



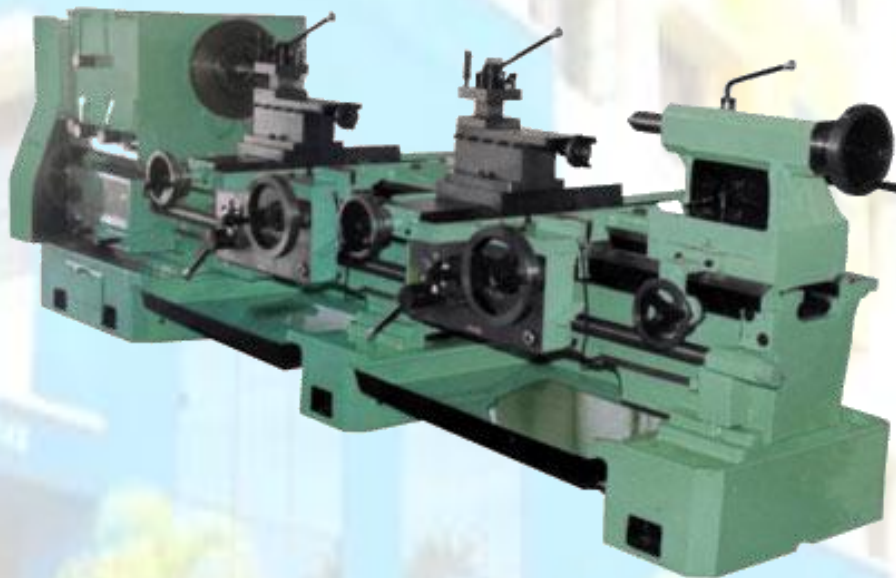
SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)
Athipalayam, Coimbatore - 641 110. Web site: www.sriet.ac.in Ph: 0422 2697792



ISO 9001:2015

NEWS LETTER

DEPARTMENT OF MECHANICAL ENGINEERING



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



July-Dec' 2021

SRIET Profile:

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.

LIST OF CONTENT:

- 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



Journal Publications:

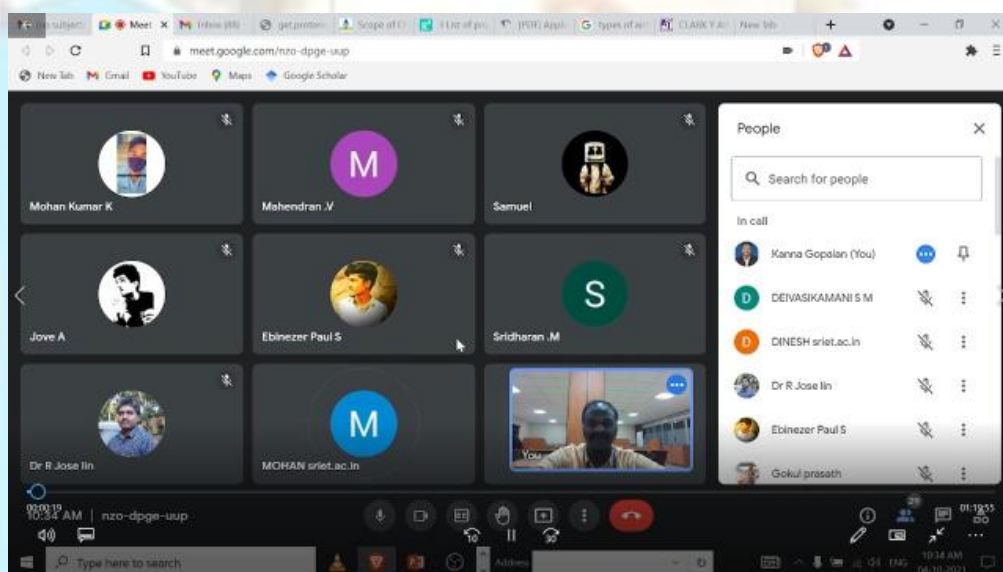
- Dr.Joselin R, HOD/Mech has presented a paper in an International conference NDE -2021 entitled “Non-Destructive Evaluation on Nano-composite Coating with Biopolymer as a Corrosion Inhibitor in Carbon Steel” organized by ISNT, Chennai from 09-12-2021 to 11-12-2021.
- Dr.R.Joselin, HOD/Mech, Dr.K.P.Arulshri, Principal, Sivarasu published a paper titled “Reduction of Energy Consumption Using Various Energy Conservation Process to Maintain the Green Environment” in the “Journal of Industrial Engineering and Its Applications”, Volume 6, 2021.
- Mr. A.R.Sivanesh AP/Mech, Mr. D. Arivazhagan AP/ Mech and Mr. R. Aravind Kumar AP/Mech published a paper titled “Evaluating the Mechanical Behaviour of Fused Deposition Modelling Parameters of Raster Angle and Layer Thickness Effects on As-Built and Annealed Polymer Associate Composites” in the “SAE International Journal”.

Programme Organized:

- S.M.Deivasikamani, AP/Mech has organized one day seminar on “Nano Electro Mechanical System” using a Resource person, Dr.N.Guruselvaraj, DGM-HR & IR Flow Link Systems (P) Ltd., Coimbatore on 20.12.2021.
- A.Mohan, AP/Mech has organized one day seminar on “Future of Geothermal Energy” using a Resource person, Mr.P.Sundarajan, Scientific Officer, Environmental Survey Laboratory (ESL) Kudankulam Nuclear Power Plant(KKNPP) Kudankulam, Radhapuram Tirunelveli on 16.12.2021.
- M.Natrayan, AP/Mech has organized one day seminar on “Digital Manufacturing” using a Resource person, Dr.S.Balakrishnan, Assistant Professor, Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli on 14.12.2021.
- Department of Mechanical Engineering organized “Inauguration of Mesa-2K21” Association function under the chief guest Dr.M.Balaji, Associate Professor – KCT, Coimbatore, delivered a lecture on “Continuous Improvement through KAIZEN” through Department Association on 10.12.2021.



- Mr. A. Mohan, AP/Mech, Organized a Seminar on “An Introduction to Computational Fluid Dynamics (CFD), using a Resource Person Mr. C. Kannagopalan M.E, Ph.D Research Scholar, SRM University, Chennai on 04.10.2021.



- Mr.D. Arivazhakan, AP/Mech, Mr. A.R. Sivanesh, AP/Mech have Organized a Seminar on “TIME -The Inherent Mindset of Engineers” using Resource Person Mr. Pon Rathnavel, CEO, Nicety Shelters and Solutions, Coimbatore on 15.09.2021.
- Mr. R. Dinesh, AP/Mech Organized a Seminar on “An Introduction to Additive Manufacturing” using Resource Person Dr. Sharatkumar Variyar, Associate Professor, Aerospace Engineering, Dayananada Sagar University, Bangalore, 20.09.2021.
- Department of Mechanical Engineering organized “Engineers Day Celebration 2021” on 15-09-2021, at Seminar hall in SRIET, Coimbatore.

**Seminar/Workshop Attended:**

- Mr.M.Natrayan AP/Mech, Mr. A. Mohan AP/Mech, Mr. A.R. Sivanesh AP/Mech, Mr. R. Aravind Kumar AP/Mech, Mr. D. Arivazhakan, AP/Mech and Mr. S.M. Deivasikamani, AP/Mech, have attended a seminar on “Additive Manufacturing: Present & Future Trends” at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, period from 01.11.2021 to 06.11.2021.
- Mr. M. Natrayan AP/Mech and Mr. A. Mohan AP/Mech participated seminar on “Learning through Virtual Labs for Technical Institutions” at Lendi Institute of Engineering and Technology, Vizianagaram Dist. Andhra Pradesh (Virtual Mode) during 18.10.2021 to 22.10.2021.
- Mr. A. Mohan AP/Mech, Mr. M. Natrayan and Mr.A.R.Sivanesh AP/Mech attended FDP on “Advancements in Refrigeration and Air Conditioning” at Sardar Vallabhbhai Patel Institute of Technology during 25.10.2021 to 29.10.2021.
- Mr. M. Natrayan, AP/Mech attended FDP on “Advanced Manufacturing Technology” at SRM Institute of Science and Technology, Chennai, (Online Mode) from 13.09.2021 to 18.09.2021.
- Mr.M.Natrayan AP/Mech, Mr.D. Arivazhakan, AP/Mech, Mr. S.M. Deivasikamani, AP/Mech, Mr. A. Mohan, AP/Mech, Mr. A.R. Sivanesh, AP/Mech, attended workshop on “Vibration and Condition Monitoring” at Vasavi College of Engineering from 20.09.2021 to 24.09.2021.
- Mr. A.R. Sivanesh AP/Mech has attended a Seminar on “Development of Governing Equations of Fluid Flow” at KPR Institute of Engineering and Technology through Online Mode during 02.08.2021 to 03.08.2021.
- Mr. M. Natrayan AP/Mech has attended a Seminar on “Recent Trends in Materials and Manufacturing” at Karpagam College of Engineering through Online Mode, from 02.08.2021 to 06.08.2021.



- Mr. R. Aravind Kumar AP/Mech and Mr. A.R. Sivanesh AP/Mech has attended a Seminar on “Advancing towards Sustainable Teaching and Learning Pedagogy” at Kongu Arts and Science College through Online Mode during the period from 02.08.2021 to 06.08.2021.
- Mr. M. Natrayan AP/Mech, Mr. R. Aravind Kumar, AP/Mech and Mr. A.R. Sivanesh AP/Mech has attended a Seminar on “Experimental Teaching –Corporate Cognizance” at Sri Ramakrishna College of Arts and Science through Virtual Mode during the period from 09.08.2021 to 13.08.2021.
- Mr. A. Mohan AP/Mech has attended a Seminar on “Entrepreneurship Opportunities in Solar Systems” at Francis Xavier Engineering College through Online Mode on 12.08.2021.
- Mr. M. Natrayan AP/Mech has attended a Seminar on “Manufacturing Process” at Sri Sairam Engineering College through Online Mode during 12.08.2021 to 19.08.2021.
- Mr. S.M. Deivasikamani AP/Mech Mr. A. Mohan AP/Mech Mr. A.R. Sivanesh AP/Mech Mr. R. Aravind Kumar AP/Mech Mr. D. Arivazhakan AP/Mech has attended a Seminar on “Emergency Technologies in Automotive Industry” at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology through Online Mode, Period from 16.08.2021 to 20.08.2021.
- Mr. R. Aravind Kumar AP/Mech and Mr. A.R. Sivanesh AP/Mech has attended a Seminar on “Intellectual Property Rights Azad” at Mahavidyalaya, Ausa through Virtual Mode on 21.08.2021.

**Interaction with Outside World:**

- MOU Signed with TUV Rhineland NIFE Academy PVT.LTD, Coimbatore on 25-11-2021.



- Dr. R. Joselin, Prof. and Head/Mech Presented Guest Lecture titled on “Design of Pressure Vessels” at Sri Ranganathar Polytechnic College on 01.10.2021.
- MOU Signed with Skilldzire Technologies Private Limited, Hyderabad on 27-10-2021.
- Dr. R. Joselin Presented a Guest Lecture titled on “Introduction to NDT” at Sri Ranganathar Institute of Polytechnic College on 24.09.2021.
- Dr. R. Joselin Presented a Guest Lecture titled on “Personnel Management & Organizational Behaviour in Industry” at Sri Ranganathar Institute of Polytechnic College between 29 & 30 Sep, 2021. Mechani

**Extension Activity-R & D Cell:**

- Dr. R.Joselin, Prof.&Head has presented in detail about various Funding Agencies in a Research Committee meeting. His proposal of DST – DIIS Joint Research Project for 2021-2024 has accepted by an Australian Professor in the area of “Acoustic Emission Technique”.
- Mr. A.R.Sivanesh AP/Mech has provisionally registered his Ph.D., Programme.

Student Achievement:

- Mechanical Engineering Students Mr. Dinesh Mohan and Mr. A. Lino James Wilson got placement orders from CATERPILLAR and “Tata Consultancy Services Ltd” Company respectively.



- Second Year Students of Mechanical Engineering has visited in “Asian Automation Company”, Ganapathy, Coimbatore on 24.11.2021.
- P.U. Jishnu, Final Year Student has attended one month internship program in Micro Matic, Coimbatore from 30-08-2021.



APTERA CAR

The Aptera car is a combination of **electric and solar energy**. Aptera vehicles are designed with artificial intelligence and a composite body. Apart from the efficient performance and world-class standard body, Aptera seeks to make driving fun again for car lovers.



ELECTRIC DI-WHEEL VEHICLE

This experimental vehicle consists of two giant wheels on either side of the driver in a seat. The frame rolls on a rail inside the wheels so it always stays upright. The whole vehicle is driven by two e-powered inner wheels spinning the larger wheels.