about 3D Printing technology.

A Two-week Workshop on RobCAD and Solid Edge Technologies 08-07-2019 to 20-07-2019



VII sem ME students on 5th day of workshop at ME new computer lab



VII sem ME students on 6th day of workshop at Dassault lab

TECHMANTRA -2K19 (Paper presentation, Poster presentation and Technical quiz)

Date:23/03/2019 Time: 9:30AM to 5:00 PM

Paper presentation

Prize winners

1st Prize winner - Hari sivaprasad from Y.S.R Engineering college .Yogi Vemana university, PDT

2nd Prize Winner- Pavan Kumar III ME from KSRMCE

3rd Prize Winner- K.Yaswanth reddy Ist B.Tech from KSRMCE



Dr. D. Ravikanth, Professor and Head, presenting certificate to the winner

Poster Presentations:

Prize winners

1st Prize winner – Syed M. Noumaan from KSRMCE

Title: 5G NETWORK

2nd Prize Winner- C.B .Kumar balaji from Global College of engineering, kadapa.

Title: Bionic –eye



Student receiving certificate from Dr. D. Ravikanth. Professor and Head, M.E.D

Technical Quiz

Prize winners

1st Prize winner – K.. Narasimha Prasad&B.V .Chatanya Kumar 2nd ME from KSRMCE

2nd Prize Winner- A.ASHOK KUMAR YADAV&L.V .Krishna reddy from SVCK, kadapa.



Sri.T.V.V.S.N.Murthy, Assoc. Professor and Dr. K. Raja Gopal, Professor, presenting certificates to the winners

Guest Lecture on “Computer Aided Engineering (CAE) Using ANSYS” on 25.02.2019



Dr.V.S.S Murthy, Principal, K.S.R.M College of Engineering addressing the students



Sri Abdul Sheik, Technical Manager, Skill room, Nandyal, Kurnool addressing the students

Day 1



Lightening the lamp in Inauguration function by Principal Dr.V.S.S Murthy and Dr.D.Ravikanth

TYPES OF IPR

∞ It is of following types –

1. Patent
2. Trademark
3. Geographical indication
4. Copyright
5. Neighboring rights
6. Integrated Circuit
7. Industrial design
8. Trade secret

The resource person presenting various types of IPRs

Day 2



Dr. D.Ravi kanth , Professor Has delivered his speech on validity of IPR and other key elements related to IPR

V. S. S. Mmlf

Principal

PRINCIPAL
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA-516005, (A.P.)