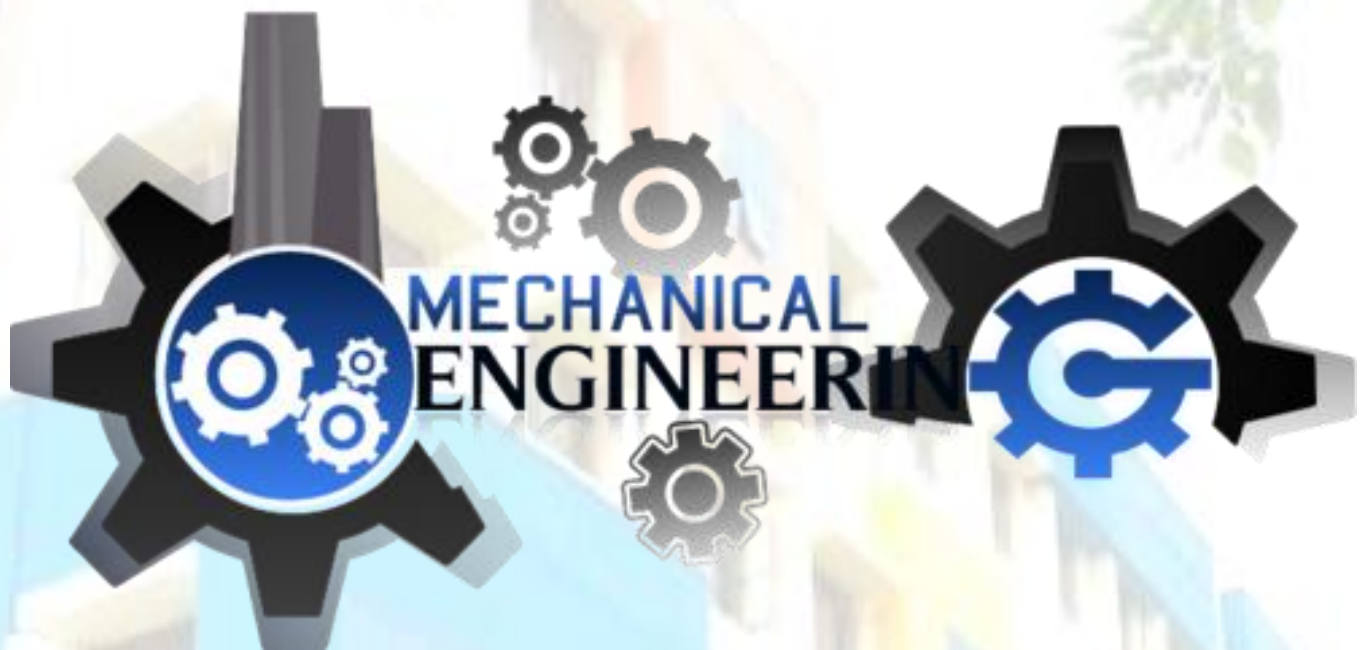




NEWS LETTER



DEPARTMENT OF MECHANICAL ENGINEERING (MECH)

ABOUT THE DEPARTMENT:

Department of Mechanical Engineering brings innovation in every aspect of activity and developing the students into superior graduates in order to meet industrial needs by adopt effective methods of teaching with highly qualified and experienced Faculty members and Technicians. Industrial oriented teaching and well equipped laboratories enable the students to achieve a goal in Mechanical Engineering Domain. Product development strategy and industry connectivity within the department explore a new path in the current trends.

VISION:

Our vision is to be a distinguished centre of excellence in Mechanical Engineering, fostering continuous learning, advanced skilling, and research collaboration, dedicated to advancing mechanical education and scientific exploration for societal betterment..

MISSION:

Enlightening students with effective pedagogies, hands-on practice and advanced skills.

Stimulating students' interest through add-on courses for better collaborative learning and employability.

Providing guidance on innovative research and leadership proficiency.

Nurture entrepreneurship, human values and ethics, team work along with social skills.



SRIET – MECH NEWSLETTER

Jan-June' 2023

Sri Ranganathar Institute of Engineering and Technology (SRIET) came into existence in 2011, out of an ardent desire of Dr. V. Narayanasamy to contribute manifold to the society that nurtured him. SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries.

SRIET's academic excellence is rooted in a student-centered model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrive as independent and innovative leaders and equipped with the tools they need to become the next generation of leaders in their respective fields.

- Journals Publication (National/International)
- Conference Presented (National/International)
- Books Publication
- Programmes Organized
- Seminar/Workshop Attended
- FED/STTP Attended
- Proposals submitted
- Extension Activity
- Interaction with outside world
- Student's Achievements



HOD'S MESSAGE

As we embark on another exciting semester here at SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE], I am filled with enthusiasm and optimism for what lies ahead in the realm of Mechanical Engineering. It is my privilege to address you as the Head of the Mechanical Engineering Department and share some thoughts as we navigate through the academic journey together.



Our department stands as a beacon of innovation, research, and excellence in the field of Mechanical Engineering. With a legacy of ground-breaking discoveries and a commitment to pushing the boundaries of knowledge, we continue to inspire and shape the future generation of engineers.

In the ever-evolving landscape of technology and industry, it is imperative that we stay at the forefront of advancements. Our curriculum is meticulously crafted to provide students with a comprehensive understanding of fundamental principles while also exposing them to cutting-edge developments. Through hands-on projects, collaborative research initiatives, and industry partnerships, we ensure that our students are equipped with the skills and knowledge necessary to thrive in a rapidly changing world.

Moreover, our esteemed faculty members, renowned for their expertise and dedication, play a pivotal role in nurturing talent and fostering a culture of academic excellence. Their passion for teaching and research not only enriches the learning experience but also inspires our students to dream big and achieve their fullest potential.

As we strive for academic excellence, let us also remember the importance of inclusivity and diversity within our department. Embracing different perspectives and backgrounds not only enriches our learning environment but also strengthens our ability to tackle complex challenges with creativity and innovation.

In the coming months, I encourage all members of our department to actively engage in research endeavors', academic collaborations, and extracurricular activities. Let us seize every opportunity to learn, grow, and make meaningful contributions to the field of Mechanical Engineering and beyond.

Together, we can continue to uphold the legacy of excellence that defines our department and empower the next generation of engineers to shape a brighter future.

Thank you for your unwavering commitment and dedication.

Warm regards,

Dr T M Chentil Jegan

Head of Mechanical Engineering Department (SRIET).



INSTITUTE VISION AND MISSION

Vision:

To be a unique Institution that enables students to become contributing Humans towards technology, business and sustainability of natural world.

Mission:

Our mission is to facilitate students with harmonious teaching and experiential learning by integrating industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbibing ethical values.

DEPARTMENT VISION AND MISSION

Vision:

Our vision is to be a distinguished centre of excellence in Mechanical Engineering, fostering continuous learning, advanced skilling, and research collaboration, dedicated to advancing mechanical education and scientific exploration for societal betterment.

Mission:

- Enlightening students with effective pedagogies, hands-on practice and advanced skills.
- Stimulating students' interest through add-on courses for better collaborative learning and employability.
- Providing guidance on innovative research and leadership proficiency.
- Nurture entrepreneurship, human values and ethics, team work along with social skills.



PEO, PO AND PSO

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- PEO1:** Lead a prosperous career in mechanical engineering and associated industries.
- PEO2:** Possess a deep proficiency in the areas of manufacturing, materials, thermal and design.
- PEO3:** Contribute to the advancement of technology through academic research and the practical application in industry.
- PEO4:** Exhibit their professional activities with effective communication, strong leadership, ethical principles, and a commitment to social responsibility.
- PEO5:** Graduates will stay abreast of advancing technologies through continuous, life-long learning.

PROGRAM OUTCOMES (PO)

Students graduating from Mechanical Engineering should be able to:

- PO1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and Mechanical engineering to the solution of complex engineering problems.
- PO2 Problem analysis:** Identify, formulate, research literature, and analyze complex mechanical engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design/ development of solutions:** Design solutions for complex mechanical 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:** Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems.
- PO5 Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling 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.

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

PROGRAM SPECIFIC OUTCOMES (PSO)

Graduates of Mechanical Engineering Programme should be able to:

PSO1: Identify, formulate and solve engineering problems in the core streams of Mechanical Engineering, i.e., Design, Thermal, Fluid and Manufacturing Engineering.

PSO2: Design, develop and test energy efficient systems for required engineering applications by representing engineering systems through 2D/3D Drawings.



CONTENT BEYOND THE SYLLABUS-GAP-ACTION TAKEN

- Content that extends the syllabus assists in bridging the gap between the curriculum and present engineering and technology trends. Faculties are encouraged to present at least one theoretical and practical topic on recent trends in each course that extends beyond the syllabus.
- Regular guest/expert lectures, industrial visits, and value-added courses on advanced Technologies are organized to address curriculum gaps.

S. No	Content Beyond Syllabus	Action Taken	Date	Resource person with designation	% of Students Present	Relevance to POs and PSOs
1.	Enhance Employability Skills.	“How to Plan for Start-up and Legal & Ethical Steps”	03.05.2023	Mr. G. Krishna Kumar, M.E., (Ph.D.), Managing Partner, Aadhibagavan Powder Coating, Coimbatore	84	PO1, PO2, PO6, PO7 and PO12
2.	Research	Workshop on “Design Thinking, Critical	10.02.2023	Prof.Ravi Subramaniam, Sri Ramakrishna Engineering College,	78	PO1, PO2, PO6, PO7 and PO12
3	Knowledge Addition	“Career Opportunities for NDT	26.04.2023	Mr. Dhatchanamoorthy, MEC, Coimbatore.	82	PO1, PO2, PO6, PO7 and PO12
4	Industrial Training	Industrial Visit	17.02.2023	Pasteur Institute of India, Coonoor.	85	PO1, PO2, PO6, PO7 and PO12
5	Knowledge Addition	“Recent Trends in Mechanical Engineering”	12.04.2023	Mr. S. Nagarjune, Chief Operating Officer, Coimbatore CAD Solutions Pvt. Limited	76	PO1, PO2, PO6, PO7 and PO12

ASSOCIATION AND INSTITUTION ACTIVITIES

Title of the Program : “How to Plan for Start-up and Legal & Ethical Steps”

Date and Venue :03.05.2023 / Seminar Hall – I

Chief Guest Details :

Mr. G. Krishna Kumar, M.E., (Ph.D.), Managing Partner, Aadhibagavan Powder Coating, Coimbatore

Number of Students Attended: 120



Title of the Program : “Career Opportunities for NDT”.

Date and Venue: 26.04.2023/ Seminar Hall – I

Chief Guest Details:

Mr. Dhatchanamoorthy, MEC, Coimbatore.

Number of Students Attended:137



Title of the Program : “Skill Development on Welding techniques”

Date and Venue: 19.04.2023/ Seminar Hall – I

Chief Guest Details :

Mr. Solomon, GeDee Welding Technologies, Coimbatore.

Number of Students Attended : 107





Title of the Program : “Recent Trends in Mechanical Engineering”

Date and Venue :
12.04.2023/ Seminar Hall – I

Chief Guest Details :
Mr. S. Nagarjune, Chief Operating Officer, Coimbatore CAD Solutions Pvt. Limited

Number of Students Attended:
107



Title of the Program :
“MECHMERIZE 2K23”

Date and Venue :
11.04.2023./ Seminar Hall – II

Chief Guest Details:
Dr. H. Ganesan, Principal, SRIET, Coimbatore Number of Students Attended : 52



Title of the Program : “Career Growth of Mechanical Engineers in Oil & Gas Industry”

Date and Venue :05.04.2023 / Seminar Hall – II

Chief Guest Details:
Mr. N. Saravanan, General Manager –MEC, Coimbatore Number of Students Attended:
125





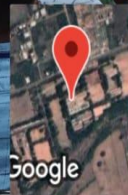
Title of the Program : “Industrial and domestic, Energy Auditing and Energy Conservation”

Date and Venu: 29.03.2023 / Seminar Hall – II

Chief Guest Details:

Mr. S. Sivakumar, External Faculty of PCRA, Madurai

Number of Students Attended: 126



Coimbatore, Tamil Nadu, India
INDUSTRIAL AND DOMESTIC ENERGY AUDITING AND ENERGY CONSERVATION, SEMINAR HALL -2, SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ATHIPALAYAM , COIMBATORE - 641110.
Lat 11.129029°
Long 76.986009°
29/03/23 09:33 AM GMT +05:30

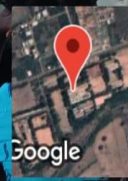
Title of the Program : “Choose Your Career Right Now in Industrial Automation”

Date and Venue: 23.03.2023 / Seminar Hall – II

Chief Guest Details:

Mr.M.Nagarajan., M.E., (Ph.D.), IIOT-Staff, Sharadha Skill Academy, Coimbatore.

Number of Students Attended: 122



Coimbatore, Tamil Nadu, India
CHOOSE YOUR CARRIER RIGHT NOW IN, MECH A -218, SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ATHIPALAYAM , COIMBATORE - 641110.
Lat 11.129029°
Long 76.986009°
23/03/23 12:31 PM GMT +05:30



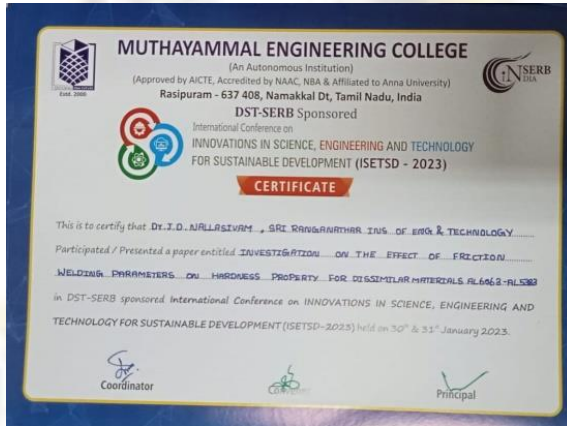
JOURNAL PUBLICATION DETAILS

- Dr. T.M. Chenthil Jegan ASP/Mech has published a journal paper, titled on “Impact of Covid -19 on Indian Rural Higher Educational Institutions” in the European Journal of Molecular & Clinical Medicine, ISSN 2515-8260, Volume 09, Issue 08, January, 2023 (Indexed by Scopus).





CONFERENCE PRESENTATION



- Dr. J. D. Nallasivam ASP/Mech and Mr. M. Natrayan AP/Mech have presented a paper, titled on “Investigation on the Effect of Friction Welding Parameters on Hardness Property for Dissimilar Materials AL6063-AL5383” in DST-SERB sponsored “International Conference on Innovation in Science, Engineering and Technology for Sustainable Development (ISETSD-2023)” organized by Muthayammal Engineering College , Namakkal on 30th & 31th January 2023.
- Dr. T. M. Chenthil Jegan ASP/Mech Presented a paper titled on “IOT Enabled Electrical Energy Management System” in “International Conference on Applications in Computational Engineering and Sciences” at Vellore Institute of Technology on 21&22 October 2022.





- Dr. J. D. Nallasivam ASP/Mech and Mr. M. Natrayan AP/Mech have presented a paper, titled on “Machining of Hybrid Aluminium Metal Matrix Composites: A Review” in the “International Conference on New Horizons in Science, Engineering, Management and Humanities” organized by SIMMC, SIBMT, PGDM and Institute for social Reforms and Higher Education Charitable Trust, Uttar Pradesh, India on 28th January 2023.



BOOK CHAPTER AND PATENT PUBLICATIONS



- Dr. J.D. Nallasivam published a Book chapter (Jan-2023) in Innovation of Multidisciplinary Research in Present and Future (Volume I) under the title “A Review of Lean and Green Manufacturing System”.


FACULTY ATTENDED FDP/STTP/WORKSHOP/CONFERENCE/SEMINAR

Sl. No.	Faculty Name	Title of the Conference / Seminar / Workshop / FDP/ STTP Attended	Date	Venue	Sponsoring Authority
1	Mr.A.Mohan, AP/Mech	Blooms Taxonomy in Teaching and Learning	16.02.2023	SanSnow's Nobel Professional Foundation	-
2	Mr. M. Mani	Product Design and Manufacturing 3D Surface Modeling	13.02.2023 to 17.02.2023	PSG Institute of Technology and Applied Research, Coimbatore	Tamilnadu Government (Naan Mudhalvan)
3	Mr. S. Aravinth	Smart and Advanced Manufacturing Design and Simulation	13.02.2023 to 17.02.2023	SNS College of Technology, Coimbatore	Tamilnadu Government (Naan Mudhalvan)
4	Dr.J.D. Nallasivam, Asso.Prof/Mech	Soft Skills	09.02.2023 to 11.02.2023	St.Paul Institute of Professional Studies, Indore(MP)	HERF, WFST & ARGA
5	Mr.A.Mohan, AP/Mech	Innovative Teaching Learning Practices	06.02.2023 to 10.02.2023	AJEENKYA DY Patil School of Engineering, Maharashtra	
6	Mr.A.Mohan, AP/Mech	Emerging Technologies for Education and Research	30.01.2023 to 01.02.2023	Sree Sakthi Engineering College, Karamadai, Coimbatore	-
7	Dr.J.D. Nallasivam, Asso.Prof/Mech	Research Opportunities and Futures of Additive Manufacturing Engineering	30.01.2023 to 03.02.2023	Sri Manakula Vinayagar Engineering College, Puducherry	-
8	Mr. A.R. Sivanesh	Research Opportunities and Futures of Additive Manufacturing Engineering	30.01.2023 to 03.02.2023	Sri Manakula Vinayagar Engineering College, Puducherry	



9	Mr. M. Natrayan	Research Opportunities and Futures of Additive Manufacturing Engineering	30.01.2023 to 03.02.2023	Sri Manakula Vinayagar Engineering College, Puducherry
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INTERACTIONS WITH OUTSIDE WORLD

- Dr. T.M. Chenthil Jegan ASP/Mech has given Technical Seminar on “Recent Trends in Automobiles”, at Sri Ranganathar Institute of Polytechnic College on 31.01.2023.



SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE
ATHIPALAYAM, COIMBATORE-641110

Department of Mechanical Engineering
'SPORTANZ'
Presents
Technical Seminar on
"Recent Trends in Automobiles"

Speaker
Dr. T.M. Chenthil Jegan
Associate Professor HOD in Mechanical Engineering Dept.,
Sri Ranganathar Institute of Engineering and Technology, CBE.

Date : 31.01.2023
Time : 10 - 11 AM
Venue : SRIPC Seminar Hall-1

Convenor : Mr. S. PRAKASH HOD / Mechanical
Co-ordinator : Mr. M. Sathyamoorthi Principal / SRIPC
Mr. R. ARUN KUMAR Lect., / Mechanical

+1800 123 2998, 74026 63999, 98424 69959 Athipalayam

Coimbatore, Tamil Nadu, India
Sri Ranganathar Institute of Polytechnic College
Nadu 641022, India
Lat: 11.27715°
Long 76.984475°
31/01/23 10:12 AM GMT +05:30

- Mr. D. Arivazhakan AP/Mech has participated as a chief guest and delivered a Presentation in one day workshop on “Engine Management System”, at Sri Ranganathar Institute of Polytechnic College on 03.02.2023.



SRI RANGANATHAR INSTITUTE OF POLYTECHNIC COLLEGE
ATHIPALAYAM, COIMBATORE-641110

DEPARTMENT OF AUTOMOBILE ENGINEERING
"AUTOBOATZ"
Presents
One Day Workshop on
'ENGINE MANAGEMENT SYSTEM'

FRIDAY 03 FEB 3-4 PM
VENUE : SEMINAR HALL-1

Chief Guest
Mr. D. Arivazhakan
Assistant Professor / Department of Mechanical Engineering
Sri Ranganathar Institute of Engineering & Technology, CBE.

CONVENOR : Mr. M. ANANDHABABU HOD / AUTO
COORDINATOR : Mr. C. KANNAN Lect., / AUTO
Mr. S.R. DURAIRAJU Lect., / AUTO

74026 63999, 98424 69959 www.sripc.edu.in Athipalayam



- Dr.J.D Nallasivam ASP/Mech has given Guest Lecture on “Content beyond Syllabus on Engineering Graphics and its Applications”, at Sri Ranganathar Institute of Polytechnic College on 06.02.2023.

DEPARTMENT OF MECHANICAL ENGINEERING
'SPARTANZ'
Organize
Contend Beyond Syllabus For First Year
TOPICS:
'Engineering Graphics and its Applications'

FEBRUARY 06, 2023 | 3.30 - 4.30PM

Convenor : **Mr. S. PRAKASH**
HOD / MECHANICAL

Co-ordinator : **Mr. S. SURESHKUMAR**
Lect., / MECHANICAL

Mr. M. SATHYAMOORTHY, Principal / SRIPC

DIPLOMA PROGRAMS : DME | DAE | DEEE
TO GET MORE INFO : DECE | DCSE | DCE

+1800 123 2998, 74026 63999, 98424 69959

SRI RANGANATHAR
INSTITUTE OF POLYTECHNIC COLLEGE
ATHIPALAYAM, COIMBATORE-641110

Chief Guest



Dr.J.D. Nallasivam M.E., Ph.D
Associate Professor, / Mechanical Engineering
Sri Ranganathar Institute of Engineering and Technology, CBE.

VENUE : SEMINAR HALL-I

www.sripc.edu.in

EXTENSION ACTIVITY

- Mr. M.Mani AP/Mech has received NPTEL Online Course Certification – “Properties of Materials (Nature and Properties of Materials: III)”, Indian Institute of Technology, Kanpur on Feb-April 2023 (8 week course).



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MANI M
for successfully completing the course

Properties of Materials (Nature and Properties of Materials : III)

with a consolidated score of **45** %

Online Assignments	11.92/25	Proctored Exam	32.63/75
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Total number of candidates certified in this course: **31**



Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)



Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23MM08S33392541

To validate the certificate



No. of credits recommended: 2 or 3



STUDENT'S ACHIEVEMENTS

- Samuel.S of third year as participated and won first prize in paper presentation in the National level technical symposium held at CSI College of Engineering, The Nilgiris on 06.05.2023.



- Vigneshwaran.M and Yaswanth.R of third year as participated and won second prize in paper presentation in the National level technical symposium held at CSI College of Engineering, The Nilgiris on 06.05.2023.





- K.Manikandan and Sibivanan of third year as participated in paper presentation in the National level technical symposium held at CSI College of Engineering, The Nilgiris on 06.05.2023.



- Arulpandi.S, Jothish.J, Sathish.R, Selvaganesh.A of third year as participated in paper presentation in the National level technical symposium held at CSI College of Engineering, The Nilgiris on 06.05.2023.



- Yogesh. M, Dev Ashwin. S, Dhandapani. K. R, Praveen. M of third year as participated in paper presentation in the National level technical symposium held at CSI College of Engineering, The Nilgiris on 06.05.2023.





INTERNSHIP/ INPLANT TRAINING ATTENDED

S. No.	Name of the Industry with contact details	Name of the Student	Duration	Nature of the activity
1	Adroit Dies and Moulds Pvt Ltd	Shayam SVishnu P	57 Days (02-02-2023 to 31-03-2023)	Internship
2	Premier Engineers and Traders, Sathirakudi emailtopremier@gmail.com	Ragul K Prasanna B	8 Days (18-01-2023 to 25-01-2023)	Inplant Training
3	Karthick Flow Control, Coimbatore. kkcovaio@gmail.com	Udayavel AVasanth S	6 Days (05-01-2023 to 10-01-2023)	Inplant Training
4	Modern Scale Industries, Coimbatore modernscale@yahoo.co.in	Karuppasamy CNagaraj K	5 Days (23-01-2023 to 27-01-2023)	Inplant Training
5	Karthick Flow Control, Coimbatore. kkcovaio@gmail.com	Abishek PMukesh M Raja R	36 Days (24-01-2023 to 01-03-2023)	Internship
6	Ragavendra Motors, Nagapattinam ragavendramotors@gmail.com	Surya S	8 Days (18-01-2023 to 25-01-2023)	Inplant Training



EDITORIAL BOARD

- Dr. T.M. Chenthil Jegan, Head and Associate Professor, Department of Mechanical Engineering, SRIET.
- Dr. J.D. Nallasivam, Associate Professor, Department of Mechanical Engineering, SRIET.
- Dr. S. Aravinth, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. D. Arivazhakan, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. A.R. Sivanesh, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. A. Mohan, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. M. Natrayan, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. S.M. Deivasikamani, Assistant Professor, Department of Mechanical Engineering, SRIET.
- Mr. M. Mani, Assistant Professor, Department of Mechanical Engineering, SRIET.

Student Co-ordinators:

- O. Hamilton Prasin, IV-MECH, SRIET.
- M. Gowtham, IV-MECH, SRIET.
- K. Manikandan, III-MECH, SRIET.
- S. Samuel, III-MECH, SRIET.
- S. Sajith, II-MECH, SRIET.

For queries, reach out to: nallasivam@sriet.ac.in

HOD/MECH

IQAC COORDINATOR

PRINCIPAL