3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development during

3.3.2.1: Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill development year wise during the year

Year	Name of the workshop/ seminar	Number of Participants	Date From – To	Link to the Activity report on the website	Date of establishment of IPR cell
22 – 23	Introduction to Nano Technology	65	12.4.2023	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Latest R& D Advancements in super capacitors	55	18.3.23	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Advancement in energy storage Technologies	57	17.3.23	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Video Editing	37	2.3.23	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Animation	55	2.3.23	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Robotics	75	2.3.24	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Solar PV Systems Design and Integration	152	30.12.2022	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	How to Select Project Working Title and How to Execute Project	182	6-12-2022	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Case Study on QCC 12 Step Methodology	164	25.11.2022	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Opportunities to Become an Entrepreneur	86	24.11.2022	https://drive.google.com/drive/u/1/folders/1jgExizB04CeKovl6Nw-h5Ii8UbfBNcwf	2018
22 – 23	Nanostructured materials to battery and super capacitors	106	16/03/2023-18/03/2023	https://drive.google.com/file/d/15jz4xOxn4Wza79OciUGCteYwqOsoEYsc/view?usp=drive_link	2018
23 – 23	IP Awareness Program	250	1.3.2023	https://drive.google.com/file/d/15jz4xOxn4Wza79OciUGCteYwqOsoEYsc/view?usp=drive_link	2018

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Department of Mechanical Engineering

Role on Event Conducted

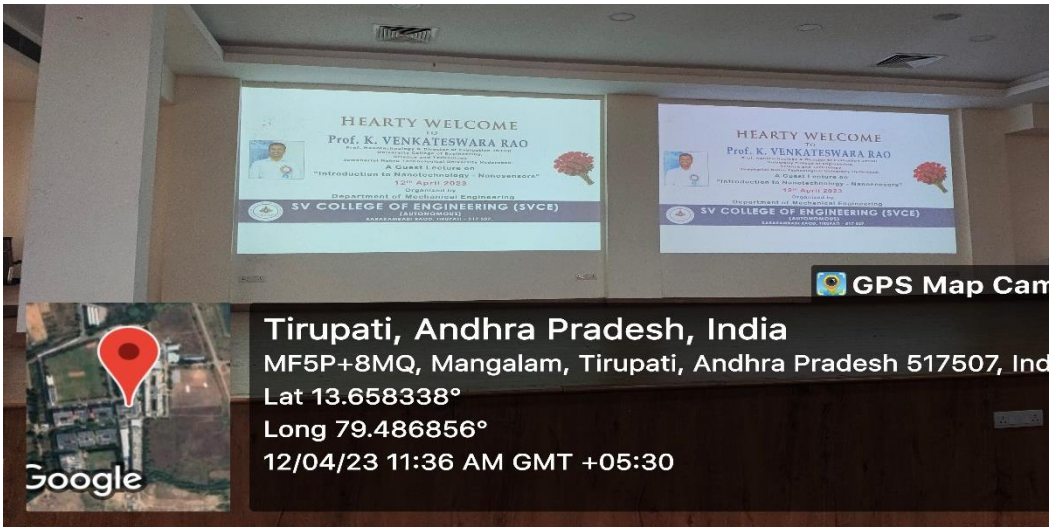
Title of Event	**:**	Introduction to Nano Technology - Nano Sensors
Date of Event Conducted	**:**	12.04.2023
Type of Event	**:**	Guest Lecture
Chief Guest of the Event	**:**	Dr. K. Venkateswara Rao Professor of Nanotechnology Director of Evaluation, JNTUAH Centre for Nano Science & Technology (CNST)

Description:

Guest Lceture was conducted for IInd and IIIrd Year Mechanical, ECE & EEE Engineering students. Guest Lecture gives a good exposure towards the utilization of the Nano Technology in the field of Nano sensors. Nanosensors are chemical or mechanical sensors that can be used to detect the presence of chemical species and nanoparticles, or monitor physical parameters such as temperature, on the nanoscale. Nanosensors are used in medicine, pollution control, pathogen detection, and process monitoring in manufacturing and transportation systems. This technology identifies the particular cells at the molecular level to deliver medicines and monitor the development of specific body parts by measuring physical properties such as volume, motion, concentration, speed, gravity, magnetic force, pressure temperature, and electricity.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technological topics on Nano Technology and Nano Sensors
2. To impart the usage of nano sensors in various applications of Engineering and Medicine fields.
3. Advancements of nano sensor technology reduces the time to measure various parameters physically and increases accuracy.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to
Prof. K. VENKATESWARA RAO
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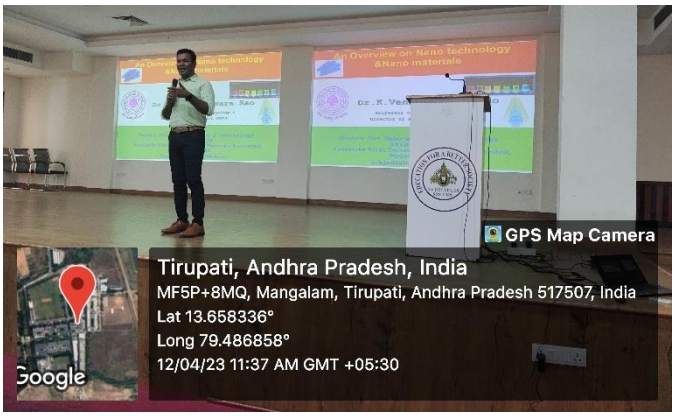
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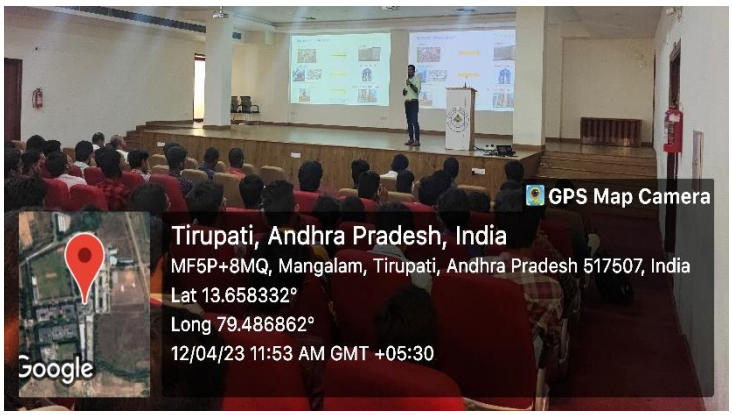
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Kin Attention

Beneficiaries: II & III Year Students

Outcome attained through this program.

PO1: Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event	**:**	Latest R & D Advancements in Super capacitors
Date of Event Conducted	**:**	18.03.2023
Type of Event	**:**	Seminar
Chief Guest of the Event	**:**	Dr. V. Aravindhan Department of Chemistry IISER, Tirupati.

Description:

Supercapacitors (SCs) are attracting considerable research interest as high-performance energy storage devices that can contribute to the rapid growth of low-power electronics (e.g., wearable, portable electronic devices) and high-power military applications (e.g., guided missile techniques and highly sensitive naval warheads). The performance of SCs can be assessed in terms of the electrochemical properties determined through a combination between the electrode and the electrolyte materials. Likewise, the charge storage capacities of SCs can be affected significantly by selection of such materials (e.g., via surface redox mechanisms). Enormous efforts have thus been put to make them more competitive with existing options for energy storage such as rechargeable batteries. This article reviews recent advances in SC technology with respect to charge storage mechanisms, electrode materials, electrolytes (e.g., particularly paper/fiber-like 3D porous structures), and their practical applications.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technologies used in energy storage systems.
2. To impart the usage of batteries in various industrial sectors and how to use and decompose them in safest way.
3. To know about the design and ranges of batteries available in society for the usage of various applications.

Beneficiaries: II Year ME A Students

Outcome attained through this program.

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Department of Mechanical Engineering

Role on Event Conducted

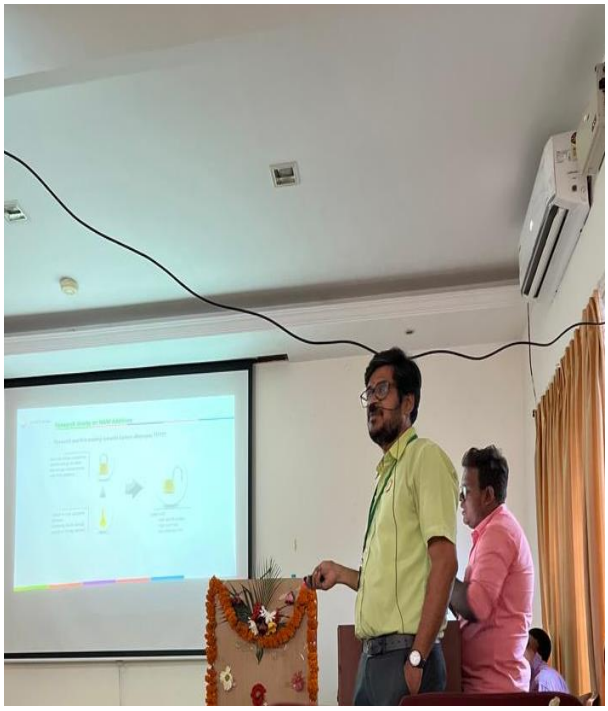
Title of Event	**:**	Advancement in energy Storage Technologies
Date of Event Conducted	**:**	17.03.2023
Type of Event	**:**	Seminar
Chief Guest of the Event	**:**	Dr. D. Sridhar Assistant Managerin R & D Amara Raja Batteries Tirupati.

Description:

Since the discovery of electricity, sought effective methods to store that energy for use on demand. Over the last century, the energy storage industry has continued to evolve, adapt, and innovate in response to changing energy requirements and advances in technology. five main categories are used to store electric energy. In that Batteries plays major role due to its compactness and advantages. Batteries are a storage devices and a range of electrochemical storage solutions, including advanced chemistry batteries, flow batteries, and capacitors.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technologies used in energy storage systems.
2. To impart the usage of batteries in various industrial sectors and how to use and decompose them in safest way.
3. To know about the design and ranges of batteries available in society for the usage of various applications.



Beneficiaries: II Year ME B Students

Outcome attained through this program.

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event	**:**	Video Editing
Date of Event Conducted	**:**	02.03.2023
Type of Event	**:**	Workshop
Chief Guest of the Event	**:**	K. Narasimha III year ECE, SVCE

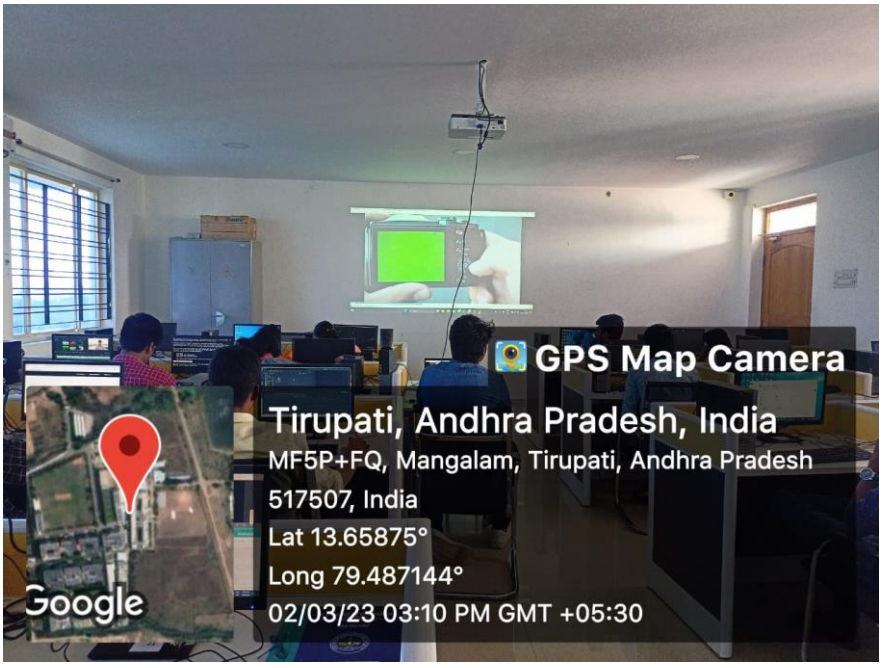
Description:

Video editing software, or a video editor is software used performing the post- production video editing of digital video sequences on a non-linear editing system. It has replaced traditional flatbed celluloid film editing tools and analog video tape editing machines.

Video editing software serves a lot of purposes, such as filmmaking, audio commentary, and general editing of video content. In NLE software, the user manipulates sections of video, images, and audio on a sequence. These clips can be trimmed, cut, and manipulated in many different ways. Most video software employs non-linear editing (NLE), which means you can edit material in any order you want. NLE systems usually feature a timeline where sections of clips are laid out in sequence from beginning to end. You can add and remove additional clips or move them around the timeline in any way you want.

Objectives of the Training Programme

1. To acquire knowledge about video editing and to create effective and attractive videos to the students.
2. To learn about video trimmimg, audio addition, diagrams addition in the video effectively
3. Students able to learn about to create video for their projects, presentations etc.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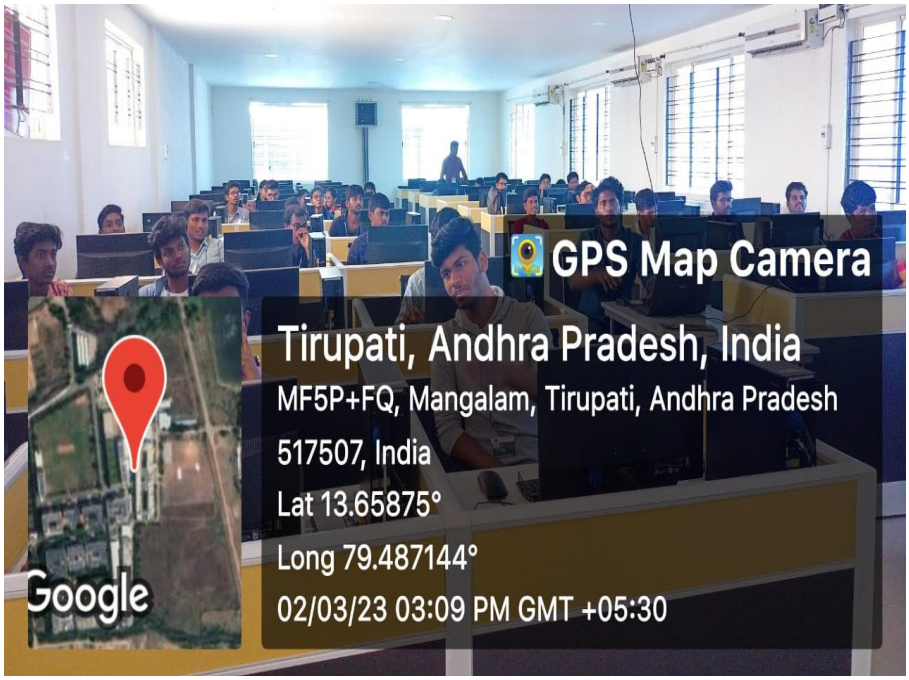
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Beneficiaries: II & III Year Students

Outcome attained through this program.

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event	**:**	Animation
Date of Event Conducted	**:**	02.03.2023
Type of Event	**:**	Workshop
Chief Guest of the Event	**:**	K. Ramprasad IV year Mechanical Engineering SVCE, Tirupati

Description:

Animation is a method by which still figures are manipulated to appear as moving images. In traditional animation, images are drawn or painted by hand on transparent celluloid sheets to be photographed and exhibited on film. Today, many animations are made with computer-generated imagery (CGI). Computer animation can be very detailed 3D animation, while 2D computer animation (which may have the look of traditional animation) can be used for stylistic reasons, low bandwidth, or faster real-time renderings. Using animation enables students to visualise and understand complex subjects or processes. As well as simplifying messages and complex subjects, animation-based learning can also help improve learners' retention. Our brains can process visual information efficiently and quickly.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technological topics on animation.
2. To explain the projects and presentation in an effective manner to the audience while presenting their ideas in various competitions
3. To learn to express their talents with suitable diagrams and movements using animated software.


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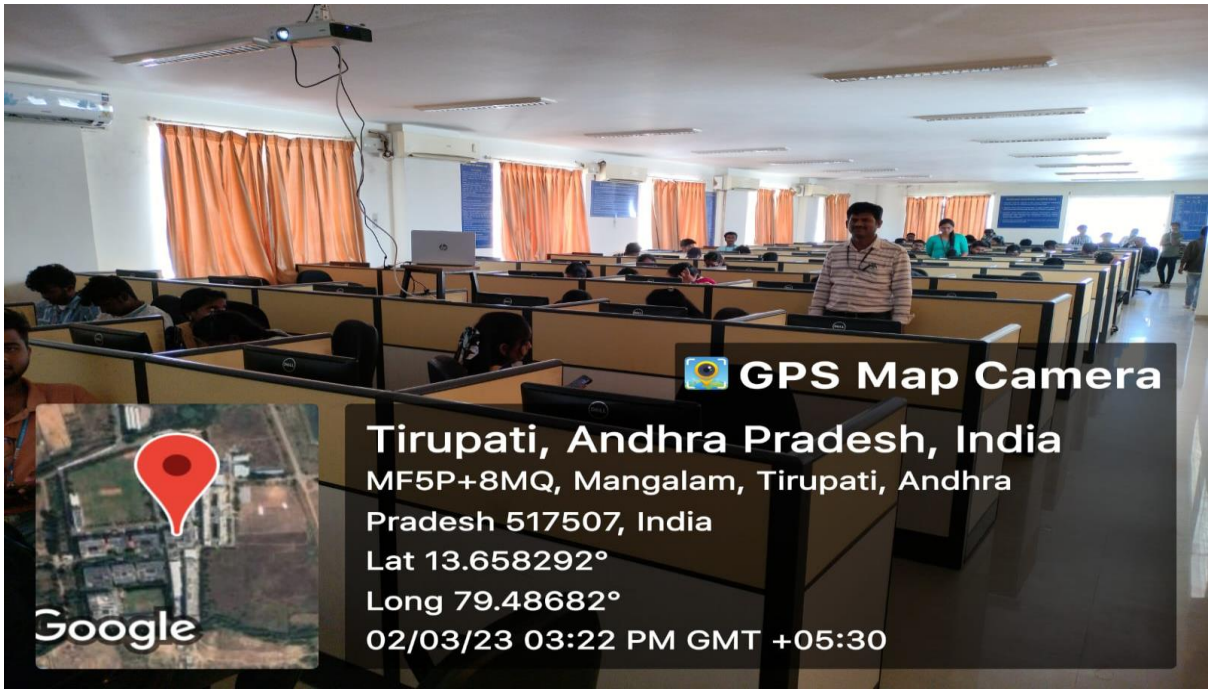
ANIMATION CLUB
Events
Registration last date
25-02-2023
Animation Contest -100/-
on March 2 & 3, 2023
CAD Modelling - 50/-
WORKSHOP : ANIMATION -200/-
FACULTY COORDINATORS
Mr.K.Harsha Vardhan Reddy
Assistant Professor,
Dept of Mech
Ms.B.Deepa
Assistant Professor,
Dept of ECE
for more details visit
ample.svce.edu.in
STUDENT COORDINATORS
Hemanth - 8885374169
Deepak - 9491340472
Mahi - 9908261186
Tej - 6309645717



Beneficiaries: II & III Year Students

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event	**:**	Robotics
Date of Event Conducted	**:**	02.03.2023
Type of Event	**:**	Workshop
Chief Guest of the Event	**:**	Dr. M. Rajasekhara Reddy Assistant Professor (Sr-Grade 1) Department of Design and Automation, VIT University, Vellore.

Description:

Robotics is a branch of engineering that involves the conception, design, manufacture and operation of robots. The objective of the robotics field is to create intelligent machines that can assist humans in a variety of ways. Robotics can take on a number of forms. Robots are widely used in manufacturing, assembly, packing and packaging, mining, transport, earth and space exploration, surgery, weaponry, laboratory research, safety, and the mass production of consumer and industrial goods.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technological topics and applications in various Industrial sectors
2. To learn the advantages and design of robots using different software tools
3. To facilitate students to understand, design and learn Robotics. Provide interested students with opportunities to express their skills, knowledge, and creativity through conceptualizing, designing, and programming robots.

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AMPLE 2K23

Events organized by

ROBOTICS CLUB

MARCH 02 Robotic workshop **Reg Fee : 200/-**

MARCH 03 Idea on kit **Reg Fee : 100/-**

Register Here

Last Date: 25th Feb

For more details:

https://ample.svce.edu.in/

Faculty Co-ordinators

Dr. C. Raju, Ph.D.

Dr. M. Vamsi Krishna, Ph.D.

Student Co-ordinators

T. Guru Ragini -8978004659

A. Niranjan -9346438654

A.Dhronika Reddy-7989600525

M. Chaitanya -9652689730

B. Teja Sree -9346438654

M. Deepak -9491340472

yantraclub@svce.edu.in

@roboticsclub_svcolleges

Beneficiaries: All department students are invited

Outcome attained through this program.

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event : Solar PV Systems Design & integration

Date of Event Conducted : 30.12.2022

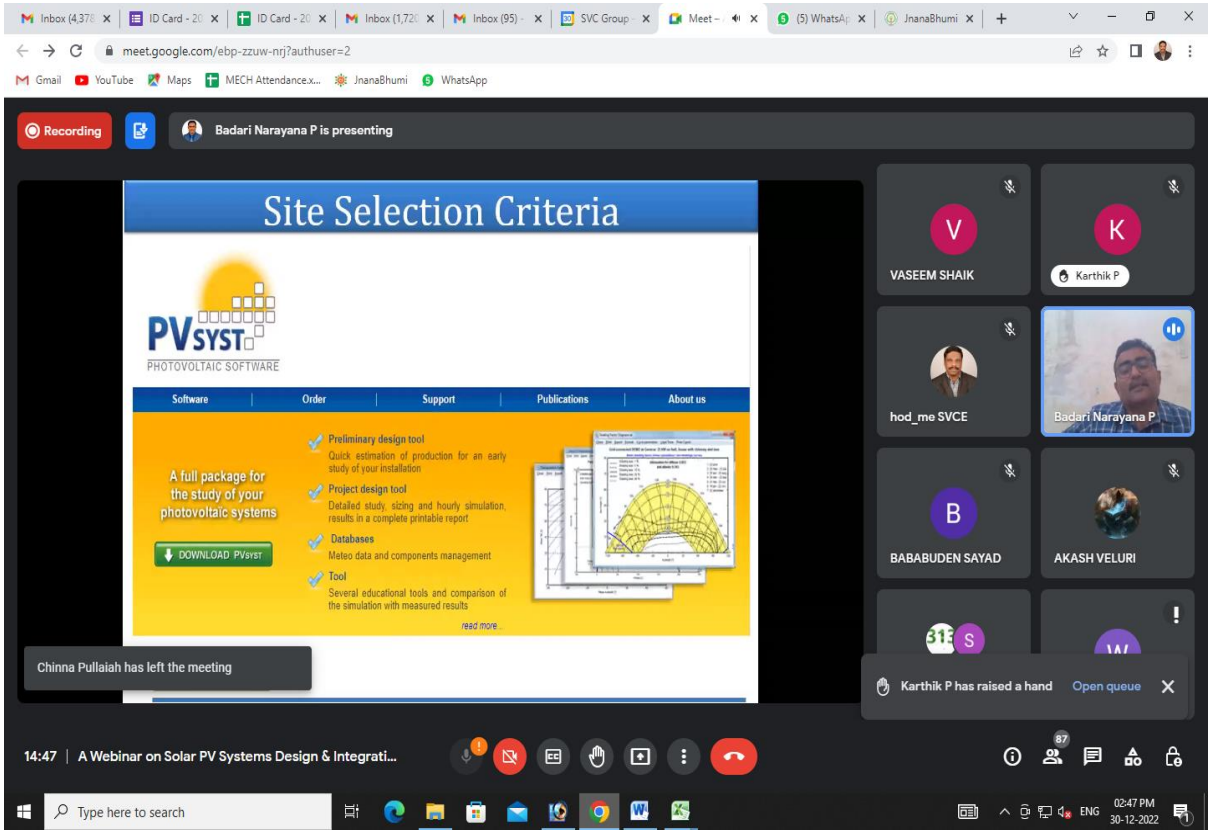
Type of Event : Webinar

Description:

Webinar is conducted for IIIrd and IVth Year Mechanical Engineering students. Solar technologies convert sunlight into electrical energy either through photovoltaic (PV) panels or through mirrors that concentrate solar radiation. The main objective of the programme is to help students that how to design Photovoltaic cells in effective manner and to produce maximum efficiency with minimal loss for the conversion of Solar Energy into electrical energy. The webinar gave a brief outline about the solar PV cells design and in which way the system is integrated with energy conversion.

Objectives of the Training Programme

1. To impart fundamental knowledge to students in the latest technological topics on Solar PV system & design
2. Explain design engineering concepts to design Solar PV cells for different applications of energy requirements.
3. Solar energy conversions and requirement of PV cells for the desired energy generation.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Detailed study, sizing and hourly simulation, results in a complete printable report
Databases
Meteo data and components management
Tool
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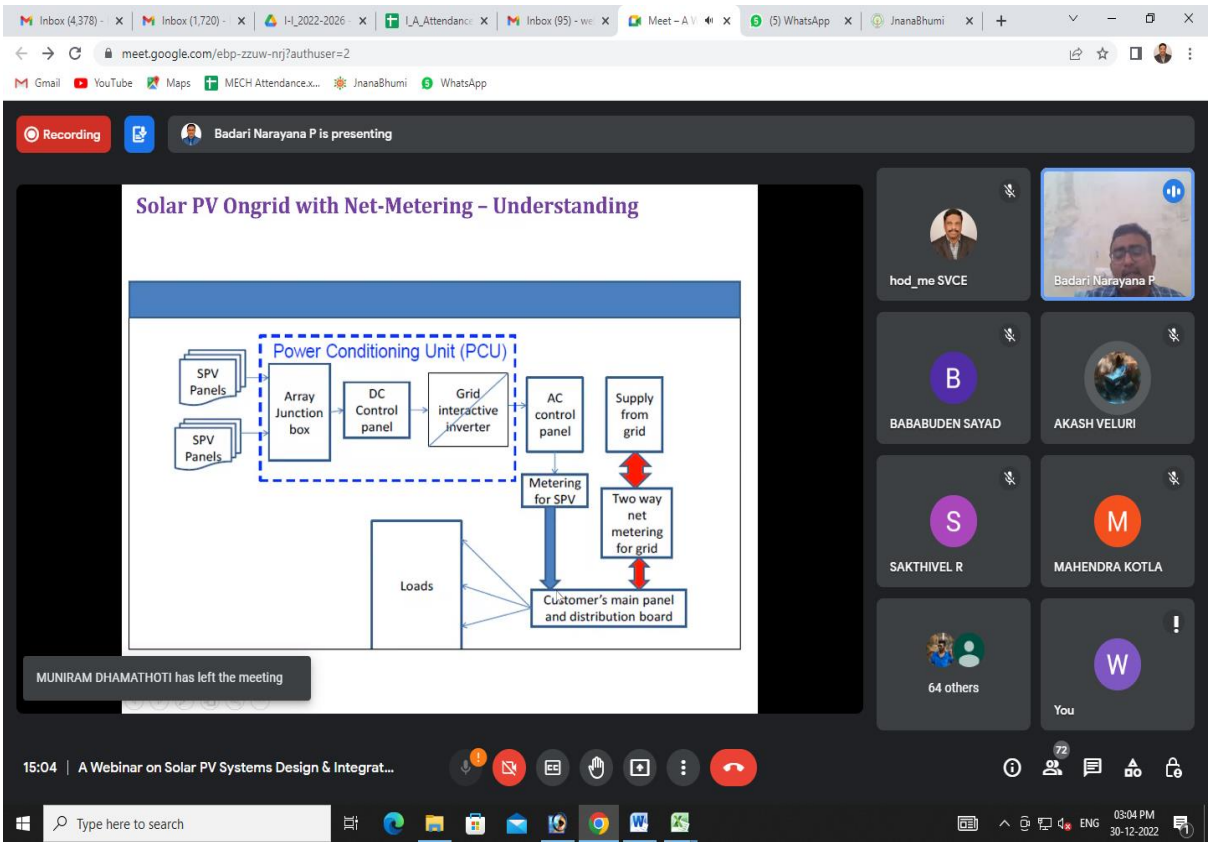
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Array Junction box
DC Control panel
Grid interactive inverter
AC control panel
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Metering for SPV
Two way net metering for grid
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AKASH VELURI
SAKTHIVEL R
MAHENDRA KOTLA
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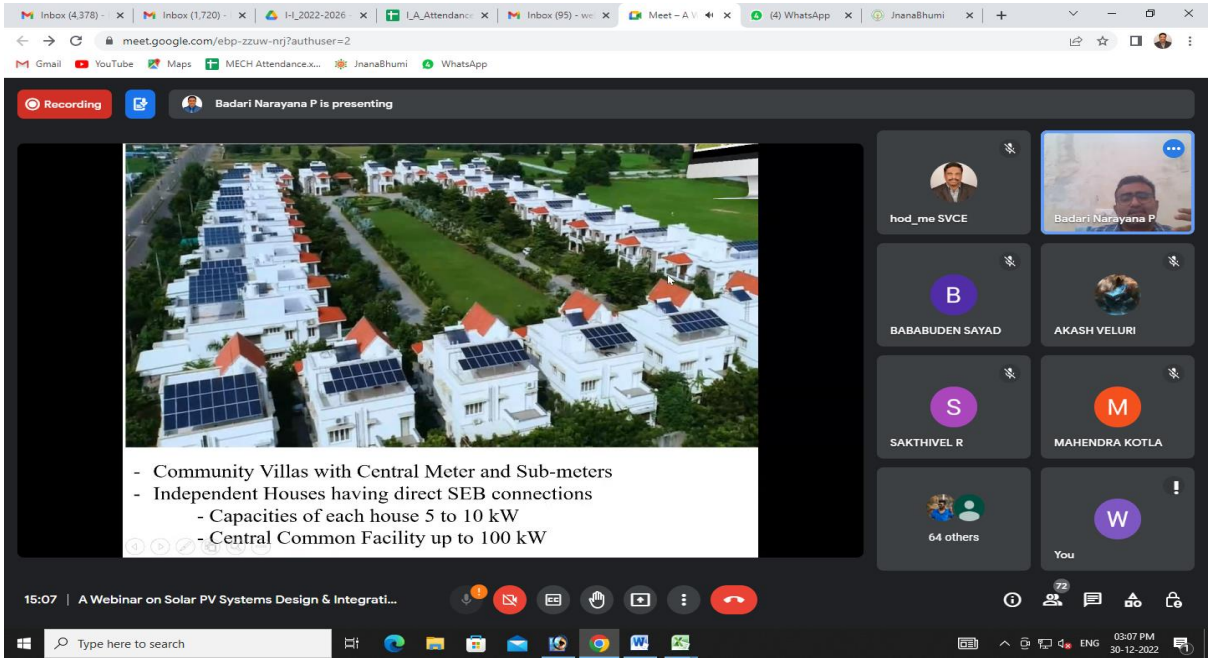


Beneficiaries: III & IV Year Students

Outcome attained through this program.

PO1: Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

PO3: Design/Development of Solutions: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

PO5: Modern tool usage: An ability to use the techniques, resources and modern engineering tools necessary for modeling the complex system design in Mechanical Engineering.

PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSO1: Ability to apply the knowledge in Thermal Sciences, Design and Manufacturing processes towards the improvement of engineering systems considering productivity, quality, and cost.

PSO2: Ability to analyze and apply the acquired Mechanical Engineering Knowledge for the sustainable growth of society and self.

(HoD/Mech)

SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous)
Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.
Accredited by NBA (B.Tech – CSE, ECE,EEE,Mech.,Civil and IT) & NAAC with 'A' Grade
Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuram.

Department of Mechanical Engineering

Role on Event Conducted

Title of Event : How to Select Project Working Title and How to Execute Project

Date of Event Conducted : 6.12.2022 (10 am – 12 pm)

Type of Event : Webinar

Description:

Webinar is conducted for IInd and IIIrd Year Mechanical Engineering students. Speaker Dr. M. Raja Sekhara Reddy working as an associate Professor at VIT, Vellore. Speaker explained with a case study that how to execute the project with outcome-based education. He has given many ideas to execute the project along with mathematical and simulation models with some case studies. Selection of project plays a vital role to contribute for the society growth in terms of economically and eco-friendly.

Objectives of the Programme

Students able to

1. Select the project based on his/her interested field for a smooth execution
2. Understand the path of doing project with some mathematical or simulation models

Beneficiaries: III & IV Year Students

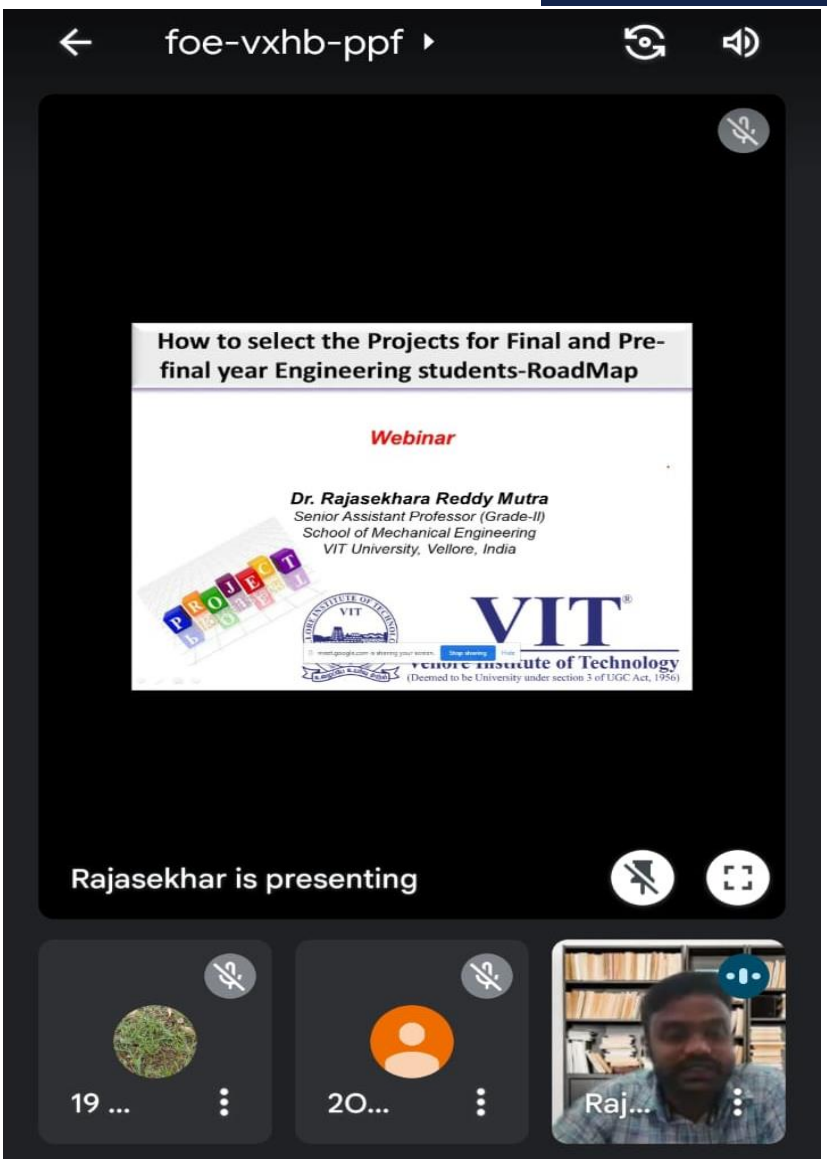
Outcome attained through this program.

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Program Photos



PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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26-11-2022

Name of the Event: Seminar on "A Case Study on QCC 12 Step Methodology"

Date conduction: 25-11-2022

Name of the Coordinator : Dr N Rajesh, Associate Professor

Students Attended : IV & III Year ME students

Report

Seminar on **"A Case Study on QCC 12 Step Methodology"** is organised by the Department of Mechanical Engineering for one Day for IV & III ME students on 25-11-2022. Mr. P Kishore Kumar, Sr. Manager – Sinter Plant Works from Electro steel Castings Ltd, Sri kalahasti attended as a speaker and delivered a Lecture on the above-mentioned topic. In this seminar he discussed about Introduction to Quality, Importance of Quality in Industries, QCC 12 step methodology and A case study applied to the real time problem in industry.

Objectives of the Program:

Student can able to get awareness on

- The problem-solving capability of the workers in the Industry
- he cultivation and assimilation of positive values and work ethics;
- to give chance to the employees to use their wisdom and creativity.
- Involvement and interest in work and
- To fulfill the self-esteem and motivational needs of employees.
- To promote self and mutual development including leadership quality,
- To encourage team spirit, cohesive culture among different levels and sections of the employees.

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Seminar on "**A Case Study on QCC 12 Step Methodology**"

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Beneficiaries: III & IV Year Students

Outcome attained through this program.

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PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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Department of Mechanical Engineering

Role on Event Conducted

Title of Event : Opportunities to Become an Entrepreneur

Date of Event Conducted : 24.11.2022

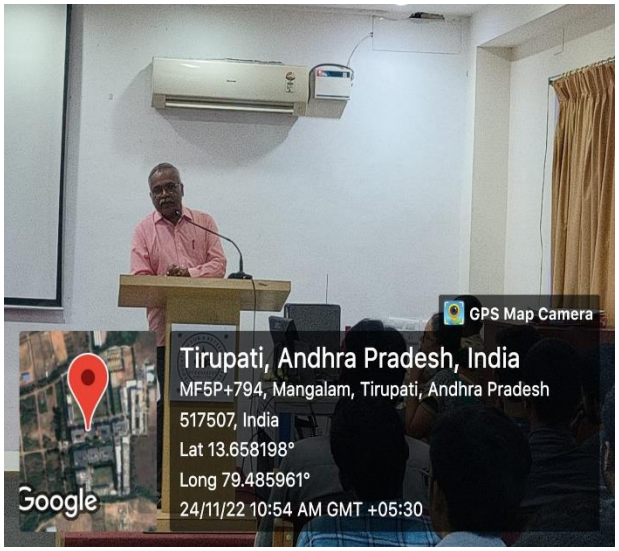
Type of Event : Seminar

Description:

Seminar is conducted for IIIrd and IVth Year Mechanical Engineering students about entrepreneurship oppourtunities available through Andhra Pradesh state government. Financial Crisis plays major role to become an entrepreneur. Mr J Jawahar Babu, Deputy Zonal Manager, APIIC Ltd, explained about the various possible ways to approach the government to get fund for the initial construction and for the setup of a small-scale industries. Mr G. Murali, Deputy Director elaborated about writing of proposals to get fund from the Governments.

Objectives of the Training Programme

1. To impart fundamental knowledge to students to become an Employer
2. Explain the various funding schemes available in the government to do start-up companies.
3. To get sufficient knowledge about how to write proposals to get fund from the government.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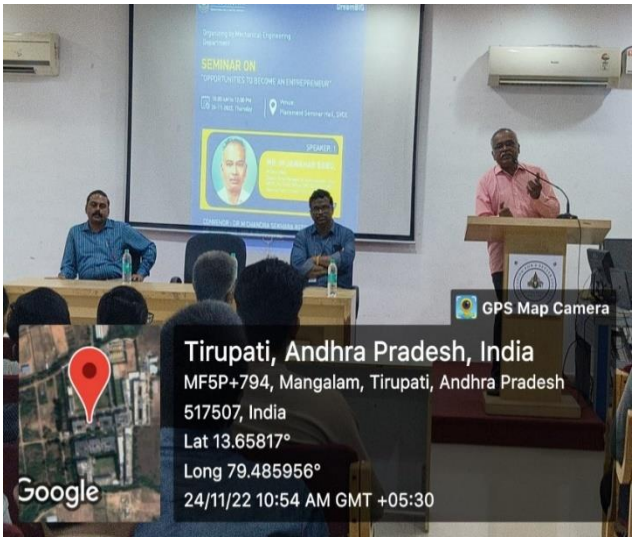
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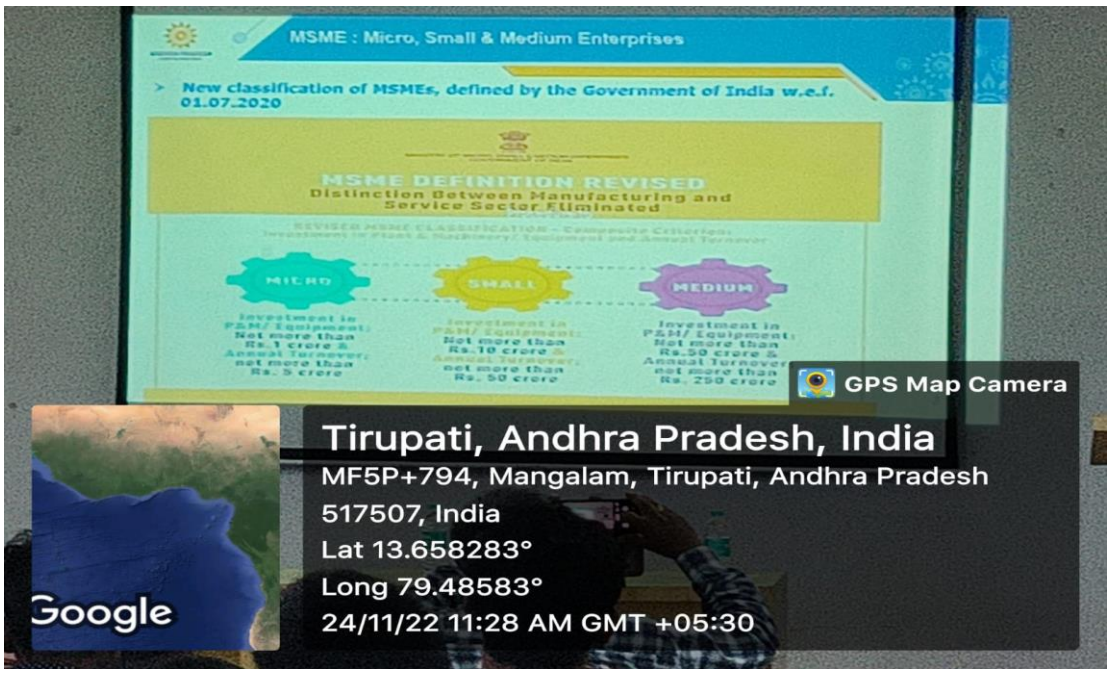
MSME : Micro, Small & Medium Enterprises
New classification of MSMEs, defined by the Government of India w.e.f. 01.07.2020
MSME DEFINITION REVISED
Distinction Between Manufacturing and Service Sector Eliminated
MICRO
SMALL
MEDIUM
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517507, India
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Beneficiaries: III & IV Year Students

Outcome attained through this program.

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IP Awareness Program

(Under the National Intellectual Property Awareness Mission (NIPAM), the Government of India)

Organized by

Sri Venkateswara College of Engineering

(Autonomous)

Karakambadi Road, Tirupati-517 507

The IP Awareness/Training Program was held on March 1, 2023, under the National Intellectual Property Awareness Mission (NIPAM), the Government of India. Organized by Sri Venkateswara College of Engineering, (Autonomous), Karakambadi Road, Tirupati-517 507, Andhra Pradesh.

The main objective of this program is to create awareness on Intellectual Property among students and faculty members.

The program was inaugurated by the principal of Sri Venkateswara College of Engineering, Dr. N. Sudhakar Reddy, Dr. C. Chandra Sekhar, Professor, and Head R&D, and Dr.Nalla Bala Kalyan, Program Coordinator.

In this program, Priyanka, Examiner of Patents & Designs, NIPAM officer, Patent Office, Delhi, Ministry of Commerce & Industry, acted as a speaker. Priyanka started the session by giving a brief introduction to Intellectual Property.

The speaker gave very informative content by explaining the different categories of Intellectual Property, like- Patents, Designs, Trademarks, Geographical Indications, Copyrights. In the Question-and-Answer Forum, the speaker went through the questions of participants and clarified all the questions in an effective manner by giving realistic and practical examples and made the session interesting and interactive. In the valedictory session, the feedback from participants was taken. The feedback revealed that the session was very educational and inspiring. The program ended with a vote of thanks.

Glimpses of Online IP Awareness Training Program
on 1st, March 2023