



SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)
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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

Jan'-June 2022

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 Publication Details

- Mr. D. Arivazhakan, AP/Mech, Mr. A.R. Sivanesh AP/Mech, Mr. R. Aravind Kumar have published a journal paper on “Investigation on mechanical behavior of compression molded mesquite bio filler reinforced hybrid composites” in the AIP Conference Proceedings (Scopus) with impact factor 0.4, June 2022.

Conference (International/National Level) Paper presentation Detail:

- Mr. A.R. Sivanesh, AP/Mech, Mr. D. Arivazhakan, AP/Mech has presented a paper on “Investigation on the Mechanical Behavior of PAB with Glass Fiber Associated Composites Fabricated Through Fused Deposition Modeling Process” in Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15/06/2022 &.16.06.2022.
- Mr. A.R. Sivanesh, AP/Mech, Mr. D. Arivazhakan, AP/Mech has presented a paper on “Enhancing the Tribology Behavior of PP-CF Composites by Varying Infill Pattern Parameter by Using FDM Process” in Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15/06/2022 &.16.06.2022.
- Mr. R. Aravind Kumar, AP/Mech has presented a paper on “Dry Sliding Wear Performance of Carbon Polymer Composite Reinforced with Bio Degradable Chitosan Nano Particles” in Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15/06/2022 &.16.06.2022.
- Mr. R. Aravind Kumar, AP/Mech and Mr. M. Chandru, AP/Mech have presented a paper on “Experimental Investigation on the Mechanical Properties of Prosopis Juliflora Bark Fiber / Carbon Fabric Hybrid Polymeric Composite” in Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15/06/2022 &.16.06.2022.



- Mr. R. Aravind Kumar, AP/Mech has presented a paper on “Mechanical Performance Studies on Vetiveria Zianiodies / Jute / Glass Fiber Reinforced Hybrid Polymeric Composite” in Emerging Trends in Engineering Design and Manufacturing conducted by Hindustan Institute of Technology, Coimbatore on 15/06/2022 &.16.06.2022.
- Mr. D. Arivazhakan, AP/Mech, has presented a paper on “Environmental Efficient Freight Transport“ conducted by Sree Sakthi Engineering College, Coimbatoren 27/05/2022 &.28.05.2022.

Program Organized:

- Dr. R. Joselin, HOD/Mech has organized a “Workshop on Robotics” using a resource person Mr. Dinesh, RoboRAM Education, Coimbatore on 13.05.2022.
- Dr. R. Joselin, HOD/Mech, Mr. D. Arivazhakan AP/Mech have organized a Inauguration of IPR Cell and Awareness of Seminar on “ Patent Drafting and Filing” using a resource person Mr. N. Nagarajan, Technical Director, NSKD Techno Research and Innovation Solution on 31.05.2022.
- Dr.J.D.Nallasivam AP/Mech has organized one day seminar on “New Trends in Automobile Design” using a Resource person, Mr. Johnson Jayakumar, Senior Lecturer – Welding & Painting, TWI – Training & Certificate (India) Pvt. Ltd. Nandanam, Chennai on 04.04.2022.
- A.Mohan AP/Mech has organized one day seminar on “Heat Transfer through Nano Fluids” using a Resource person, Dr.Balamurugan, Assistant Professor, Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore on 16.03.2022.
- R.Aravind Kumar, AP/Mech has organized one day seminar on “Hybrid Motorcycles Hybrid Synergy Drive (HSD)” using a Resource person, Dr.M.Ramu, Associate Professor, Mechanical Engineering, Amrita School of Engineering, AmritaVishwa Vidyapeetham, and Coimbatore on 02.03.2022.
- R.Aravind Kumar, AP/Mech has organized one day seminar on “Hybrid Motorcycles Hybrid Synergy Drive (HSD)” using a Resource person, Dr.M.Ramu, Associate Professor, Mechanical Engineering, Amrita School of Engineering, AmritaVishwa Vidyapeetham, and Coimbatore on 02.03.2022.



- A.R.Sivanesh, AP/Mech has organized one day seminar on “Robots in Radioactive Environments” using a Resource person Dr.P.Karthikeyan, BOYSCAST Fellow, Professor in Automobile Engineering, PSG College of Technology, Coimbatore on 24.02.22.
- M.Natrayan, AP/Mech has organized one day seminar on “Advanced Materials in Automobiles Application” using a Resource person, Dr.S.Periyasamy, Assistant Professor (SG), Mechanical Engineering, Government College of Technology, Coimbatore on 17.02.2022.

Seminar/Workshop Attended:

- Mr. A.R. Sivanesh AP/Mech has attended FDP on “Research Methodology”, Organized by Annai Vaillankanni College of Engineering on 20.06.2022.
- Mr. A.R. Sivanesh AP/Mech and Mr. A. Mohan AP/Mech has attended FDP on “Research Methodology”, Organised by SRM Institute of Science and Technology, Chennai from 06.06.2022 to 21.06.2022.
- Mr. D. Arivazhakan Mr. M. Natrayan, AP/Mech Mr. A.R. Sivanesh AP/Mech and Mr. A. Mohan AP/Mech has attended FDP on “Envisioning Pathways in Thermal Sciences”, Organised by SRM Institute of Science and Technology, Ramapuram Camus, Chennai from 23.05.2022 to 28.05.2022.
- Mr. M. Natrayan, AP/Mech Mr. A.R. Sivanesh AP/Mech and Mr. D. Arivazhakan AP/Mech has attended FDP on “New Techniques in the Field of Engineering”, Organised by Anand International College of Engineering, Jaipur (Online) from 08.02.2022 to 12.02.2022.
- Mr. M. Natrayan, AP/Mech, has attended AICTE sponsored FDP on “Outcome Based Education (OBE) and NBA Accreditation”, conducted by Francis Xavier Engineering College, Tirunelveli (Online) from 03.01.2022 to 08.01.2022.
- Mr. M. Natrayan, AP/Mech has attended workshop on “Post Covid Green and Sustainable Development Practices in Manufacturing Industries” conducted by CVR College of Engineering, Telangana (Online) from 17.01.2022 to 21.01.2022.

**Proposals submitted:**

- Dr. Joselin, Prof.& HOD has submitted a proposal through TNSCST entitled “Design and Fabrication of Washroom Basin Cleaner” which is accepted and received a grand of Rs 7500/-.

Interaction with outside world:

- Mr. Arivazhakan AP/MECH, participated as a resource person and delivered a guest lecture on “Importance of Higher Studies” conducted by industrial interaction cell (IIC), Sri Ranganathar Institute of Polytechnic College on 15.03.2022.

Student’s Achievements:

- M. Prem Mahaveer, V. Naveen, U. Sanjith, C. Padayappa, S. Navaneethakrishnan, R Dinesh, K. Dinesh kumar, S. Gunasekaran, R. Chandrasekar, M. Badrinath, S. Manoj and B. Abinesh, Students of SRIET has attended two days’ Workshop on “Emerging Trends in Engineering Design and Manufacturing” organized by Hindustan Institute of Technology, Coimbatore and Sponsored by Indian Society for Technical Education (ISTE) from 15.06.2022 to 16.06.2022.
- G. Palpandi, L. Sanjay, R. Sridharan, Students of SRIET has attended one day seminar on “Recent Advances in Electrical Electronics Computer and Communication Technologies” conducted by JP Engineering College, Tirunelveli on 28.05.2022.
- M Mukesh, R Raja, K Mohan Kumar, G Samuel, II-MECH of SRIET have participated in One Day National Level Technical Symposium conducted by Sree Sakthi Engineering College, Karamadai, Coimbatore on 20.05.2022.
- K R Dhandapani, II-MECH of SRIET has participated in One Day National Level Technical Symposium - CAD Modelling conducted by Sree Sakthi Engineering College, Karamadai, Coimbatore on 20.05.2022.



- K R Dhandapani, G Saravankumar, K Jagadeesh, R Divin II-MECH of SRIET have participated and won First Prize in One Day National Level Technical Symposium – Mr. Mechanic conducted by Sree Sakthi Engineering College, Karamadai, Coimbatore on 20.05.2022.
- S Udhayaguru, II-MECH of SRIET has participated in One day National Workshop on “Insights of FEA” conducted by Rathinam Technical Campus, Coimbatore on 05.05.2022.
- Mr. Dinesh has got offer for internship programme in Lesoko Technologies Pvt Limited and he is appointed as “Junior UAV Pilot” on 16.03.2022.
- Mr. M. Vigneswaran, II- B.E (MECH) from SRIET, Coimbatore has successfully completed Internship Programme in Arun Motors, at Virudhunagar from 10.01.2022 to 21.01.2022.



CHANDRAYAAN-2

Chandrayaan-2 mission is a highly complex mission, which represents a significant technological leap compared to the previous missions of ISRO, which brought together an Orbiter, Lander and Rover with the goal of exploring South Pole of the Moon. This is a unique mission which aims at studying not just one area of the Moon but all the areas combining the exosphere, the surface as well as the sub-surface of the moon in a single mission.