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

3.3.2.1: Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR),entrepreneurship, skill develop

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
2023 - 2024	Seminar on Latest Skills required for the Industry from ME Students	145	30.4.2024 (10.00 am – 1.00 pm)	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Skill Enhancement Program on Additive Manufacturing (3D Printing)	30	15.11.2023 – 28.12.2023	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Seminar on Campus to Career (Seminar)	176	14.10.23 (9.00 – 10.00am)	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Workshop on Entrepreneurship & Innovation as a Career Opportunity	155	14.10.23 (10.30 – 1.00 pm)	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Guest Lecture on PDE application to lubrication inside a human knee joint	160	11.10.23	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Workshop on Unlock Innovation with CATIA V5	45	25.09.2023 – 30.9.2023 (9 – 4pm)	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Seminar on Systematic Implementation of Analytical Tools in Industry and Institution	160	16.09.23	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	Workshop on Assembly and Disassembly of IC Engine	65	11.09.2023 – 13.09.2023 (9 – 4 pm)	https://drive.google.com/drive/folders/1gUrbUkzyvmrPLfORoAB9AKPPeDegF4IB	2018
2023 - 2024	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

Event Report: 3-Day IC Engine Assembly and Disassembly Hands-On Workshop

Date: **11-13 December 2023** ***Location:*** **IV block** ***Organizers:*** **Department of Mechanical Engineering, SV College of Engineering, Tirupati**

Overview: The three-day IC Engine Assembly and Disassembly Hands-On Workshop catered to students eager to delve into the intricate world of internal combustion engines. Hosted by [Organizing Institution/Organization], the event aimed to provide practical insights into the functioning and mechanics of IC engines, offering participants a unique opportunity for hands-on learning.

Day 1: Understanding Engine Basics,

The workshop commenced with an introduction to the fundamentals of internal combustion engines. Seasoned experts and industry professionals provided comprehensive lectures covering the history, types, and working principles of IC engines. Participants engaged in interactive sessions to grasp the theoretical underpinnings before diving into practical sessions.

The latter part of the day involved hands-on activities, allowing students to familiarize themselves with engine components, tools, and safety protocols. The initial tasks involved identifying engine parts and understanding their functions, laying the groundwork for the following days' activities.

Day 2: Assembly Procedures

On the second day, participants delved deeper into the assembly process. Divided into groups, students were given engine components and tasked with assembling them under the guidance of experienced mentors. This interactive session not only honed their technical skills but also encouraged teamwork and collaboration.

The session emphasized precision, attention to detail, and adherence to safety standards. Participants gained practical insights into the sequential assembly of various engine components, understanding the significance of each part in the engine's functionality.

Day 3: Disassembly and Troubleshooting

The final day focused on the disassembly of engines assembled the previous day. Participants reversed the assembly process, dismantling the engines while troubleshooting and identifying common issues. This exercise allowed them to apply their theoretical knowledge practically and comprehend the inner workings of an IC engine.

Expert mentors guided the disassembly process, offering valuable insights into diagnosing problems and understanding the impact of faulty components on engine performance. Q&A sessions facilitated discussions on problem-solving techniques and maintenance practices.

Key Takeaways:

- In-depth understanding of IC engine components and their functions.
- Hands-on experience in engine assembly, disassembly, and troubleshooting.
- Improved problem-solving and teamwork skills.
- Practical knowledge application in real-time scenarios.

Conclusion: The 3-day IC Engine Assembly and Disassembly Hands-On Workshop concluded on a high note, leaving participants equipped with practical knowledge and enriched experiences. The event fostered a deeper appreciation for the complexities of internal combustion engines while empowering students to apply their learnings in future academic and professional pursuits.

Outcomes with Po's:

Enhanced Understanding of IC Engine Components (Outcome):

POS: Increased technical proficiency and knowledge enhancement among participants. This knowledge can be utilized for future projects, academic pursuits, or career opportunities in the automotive industry.

Hands-On Assembly and Disassembly Experience (Outcome):

POS: Practical skills development through hands-on activities, fostering a better understanding of the sequential processes involved in assembling and disassembling an engine. This practical experience can be highlighted as a valuable addition to resumes or portfolios.

Improved Problem-Solving Skills (Outcome):

POS: Participants gained troubleshooting abilities by identifying and rectifying issues during the disassembly process. This skill set is advantageous for critical thinking and problem-solving in various technical scenarios.

Teamwork and Collaboration (Outcome):

POS: Collaborative group exercises facilitated teamwork and communication skills, emphasizing the significance of coordinated efforts in achieving a common goal. This experience demonstrates the ability to work effectively in team settings, a crucial aspect in any professional environment.

Application of Theoretical Knowledge (Outcome):

POS: The integration of theoretical understanding with practical application showcased participants' ability to apply classroom knowledge to real-world situations. This demonstrates a well-rounded skill set valuable for future engineering endeavours.

Safety Adherence and Protocols (Outcome):

POS: Emphasis on safety protocols during practical sessions highlighted participants' commitment to adhering to safety standards, an essential trait in any technical field.

Enriched Learning Experience (Outcome):

POS: The interactive and engaging nature of the workshop enhanced the overall learning experience, fostering a deeper interest in the subject matter and potentially encouraging further exploration or specialization in automotive engineering.

Networking and Mentorship (Outcome):

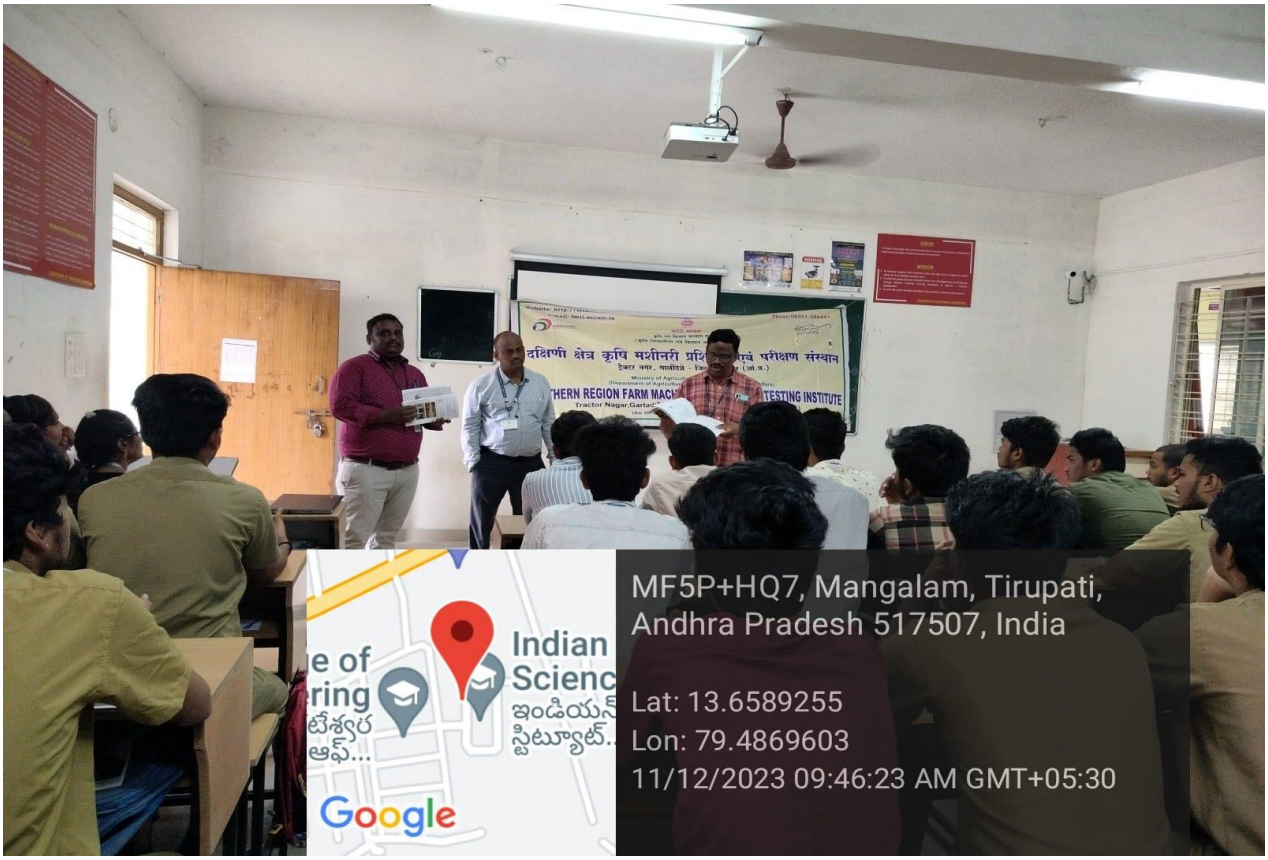
POS: Participants had the opportunity to interact with industry professionals and mentors, fostering valuable connections and potentially opening doors for future mentorship or guidance in their career paths.

Outcomes	Points of Sale (POS)	Scale
Enhanced Understanding of IC Engine Components	Increased technical proficiency (Po1, Pso2)	3
Hands-On Assembly and Disassembly Experience	Practical skills development (Po2, Pso2)	3
Improved Problem-Solving Skills	Troubleshooting abilities (PO3, Pso2)	3
Teamwork and Collaboration	Effective collaboration (PO9, Pso2)	2
Application of Theoretical Knowledge	Real-world application (Po11, Pso2)	3
Safety Adherence and Protocols	Commitment to safety standards (PO8)	2
Enriched Learning Experience	Deepened interest in the subject (PO1)	2
Networking and Mentorship	Industry connections and guidance opportunities (Po12)	2

PHOTOS:


INSTITUTION'S INNOVATION COUNCIL
IEEE Robotics & Automation Society
SAE INDIA
Society of Automotive Engineers INDIA
SVCE TIRUPATI
EDUCATION FOR A BETTER SOCIETY
Three-Day Workshop on
ASSEMBLY AND DISASSEMBLY
OF I.C. ENGINE
Organized by the Department of Mechanical Engineering
Trainers from
SRFMTTI, Garladinne, Ananthapuramu.
DATE:
11th -13th
December, 2023
TIME:
09:00 AM to 04:00 PM
VENUE :
Thermal Engineering Lab,
4th Block, SVCE
Karakambadi
Road, Tirupati
Call to find out more
+91 8886644985
Visit our website
www.svce.edu.in


MF5P+HQ7, Mangalam, Tirupati,
Andhra Pradesh 517507, India
Lat: 13.6589255
Lon: 79.4869603
11/12/2023 09:46:23 AM GMT+05:30
Google


MF5P+HQ7, Mangalam, Tirupati,
Andhra Pradesh 517507, India
Lat: 13.6589255
Lon: 79.4869603
11/12/2023 09:46:23 AM GMT+05:30
Google


MF5P+HQ7, Mangalam, Tirupati,
Andhra Pradesh 517507, India
Lat: 13.6589255
Lon: 79.4869603
11/12/2023 09:46:23 AM GMT+05:30
Google


BENCH GRINDER


DEPARTMENT OF MECHANICAL ENGINEERING
BENCH GRINDER

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
SOUTHERN REGION FARM MACHINERY TRAINING AND TESTING INSTITUTE

Tele: 08551-286441

भारत सरकार
Government of India
कृषि एवं किसान कल्याण मंत्रालय
Ministry of Agriculture and Farmers Welfare
कृषि एवं किसान कल्याण विभाग
Department of Agriculture and Farmers Welfare
गार्लाडिन्ने, जिला: अनंतपुर (आं.प्र.)/ Garladinne, Distt: Anantapur (A.P)-515731
(AN ISO-9001:2015 CERTIFIED INSTITUTE)

Website:http://srfmtti.dacnet.nic.in/ E-Mail: fmti-sr@nic.in

अनुक्रमांक/Serial No: NB/43/2/18914/40586/2023-24 Date : 13/12/2023

प्रमाण पत्र/CERTIFICATE

यह प्रमाण-पत्र श्री/कु. **ए खंडिता** पुत्र/पुत्री **श्री ए रामेश** को प्रदान किया जाता है, जिन्होंने इस संस्थान में दिनांक **11.12.2023** से **13.12.2023** तक कृषि मशीनीकरण संबंधी पाठ्यक्रम के अंतर्गत गहन प्रशिक्षण प्राप्त किया।

This certificate is awarded to Shri/Kum **A.Khanditha** Son/Daughter of Shri **A.Ramesh** who has undergone intensive training on Agricultural Mechanization at this Institute from **11.12.2023** to **13.12.2023**

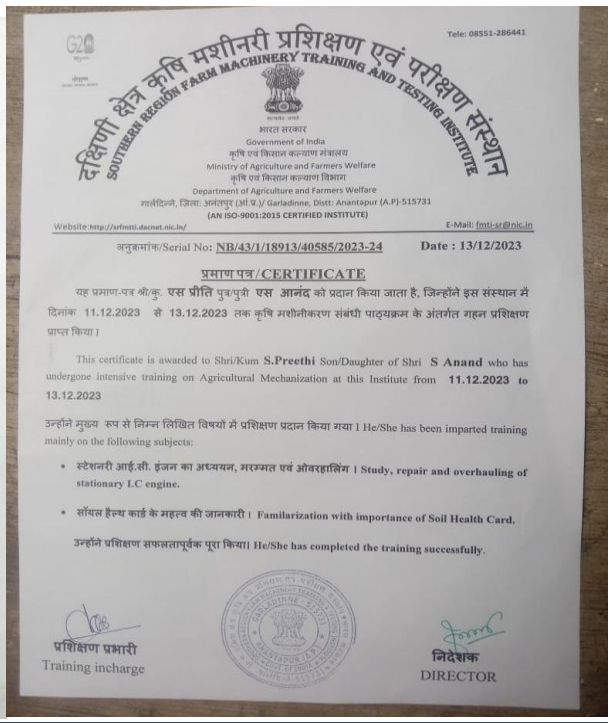
उन्होंने मुख्य रूप से निम्न लिखित विषयों में प्रशिक्षण प्रदान किया गया। He/She has been imparted training mainly on the following subjects:

- **स्टेशनरी आई.सी. इंजन का अध्ययन, मरम्मत एवं ओवरहालिंग। Study, repair and overhauling of stationary LC engine.**
- **सॉयल हैल्थ कार्ड के महत्व की जानकारी। Familarization with importance of Soil Health Card.**

उन्होंने प्रशिक्षण सफलतापूर्वक पूरा किया। He/She has completed the training successfully.

प्रशिक्षण प्रभारी
Training incharge

निदेशक
DIRECTOR



दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
SOUTHERN REGION FARM MACHINERY TRAINING AND TESTING INSTITUTE

Tele: 08551-286441

भारत सरकार
Government of India
कृषि एवं किसान कल्याण मंत्रालय
Ministry of Agriculture and Farmers Welfare
कृषि एवं किसान कल्याण विभाग
Department of Agriculture and Farmers Welfare
गार्लाडिन्ने, जिला: अनंतपुर (आं.प्र.)/ Garladinne, Distt: Anantapur (A.P)-515731
(AN ISO-9001:2015 CERTIFIED INSTITUTE)

Website:http://srfmtti.dacnet.nic.in/ E-Mail: fmti-sr@nic.in

अनुक्रमांक/Serial No: NB/43/1/18913/40585/2023-24 Date : 13/12/2023

प्रमाण पत्र/CERTIFICATE

यह प्रमाण-पत्र श्री/कु. **एस प्रीति** पुत्र/पुत्री **एस आनंद** को प्रदान किया जाता है, जिन्होंने इस संस्थान में दिनांक 11.12.2023 से 13.12.2023 तक कृषि मशीनीकरण संबंधी पाठ्यक्रम के अंतर्गत गहन प्रशिक्षण प्राप्त किया।

This certificate is awarded to Shri/Kum **S.Preethi** Son/Daughter of Shri **S Anand** who has undergone intensive training on Agricultural Mechanization at this Institute from **11.12.2023** to 13.12.2023

उन्होंने मुख्य रूप से निम्न लिखित विषयों में प्रशिक्षण प्रदान किया गया। He/She has been imparted training mainly on the following subjects:

- स्टेशनरी आई.सी. इंजन का अध्ययन, मरम्मत एवं ओवरहालिंग। Study, repair and overhauling of stationary I.C engine.
- सॉयल हैल्थ कार्ड के महत्व की जानकारी। Familarization with importance of Soil Health Card.

उन्होंने प्रशिक्षण सफलतापूर्वक पूरा किया। He/She has completed the training successfully.

प्रशिक्षण प्रभारी
Training incharge

निदेशक
DIRECTOR

HOD/ME

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

Event Conducted

Title of Event	**:**	Systematic Implementation of Analytical Tools in Industry and Institution
Date of Event Conducted	**:**	16.09.2023
Type of Event	**:**	Seminar

Description:

Seminar is conducted for IIIrd & IVth Year Mechanical Engineering students, to know about the present situation of core industries and the expectations from students. Mr. Dhanraj, Executive Trainer, Quality Circle Forum of India (QCFI), Tirupati, explained that how the tools were used systematically in the industries and which way the quality can be improved for a product. He also explained about the various tools involved to improve the quality in different industries and how should the students should learn these tools.

Objective of the Training Programme

Systematic implementation of analytical tools in industry and institutions involves assessing specific needs and objectives, collecting and integrating relevant data, selecting appropriate tools, and building analytical models. It also includes data governance, skill development, integration with business processes, monitoring, evaluation, and continuous improvement within the organization. This approach enhances students in decision-making, efficiency and overall performance, fostering a data-driven culture within organizations.

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

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.

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

PO9. Individual and team work: 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 analyse 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 : CATIA V5

Date of Event Conducted : 25.09.2023 to 30.09.2023

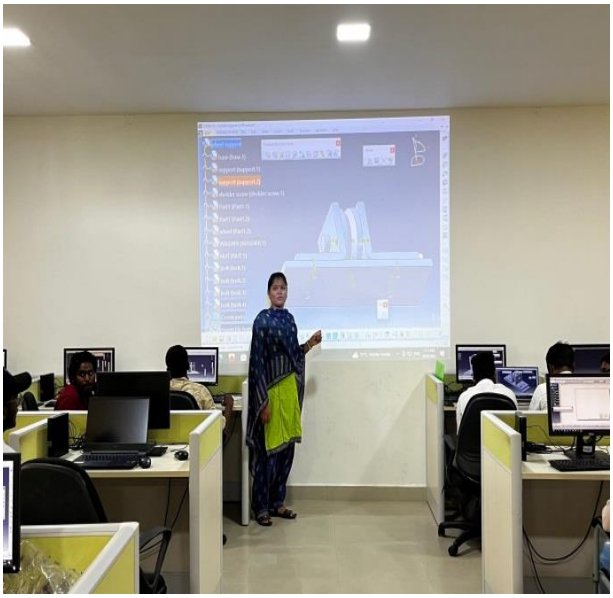
Type of Event : Workshop

Description:

A One Week (i.e 25.09.2023 to 30.09.2023) Workshop is conducted in Association with APSSDC for IIIrd Year Mechanical Engineering students about CATIA V5. Students thoroughly participated and gain knowledge like Introduction about CATIA V5, Sketching, Part Design, Assembly Design, Drafting etc. Students got value addition through this workshop and enhance the chances to get jobs like Design Engineer, R&D, Product Development etc.

Objectives of the Workshop

1. To impart fundamental knowledge about Catia V5 Sketcher, Part Design, Assembly Design, Drafting etc.
2. Explain the design concepts for various complicated parts.
3. Hands on practice various complicated shapes etc.



కెటియూ-వి5పై అవగాహన కల్పిస్తున్న దృశ్యం

ఎస్వీసిఈలో కెటియూ-వి5పై వర్క్‌షాప్

ప్రజాశక్తి-తిరుపతి(మంగళం): తిరుపతి-కరకంబాడీ మార్గంలోని శ్రీ వెంకటేశ్వర కాలేజ్ ఆఫ్ ఇంజినీరింగ్‌లో గత ఆరు రోజుల పాటు 'ఎస్వీసి ఈ-ఏపిఎస్ఎస్డిసి సంయుక్తంగా కెటియూ -వి5' అంశంపై కంప్యూ టర్ ప్రయోగశాలలో శిక్షణ ఇచ్చారని కళాశాల ప్రిన్సిపా ల్ డాక్టర్ ఎన్.సుధాకర్‌రెడ్డి తెలిపారు. ఈ వర్క్‌షాప్‌కు ఏపిఎస్ఎస్డిసి డీపాల్ట్ సిస్టమ్ శిక్షకులు జి.సుమోహనా హాజరై విద్యార్థులకు భవిష్యత్తులో కంప్యూటర్స్‌తో చేసే ప్రయోగాల వల్ల కలిగే ఉద్యోగ ఉపాధి అవకాశాలను వివరించారు. ప్రిన్సిపాల్ సుధాకర్‌రెడ్డి మాట్లాడుతూ ఇటువంటి వర్క్‌షాప్‌లను విద్యార్థులు చక్కగా సద్వినియోగం చేసుకొని కళాశాల ద్వారా నిర్వహించే క్యాంపస్ సెలక్షన్స్‌లో బహుళజాతి కంపెనీలలో ఉద్యోగాలు పొందే అవకాశం ఉందన్నారు. ఈ కార్యక్రమంలో విభాగాధిపతి డాక్టర్ ఎమ్ చంద్రశేఖర్ రెడ్డి, విభాగ అధ్యాపకులు కె.హర్షవర్ధన్ రెడ్డి, డి. అంజన్ కుమార్ రెడ్డి పాల్గొన్నారు.

వార్త

ఎస్వీసిఈలో ముగిసిన కెటియా వి5పై వర్క్‌షాప్

తిరుపతి(విద్య) సెప్టెంబర్ 30 ప్రభాతవార్త:

స్థానిక కరకంబాడి రోడ్డులోని శ్రీ వెంకటేశ్వర ఇంజనీరింగ్ కళాశా
నందు ఈనెల మెకానికల్ ఇంజనీరింగ్ విభాగంలో బిటెక్ మూడవ సం
విద్యార్థులకు ఈనెల 26 నుండి 6 రోజుల పాటు కెటియా వి5 అనే
అంశంపై ఎస్వీ ఇంజనీరింగ్ కాలేజ్-ఆంధ్రప్రదేశ్ స్టేట్ డెవలప్‌మెంట్
కార్పొరేషన్ సంయుక్తంగా నిర్వహించిన వర్క్‌షాప్ (శిక్షణ
తరగతులు)శనివారంతో ముగిసాయి.ఈ వర్క్‌షాప్‌కు ముఖ్య అతిథిగా ఎపిఎస్ఎస్డిసి డసాల్ట్ సిస్టమ్
శిక్షకుడు జి.సుమోహనా విచ్చేసి కెటియా వి అంశంపై విద్యార్థులకు కంప్యూటర్ ల్యాబ్ నందు శిక్షణ ఇచ్చి
మంచి అవగాహన కల్పించారు.అంతకు ముందు కార్యక్రమం ప్రారంభ ఉపన్యాసంలో భాగంగా కళాశాల
ప్రిన్సిపాల్ డా।ఎస్.సుధాకర్‌రెడ్డి మాట్లాడుతూ విద్యార్థులు అకడమిక్ సిలబస్‌కు అనుసంధానమైన
టువంటి కంప్యూటర్ పరిజ్ఞానాన్ని విద్యార్థి దశలోనే కలిగి ఉండాలి.తద్వారా బహుళజాతి సంస్థల్లో
క్యాంపస్ రిక్రూట్‌మెంట్ ద్వారా ఉద్యోగాలకు ఎంపిక కావడానికి పూర్తి స్థాయిలో అవకాశం ఉంటుంద
న్నారు.అనంతరం మెకానికల్ ఇంజనీరింగ్ విభాగాధిపతి డా।ఎం.చంద్రశేఖర్‌రెడ్డి మాట్లాడుతూ తమ
విభాగంలో విద్యార్థులకు అకడమిక్ సిలబస్‌తో పాటు,ఉద్యోగ అవకాశాలకు అవసరమైనటువంటి కంప్యూ
టర్ పరిజ్ఞానాన్ని వివిధ వర్క్‌షాపులు,కోర్సుల ద్వారా అందించడం జరుగుతోందన్నారు.ఈ శిక్షణ విభా
గపు అధ్యాపకులు కె.హర్షవర్ధన్‌రెడ్డి,డి.అంజన్‌కుమార్‌రెడ్డిపాల్గొని సమన్వయ కర్తలుగా వ్యవహరించారు.

Beneficiaries: III Year Students

Outcome attained through this program.

PO1: Engineering knowledge: Applying engineering knowledge in a workshop using CATIA V5, a popular computer-aided design (CAD) software, involves creating, modifying, and analyzing 3D models of various complex engineering components and systems.

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: CATIA V5 is a robust and versatile computer-aided design (CAD) software that can be used effectively in various modern workshop applications. To maximize its utility, you can integrate CATIA V5 with other modern tools and technologies like CAM, FEA, 3D Printing etc.

PO6: The Engineer & Society: Engineers using CATIA V5 can incorporate principles of sustainability into their designs. This includes reducing material waste, optimizing energy efficiency, and considering the environmental impact of products.

PO7: Environment & sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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

Event Conducted

Title of Event	**:**	PDE Application to lubrication inside a human knee joint
Date of Event Conducted	**:**	11.10.2023
Type of Event	**:**	Guest Lecture

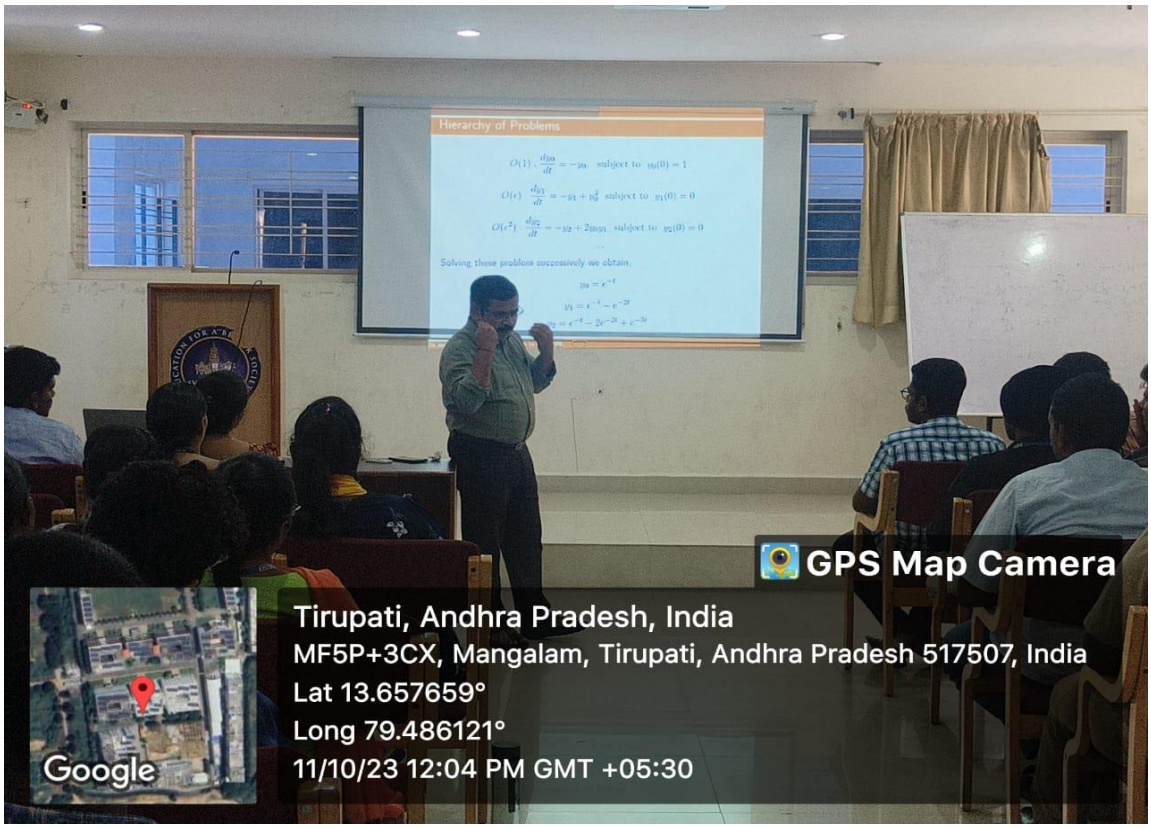
Description:

Guest lecture is conducted for IInd and IIIrd Year Mechanical Engineering students, to know about the usage of mathematics in the respective mechanical engineering fields. Dr. Rajasekhar, professor, department of mathematics, explained about partial differential equations usage in the field of medicinal applications like artificial lubrication process in human knee joints.

Objectives of the Training Programme

1. To impart the usage of mathematics in real time applications
2. Explain about Partial differential equations in the field of medicinal applications
3. To get collaborate with other technical fields.


On analytical, semi-analytical methods to solve PDEs and their applications
by
G.P. Raja Sekhar
Department of Mathematics
Indian Institute of Technology Kharagpur
Kharagpur - 721302, India
GPS Map Camera
Tirupati, Andhra Pradesh, India
MF5P+3CX, Mangalam, Tirupati, Andhra Pradesh 517507, India
Lat 13.657659°
Long 79.486121°
11/10/23 11:42 AM GMT +05:30
Google


Hierarchy of Problems
Solving these problem successively we obtain,
GPS Map Camera
Tirupati, Andhra Pradesh, India
MF5P+3CX, Mangalam, Tirupati, Andhra Pradesh 517507, India
Lat 13.657659°
Long 79.486121°
11/10/23 12:04 PM GMT +05:30
Google

Beneficiaries: II & III 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. 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

PO2: 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

PO3: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

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 analyse 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 : Entrepreneurship and innovation as a career opportunity

Date of Event Conducted : 14.10.2023

Type of Event : Workshop

Description:

ME Department in association with IIC-SVCE, NISP, IEEE PES and ISTE organized an expert talk on "**Entrepreneurship and innovation as a career opportunity** " was held on 14.10.2023. **Dr. P Subramanya Chari,** Professor & Head, MBA, SVCE**,** was the guest speaker

Objectives of the Workshop

The workshop aims to inspire and educate undergraduate engineering students about the exciting career opportunities in entrepreneurship and innovation, encouraging them to explore these paths.

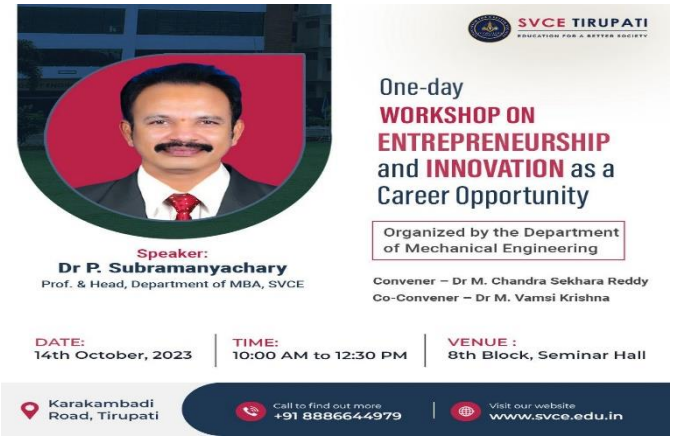
Session Details

1. Skills of Entrepreneur
2. Examples of well-known entrepreneurs.
3. Entrepreneurship in India
4. Career Opportunities through Entrepreneurship
5. Career Opportunities Mechanical Students
6. Innovation
7. Need and Characteristics and Stages
8. Innovators –Indian Born
9. Innovative Products in India
10. How to be innovative in the modern world
11. Career opportunities- Innovations

Outcome of the Event

By the end of the workshop, participants will gain a basic understanding of entrepreneurship and innovation concepts, helping them develop a mindset conducive to innovation and entrepreneurial thinking.

The workshop intends to foster a generation of engineering graduates who are better equipped to create innovative solutions, start their own ventures, and contribute to economic growth and job creation in the long run.



Beneficiaries: II & III Year Students

Outcome attained through this program.

PO6: The Engineer & Society: Engineers using CATIA V5 can incorporate principles of sustainability into their designs. This includes reducing material waste, optimizing energy efficiency, and considering the environmental impact of products.

PO7: Environment & 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.

PO9. Individual and team work: 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

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.

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

Event Conducted

Title of Event : Campus to Career

Date of Event Conducted : 14.10.2023

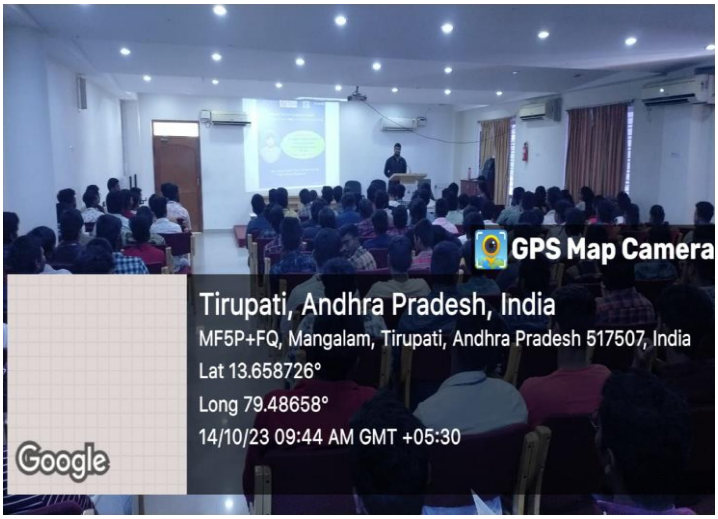
Type of Event : Seminar

Description:

Seminar is conducted for IInd and IIIrd Year Mechanical Engineering students, to know about the present situation of core industries and the expectations from students. Mr. Charan Shreyas Reddy, alumni of our department, presently working as Production Engineer in Daikin Industries Ltd., Sricity, explained the scenario of core industries and what they are expecting from outcoming students. He elaborately explained about the importance of Internships and Industrial visits, He also explained the importance of principles involved in various mechanical core fields.

Objectives of the Training Programme

1. To give awareness about core industries expectation from students
2. To create a good path to achieve a strong career
3. To get awareness on importance of skills in industries.



Beneficiaries: II & III Year Students

Outcome attained through this program.

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.

Environment and sustainability: Understand the impact of the professional engineering **PO7.** 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.

PO9. Individual and team work: 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.

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.

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

Faculty In Charge **(HoD/Mech)**

SRI VENKATESWARA COLLEGE OF ENGINEERING
KARAKAMBADI ROAD, TIRUPATI
DEPARTMENT OF MECHANICAL ENGINEERING

26-11-2022

Name of the Event: Training on "Additive Manufacturing (3D Printing)"

Date conduction: 15-11-2023 to 28-12-2023

Name of the Trainers : Dr K Jagath Narayana & Dr N Rajesh

Students Attended : III Year ME-SVCE & III Yr EEE, ECE SVEC students

Report

Training on **"Additive Manufacturing (3D Printing)"** is organised by the Department of Mechanical Engineering for one Day for III Year ME-SVCE & III Yr EEE, ECE SVEC students from 15-11-2023 to 28-12-2023.

The report summarizes completion of a 3D printing training course under PMKVY, highlighting acquired skills in 3D printing operations, CAD software, and material knowledge. Practical experience through hands-on projects was emphasized during training. As part of training, the students were also taken to IMTEX 2024, Bangalore for Industrial exposure and given on-job training at Sri Vigyan technologies to make them industry ready. The course contributed to personal growth and potential career opportunities for the students. 30 students were trained and 23 got certified by PMKVY certification exam.

Trainer- 1

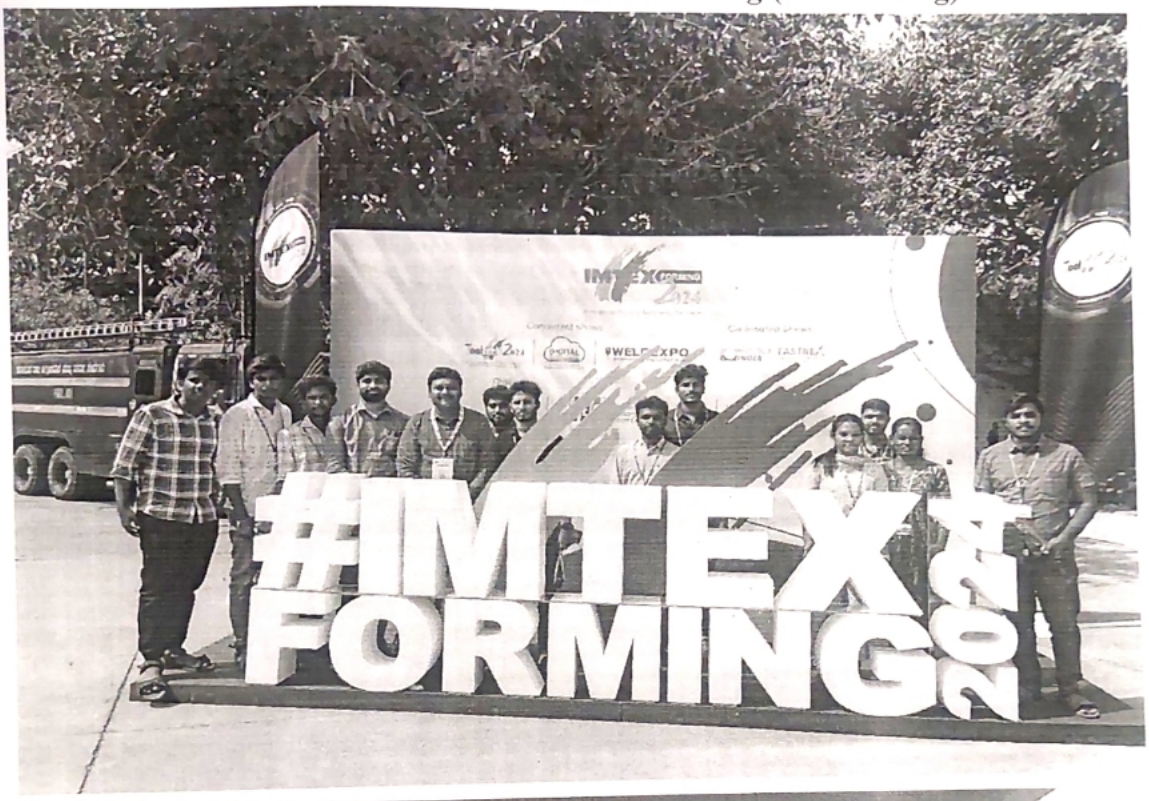
Trainer -2

SRI VENKATESWARA COLLEGE OF ENGINEERING

KARAKAMBADI ROAD, TIRUPATI

DEPARTMENT OF MECHANICAL ENGINEERING

Training on **"Additive Manufacturing (3D Printing)"**



Trainer- 1

Trainer -2

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

Event Conducted

Title of Event : Latest skills required for the industry from ME students

Date of Event Conducted : 30.04.2024

Type of Event : Seminar

Description:

Seminar is conducted for IInd and IIIrd Year Mechanical Engineering students, to know about the latest skills and skill updates required for an industry. **Mr K Ravikumar, Dean, Amara Raja Skill development Centre (ARSDC),** Tirupati explained about the facilities and skills teaching by them for the various rural side students at free of cost with free hospitality. He also explained the skills required to a person to join in Amara Raja private limited. They also provide internships or one year workshops to various industry employees who are all already working in the industry to upgrade their skills according to the latest technology.

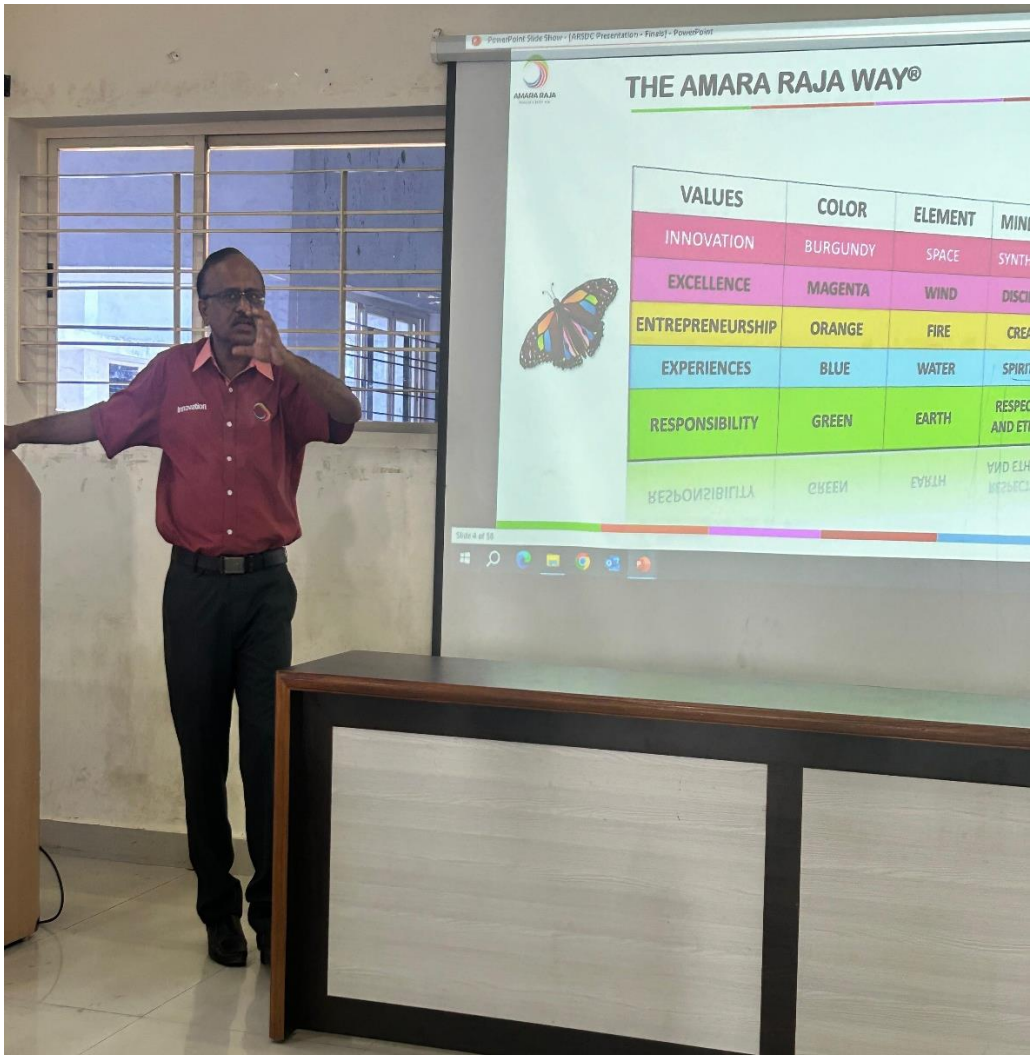
Objectives of the Training Programme

1. To create awareness on latest skills required to fit in an Industry
2. To explain skills, which are used in the industry locally
3. To upgrade the knowledge based on the latest requirement of an industry.


Learn Valuable Skills &
Kickstart Your Dream Career!
Latest Skills Required
For The Industry From
ME Students
Organised by Department of
Mechanical Engineering
GPS Map Camera
Tirupati, Andhra Pradesh, India
MF5P+3CX, Mangalam, Tirupati, Andhra Pradesh 517507, India
Lat 13.657529°
Long 79.486053°
30/04/24 11:35 AM GMT +05:30
Google


GPS Map Camera
Tirupati, Andhra Pradesh, India
MF5P+3CX, Mangalam, Tirupati, Andhra Pradesh 517507, India
Lat 13.657529°
Long 79.486053°
30/04/24 11:34 AM GMT +05:30
Google


GPS Map Camera
Tirupati, Andhra Pradesh, India
MF5P+3CX, Mangalam, Tirupati, Andhra Pradesh 517507, India
Lat 13.657653°
Long 79.485918°
30/04/24 11:32 AM GMT +05:30
Google


THE AMARA RAJA WAY®
VALUES
COLOR
ELEMENT
INNOVATION
BURGUNDY
SPACE
EXCELLENCE
MAGENTA
WIND
ENTREPRENEURSHIP
ORANGE
FIRE
EXPERIENCES
BLUE
WATER
RESPONSIBILITY
GREEN
EARTH

Beneficiaries: II & III 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. 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

PO4: 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.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

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.

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 analyse and apply the acquired Mechanical Engineering Knowledge for the sustainable growth of society and self.

Faculty In Charge **(HoD/Mech)**