



RESONANCE Newsletter

Vol.: 05 | Issue: 01 | June 2023

For private circulation only

DEPARTMENT OF MECHANICAL ENGINEERING



Innovation Weekend INDIA

PES UNIVERSITY, BENGALURU



Highlights

Rs. 2.5 Crore, Center of Excellence for Electronics Cooling and CFD Simulation Lab was established.

Page 05

Performance-based scholarship worth Rs.13,91,400 was given to twenty-eight students.

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A total of 187 offers were received during the campus placement cycle with the highest package of 29 LPA.

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Received a sum of Rs. 41,80,363/- as fund for research projects and organizing events from various funding agencies.

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1. About the Department

The Department of Mechanical Engineering, established in 1985, is one of the pioneering departments of SRM IST. The present faculty strength is 110 of which 64 are with PhD and the rest are on the verge of completion. More than 1200+ research papers have been published in leading international journals with high impact factor and more than 1000 papers have been presented in international conferences. The department is functionally divided into three broad areas of specialization: (i) Design (ii) Manufacturing and (iii) Thermal. The department also offers Doctoral programs in these three areas of specializations. The National Board of Accreditation has accredited the Mechanical Engineering programme for six years from the year 2021 to 2027. The B.Tech. – Mechanical Engineering program at Kattankulathur campus is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>.

The department offers Semester Abroad Program for our UG students in which they will be given the opportunity of a lifetime to spend a semester at some of the best universities in the world such as – Carnegie Mellon, Northeastern University, SUNNY Buffalo, University of Wisconsin, UC Berkeley, George Mason, New Hampshire, Lille Catholic University, University of Western Australia, Western Ontario, Queen's University and many others.

2. Department Vision

To enhance learning and research skills in mechanical engineering and allied fields to accomplish crest positions in world-renowned organizations.

3. Department Mission

- To impart quality education to produce eminent mechanical engineers.
- To establish Centers of Research Excellence to inculcate research acumen to faculty and students on the emerging thrust areas of mechanical engineering.
- To inculcate progressive education and intricate facts through cognitive training programs to the faculty and students using state-of-art facilities.

4. Department Recognition

The National Board of Accreditation had accredited the B. Tech - Mechanical Engineering program for six years from the year 2021 to 2027. The B.Tech. - Mechanical Engineering program at Kattankulathur campus is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>.

5. Message from the Dean, College of Engineering and Technology



Dr. T. V. Gopal

Professor & Dean CET

Dear Friends,

It gives me immense pleasure in releasing the newsletter Resonance Vol 5 Issue 1 of the Department of Mechanical Engineering. This newsletter is a good compilation showcasing all the happenings of the last semester. A glance at the statistics reveals that the students of Mechanical engineering have done well in placement, academics, and co-curricular activities with the able mentoring of the faculty members. I look forward to seeing the student's performance in sports, social outreach, and other cultural activities too, in future editions.

I am aware that it takes great effort and time to keep providing meaningful and valuable information through the newsletters semester on semester. Sustaining the interest of the readers is very critical and I strongly believe that the Department of Mechanical Engineering is achieving this in its own imitable style. My congratulations and best wishes to the entire editorial team in bringing out this newsletter in a well-structured manner.

Keep up the good work.

- Dr. T.V. Gopal

6. Message from the Chairperson, School of Mechanical Engineering

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Dr. D. Kingsly Jeba Singh
Professor & Chairperson, SME

I am happy to note that the next newsletter of the Department of Mechanical Engineering is ready to roll out.

The students and faculty of the department have completed the academic year 2022-23 with many noteworthy achievements (after Covid-19) and are venturing into the new academic year 2023-24. All courses are taught with the help of Learning Management Systems (LMS). In the last six months, the Department of Mechanical Engineering has organized many workshops with hands-on session in the upcoming areas. I hope this effort will definitely enrich our environment with academic rigour and holistic approach required to teach the students of 21st century.

In this digital era, the areas of Mechanical Engineering plays a significant role in shaping modern society. A few examples are Infrastructure development, Energy generation, Industry 4.0, Transportation, Robotics, Health care, Biomedical devices, inter-disciplinary studies, Disaster mitigation and Environmental sustainability. The faculty members have taken many initiatives to inculcate the knowledge and knowhow to the young minds. Industry sponsored laboratories and industry grade machineries available in the department make it easy for the students to get training and do laboratory exercises in industry-like environment.

In the coming years, with our research focussed faculty members, the department will continue to carry out activities with direct social impact and promote translational research. I wish all the best for the academic, research and developmental activities in the department to achieve greater heights.

Your comments and suggestions are welcome to improve our academic journey.

Warm regards,

- Dr. D. Kingsly Jeba Singh

7. Message from the HOD



Dr. M. Cheralathan

Professor & Head

"Alone we can do so little; together we can do so much"

- Helen Keller

The Department of Mechanical Engineering feels the enthusiasm to publish the first issue of the 5th volume of department newsletter 'Resonance', enumerating the various activities and achievements of the faculty and students. The department provides a top-notch learning environment with a group of highly competent faculty members to encourage the students to advance in their technical knowledge and foster team spirit among them. The Department has a team of well-experienced and motivated academicians whose expertise spans the range of disciplines in Mechanical Engineering. I am confident that our students will emerge as assets not only to the institution and the organization they join but also to the society at large. On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape. Also, I invite the readers of 'Resonance' to share their suggestions for improvement in the forthcoming issues.

- Dr. M. Cheralathan

8. New centres and Student's competitions

Center of excellence for electronics cooling and Computational Fluid Dynamics (CFD) Simulation Lab inaugurated at SRMIST

A Center of Excellence for Electronics Cooling and Computational Fluid Dynamics Simulation Lab (COEEC & CFD Sim Lab) at a cost of ₹2.5 Crores was started by the Department of Mechanical Engineering at SRM Institute of Science and Technology in Kattankulathur on April 19, 2023. **Dr. P. Sathyanarayanan, Pro-Chancellor (Academics)**, inaugurated the facility, which aims at helping with skill training for students, research and development, and for professional and open electives as well as a two-year full-time specialization in electronics cooling. The Department of Mechanical Engineering will maintain the facility, with support from Intel Corporation, U.S. Faculties, and students from science, all engineering, and technology disciplines are involved. This lab provides 24x7 access for the students and faculties.

Workstations available: The lab is equipped with 30 workstations (128GB RAM, Dual Processor, 8GB Graphics card, built-in WiFi, and 27-inch full HD monitor).

Software available: Ansys Workbench; COMSOL Multiphysics; Pro Engineer; Fusion 360; nTopology.



Dr. Prabhakar Subrahmanyam is a Staff Scientist at **Intel Corporation**, where he specializes in Thermal Research and Cooling techniques for a range of Microprocessors & GPUs, including Client, Desktop, Xeon servers, HPC, and Graphics ecosystems. He is a graduate of Stanford University in Aerospace Engineering specializing in re-entry heat transfer of planetary entry probes/vehicles. At Intel, he works on latest



**Dr. P. Sathyanarayanan, Pro-Chancellor (Academics) felicitating
Dr. Prabhakar Subrahmanyam, Scientist at Intel Corporation**



Dr. P. Sathyanarayanan, Pro-Chancellor (Academics) interacting with the students

processors and devices. With over 50 publications and 30 patents to his name, Dr. Prabhakar is an experienced and a pioneering technologist who is particularly renowned for his expertise in Jet Impingement techniques for Electronic Cooling applications, having invented, developed, and deployed numerous innovative designs at Intel labs. He is also active in various conference committees, serving as a sessions chair and reviewer for IEEE Transactions of Components Packaging and Manufacturing Technology and ASME Transactions of Journal of Electronic Packaging. Currently, he is the Chief Thermal Architect for the latest graphical processing units (GPU) at Intel. In this role, he leads the path finding research and drives innovation in cooling methods and improves the packaging photolithography process at the node level for all processors in the ecosystem. His contributions have been instrumental in advancing the field of thermal management for microprocessors/GPUs, and he continues to be a key player in this space.

The center operates with the following objectives:

- Skill training to the faculty and students of SRMIST in the area of electronics cooling
- Training the students for a high salary package (1 - 3 crore per annum) by an industrial expert
- Research and development in the area of electronics cooling in collaboration with the industry
- Offering capstone program, professional elective, and an open elective in electronic cooling for B.Tech., MTech, and Ph.D. students
- Setting up of hardware testing lab for electronic cooling at SRMIST in collaboration with Intel Corporation

Activities carried out.

- Trained 30 faculties from different disciplines in October 2022 and Weekly interaction with Industrial expert since October 2022 [Dr. Prabhakar Subrahmanyam](#).
- Trained 30 students from different disciplines in April 2022 by Dr. Prabhakar Subrahmanyam.
- The Center trained 140 students from different disciplines through the Professional elective, Open elective courses, Major projects, and Ph.D. research scholars.

எஸ்.ஆர்.எம். அறிவியல் தொழில்நுட்ப நிறுவனத்தில் ரூ.2.5 கோடியில் உயர்மிகு மின்னணு குளிர்வித்தல் ஆய்வகம் இணைவேந்தர் சத்தியநாராயணன் துவக்கி வைத்தார்

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கழகத்தில் அமெரிக்காவின்
இன்டெல் கார்பொரேஷன்
நிறுவனத்தின் துணையுடன் 2
கோடியே 50 லட்சம் ரூபாய்
செலவில் அமைக்கப்பட்டுள்ள
உயர்மிகு மின்னணு குளிர்வித்தல்
ஆய்வகம் துவக்கி வைக்கப்பட்டது.



SUNDAY 23-4-2023



SRM Institute of Science and Technology Pro Chancellor P. Sathyanarayana inaugurated hi tech lab at a cost of Rs. 2.5 lakh with 30 computers installed at SRM in association with US Intel Corporation in the presence of Senior Engineer Prabhakar Subrahmanyam. SRM Vice Chancellor C. Muthamizhselvan. Registrar

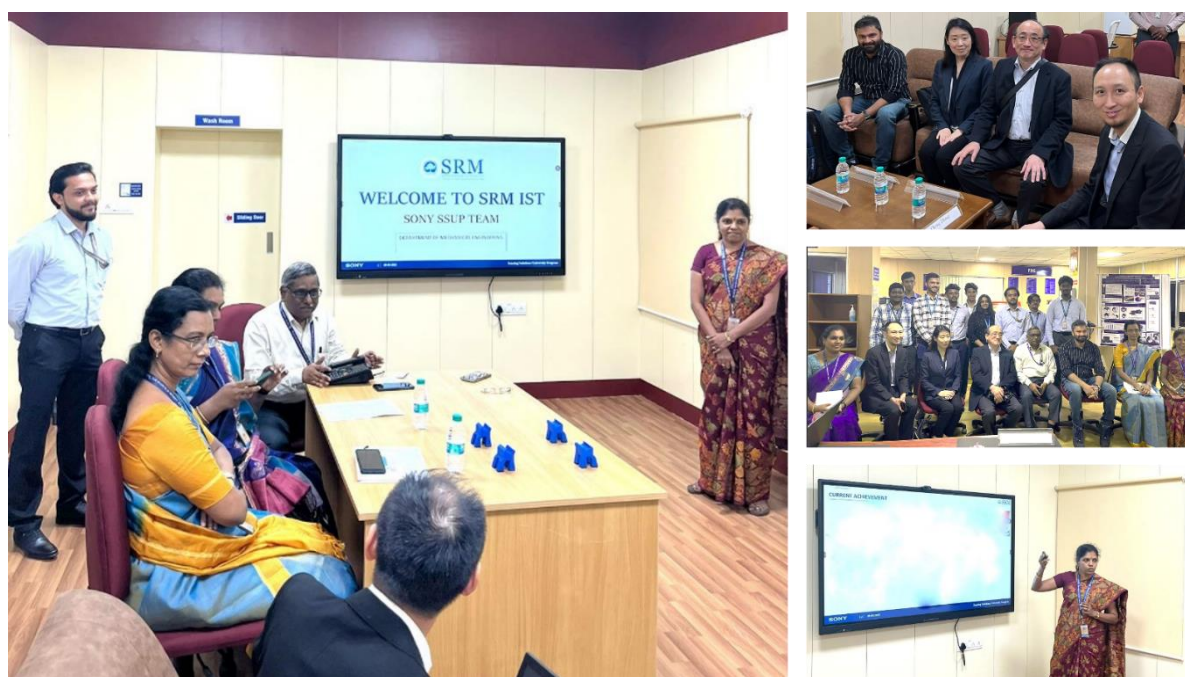
SRMIST – SONY Sensing Solution University Collaboration Program (SSUP) program

SONY Semiconductor Solutions, Japan visited SRMIST, Kattankulathur Campus on 9th March 2023. SRMIST and SONY have entered into Sensing Solution University Joint Development Agreement, with a research funding on **SONY- Sensing Solution University Collaboration Program (SSUP) program**. The project titled “A Vision-Based Modular Robotic Pipeline Inspection System for Rapid and Non-Invasive Surface Crack Detection Based on real-time Image Processing in Oil and Gas Pipeline” has been funded by SONY SSUP program with a total funding of **Rs.13.85 Lakhs**. **Dr. R. Ambigai**, Assistant Professor, Department of Mechanical Engineering is the Principal Investigator and Mr. Steve James as the researcher of this project and the duration is one year. The project began in the month of September 2022 with a kickoff meeting.

To review the research progress, a team from SONY Japan visited SRMIST: **Mitsuru Tanabe**, General Manager, Technology Planning Dept; **Hitomi Kamata**, Senior Manager, Technology Planning Dept; **Cheng Zhang**, Global promotion leader – SSUP; **Anil Sasidharan**, Associate Director & PIC – SSUP India.

The team was greeted by **Dr. Cheralathan**, HOD of the Mechanical Engineering Department, in the Department of Mechanical Engineering along with **Dr. Shanthi Prince**, HOD of the ECE department and **Dr. Ruhan Bevi**, Associate Professor, the SSUP Institute coordinator.

Principal Investigator of the project **Dr. R Ambigai** gave a detailed presentation about the current status of the research and the research lead, **Mr. Steve James** demonstrated the working model of their research work. The team visited the lab and reviewed the prototype and the deployment of SONY Spresense in the project. Experts from SONY gave valuable suggestions to the team for further improvement as a futuristic work. Then the team interacted with the 8 undergraduate interdisciplinary students who are working on this project in varying domains such as Machine learning, Circuit Design, Mechanical Engineering and GUI Development. The students presented and demonstrated their progress teamwise and the SONY team validated and appreciated their work. The team reviewed the SONY SSUP project and discussed the ways to hold the collaborations stronger in the near future. In the winding-up session, honorable Vice Chancellor and Dean (CET) greeted the delegates. The experts from SONY highlighted their company’s vision towards Sensing Solutions and how these SSUP programs enable them to expose the technology globally. Both SRMIST and SONY discussed on the ways to hold the collaborations stronger in the near future with inclusive participation by both the sides.





SRM – Teesside Collaborative Centre for Disaster Management

As an initiation, the College of Engineering and Technology have started SRM – **Teesside Collaborative Centre for Disaster Management** at Main Campus, SRM IST on **15th May 2023**. The Centre was launched by **Prof. Simon Lynch** Associate Dean of the International Business School, **Prof. Gordan Marshall**, Associate Dean of the International Engineering School from Teesside University, **Prof. T. V. Gopal**, Dean (CET), **Mr Lakshmi Narasimhan**, Director of IR, **Dr Thirumurugan**, Associate Director Campus life, and **Prof. Cheralathan**, HoD/Mechanical, SRMIST, Kattankulathur, under the banner of the Going Global Partnership Grant funded by the British Council, UK. **Dr Vignesh K.S** from the Department of Mechanical Engineering, SRMIST is leading a project on the Development of a PG Course on Disaster Management in collaboration with Teesside University, UK.



National Academic Immersion Program

National Academic Immersion Program was conducted for **Maharashtra Institute of Technology, World Peace University, Pune** students from 10-21, April 2023. 34 students have undergone the course on “Biomechanics” and 20 students have undergone the course on “Hydraulics Technology”. 55 students with 4 faculty members arrived on our campus on 9.4.2023 and the team stayed here till 23.4.2023.



- The program was inaugurated by Chairperson, SME on 10.4.2023. students attended the lectures by experts from our department and other departments/ faculty/ outside of SRM.
- Lab visits are arranged within the campus.
- Industrial visits arranged to Appasamy associates, Ambattur I.E and American Axle Manufacturing Company, Maraimalai Nagar.
- Local site visit arranged on 16.4.2023 to Mahabalipuram and Vedanthangal.
- Students were evaluated and course completion certificates were issued.
- The programme was validated by Dean CET on 21.4.2023.




Centre for Composites and Advanced Materials


To augment both experimental and computational research in the domain of composite and advanced materials, including advanced manufacturing processes, a Centre for Composites and Advanced Materials has been created within the Department of Mechanical Engineering, SRM IST, Kattankulathur campus. The Centre has three different laboratories, Composite and Advanced Materials Manufacturing Lab; Materials Modelling and Simulation Lab; Functional and Biomaterials Engineering Lab.

New facility added to the centre:

1. Vertical Plunger Type Injection Moulding Machine

Technical Specification			
1	Shot Weight	30 gm	
2	Barrel Diameter	25 mm	
3	Clamping Force	4 ton	
4	Max. Mould Size	150 x 150 mm	
5	Motor Power	2 HP	
6	Heater Load	0.75 kW	
7	Working Temperature	240 °C	
8	Machine Operating Pressure	60 bar	
9	Total Power	2.25 kW	

2. Universal Testing Machine (Shimadzu AGX-V50kN). This UTM was supported by DST PURSE Project titled “Establishment of Holistic Electric Mobility Infrastructure and Supporting Networks to Promote Research and Startups towards National Electric Mobility”.

Technical Specification			
1	Maximum Capacity	50 kN	
2	Load cell Accuracy	JIS B7721, EN 10002-2, ISO 7500-1, BS 1610, DIN 51221, and ASTM E4.	
3	Distance between Column	600 mm	
4	Cross Head Speed	0.00005 to 1500 mm/min	
5	Frame Stiffness	180 kN/mm	
6	Total Power	3 Phase AC 200 V/60 Hz	
7	Transmission	AC Servo Motor	
8	Power of the Motor	2 kW	
9	Data Capture Rate	10 kHz	
10	Size of the Machine	Width x Height (1206 x 2170 mm)	
11	Approximate Weight	640 kg	

ASME SRM Student Section

The **ASME SRM Student Section** has won a spot in the **top three competing student teams** from various universities across India in the **Human-powered Vehicle Challenge (e-HPVC)** conducted during the ASME EFX Innovation Weekend 2023, held at PES University, Bengaluru on 1st April 2023 and 2nd April 2023. The EFX events provide a forum for students and early career engineers to share technical programming, career and professional development content and most importantly, celebrate engineering! **Faculty Coordinators:** **Mr. S. Balamurugan** and **Mr. D.Raja**. **Student team participants:** **Priyanshu Pal** (RA2011002010014); **Utkarsh Chauhan** (RA2011002010045); **Deep Dixit** (RA2011002010005); **Ron Philip** (RA2011002010023); **Akshat Jain** (RA2011002010062); **Aaryan Anil** (RA2011002010024); **Vashista Srivatsa** (RA2011002010225); **Dhruv Chauhan** (RA2111002010101); **Shikhar Gotewal** (RA2111002010069); **Nitya Ganugula** (RA2111002010070); **Naitik Bhatia** (RA2111054010006); **Sanskar Das** (RA2111002010148); **Sabahat Hamid** (RA2011019010037); **Amandeep Singh** (RA2011002010187).



ELECRUISERS

Tucked away within the confines of SRM Institute of Science and Technology, a group of young, enthusiastic, and skilled engineering students is known as **the Elecruisers BAJA Team**. This is not just another student group, but a fervent assembly of individuals united by a shared passion for sustainable mobility and an insatiable drive for innovation. Their goal? To showcase the capabilities of electric vehicles (EVs) in the uniquely demanding world of off-road racing. The Elecruisers team functions as an efficiently designed engine, with a core team of 27 members—comprising of 4 women and 23 men. Their unity and collective effort are reinforced by the strong support of their alma mater, SRM Institute of Science and Technology. The institution plays a crucial role by providing the necessary resources and backing the team's initiative to construct an All-Terrain Vehicle (ATV). A significant milestone marks the journey of the Elecruisers—their recent participation in the **eBAJA 2023**, a prestigious national-level competition hosted by **Chitkara University in Baddi, Chandigarh**, from April 5-9, 2023.

This marked their first foray into competitive terrain post the COVID-19 pandemic. The eBAJA 2023 was no small affair—it witnessed a confluence of 83 teams from across the length and breadth of India. Teams came equipped with their best designs, all to showcase the potential sustainable mobility's potential through off-road vehicles. The Elecruisers cleared the technical inspection and stood strong during the validation event, further

solidifying their position in the event. The eBAJA event is meticulously planned to ensure that each participating team is tested on various fronts. The first day is dedicated to registration, a rigorous technical inspection, and a simulation roall designed to ascertain the teams' readiness. The second day involves an additional layer of technical inspection and brake tests to ensure the safety and operational effectiveness of the vehicles. The third day sees a continuation of brake tests, and most excitingly, an acceleration round. This round pushes the limits of the vehicles' speed and braking capabilities, providing a thrilling spectacle of sustainable speed. The main event, however, unravels on the fourth day—a gruelling four-hour race on a 2.5 km off-road track, a real test of endurance for both the vehicles and their drivers. The event winds down on the fifth day, hosting an HR meet specifically for the final-year students. This final phase presents an opportunity for students to reflect on their journey, learn from their mistakes, gain practical experience, and gather ideas for future projects.

The Elecruisers' journey in the eBAJA 2023 was a testament to their commitment towards sustainable innovation. Their dedication to pushing the boundaries of electric vehicle capabilities in the challenging domain of off-road racing speaks volumes about the team's resolve. While the race is over, the Elecruisers' journey continues, fuelled by their enduring passion for sustainable mobility and insatiable quest for innovation. Faculty Coordinator: [Prof. T. Rajasekaran](#).



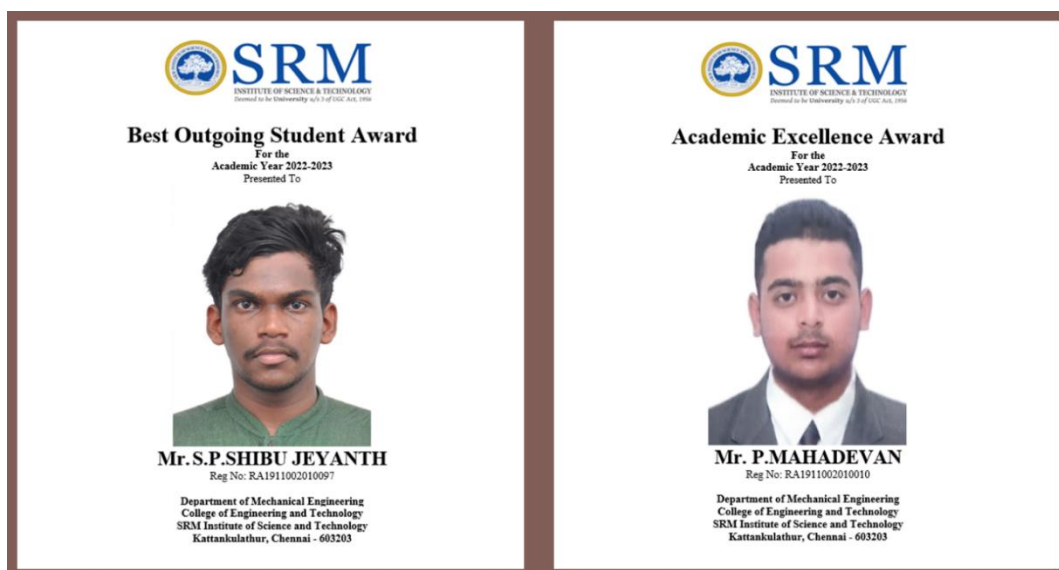
Etros Solareon Racing

We, the team Etros Solareon Racing, participated in ESVC 3000 which was held from 14th April to 21st April, 2023, Organised by ISIEINDIA and Co-Organized by Galgotias University. This is the 9th Season of Electric Solar Vehicle Championship and 1st Season of ESVC 3000- India's First Solar Car Rally that took place at Galgotias University this year. The team has won the future award-ESVC3000 2023 with a cash price of ten thousand rupees.



Department Awards for the Students for the AY 2022-23:

1. **Best Outgoing Student Award** was given to Mr S.P. SHIBU JEYANTH - RA1911002010097 based on the overall performance and total points scored.
2. **Academic Excellence Award** was given to Mr P. MAHADEVAN - RA1911002010010 based on his CGPA-9.52 (top in the department).
3. **Young Leader Award** was given to Mr B. SHASHANK – RA1911002010146 based on the points, organising and coordinating skills.
4. **“Young Entrepreneur Award** was given to Mr A.R.SURIYADEVALAN - RA1911002010176 for co-founding a startup



9. Student Activities and Achievements.

Performance-based scholarship received.

1. **Mr. Shikhar Gotewal** [RA2111002010069] received a performance-based scholarship of Rs. 62500/- for the academic year 2020-2021.
2. **Ms. Shaistha** [RA2111002010065] received a performance-based scholarship of Rs. 62500/- for the academic year 2020-2021.
3. **Mr. Archita Banerjee** [RA2111002010021] received a performance-based scholarship of Rs. 58750/- for the academic year 2020-2021.
4. **Mr. Srevathsan M R** [RA2111002010131] received a performance-based scholarship of Rs. 51250/- for the academic year 2020-2021.
5. **Mr. Bhargava Pranay Rishi** [RA2111002010074] received a performance-based scholarship of Rs. 47500/- for the academic year 2020-2021.
6. **Mr. Harshit Jain** [RA2111054010008] received a performance-based scholarship of Rs. 58750/- for the academic year 2021-2022.
7. **Mr. Vashista Muralidhara** Srivastva [RA2011002010225] received a performance-based scholarship of Rs. 62500/- for the academic year 2020-2021.
8. **Ms. Aswathy M** [RA2011002010002] received a performance-based scholarship of Rs. 58750/- for the academic year 2020-2021.
9. **Mr. Shashwat Mishra** [RA2011002010104] received a performance-based scholarship of Rs. 55000/- for the academic year 2020-2021.
10. **Mr. Jemit Adhyaru** [RA2011002010170] received a performance-based scholarship of Rs. 47500/- for the academic year 2020-2021.
11. **Ms. Shalaka Rajesh** [RA2011002010001] received a performance-based scholarship of Rs. 43750/- for the academic year 2020-2021.
12. **Mr. Soham Ravindra Taywade** [RA2011002010039] received a performance-based scholarship of Rs. 36250/- for the academic year 2020-2021.
13. **Mr. A Chiron** [RA2011002010067] received a performance-based scholarship of Rs. 55000/- for the academic year 2020-2021.
14. **Ms. Anjali Sinha** [RA2011002010025] received a performance-based scholarship of Rs. 32500/- for the academic year 2020-2021.
15. **Mr. Shivam Kumar** [RA2011002010054] received a performance-based scholarship of Rs. 25000/- for the academic year 2020-2021.
16. **Mr. S P Shibu Jeyanth** [RA1911002010097] received a performance-based scholarship of Rs. 62500/- for the academic year 2020-2021.
17. **Mr. P. Mahadevan** [RA1911002010010] received a performance-based scholarship of Rs. 55000/- for the academic year 2020-2021.
18. **Mr. Desalanka Limesh Murali** [RA1911002010045] received a performance-based scholarship of Rs. 51250/- for the academic year 2020-2021.
19. **Mr. Junayd Feroze Salahuddin** [RA1911002010095] received a performance-based scholarship of Rs. 51250/- for the academic year 2020-2021.
20. **Mr. Satabdi Bora** [RA1911002010093] received a performance-based scholarship of Rs. 47500/- for the academic year 2020-2021.
21. **Mr. Vikas Jain** [RA1911002010155] received a performance-based scholarship of Rs. 43750/- for the academic year 2020-2021.
22. **Mr. Bedaditya Barat** [RA2011002010183] received a performance-based scholarship of Rs. 40000/- for the academic year 2020-2021.

23. **Mr. Hardik Goenka** [RA1911002010156] received a performance-based scholarship of Rs. 40000/- for the academic year 2020-2021.
24. **Mr. Shashank B** [RA1911002010146] received a performance-based scholarship of Rs. 40000/- for the academic year 2020-2021.
25. **Mr. Yuvraj Singh** [RA2111002010189] received a performance-based scholarship of Rs. 36250/- for the academic year 2021-2022.
26. **Mr. Apurva Jhunjunwala** [RA1911002010152] received a performance-based scholarship of Rs. 36250/- for the academic year 2020-2021.
27. **Mr. Praveen Kumar R** [RA1911002010033] received a performance-based scholarship of Rs. 50000/- for the academic year 2020-2021.
28. **Mr. Lokhandwala Burhanuddin** [RA1911002010014] received a performance-based scholarship of Rs. 32500/- for the academic year 2020-2021.

10. Year Wise Activities and Achievements

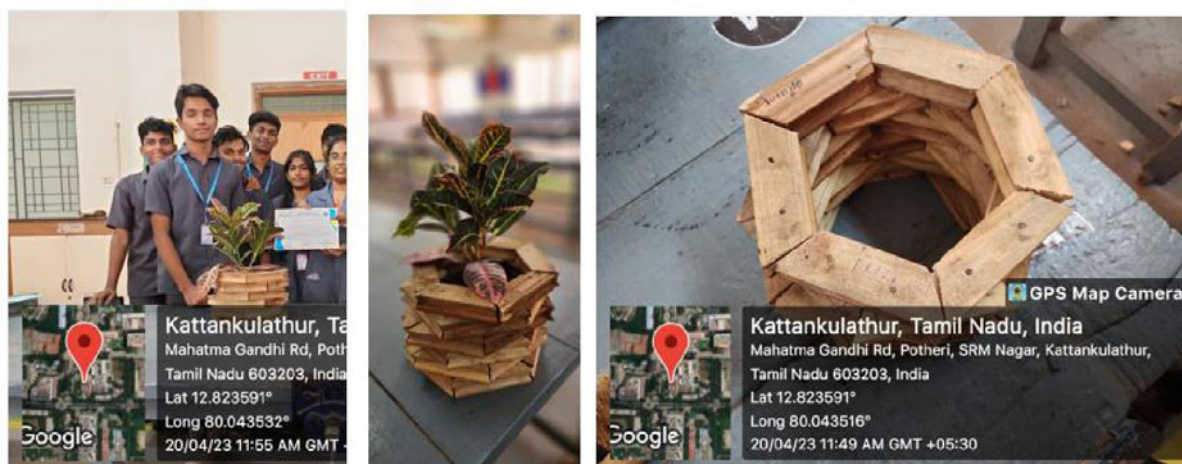
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First Year Activities & Achievements:

1. **Mr. Abel Varghese Philip** [RA2211002010034] participated in ARTIFICIAL INTELLIGENCE WITH PYTHON from 10th Nov 2022 to 10th Jan 2023 successfully completed the program.
2. **Mr. Abel Varghese Philip** [RA2211002010034] participated in STARTUP AND ENTREPRENEURSHIP from 10th Nov 2022 to 10th Jan 2023 and successfully completed the program.
3. **Mr. Karthik Manchala** [RA2211054010007] attended the online course SYMPOSIUM ON AEROSPACE held on 5th Jan to 5th Feb.
4. **Mr. Vansh Singh** [RA2211002010019] presented the Team Activities as FKDC (FORMULA KART DESIGN CHALLENGE) RACING, from 2nd Feb to 6th Feb 2023 at Kumaraguru College of Technology, Coimbatore.
5. **Mr. Abhishek Selarka** [RA2211002010049] presented the Team Activities as AUTO CREED RACING National Event from 3rd Feb to 6th Feb 2023.
6. **Mr. Charan G.** [RA2211054010025] attended the workshop of INDUSTRIAL INTERACTION with Ashok Leyland on 8th February 2023 SRMIST.
7. **Mr. Agnivo Bhattacharjee**, [RA2211054010029] attended the workshop on SRM Qkrishi Centre of Excellence in Quantum Information and Computing, with guest speaker Prof P. Arumugam from IIT-Roorkee to deliver a session on QUANTUM COMPUTING, on 15 Feb 2023, Department of Computing Technologies, SRMIST.
8. **Mr. G Jayanth Reddy** [RA2211002010066] attended the workshop of ICRACM 2023 from 20th to 24th Feb 2023 SRMIST.
9. **Mr. Chandru Anandan Kaunder** [RA2211002010069] attended in online course on UNIVERSAL HUMAN VALUES from 13th March, 2023 to 18th March, 2023 organised by AICTE.
10. **Mr. Vikrant Veeraraghavan** [RA2211002010068] attended workshop on UNIVERSAL HUMAN VALUES at SRMIST, March 13-18, 2023.
11. **Mr. Ayush Gautam** [RA2211002010055] attended a workshop on UNIVERSAL HUMAN VALUES from 13 to 18 March organised by AICTE.
12. **Mr. Nikhil Dutta** [RA2211002010042] Completed the Online course of UNIVERSAL HUMAN VALUES through AICTE from 13th March to 18th March 2023 at SRMIST.
13. **Mr. Pyla Udit Narayan Sai** [RA2211002010016] participated in the Team Activities of EBAJA 2023 from 5th April to 9th April 2023 SRMIST.
14. **Mr. S. Aravindan** [RA2211002010015] attended Training on HYPERWORKS at SRMIST held on 17th April to 21st April organised by Department of Mechanical Engineering.
15. **Mr. Kirubakaran A** [RA2211002010097] attended the Workshop on SOLIDWORKS held on 24th & 25th of April 2023, organized by MEA.

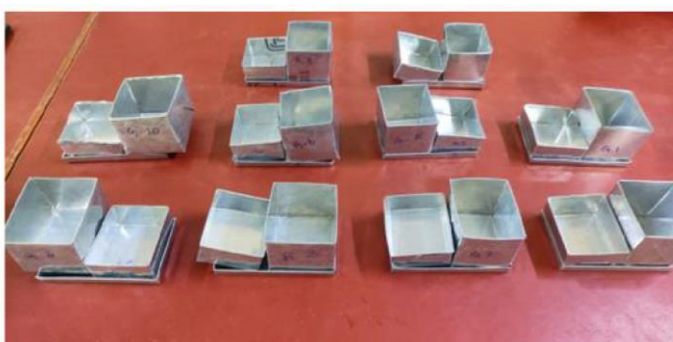
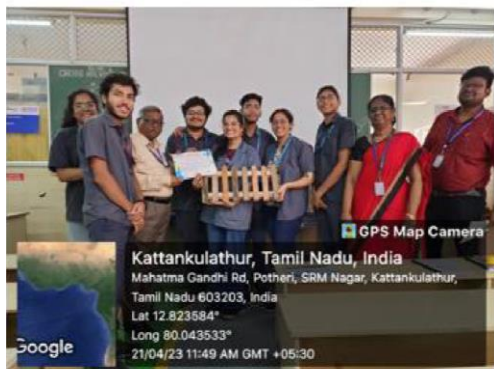
16. **Mr. K. Kavin** [RA2211002010094] attended the Workshop on SOLIDWORKS held on 24th & 25th of April 2023, organized by MEA.
17. **Mr. A. Lalith Krishna** [RA2211002010036], R. Devanand Reddy [RA2211002010035], Able, sumith panday, Nilay, Nitish Kumar learned about SHEET METAL CUTTING MODEL in BEL 2023, SRMIST, April 25, 2023.
18. **Mr. Abel Varghese Philip, Nithish Kumar, Nilay Sapte, Dev G, Sumit Pandey, Lalith Krishna, R Devanand Reddy** in recognition of winning the ACTIVITY BASED LEARNING SKILLS held on 25.4.2023 for the basic civil and mechanical workshop laboratory organised by Department of Mechanical Engineering, SRMIST, KTR.
19. **Mr. R. Udhayaraj** [RA2211002010090] attended the MTS INDIA SECTION, ASCE SRM Student Chapter, Norinco India Pvt Ltd.
20. **Mr. Jaden Rodrigues** [RA2211002010071] participated in 4ZE RACING, a student formula racing team.
21. **Mr. Adithya Sumesh** [RA2211054010012] attended workshop on Robotics ROBOTRON at SRMIST organised by Tech Analogy.
22. **Mr. Abhay Subramanian** [RA2211002010063] attended training in CHASSIS DESIGN AND MANUFACTURING, 4ze racing, 2023, SRMIST.
23. **Mr. Pratyush Prabhat Rath** [RA2211002010045] Completed the Internship as CAMPUS AMBASSADOR for 32 days Outside SRMIST.
24. **Mr. M Ramamoorthi** [RA2211002010110] participated in Tamil competition of TAMIL MANDRAM in M.I.T College Vendhar tv.

Activity-Based learning skills - 21MES101L Basic Civil and Mechanical Engineering Workshop



Activity-Based Learning Skill was introduced exclusively for the First Year Students during the even semester (2nd Sem). Various group activities were performed during the regular class hours starting from **20.4.2023 to 26.4.2023**. This activity-oriented made the young minds think, innovate and redesign the products satisfying the SDG (Sustainable Development Goals) reducing wastage and reusing the existing materials to make new products. Students participated in this learning process enthusiastically and developed a team effort workstyle. Compared to the regular classes, students' involvement towards these activity-based learning skills enriches their minds with new thoughts and design thinking capability features. The various products made by the students in the **Sheet metal shop** are Pooja baskets, Letterboxes, multi-purpose stands and dovetail seams. In the welding shop, the students performed cell phone stand, mini house, pencil stand, mini table, and square box. Similarly in the **Carpentry shop** various innovative activities such as dust bin making, gate, stool, rack and wooden hexagon flowerpots. The students gave feedback that such activity-based learning practices have enlightened their minds and they really enjoy working with different materials such as metals, sheet metal and wood. They also have experience in performing welding operations. For every session, the best two teams were

awarded the merit certificate and on the second day (21.4.2023), **Prof. M. Cheralathan**, HOD/Mechanical visited the laboratory and encouraged the students to active participation and distributed the merit certificates to the winning team members.



Second Year Activities & Achievements

1. **Mr. Harshit Jain** [RA2111054010008] has attended 5 days' workshop on SOLID MODELLING & MOTION STUDY FOR RESEARCH & INDUSTRIAL APPLICATIONS (SMMSRIA 22) organised by National Institute of Technology, Rourkela (NITR) from 19-Dec-2022 to 23-Dec-2022.
2. **Mr. Arjun Sharma** [RA2111054010009] completed an internship from SPACIM on ROCKET ENGINE DESIGN on 2nd January 2023.
3. **Mr. Joel Nithin F** [RA2111054010019] participated in an Industrial Visit to TURBO ENERGY PVT. LTD, Paiyanur, Mahabalipuram organized by SRMIST, Kattankulathur on 7th Jan, 2023.
4. **Mr. Maniyanthottil Abhinand** [RA2111054010013] Industrial visit to TURBO ENERGY PVT LTD on 7th January 2023
5. **Mr. Harshit Jain** [RA2111054010008] has attended Industrial Visit to ALBONAIR organised by Centre of Lean Six Sigma (CLASS) under supervision of Dr. E. Vijayaragavan on 9-Jan-2023.
6. **Mr. Kanaad Chaphekar** [RA2111054010028] has gone for an industrial visit to ALBONAIR organized by the program 'Lean Six Sigma Green Belt Certification' organized by Dr. E. Vijayaragavan, Department of Mechanical Engineering, SRMIST, Kattankulathur.
7. **Mr. Maniyanthottil Abhinand** [RA2111054010013] Industrial visit to ALBONAIR on 9th January, 2023.
8. **Mr. Agniprabha Chakraborty** [RA2111054010001] completed Certification in ANSYS on 23 January 2023.
9. **Mr. Harshit Jain** [RA2111054010008] attended 3 days' workshop on ADVANCED INDUSTRIAL AUTOMATION organised by Department of Electronics & Instrumentation Engineering, SRMIST in association with Mitsubishi Electric from 01-Feb-23 to 03-Feb-2023.
10. **Mr. Pratap Krishna Salgar** [RA2111054010031] attended a three days' workshop ADVANCED INDUSTRIAL AUTOMATION organized by the department of Electronics and Instrumentation Engineering, SRMIST, Kattankulathur from 01-03 Feb 2023.
11. **Mr. Mohit Mishra** [RA2111054010029] attended a three days' workshop on ADVANCED INDUSTRIAL AUTOMATION organized by the Department of Electronics & Instrumentation Engineering, SRMIST, Kattankulathur from 01 - 03rd Feb 2023.
12. **Mr. Agniprabha Chakraborty** [RA2111054010001] completed an internship from Teachnook on CATIA Software from 01/02/2023 To 31/03/2023.
13. **Ms. Kajal Singh** [RA2111054010015] completed a PYTHON PROGRAMMING internship through AICTE organized by HDLC Technologies from 1st Feb 2023 - 31st March 2023.
14. **Mr. Trishar** [RA2111054010012] attended a 2-day workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP organised by the Department of Mechanical Engineering on 03-04 Feb 2023.
15. **Mr. Arjun Sharma** [RA2111054010009] hosted and organized the event AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP on the 3rd and 4th of February by MEA.
16. **Mr. Praseeth Sharma** [RA2111054010005] organized a two-day event on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP as a part of the MEA on 3rd and 4th February 2023.
17. **Ms. Kajal Singh** [RA2111054010015] organized a two-day event on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP as a part of the MEA on 3rd and 4th February 2023.
18. **Mr. Agniprabha Chakraborty** [RA2111054010001] organized a two-day event on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP as a part of the MEA on 3rd and 4th February 2023.
19. **Mr. Aditya Dhavalikar** [RA2111054010017] organized a two-day event on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP as a part of the MEA on 3rd and 4th February 2023.
20. **Mr. Kedar Shrinivas N Iyer** [RA2111054010020] Attended a workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd and 4th of February 2023.
21. **Mr. Aditya Singh** [RA2111054010010] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
22. **Mr. Balaji S** [RA2111054010014] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers

- (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
23. **Mr. Navaneeth Uoralath** [RA2111054010022] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 24. **Mr. Tharun Mario R** [RA2111054010016] attended a workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP on Feb 3rd and 4th, 2023, organized by the Department of Mechanical Engineering, SRMIST, Kattankulathur.
 25. **Mr. Kanaad Chaphekar** [RA2111054010028] earned a certificate of appreciation for organizing an event AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP in the Department of Mechanical Engineering, SRMIST, Kattankulathur.
 26. **Mr. Joel Nithin F** [RA2111054010019] participated in the workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP organized by MEA Student Chapter, SRMIST, Kattankulathur held on 3rd and 4th Feb, 2023.
 27. **Ms. M. Nateswari** [RA2111002010144] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 28. **Mr. Sudarshan S.** [RA2111002010128] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 29. **Mr. J. Shivanand Reddy** [RA2111002010128] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 30. **Mr. Pranav Shankar** [RA2111002010034] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP" held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 31. **Mr. Rishu Gupta** [RA2111002010165] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 32. **Mr. Abhishek Kumar** [RA2111002010166] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP" held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
 33. **Mr. Praseeth Sharma** [RA2111054010005] completed a course on BECOME A CERTIFIED SOLIDWORKS ASSOCIATE (CSWA) on Udemy on the 14th of February.
 34. **Mr. Agniprabha Chakraborty** [RA2111054010001] completed Certification in LEAN SIX SIGMA BLACK BELT on 16 February 2023.
 35. **Mr. Harshit Jain** [RA2111054010008] contributed as volunteer towards grand success of 2ND INTERNATIONAL CONFERENCE ON RECENT & ADVANCED COMPOSITE MATERIALS (ICRACM 23) during 22-Feb-2023 to 24-Feb-2023.
 36. **Mr. Kanaad Chaphekar** [RA2111054010028] was a part of the organizing team in the 2ND INTERNATIONAL CONFERENCE ON RECENT & ADVANCED COMPOSITE MATERIALS (ICRACM 23) organised by the Department of Mechanical Engineering, SRMIST, Kattankulathur.

37. **Mr. Pratap Krishna Salgar** [RA2111054010031] volunteered for the 2ND INTERNATIONAL CONFERENCE ON RECENT & ADVANCED COMPOSITE MATERIALS (ICRACM 23) organized by the Centre for Composites and Advanced Materials, Department of Mechanical Engineering, SRMIST, from 22-24 Feb-2023.
38. **Mr. Shaad Ansari** [RA2111054010025] Volunteered and attended the 2ND INTERNATIONAL CONFERENCE ON RECENT & ADVANCED COMPOSITE MATERIALS (ICRACM 23) organized by the Centre for Composites and Advanced Materials, Department of Mechanical Engineering, SRMIST, from 22-24 Feb-2023.
39. **Mr. Mohit Mishra** [RA2111054010029] volunteered for 2ND INTERNATIONAL CONFERENCE ON RECENT & ADVANCED COMPOSITE MATERIALS (ICRACM 23) from 22-24 Feb-2023 organized by Center for Composite and advanced material Department of mechanical engineering SRM Institute of Science and Technology.
40. **Mr. Tharun Mario R** [RA2111054010016] has participated in the 25 hours online short-term course on COMPUTATIONAL METHODS IN ENGINEERING USING MATLAB organised by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur held on February 25 to April 15, 2023.
41. **Mr. Arjun Sharma** [RA2111054010009] participated in the COMPUTATIONAL METHODS IN ENGINEERING USING MATLAB conducted by SRMIST held from 25th February to 15th April.
42. **Mr. Joel Nithin F** [RA2111054010019] participated in the 25 hours online short-term course on COMPUTATIONAL METHODS IN ENGINEERING USING MATLAB organised by Department of Mechanical Engineering, SRMIST, Kattankulathur held from 25th Feb to 15th Apr, 2023.
43. **Mr. Praseeth Sharma** [RA2111054010005] attended an 8 weeks workshop on COMPUTATIONAL METHODS IN ENGINEERING USING MATLAB organized by the Department of Mechanical Engineering, SRMIST, Kattankulathur from 25th February, 2023 - 15 April, 2023.
44. **Mr. Arjun Sharma** [RA2111054010009] participated in MATHCO – QUIZZARD organized by the placement cell and the MathCompany on the 27th of Feb, 2023.
45. **Mr. Kanaad Chaphekar** [RA2111054010028] completed the GERMAN PROFICIENCY (START DEUTSCH-A1) EXAM conducted by the Goethe Institute in February 2023.
46. **Mr. Trishar** [RA2111054010012] attended a 3-day workshop on DEVOPS ESSENTIALS organised by the department of Networking and Communications SRMIST, Kattankulathur from 13-15 Mar 2023.
47. **Mr. Maniyanthottil Abhinand** [RA2111054010013] Attended a WELLNESS PROGRAM from 4th April to 6th April 2023.
48. **Ms. Joshua** [RA2111002010008] attended Conference on WELLNESS PROGRAM At SRMIST held on 4th-6th April organized by Mechanical Department.
49. **Mr. Trishar** [RA2111054010012] attended a competition UNCONFERENCE 2023 as a 4-member team under the name "Traveling Salesman" in "Esummit 2023" organised by IIT Madras and won 2nd place on 8 Apr 2023.
50. **Mr. Harshit Jain** [RA2111054010008] has attended 3 days' workshop on DRONE WORKSHOP organised by Airdonex Research Lab in collaboration with Department of Electrical & Electronics Engineering from 12-Apr-2023 to 14-Apr-2023.
51. **Mr. Pratap Krishna Salgar** [RA2111054010031] attended DRONE WORKSHOP organized by Airdonex Research Labs in collaboration with Department of Electrical and Electronics Engineering, SRMIST, from 12-14 April 2023.
52. **Mr. Harshit Jain** [RA2111054010008] has attended 6 days program on LEAN SIX SIGMA BLACK BELT (LSS BB) organised by Centre of Lean Six Sigma (CLASS) in SRMIST every weekend from 15-Apr-2023 to 30-Apr-2023.
53. **Mr. Tharun Mario R** [RA2111054010016] attended a workshop on ARCHETYPE ERUDITION ADVANCED WORKSHOP ON SOLIDWORKS on April 20th and 21st, 2023, organized by the Department of Mechanical Engineering, SRMIST, Kattankulathur. He was also awarded as the "Best Performing Candidate" in the workshop.
54. **Mr. Sanjay Kabilan Bharathy R** [RA2111002010149] attended ARCHETYPE ERUDITION SOLIDWORKS WORKSHOP on 24 and 25th April 2023 at mechanical hanger organised by mechanical department.

55. **Mr. Along AO** [RA2111002010099] attended ARCHETYPE ERUDITION SOLIDWORKS WORKSHOP at SRMIST held on 24th - 25th April 2023, organized by MEA SRM.
56. **Ms. Kajal Singh** [RA2111054010015] was on the organizing team for the ADVANCED SOLIDWORKS WORKSHOP conducted by MEA on the 24th and 25th of April 2023.
57. **Mr. Joel Nithin F** [RA2111054010019] participated in the ADVANCED WORKSHOP ON SOLIDWORKS organized by MEA Student Chapter, SRMIST, Kattankulathur held on 24th and 25th Apr, 2023.
58. **Mr. Joel Nithin F** [RA2111054010019] organized SAEINDIA SOUTHERN SECTION STUDENT CONVENTION 2022-23 held on 28th Apr, 2023.
59. **Mr. Mohit Mishra** [RA2111054010029] Participated and secured 2nd position (Tier II) in BIOMIMICRY organised by SAE INDIA on 28 April 2023.
60. **Mr. Joel Nithin F** [RA2111054010019] participated and secured FIRST position in Tier 2 TECHNICAL PAPER PRESENTATION COMPETITION organized by SAEINDIA Southern Section held on 28th Apr, 2023.
61. **Mr. Joel Nithin F** [RA2111054010019] participated and secured SECOND position in Tier 2 GEOMETRIC DIMENSIONS AND TOLERANCE COMPETITION organized by SAEINDIA Southern Section held on 28th Apr, 2023.
62. **Mr. Mohit Mishra** [RA2111054010029] Participated and secured 2nd position (Tier II) in MOBILE APP DEVELOPMENT organised by SAE INDIA on 28 April 2023
63. **Mr. Harshit Jain** [RA2111054010008] has participated & secure 1st position in Student Convention 2023 Tier-II for WELDING COMPETITION organised by SAEINDIA on 28th April 2023.
64. **Mr. Harshit Jain** [RA2111054010008] has participated & secure 1st position in Student Convention 2023 Tier-II for MODELLING & KINEMATIC CHECK COMPETITION organised by SAEINDIA on 28th April 2023.
65. **Mr. Harshit Jain** [RA2111054010008] is promoted to STUDENT EXECUTIVE COUNCIL MEMBER (SEC) at SAEINDIA Collegiate Club in April 2023.
66. **Mr. Harshit Jain** [RA2111054010008] has become official STUDENT MEMBER of Indian Society of Engineers (ISTE) in April 2023.
67. **Mr. Bhagavan Narayana Bikkina** [RA2111054010030] completed an online certification course of AWS ACADEMY CLOUD FOUNDATIONS in AWS Academy from May 1-12 2023.
68. **Ms. Kajal Singh** [RA2111054010015] completed an IC ENGINE internship from 5th may to 5th June 2023 through skill vertex.
69. **Mr. Harshit Jain** [RA2111054010008] has completed Mini-Project on EVOLUTION OF COINS under the guidance of Dr. J Santhakumar, Assistant Professor (Sr. G) at SRMIST, Kattankulathur
70. **Mr. Kanaad Chaphekar** [RA2111054010028] achieved 1st position in WELDING TIER-2 COMPETITION of the SAE India Student Convention 2023 organised by SAE India.
71. **Mr. Arjun Sharma** [RA2111054010009] earned a certificate from Unstop for participating in the MARUTI SUZUKI XCELERATE QUIZ.
72. **Mr. Praseeth Sharma** [RA2111054010005] participated in a quiz organized by MARUTI SUZUKI INDIA LIMITED along with Arjun Sharma [RA2111054010009] and Agniprabha Chakraborty [RA2111054010001].
73. **Mr. Kanaad Chaphekar** [RA2111054010028] has gone for an industrial visit to TURBO ENERGY PVT LTD organized by the Institute of Engineers, India, Kattankulathur centre and Mechanical Engineering Association, SRMIST
74. **Mr. Arjun Sharma** [RA2111054010009] hosted and was part of the Organising Committee of the IC ENGINES EVENT organized by IE(I) Students Chapter.
75. **Mr. Kanaad Chaphekar** [RA2111054010028] completed a Self-Paced course on MATLAB FUNDAMENTALS offered by MathWorks.
76. **Mr. Kanaad Chaphekar** [RA2111054010028] completed CSWA CERTIFICATION offered by Dassault Systèmes
77. **Mr. Pratap Krishna Salgar** [RA2111054010031] Got promoted to CHAIRPERSON OF SRM SAE COLLEGIATE CLUB.
78. **Mr. Shaad Ansari** [RA2111054010025] Worked as a part-time employee at TELEPERFORMANCE GLOBAL SERVICES PRIVATE LIMITED for 8 months.

79. **Mr. Kanaad Chaphekar** [RA2111054010028] completed Self-Paced course on MACHINE LEARNING WITH MATLAB ONRAMP offered by MathWorks.
80. **Mr. Shaad Ansari** [RA2111054010025] attended and completed the 8-week ACOUSTIC MATERIALS AND METAMATERIALS course from the NPTEL portal upon clearing the examination.
81. **Mr. Kanaad Chaphekar** [RA2111054010028] completed Self-Paced course on CONTROL DESIGN ONRAMP with Simulink offered by MathWorks.
82. **Mr. Shaad Ansari** [RA2111054010025] attended a workshop on The IUCN GLOBAL STANDARD FOR NBS: HOW TO MEASURE PERFORMANCE AND IMPACT.
83. **Mr. Kanaad Chaphekar** [RA2111054010028] achieved 1st position in MODELLING AND KINEMATIC CHECK TIER-2 competition of the SAE India Student Convention 2023 organised by SAE India.
84. **Mr. Shaad Ansari** [RA2111054010025] attended and cleared the exam for Certified SOLIDWORKS associate in mechanical design.

Third Year Activities & Achievements

1. **Mr. Tushar Negi** [RA201002010017] attended the workshop on FUNDAMENTALS OF POWER ELECTRONICS IN EV & QUOT, in SHAASTRA 2023, IIT Madras, January 27, 2023.
2. **Mr. Harsh Biscuitwala** [RA2011002010143] of Rudra participated in the INTERNATIONAL ROVER CHALLENGE (IRC), a space research and innovation competition organised by the Space Robotics Society (SPROS) held at Presidency University, Bengaluru, India from 27th to 31st January 2023.
3. **Mr. Joy Gipson** [RA2011002010072] attended a workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP on 3rd and 4th February 2023.
4. **Mr. Jayraj Saha** [RA2011002010004] attended workshop/Seminar on CAR AERODYNAMICS USING OPEN FOAM and webinar on STRUCTURAL ANALYSIS ON AUTOMOTIVE COMPONENTS USING FEA & QUOT, held on 7th and 10th February respectively organised by SKILL-LYNC.
5. **Mr. Joy Gipson** [RA2011002010072] attended an IV TO IOCL CHENNAI organised by pals on 24th February 2023.
6. **Mr. Girubakar P** [RA2011002010166] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
7. **Mr. Darsh Patel** [RA2011002010165] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
8. **Mr. Gauransh Chouhan** [RA2011002010162] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
9. **Mr. Shantanu Deshmukh** [RA2011002010168] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
10. **Mr. Siddhant Raj** [RA2011002010161] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical

Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.

11. **Mr. Aditya Nehra** [RA2011002010163] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
12. **Mr. Anurag Raj Singh** [RA2011002010151] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
13. **Mr. Shantanu Deshmukh** [RA2011002010168] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
14. **Mr. Akansh Gupta** [RA2011002010167] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
15. **Mr. Siddhant Raj** [RA2011002010161] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
16. **Mr. Aditya Nehra** [RA2011002010163] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
17. **Mr. Lalit Sahu** [RA2011002010150] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
18. **Mr. Mayuri Singh** [RA2011002010175] actively participated in the Three-Days Workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS, held during 1-3 March 2023, being organized by the Department of Mechanical Engineering, and supported by SRM Innovation, Incubation, and Entrepreneurship Centre of SRM Institute of Science and Technology, Kattankulathur Campus.
19. **Mr. Anurag Raj Singh** [RA2011002010151] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.
20. **Mr. Lalit** [RA2011002010150] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.
21. **Mr. Shantanu Deshmukh** [RA2011002010168] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.

22. **Mr. Aditya Nehra** [RA2011002010163] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.
23. **Mr. Girubakar P** [RA2011002010166] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.
24. **Mr. Mayuri Singh** [RA2011002010175] attended workshop on IC ENGINES COMPONENTS FUNCTIONALITY AND MANUFACTURABILITY BY TEAR DOWN ANALYSIS held on 10th march 2023 organized by SRM IST.
25. **Mr. Mohammed Bilal** [RA2011002010193] attended workshop on IC ENGINE-COMPONENTS FUNCTIONALITY AND TEAR DOWN ANALYSIS at SRMIST held on 10th March 2023 organised by Institution of Engineers India (IEI).
26. **Mr. Barath Kumar G** [RA2011002010152] attended the workshop EFFICIENCY IDENTIFYING PROJECT RESEARCH PROBLEMS THROUGH LITERATURE SURVEYS, Organized by the IE (I) mechanical division of SRMIST, 29.03.23.
27. **Mr. Pranav Sitharth K** [RA2011002010140] attended the work shop EFFICIENCY IDENTIFYING PROJECT RESEARCH PROBLEMS THROUGH LITERATURE SURVEYS, Organized by the IE (I) mechanical division of SRMIST, 29.03.23.
28. **Mr. Tanush R K** [RA2011002010046] attended competition ESVC3000 at Galgotias University, Greater Noida held from 14th April 2023 to 21st April 2023 organized by ISIE INDIA.
29. **Mr. Deep Aman Dixit** [RA2011002010005] attended ASME EFX INDIA 2023 COMPETITION at PES UNIVERSITY Bangalore and won third prize in E-HPVC DESIGN PRESENTATION COMPETITION.

Fourth-Year Activities & Achievements

1. **Mr. Vishnu Harikarthikeyan P** [RA1911002010163] attended/Participated, ROYAL ENFIELD, INTERNSHIP/INPLANT TRAINING, Starting Date of the Event held 02-01-2023 - 25-03-2023, Name of the Department organized - Mechanical, Category of the Event-National - within Tamilnadu.
2. **Mr. Suriya Devalan AR** [RA1911002010176] secured 1st place in WELDING HACKS – TRAINING AND COMPETITION held on January 11- 12, 2023, SRMIST.
3. **Mr. Nipun Chaturvedi** [RA1911002010157] Type of Event-Others, Starting Date of the Event held 01-01-2023 -01-01-2023, Name of the Institute/center organized- Private, Category of the Event - National - within Tamilnadu.
4. **Mr. Jahnavi Punyapu** [RA1911002010007] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
5. **Mr. Shashank B** [RA1911002010146] has completed two days' workshop on AUGMENTING INNOVATIVE IDEAS FOR ENTREPRENEURSHIP held on the 3rd-4th February 2023 organized by the Institute of Engineers (India) Kattankulathur Local Centre in association with Department of Mechanical Engineering, SRMIST, Kattankulathur.
6. **Mr. Baikani Rakesh** [RA1911002010083] participated in FORMULA KART DESIGN CHALLENGE – SEASON 6 organized by fraternity of mechanical and automotive speedway, Coimbatore from 3rd to 6th February 2023.
7. **Mr. A.R Suriya Devalan** [RA1911002010176] attended workshop on HEALTHCARE SYSTEM ENGINEERING, DATA ANALYTICS AND LEAN SIX SIGMA, SRMIST, Kattankulathur held on February 08, 2023 organized by Binghamton university.
8. **Mr. B. Shashank** [RA1911002010146] attended the workshop on DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS during, March 1st-3rd, 2023, Department of Mechanical Engineering, SRMIST, Kattankulathur
9. **Mr. Suriya Devalan AR** [RA1911002010176] participated in DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS during, March 1st-3rd, 2023, Department of Mechanical Engineering, SRMIST, Kattankulathur

10. **Mr. Suriya Devalan AR** [RA1911002010176] completed training on INTEGRATED MANAGEMENT SYSTEM, ISO 9001:2015; ISO 14001:2015 & ISO 45001:2018 at MSME- TDC Chennai held on 13th-18th March 2023.
11. **Mr. Suriya Devalan AR** [RA1911002010176] completed certification on LEAN SIX SIGMA GREEN BELT AND BLACK BELT at SRMIST, Kattankulathur during April 15-30, 2023 organized by iTrack solution private limited & International Council for Quality.
12. **Mr. Suriya Devalan AR** [RA1911002010176] attended REINVENTING THE FUTURE, held at IIT Madras Research Park on 10th May 2023, Organized by Aditya Birla Group & Pro MFG Media.
13. **Mr. Suriya Devalan AR** [RA1911002010176] completed a course on APPLICATIONS OF MACHINE LEARNING IN URBAN STUDIES at IIRS Distance learning program held on 5th -9th June 2023 organized by Indian Institute of Remote Sensing, (ISRO).
14. **Mr. A R Suriya Devalan** [RA1911002010176] attended the workshop on MSME-TECHNOLOGY DEVELOPEMNT CENTER, organized by Edubrainz Company.
15. **Mr. S.P Shibu Jeyanth**, [RA 1911002010097] attended the workshop on the title THE JOY OF LEARNING THROUGH VIDEOGAME NARRATIVES Department of Mechanical Engineering, SRMIST, Kattankulathur.
16. **Mr. Suriya Devalan AR** [RA1911002010176] participated in PROMOTING ACADEMIC RESEARCH FOR JOURNAL PUBLICATION, PATENT AND FUNDING PROPOSAL at SRMIST, 23rd & 24th, 2023, SRMIST.

Farewell to the Final Year Students

The department of mechanical engineering was organized a farewell event for the batch 2023 passing out students on 11th May 2023. All the department faculty members/staff members participated in the event, congratulated all the students for their future endeavours, and shared their sweet memories.





Final Year Student Group Photograph

■ 2023 Batch – Section A



■ 2023 Batch – Section B



■ 2023 Batch – Section C



■ 2023 Batch – Section D



■ 2023 Batch – Section E





11. Best Project Award –Minor Project - B. Tech

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18MEP109L – Project _ Best Project for 2022-23 Even Semester

1. **Mr. Anurag** (RA1911002010236), **Mr. Arpan Ladha** (RA1911002010248). Modelling of Mechanical Component using Solidworks API. Guide: **Mr. S. Sundar**. Team: D04.
2. **Mr. Muhammad Ahmed Nazir Shaikh** (RA1911002010285). Tribo-Corrosion and Mechanical Analysis of Electro-Deposited Nano-Composite Coating for Under Water. Guide: **Dr. Jitendra Kumar Katiyar**. Team: D01.
3. **Mr. Shoubhik Chatterjee** (RA1911002010179), **Mr. Yuvraj Singh** (RA1911002010189). Freezing and Melting Characteristics of Nano Enhanced Phase Change Material for Heating and Cooling Applications. Guide: **Dr. C. Selvam**. Team: T42.

18MEP109L – Project _ Best Poster Presentation for 2022-23 Even Semester

1. **Mr. Gabu Harshith Ravi Chandra** (RA1911002010201), **Mr. Rachit Singavi** (RA1911002010206). Effect of Heat Input on Properties of TIG welded NITINOL Shape Memory Alloy. Guide: **Mr. R. Majoj Samson**. Team: M13.
2. **Mr. Sohom Chatterjee** (RA1911002010080), **Mr. Satabdi Bora** (RA1911002010093). Structural Analysis of Orthodontic Brackets with Connected Tie Wings using Finite Element Analysis. Guide: **Dr. V. Magesh**. Team: D19.
3. **Mr. Lokhandwala Burhanuddin Murtazabhai** (RA1911002010014), **Mr. Arjun Vaidya Karthikeyan** (RA1911002010044). CFD Analysis on Automotive Radiators using Different Fin Material. Guide: **Dr. P. Sudhakar** Team: T19.

20MEP604L – Project Work Phase II _ Best Poster Presentation for 2022-23 Even Semester

1. **Mr. C. Vignesh** (RA2112017010004). Design and Development of RRT based Autonomous Mobile Robot for Cleaning Applications. Guide: **Dr. S. Prabhu**. Stream: Robotics.
2. **Mr. Ajit Ram RR** (RA2112031010001). Solar and Wind Hybrid Energy System. Guide: **Dr. S. Manikandan**. Stream: Solar Energy.

12. Placement Activity (Aug 2022 to Dec 2022)

Placement Assessment Schedule for 3rd Year

Placement Assessment Sessions have been physically planned in SRM KTR campus for all 3rd year students from 7th January to 12th January 2023. All the assessments are mandatory for the students to be eligible for Placements. Based on the scores, students will be categorised & allowed for Marquee/Super Dream companies.

Placement Tech Talk for 3rd Year Students

The talk aimed to plan and organize various placement drives on campus and build the bridge between industry and academia. The program was designed to help students present about companies and learn how to plan and organize placement drives on campus. On successful completion of the program, students should be able to plan and organize various placement drives on campus. Date: 9th January 2023; Venu: Tech Talk, Main Auditorium; Time: 9 am - 12 noon

Wheels India Factory visit – MOU with Career Centre, SRM IST

Date: 30.01.2023. Faculty from the Department of Mechanical Engineering visited as part of the MOU between Wheels India, Padi, Chennai, Tamil Nadu and Career Centre, SRM Institute of Science and Technology. List of Faculty members visited: **Dr G. Balaji; Dr M. Prakash; Dr E. Vijayaragavan; Mrs. Sampath Kumar; Mr Abburi Lakshman Kumar.**



CCC Training

Placement Training as part of the curriculum, the 1 credit Course "18CSC308L - Competitive Professional Skills" phase 2 was done in three phases for third-year students.

In the course "18CSC308L - Competitive Professional Skills" for Non-Computing branches, 15 batches of students grouping (offline class - Various Halls and seminar rooms) have been identified, and the following are planned.

- The first phase of classes (2 days) from 27-02-2023 to 28-02-2023.
- The second phase of classes (3 days) is on 20-03-2023, 21-03-2023 and 23-03-2023.
- The third phase/slot of classes (3 days) is from 28-03-2023 to 30-03-2023.

Placement Assessment Test (6th SEM) – Phase 2

The revised schedule for the Final Placement Assessment Test was on 25-March-2023 (Saturday). The results of the Assessment Test will be used to Rank the students for placement opportunities in Marquee and Super dream category companies. Categories: English and Aptitude; Technical; Coding; Overall.

TCS Engagement activities- Week VI

RunD Code Series, Tech Quest Series, CrackD Quant Series, Management Quiz Series, Duration: 15th May to 19th May. It is a small step from TCS to help sharpen the students' minds and equip themselves.

DABB App Verification

DABB App Helpdesk for registration and verification was held from 17/05/2023 to 19/05/2023 for 2024 Batch students. DABB App helps in coordinating and communicating the placement activities to the students.

Placement Induction Programme

The Placement Team - Mechanical Engineering Department is planning to conduct a Placement Induction Program. As informed to us by the student representatives, we are keeping the program on 18/05/2023, 10 AM at G.D. Naidu Hall, Mechanical B block.

Program Content

Address by Final Year In-charge; Brief presentation on Placement and Higher studies by the Placement Team; A presentation on placement rules and preparation was delivered. All queries regarding placements or higher studies clarified by Placement Team.



Enrollment of 2024 Batch Students

Engineering Campus Placement Cycle 2024 has been opened for Placement Enrollment for all the B.Tech & M.Tech students (Graduating class of 2024). The Enrollment deadline was extended to 20.05.2023 till 5.00 pm.

Superset Profile Verification

Superset Profile Verification was initiated by the department placement cell on 22/05/2023. The deadline for completion of profile verification is 29/05/2023.

Placement Initiation 2024 Batch

2024 Batch Placements officially start on 08/06/2023. All placement-enrolled students are to be available on campus for various processes from this date.

Engineering Campus Placement 2024 -Superset Enrollment Open





The central placement team open enrollment in Superset for the Engineering Campus Placement Cycle 2024 from June 2023

Special Placement Training Program.

Special Placement Training for the 2024 Batch is scheduled from 9th June 2023 to 24th June 2023 from 9 am to 4.15 pm. Apart from this training, Technical Mock Interviews and Online Conclaves are scheduled. These details will be shared from time to time. Requesting the support of placement coordinators and all programmers during the training, including Sundays. The training was provided to students in the Six Phrase, FACE, and Examly Platforms.

Connect Session Series – Alumni Interactions

Connect Session Series – 3.2 (CSS- 3.2) – An interaction session with Alumni studying in foreign university. Alumni are invited to give a small motivational talk to their fellow junior students for better interaction and motivation about his life experiences and how they helped him become successful. They encourage students to follow their dreams and not be afraid of failure. One of the Alumni talks about the importance of hard work and perseverance. They encourage students to set goals and work hard to achieve them. Third Alumni talks about his life experiences and how he became successful. He encourages students to have a clear vision of what they want to achieve and work hard to make it happen.

Schedule Details			
22-Feb-23	Time: 06.30 pm – 08.30 pm		Mode: Online – Google Meet
Invitees	UG – Final year, Third year & second-year students		
Invitees	HOD, II year Prof., in-charge, III year Prof., i/c, IV year Prof., in-charge, Alumni coordinator		
S. No	Alumni Name	Photo	Current Designation
1	Mr. Rohith Agurla RA1611002010781 2020 Batch		Master of Science- Industrial Engineering, Binghamton University, New York
2	Mr. Vishnu Nair RA1511002010812 2019 Batch		Master of engineering Science- Mechanical Engineering, The University of New South Wales (UNSW), Australia
3	Mr. Sri Sai Sathvik Kadimisetty RA1611002010721 2020 Batch		Master of Science – Robotics University of Bristol, UK
4	Mr. Manikanta Swamy Pulamolu RA1611002010235 2020 Batch		MS – International Technology Transfer Management, Fachhochschule des Mittelstandes Bielefeld, Germany

Placement Statistics 2023 Batch

The Campus placement cycle of 2023 Batch started on June 2022. As on 19th Jun 2023, 186 offers were secured by the B-Tech students and 01 offer by M-Tech students during the campus placement cycle till June 2023. A total of 183 B-Tech students and 11 M-Tech students enrolled for the campus placement. The highest package provided by the companies is 29 LPA and a mean package of around 6 LPA.

B. TECH SUMMARY / 2023 BATCH / AS ON 19.06.2023

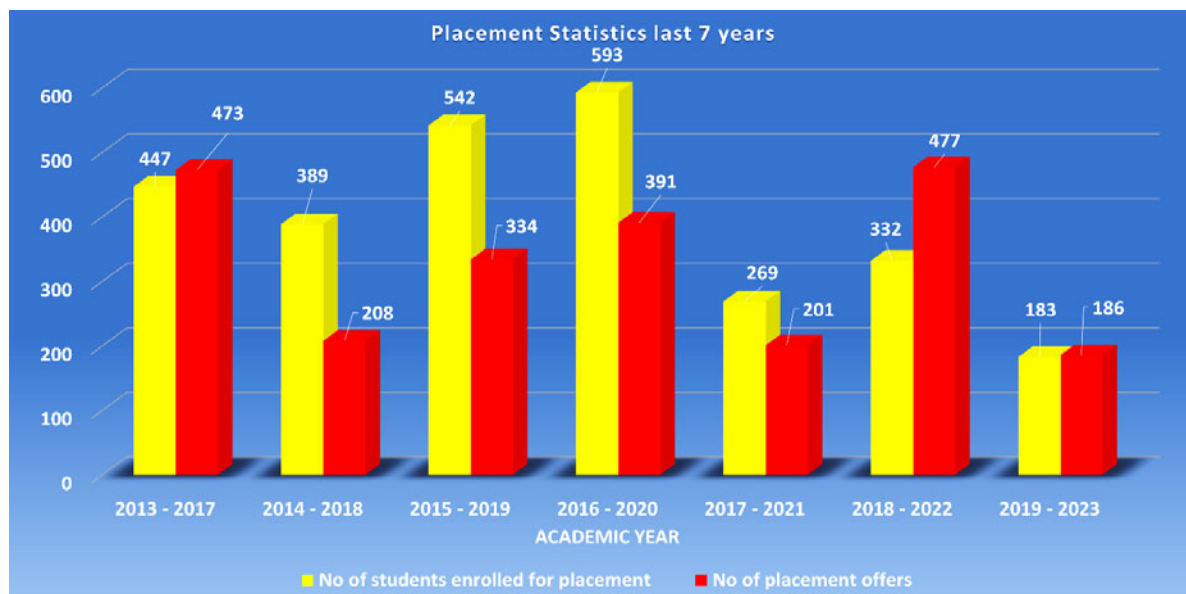
Total strength	277
No of students enrolled	183
Number of students placed	126
Total number of offers	186
Core offers	74
Non-core offers	112
No of companies visited	235
Internship offers	8
Highest offer package / CTC	29 LPA
Lowest offer package / CTC	3.6 LPA
LOR applications	38

M.TECH SUMMARY / 2023 BATCH / AS ON 19.06.2023

No of students enrolled	11
Number of students placed	1
Number of offers	1
Core offers	1
No of companies visited	24
Internship offers	6
Highest offer package / CTC	15,000 to 25000 pm
Lowest offer package / CTC	15,000 to 25000 pm

The top companies' offering highest Company	No of offers	CTC (LPA)
Amazon	1	29
Euler Motors	1	13
Amadeus	1	12.5
Daimler	3	10
Caterpillar	1	8.78
Havells India	1	8.5
Hero motocorp	3	8.5
JSW Energy	3	8.5
Reliance Industries	5	8
Deloitte	6	7.6
SHELL	2	7.29

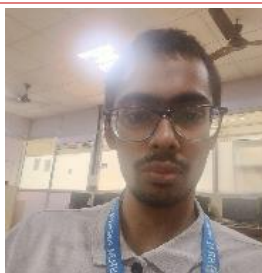
Placement Statistics – Last 7 Years



Students with top 10 offers



Snigdha Jha
RA1911002010290
Amazon.
CTC: 29 LPA
Role: Manager - Operations



Rachit Singhvi
RA1911002010206
Amadeus.
CTC: 12 LPA
Role: Software Engineer



SUMIT Ojha
RA1911002010023
Maruti Suzuki
CTC: 10.34 LPA
Role: GET



Souvik Kanti Roy
RA1911002010059
Maruti Suzuki
CTC: 10.34 LPA
Role: GET



Lokhandwala Burhanuddin Murtazabhai
RA1911002010014
Daimler
CTC: 10 LPA
Role: GET



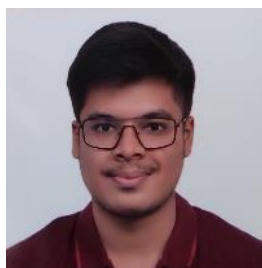
Isha Debashish Nandi
RA1911002010195
Daimler
CTC: 10 LPA
Role: GET



MAYANK RAJ
RA1911002010241
Daimler
CTC: 10 LPA
Role: GET



Yuvraj Singh
RA1911002010189
Caterpillar
CTC: 8.78 LPA
Role: Leadership Technical Development Program



Priyanshu Dhudhuani
RA1911002010101
Euler Motors
CTC: 8.5 LPA
Role: GET



Aman Naz Arora
RA1911002010115
Hero Motocorp
CTC: 8.5 LPA
Role: GET



Joy Banerjee
RA1911002010129
Hero Motocorp
CTC: 8.5 LPA
Role: GET



Md Danish Reyaz
RA1911002010132
Hero Motocorp
CTC: 8.5 LPA
Role: GET



SHIVAM KUMAR JHA
RA1911002010161
JSW Energy
CTC: 8.5 LPA
Role: GET



BEDADITYA BARAT
RA1911002010183
JSW Energy
CTC: 8.5 LPA
Role: GET



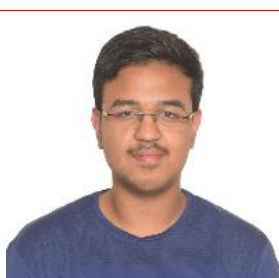
VISHAL A RAWAL
RA1911002010237
JSW Energy
CTC: 8.5 LPA
Role: GET



YASH RAJ
RA1911002010053
JSW Energy
CTC: 8.5 LPA
Role: GET



Sarath Avulamanda
RA1911002010188
JSW Energy
CTC: 8.5 LPA
Role: GET



**VISHWAKARMA
ABHINAV**
RA1911002010112
Reliance Industries
CTC: 8 LPA
Role: GET



ARYAN RAJ
RA1911002010119
Reliance Industries
CTC: 8 LPA
Role: GET



PARTH BAROLE
RA1911002010151
Reliance Industries
CTC: 8 LPA
Role: GET



HARDIK GOENKA
RA1911002010156
Reliance Industries
CTC: 8 LPA
Role: GET



**ABHISHEK KUMAR
SAHOO**
RA1911002010193
Reliance Industries
CTC: 8 LPA
Role: GET



**JUNAYD
SALAHUDEEN**
RA1911002010095
Deloitte
CTC: 7.6 LPA
Role: Salesforce



KEERTHANA DINESH
RA1911002010136
Deloitte
CTC: 7.6 LPA
Role: Salesforce



SAI ADARSH PETA
RA1911002010150
Deloitte
CTC: 7.6 LPA
Role Salesforce



BHASKAR JHA
RA1911002010153
Deloitte
CTC: 7.6 LPA
Role Salesforce



VIKAS JAIN
RA1911002010155
Deloitte
CTC: 7.6 LPA
Role Salesforce

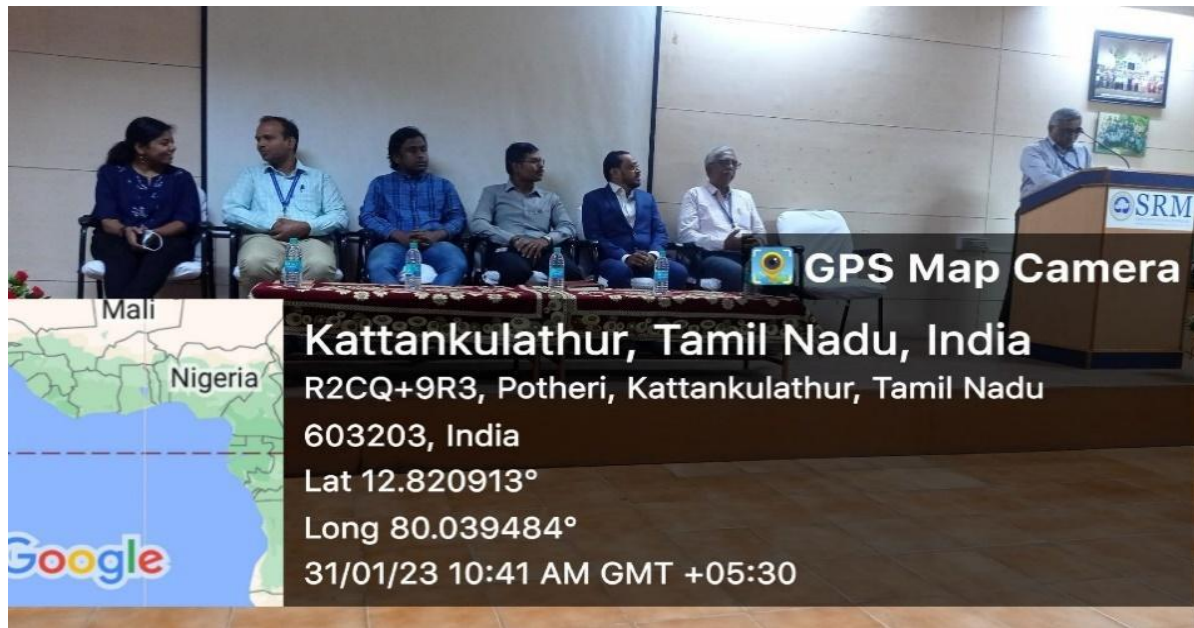
13. Alumni Interaction

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1. Meeting the alumni of SRMIST on 21st January 2023. **Dr. E Vijayaragavan** had an opportunity to meet **Mr. Vaibhav Gupta** an alumnus of SRM IST Chennai currently the Director at A.C. HUMIDIN AIR SYSTEMS PVT LTD CASILICA D- AIR PRIVATE LIMITED Humidin Casilica and visited his factory.



2. The official biannual newsletter “Resonance” of the Department of Mechanical Engineering, SRMIST, Kattankulathur was released by the Prominent Alumnus of our Department in the presence of Prof. A. Rathinam, Director of Alumni Association, Prof. Kingsly Jeba Singh, Prof. M. Cheralathan on 31 January 2023. Alumni Participated: **Mr. Raghunathan Swaminathan** (1995 batch), Head of R&D, FLSmidth; **Mr. Vigneshwar Rajendran** (2015 CAD tach), Manager, Mano Tool; **Mr. Moinak Banerjee** (2015 batch), Co-Founder & Head of Products, Solinas Integrity Private Limited; **Ms. Linda Jasline** (2015 batch), Co-Founder & Project Manager, Solinas Integrity Private Limited. Coordinator: **Dr. E. Vijayaragavan**.



3. An alumna of M. Tech CAD, SRMIST **Ms. M Lata Tejeswi** visited the Department of Mechanical Engineering and interacted with her faculty members on 14 February 2023.



14. Events Organized

1. Thirty-two second-year Mechanical engineering students had an **industry visit to Turbo Energy Pvt Ltd**, Paiyanur-603104 on 7th, Jan 2023. Association Involved: IE(I) Student Chapter-Mechanical division. Faculty Arranged: **Dr. A. Vijaya** and **Dr J. Santhakumar**.



2. Centre for Lean And Six Sigma (CLASS) organized the Lean Six Sigma Green Belt Certification in association with **Tamil Nadu Apex Skill Development Centre for Logistics TNASDCL** during 06 to 11 January 2023. Resource Persons: **Dr. Panneerselvam Ramaswamy**, Former Principal Director MSME TDC, Agra; **Dr. E. Vijayaragavan**, Coordinator – CLASS; **Mr. Udaykumar Kesavelu**, **Caterpillar India**; **Mr. Balakumaaran Puyalnathan**, **Ball Corporation**, and **Mr. Amuthan Karunamurthi**, **Valeo India** Private Limited.

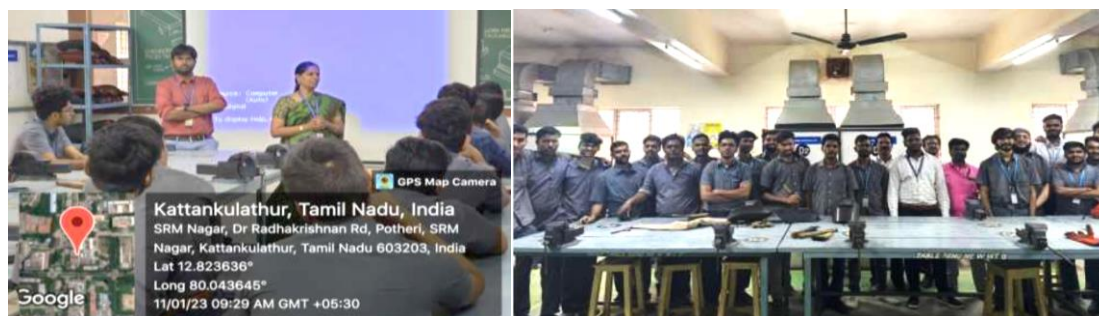




3. An industrial visit to **ALBONAIR** was arranged for the participants of the Lean Six Sigma Green Belt Certification organized by Centre for Lean And Six Sigma (CLASS) Certification in association with **Tamil Nadu Apex Skill Development Centre for Logistics TNASDCL** on 09th January 2023. Coordinator: Dr. E. Vijayaragavan



4. A two-day workshop on Welding Hacks: Training & Competition was organized for 3rd and 4th-year Mechanical engineering students on January 11th and 12th 2023 in the Basic Engineering lab. Association Involved: **IE(I) Student Chapter-Mechanical division and MEA Student Chapters**. Coordinators: **Dr. A. Vijaya** and **Dr. T. Deepan Bharathi Kannan**.



5. Activity by **Student Counseling Cell** – Mechanical Department. The Mech - Student Counseling Cell and Aerospace Student Counseling Cell organised a motivational talk on "Drafting Personal Constitution And Shaping Life," by Commander **A. Muthu, (Retd.), Indian Navy**, Ex. Faculty of Aerospace Engineering, SRMIST on 19th Jan'23 from 10.00 to 11.45 a.m for School of Mechanical Engineering students and research scholars at G.D. Naidu Hall, Mechanical "B" Block. 100 students attended the program and benefitted. On 18th Jan'23, guidance to handle students was given to the faculty advisors and counselling team by the Chief guest. A total of 15 faculty members attended the program and benefited. Convenors: HOD, Dept. of Aerospace Engineering and . HOD, Dept. of Mechanical Engineering. Coordinators: **Dr. R. Ambigai, Dr. V. Rajasekar, Dr. J Santhakumar, Mr. D. Vamsikrishna, Dr. M. Vigneshkumar** , and **Mr. S. Rajkumar**.



6. **ANSYS phase-2 training program** was organized on 25.1.2023 for faculty and research scholars/students. Coordinators: **Dr. C Shravankumar** and **Dr. Nandakumar P**.
7. Centre for Lean and Six Sigma (CLASS) hosted **Mr. Krishnamoorthy Manikandan, Vice President of Ashok Leyland**, Chennai for an Industry Institute Interactive session with the students, research scholars, and faculty of the Department of Mechanical Engineering, SRMIST, Kattankulathur on 02 February 2023. Coordinator: **Dr. E. Vijayaragavan**.



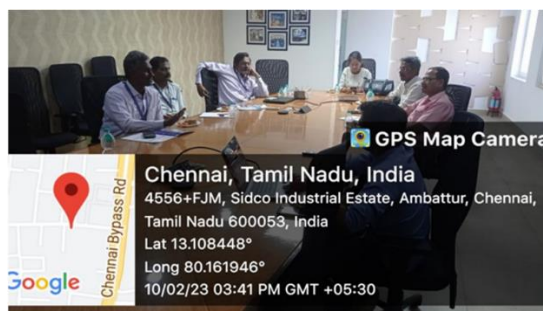
8. Two-Day Workshop on "Augmenting Innovative Ideas for Entrepreneurship" organized during Feb 3-4, 2023, for the benefit of faculty members and pre-final year and final-year students. Coordinators: **Dr. T. Lakshmanan, Dr. G. Balaji** and **Dr. D. Kumaran**.



9. One day workshop on Healthcare Systems Engineering, Data Analytics, and Lean Six Sigma was organized on 08 February 2023 in the **Department of Mechanical Engineering, Department of Computation Intelligence, and SRM Medical College Hospital and Research Centre** in association with **Thomas J. Watson College of Engineering and Applied Science, Binghamton University, State University of New York**. Resource Person: **Prof. Mohammad T. Khasawneh**. Coordinator: **Dr. E. Vijayaragavan**, CLASS.



10. A team of faculty members from the Department of Mechanical Engineering, SRMIST, Kattankulathur visited **Universal Engineers Chennai Private Limited** and initiated the Academia–Industry Interactions on 10 February 2023. Faculty visited: Prof. Shubhabrata Datta; **Prof. T. Rajasekaran**; **Dr. Arul Jeya Kumar**; **Dr. E. Vijayaragavan**.



11. An industry visit to **AAM - American Axle & Manufacturing** was arranged for the students of School of Mechanical Engineering on 16 February 2023. **Mr. Gunasekaran Venkatesan** provided the safety instructions. **Mr. Natarajan Nageswaran** welcomed the SRM team. **Mr. Sridhar Babu** given a brief overview of AAM - American Axle & Manufacturing and its existence. **Mr. Rajavelan Manickam** explained the assembly operations and the plants' activities. **Mr. Arunkumar** guided the students during the visit. Coordinator: **Dr. E. Vijayaragavan**.



12. **Tamil Nadu Apex Skill Development Centre for Logistics** in association with the Centre for Lean And Six Sigma (CLASS) organized the Driver Assessment and Awareness Campaign for the drivers of the SRM Transport on 21 February 2023. Over 40 drivers participated in the event. Coordinator: **Dr. E. Vijayaragavan** and **Prof. T. Rajasekaran**.



13. The Three-day **2nd International Conference on Recent and Advanced Composite Materials (ICRACM - 2023)** was officially inaugurated on February 22, 2023, in SRM Institute of Science & Technology, Kattankulathur Campus, Chengalpattu District, Tamil Nadu. This conference was organised by the Centre for Composites and Advanced Materials, Department of Mechanical Engineering and SRM Institute of Science & Technology, Kattankulathur Campus, in association with IEI, Kattankulathur, India and Materials Advantage student chapter.



Dr. Debashish Bhattacharjee, Vice President, Technology & Innovative Materials, **Tata Steel**, gave the inaugural address and expressed his hope that this conference will bring together academics and industry executives from across the world to address the difficulties and possibilities linked to composites and advanced materials and will also serve as a platform for idea exchange. **Prof. Debes Bhattacharyya**, the Guest of honour of the conference and a **Professor** at the **University of Auckland**, said that composite materials have been used since ancient. In his address, Due to their ultra-light weight and cutting-edge technology, composite materials, according to **Dr. A. Senthil Kumar** of **Singapore's National University**, are becoming more important. In his presidential speech, **Prof. C. Muthamizchelvan**, Vice Chancellor of **SRM IST**, highlighted that SRM is doing well in international rankings and is in the Top 5 for innovations since many research activities have already been initiated. In order to accomplish greater goals, he requested that the researchers collaborate in the field of materials. Moreover, he emphasised that the research solutions has to be **ASSURED** i.e. **AFFORDABLE, ACCURACY, SCALABLE, SUSTAINABLE, UNIVERSAL, RAPID, EXCELLENT, and DISTINCTIVE**.

Dr. D. Kingsly Jeba Singh, Professor & Chairperson, School of Mechanical Engineering and the Convenors **Dr. M. Cheralathan**, Professor and Head of the department warmly welcomed all the delegates and participants of the conference and **Dr. Shubhabrata Datta**, Research Professor Department of Mechanical Engineering,

SRMIST mentioned that about 203 abstracts from prestigious institutions, including IITs, NITs, DRDO, Institute of Technical Education and Research in Orissa, Energy Institute in Bangalore, IITDM in Kancheepuram, etc., were received. Participants from the TCS sector and international registrants from Mexico, Ethiopia, and Auckland had registered for the conference. In total, there were **13 Plenary and Keynote lectures**: **Dr. Debashish Bhattacharjee**, Vice President, Technology & Innovative Materials, Tata Steel; **Prof. Debes Bhattacharyya**, from Auckland University; **Prof. A. Senthil Kumar** of NUS, Singapore; **Mr N Sainathan**, Chief Composite Business, Tata Steel; **Dr. S. Ghosh Chowdhury** NML, Jamshedpur; **Dr. Fausto Tucci**, University of Salerno, Italy; **Dr. Rahul Rane**, Tata AutoComp, Pune; **Dr. Amit Salvi**, TCS Research, Pune; **Dr. Sumit Bhowmik**, NIT, Silchar; **Prof. K. Padmanaban**, VIT, Vellore; **Dr. P. Thanigaivelan**, CLRI, Chennai; **Dr. Debdulal Das**, IIST, Shilpur; **Dr. R. Hariharan** IITM, Chennai; **Dr. N. S. Karthiselva**, Carborundrum, Ernakulam, where some of the key speakers.



As part of conference two pre-conference workshops titled “Finite Element Analysis of Composite Materials with Hands-on Training” and “Fire Reaction Characteristics of Advanced Polymers and Composite Used in Building and Aviation Industry Sectors” was successfully completed on 20th and 21st Feb 2023.



To conclude the conference a Valedictory function was conducted at G.D.Naidu Hall at 3.15PM. Prof. and Head Mech Eng **Dr. M. Cheralathan**, welcomed the Dignitaries, and **Prof. Shubhabrata Datta** gave the Conference Report, Felicitation Address was given by **Dr. Amit Salvi**, Senior Scientist, TCS Research and Presidential Address by **Dr. B. Neppolian**, Dean (Research), SRM IST and finally Valedictory Address was given by **Dr. N. S. Karthiselva**, Carborundum Universal Limited, Kerala. The Best Paper Presentation Award to the participants was given by the president of the function and finally, **Dr. D. Kumaran** thanked all who were the backbone of the conference to make it a grand success.

14. Three-Days Workshop on “Design Thinking, Critical Thinking, and Innovation Design as Applied in Product Development and Academic Projects” organized on 1-3 March 2023. Coordinators: **Dr. D. Kumaran and Dr. T. Lakshmanan**
15. One day workshop on “IC Engine – Components Functionality and Manufacturability by Tear Down Analysis” was held on 10th March 2023. Association Sponsored: IE(I) Kattankulathur Local Centre, under the Aegis of Production Engineering Division & MEA, in association with the Department of Mechanical Engineering and Automobile Engineering, SRMIST, Kattakulathur. Coordinators: **Dr. M. Cheralathan and Dr. A. Vijaya.**



16. The Centre for Lean And Six Sigma (CLASS) in association with **MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDCAGRA)** successfully organized a Professional Development Programme on Integrated Management Systems covering ISO9001: QMS, ISO14001: EMS, ISO45001:OHS from 13 to 18 March 2023. Resource Persons: **Dr. Panneerselvam Ramaswamy**, Former Principal Director MSME TDC, Agra; **Dr.K.Mamallan**, Head EHS, CPCL; **Mr. Sundararaju S**, Head EHS, Hitachi Energy; **Dr. Vijayaragavan Elumalai**, Coordinator – CLASS; **Dr. Vignesh KS**, Assistant Professor, SRM IST organized this event.

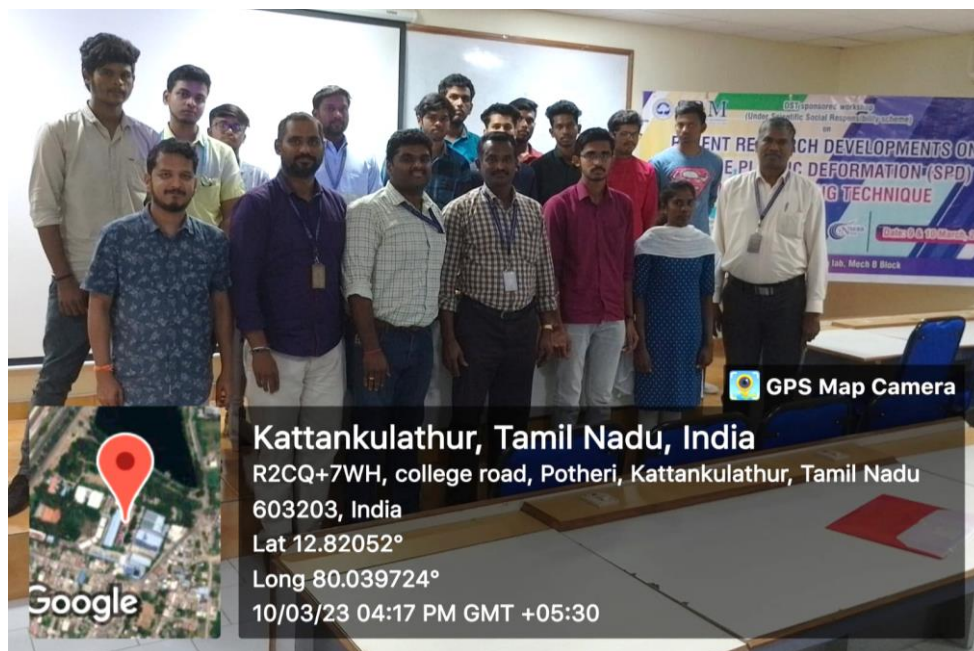


17. Best Practices of Health and Hygiene workshop was conducted on 28.3.2023 at **Govt. Middle school**, Thenmelpakkam organized by Department of Mechanical Engineering and Universal Human Value Cell, SRMIST, Kattankulathur. Association Involved: SESI – Student Chapter. Coordinators: **Dr. I. Infanta Mary-Priya** & **Dr. R. Senthil**.



18. Two-days **DST Sponsored Workshop** (Under the Scientific Social Responsibility scheme) on “Recent Research Developments on Severe Plastic Deformation (SPD) Metal Forming Technique” organized by the

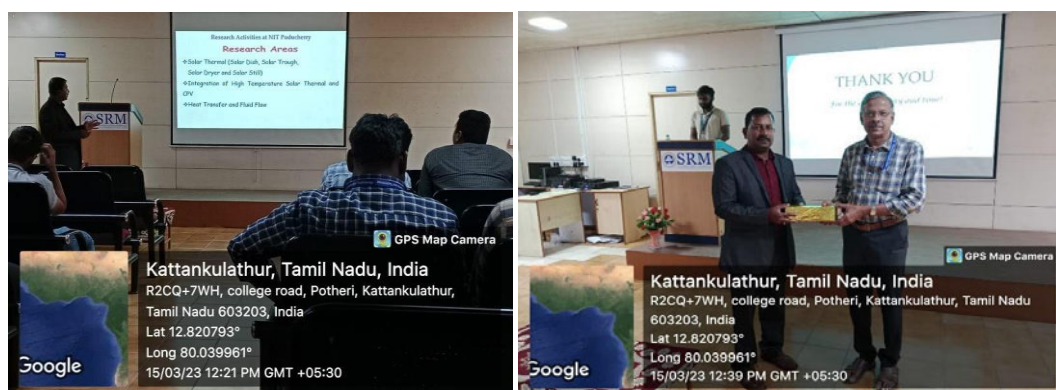
Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur - 603203. Chengalpattu (DT), Tamil Nadu, India, on 9th and 10th March 2023. Convenors: **Dr. U. Mohammed Iqbal** and **Dr. R. Murugesan**. Coordinators: **Dr. J. Santhakumar** and **Mr. S. Muralidharan**.



19. A special guest lecture on "Project Work and How to prepare students for Industry Ready" was arranged on 13/03/2023. Resource persons: **Mr. Rajan Ramanathan - Sr. National Expert: ACMA- UNIDO-DHI.** **Mr Deena Sekhar - Counsellor / ACMN-UNOOD-DHI.** Coordinators: **Dr. M. Cheralathan, Dr. D. Premnath, Dr. E. Vijayaragavan** and **Dr. G. Balaji**.



20. A special guest lecture on the topic "Issues and Challenges in Concentrating Solar Power (CSP) systems" was arranged on 15/03/2023. Resource person: **Dr. Sendhil Kumar Natarajan**, Associate Professor, Department of Mechanical Engineering, Dean (Research & Consultancy), National Institute of Technology, Puducherry. Association involved: **ISHRAE and MEA**. Coordinators: **Dr. M. Cheralathan, Dr. D. Premnath, Dr. R. Senthil** and **Dr. V. Thirunavukkarasu**.



21. A special guest lecture on the topic “Solar cooling and Heating for Buildings” was arranged on 17/03/2023. Resource Person: **Dr. V. S. Vigneswaran**, Post-doctoral fellow, SRM university, Andhra Pradesh. Association involved: ISHRAE. Coordinators: **Dr. M. Cheralathan, Mr. A. Sathiskumar, Dr. R. Santhanakrishnan, Dr. P. Ganeshkumar, Dr. P. Sundaram.**
22. An FDP on “Biomechanics and its Applications” was organized jointly with the Department of Biomedical Engineering, SRMIST on 13-18 March 2023. Coordinators: **Dr. P. Susai Manickam** and **Dr. E. Vijayaragavan.**
23. A Thirty-hours of Certificate Course on CNC Programming and Simulation was organized for the Valliammai Polytechnic students from 16-03-2023 to 20-03-23 at the Machine shop, Department of Mechanical Engineering, SRM IST, Kattankulathur. Convenors: **Dr. M. Cheralathan, Dr. U. Mohammed Iqbal.** Coordinators: **Dr. A. Arul Jeya Kumar, Dr. K. S. Vignesh, Mr. S. Shakthivel, Dr. J. Santhakumar, Mr. V. Veeranath** and **Mr. D. Nithyanandhan.**





24. **Tech Quiz League 2.0** was conducted on the 13th and 14th of March, 2023 by the Mechanical Engineering Association. The quiz was open to all Second year Mechanical Engineering students. On 13th and 14th the topics were Thermal and Manufacturing respectively, there were two rounds conducted on each day. The students were instructed to form groups of 4 to 5 members. Each quiz had 15 MCQs and 5 Subjective type questions. The quiz was conducted successfully.



25. **Dr. Shubhabrata Datta, Dr. M. Cheralathan, Dr. U. Mohamed Iqbal, Dr. P. Nandakumar, Dr. Deepan Bharathi Kannan, Dr. M. Kamaraj and Dr. S. Karuppudaiyan** visited **SEDAXIS** on 28.3.2023 at VIT Chennai Campus. One day workshop on “Efficiently Identifying Project Research Problems through Literature Surveys” was organized by IE(I) Student chapter, Mechanical Division on 29/3/23. Coordinators: **Dr. A. Vijaya, Dr. R. Senthil and Dr. D. Premnath.**



26. The **Students counselling** cell of the Mechanical Engineering department organized a wellness program exclusively for the Third year B.Tech Mechanical Engineering students, which constitutes practices of asanas, pranayama and meditation on 17th to 19th April 2023. Resource Person: The trainers from Heartfulness Institute, Chennai.



27. The Centre for Lean And Six Sigma (CLASS) and iTrack Solutions organized Lean Six Sigma Green and Black Belt Certification in partnership with International Council for Quality, USA during 15, 16, 22, 23, 29 & 30 April 2023. Two industrial experts and nine students from SRM IST attended this certification. Resource Persons: **Mr. Vinothkumar Rajendran**, Co-founder iTrack Solutions and **Mr. Balachandar Sathananthan**, Chief Operating Officer at PQLS.



28. The Mechanical Engineering Alumni Association hosted **Mr. Manoj Kumar** Scientific Advisor - Sigetech Embedded and Robotics Solutions Private Limited and Senior Research Assistant at **Singapore University of Technology and Design** interacted with the students and shared his experience in the design of Reconfigurable Robots on 17 April 2023. Also, he shared his journey from a student to an entrepreneur.



29. Mechanical Engineering Association organized an event Archetype Erudition for “Advanced workshop on Solidworks”. The event Archetype Erudition was conducted on 23rd and 24th of April, 2023. This was a two-day workshop organized for all the students of Mechanical Engineering Department to advance their knowledge in [Solidworks](#) designing software.



30. Team of students from SRM IST headed by **Dr. E Vijayaragavan** exhibited their products and also served as volunteers at the Eighth Edition of the Reinventing The Future promoted by Aditya Birla Group and organized by Pro MFG Media at **IIT Madras Research Park** on 10 May 2023.



31. The Indian Society for Quality Student Chapter was inaugurated on 13/May/2023 in the Department of Mechanical Engineering at SRM Institute of Science and Technology, Kattankulathur by **Dr. Rajkumar Swaminathan**, President - REVL Rane Engine Valves Limited; **Mr. Raajkumar** B. Sr. General Manager - TAFE Tractors and Farm Equipment Limited; **Mr. KN Gopalakrishnappa**, Head Quality based Management - CEAT Tyres Limited; **Mr. L Murali**, Assistant Vice President (Process and Quality Assurance), Equitas Small Finance Bank; **Mr. N Palani**, Head – Quality, Nexteer Automotive India Private Limited.





32. A team of faculty headed by **Dr. E Vijayaragavan** visited **Valeo India Private Limited**, Navalur to initiate collaborative works in the fields of Hardware, Software, and Mechanical domains on 22 May 2023.



33. A one-day "**Train the Trainers**" program was conducted by SIEC of SRM IST at Intellect Design Arena, School of Design Thinking, Siruseri, on May 23, 2023. During the program, **Dr. Kumaran D (Assistant Professor)**, **Dr. Lakshmanan T (Professor)**, **Ar. Anoop Menon (School of Architecture and Interior Design)**, and **Dr. Sachikanta Nanda (Department of Civil Engineering)** served as mentors for the participants. Additionally, **Dr. Dr. Anbu Rathinavel** (Chief Design Officer), **Dr. Ramakrishnan V** (Design Thinker), and **Dr. Ramakrishnan R** (Senior Faculty) at School of Design Thinking were responsible for organizing and conducting the event. They guided the participants during presentations and clarified nuances while refining their understanding of the fundamentals of Design Thinking and the appropriate usage of tools employed in their presentations. The program witnessed the active participation of 28 faculty members from various departments of both KTR and Tiruchy campuses. Esteemed faculty such as **Dr. Balaji G (Associate Professor)**, **Dr. Saravanakumar R (Assistant Professor)**, **Dr. Shravan Kumar C (Research Assistant Professor)**, and **Mr. Vamsi Krishna Dommeti (Assistant Professor)** were among the attendees.
34. The Department of Mechanical Engineering at SRM Institute of Science and Technology, Kattankulathur, hosted a highly acclaimed DST SERB Sponsored High-End Workshop (**Karyashala**) from 15 May 2023 to 22nd May 2023. The event commenced with a warm welcome address delivered by Prof. Rajendran, Head of Automobile Engineering. **Dr. Jitendra Kumar Katiyar**, the event organizer, then provided an insightful overview of the workshop's theme, emphasizing the importance of sustainability for society and exploring various strategies to achieve it. The event was graced by the presence of the esteemed Chief Guest, **Dr. P Sampathkumaran**, Retd. Joint Director CPRI Bangalore. The participants hailed from prestigious institutions including IIT Madras, IIT Tirupati, NIT Pondicherry, NIT Andrapradesh, MNNIT Allahabad, SASI

Institute Maharashtra, MADI Cap University Indore, VNIT Nagpur, KPR Institute, Arunai Engineering College, Crescent University, among others. Prof. D. Kingsly Jeba Singh, Chairperson of the School of Mechanical Engineering, delivered a comprehensive Presidential Address, shedding light on the department's expertise and the significance of tribology in the field. Dr. P Sampathkumaran, in his Chief Guest address, expressed his belief that the workshop would greatly benefit students in their careers. He highlighted the growing importance of tribology in the industry and highlighted a case study related to a thermal power plant. The workshop further offered three planned industrial visits to Gulf Oil, Apollo Tyres, and TVS Sundaram Brake Lining, allowing participants to gain practical insights into industry advancements and requirements. Additionally, hands-on sessions and demonstrations were scheduled to introduce attendees with the mechanisms in the Tribology Lab and NRC Facilities. Eminent speakers from renowned institutions such as IITs, NITs, IIITDMs, and private universities were invited to deliver lectures during the workshop. Event organizer: **Dr. Jitendra Kumar Katiyar**, Coordinators: **Dr. P. B. Sethupathi**, **Dr. Santosh Kumar Singh**, and **Dr. R Murugesan**.



35. **Dr. I. Infanta Mary Priya** coordinated "AICTE 5 days offline in-house FDP on UHV - II" organized by SRMIST from 30.5.2023 to 3.6.2023.
36. **Dr. A. Vijaya** organized the Multidisciplinary project exhibitions for B. Tech UG program for AY22-23 on May 9th, 2023, at the University building ground floor lobby.
37. A team of faculty visited **THERMAX - Heating Division**, office at MRC Nagar, Chennai, on 28th June 2023 and interacted with the officials on: Mutual Collaboration between Thermax and SRMIST; higher

education / Certification program for Thermax employees; Internship for UG/PG/PhD candidates; Placement opportunities. Faculty visited: **Dr. P. Chandrasekaran; Dr. T. Lakshmanan; Dr. E. Vijayaragavan; Dr. G. Balaji.**



15. Honours and Awards

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1. **Mr. S. Oliver Nesa Raj** completed his Ph.D. public viva-voce oral examination on 19th January 2023 Research topic: “Experimental Investigations on Slicing behaviour and Surface Texturization of Single Crystal Silicon”. Research supervisor: Dr. S. Prabhu.
2. **Mr. S. Vignesh** completed his Ph.D. public viva-voce oral examination on 13th March 2023 Research topic: “Experimental Investigation and Optimization Studies on Effects of Nano Cutting Fluids in End Milling Process using MQL Technique”. Research supervisor: Dr. U. Mohammed Iqbal.
3. **Mr. R. Saravanakumar** completed his Ph.D. public viva-voce oral examination on 19th May 2023 Research topic: “Effect of Process Parameters in Underwater Friction Stir Welded Armour Grade Aluminium Alloy (AA 5083)”. Research supervisor: Dr. T. Rajasekaran.
4. **Mr. K. Gokul** completed his Ph.D. public viva-voce oral examination on 23rd May 2023 Research topic: “Effect of Industrial Waste Fly Ash on Mechanical, Wear and Drilling Behaviour of Banana Fiber Reinforced Polymer Composites”. Research supervisor: Dr. T. Rajasekaran.
5. **Mr. A. Sathiskumar** completed his Ph.D. public viva-voce oral examination on 26th June 2023 Research topic: “Experimental Study on Charging and Discharging Characteristics of Nepcm based Low Capacity Cool Thermal Energy Storage System”. Research supervisor: Dr. M. Cheralathan.
6. **Mr. B.M.S. Punniakodi** completed his Ph.D. public viva-voce oral examination on 03rd July 2023 Research topic: “Study on Thermal Performance of Latent Heat Storage Materials for Solar Thermal Systems”. Research supervisor: Dr. R. Senthil.



7. **Dr. Ganeshkumar Poongavanam**, Department of Mechanical Engineering, SRM Institute of Science and Technology, Chennai, India, In recognition of the appointment as an Editorial Board Member of American Journal of Energy Engineering (AJEE).
8. **Dr. P. Nandakumar** and **Dr. K. S. Vignesh** have been invited as Technical Expert Committee Members in the Directorate of Fire Service Govt. of Tamil Nadu.
9. **Dr. T. Rajasekaran**, acted as a Subject Expert in the Board of Studies of ARS Engineering college, Chengalpattu, held on 18.02.2023.
10. **Dr. T. Rajasekaran**, acted as a Subject Expert in the Board of Studies of Sri Sairam Engineering college, West Tambaram, Chennai held on 11.03.2023.
11. **Dr. R. Senthil** acted as a Subject Expert in the 7th Academic Council Meeting of Government College of Engineering, Bargur, Krishnagiri, held on 03.02.2023.
12. **Dr. V. Magesh** received a certificate of honour for receiving the funded project during Research Day on 28th Feb 2023 at SRMIST, KTR.
13. **Dr. R. Ambigai** received an appreciation certificate during the research day 2023 in recognition of a funded project sanctioned during the AY year 2022 – 2023.
14. **Dr. N Harshavardhana** has served as a reviewer of innovative ideas received under the INSPIRE Awards-MANAK for the year 2022-23
15. **Dr. I. Infanta Mary Priya** has obtained a certificate in recognition of her contribution to EVERGREEN journal with the review.
16. **Dr. Jitendra Kumar Katiyar** appointed as reviewer of innovative ideas received under the INSPIRE Awards-MANAK for the year 2022-23
17. **Krishnaprasad S Menon** and **R. Ambigai**, won Best paper award for the paper titled “Analysing the Lubricating properties of Zinc Dialkyl Dithio Phosphate (ZDDP) additive on Neem Seed oil as an Green lubricant” in 2nd International Conference on Recent Advanced Composite Materials (ICRACM’23), 22nd to 24th Feb 2023@ SRM University, Chennai.
18. **Dr. Sumit Pramanik** received TWO Best Paper Awards in ICRACM 2023, Issued by the CCAM, Mech. Eng., SRMIST, KTR.
19. **Dr. Jitendra kumar Katiyar** has been appointed as an External Examiner for Ph.D viva voce examination at Faculty of Technology, D D University, Nadiad.
20. **Dr. S. Prabhu** Acted as technical session chair in the “4th International Conference on Internet of Things (ICIOT 2023), organized by the Department of Computing Technologies, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India during April 26-28th, 2023.
21. **Tanmay Pharlina, Raghv Garg** received Best B.Tech Project Award for the Academic year 2021-22 in the titled “Design and Development of Multipurpose Robotic End Effector using Fuzzy Logic Analysis” from Department of Mechanical Engineering, SRMIST, 12th January 2023. Guide: Dr. S. Prabhu
22. **Ms. Vigneswari Gowri** received Best Poster Presentation award for the project entitled “Virtual health monitoring – A robot based approach”, from M.Tech Robotics, Department of Mechanical Engineering, SRMIST, 12th January 2023. Guide: Dr. S. Prabhu
23. **Ms. Bhanu Priya** received Gold medal for the presentation of the paper entitled “Study on the effect of prolonged smartphone usage and its associated visual fatigue” at Research Day 28th Feb 2023 SRMIST, Kattankulathur. Guide: Dr. S. Murali
24. **Ms. Bhanu Priya** received Best poster presentation award for the “Maximum Voluntary Contraction Measurement at Upper Extremity Muscles” paper in Dr. Paarivendhar Research Colloquium held between March 29-31, 2023, SRMIST, Kattankulathur. Guide: Dr. S. Murali



16. Fund Received for Project/Event

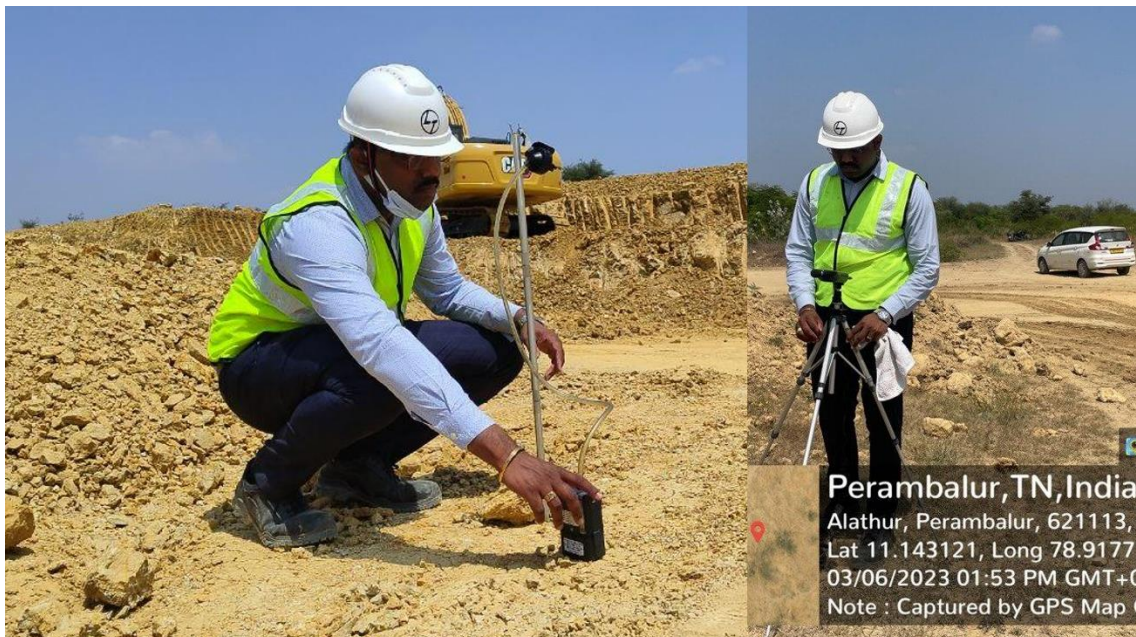
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1. **Dr. V. Magesh** (PI) and **Dr. P. Harikrishnan** (CO-PI) have been sanctioned with funded research work on "Development of Controlled Force Orthodontic Debonding System" by **SERB-CRG** for Rs. 6,55,883/-.
2. **Dr. D. Siva Krishna Reddy** has been sanctioned with funded research work on "Effect of Blockage and Wall Correction Methodology on Scaled Models at Sub-Sonic Mach Numbers" by **ISRO - VSSC** for Rs. 22,94,480/-.
3. **Dr. Jitendra Kumar Katiyar** has received Rs 5 Lakh as Financial Assistance from Science & Engineering Research Board (**SERB**) for organizing a successful High-End Workshop (Karyashala) on Industrial Tribology: Towards Sustainable Approach. (File Number: AV/KAR/2022/0740)
4. Wan Nazwanie Wan Abdullah, Mohamad Nasir Mohamad Ibrahim and **G. Balaji** have been sanctioned with a research fund of Rs 7,00,000/- (RM 38900) under the **SATU** scheme by Universiti Sains Malaysia to work on "A Synthesis of Biodiesel from Spent Bleaching Earth (SBE) Using SBE Supported Catalyst".
5. **Dr R. Ambigai** and **Dr Shubhabrata Datta** have obtained a grant for organising the "International Conference on Recent and Advanced Composite Materials" which is going to be held from 22nd to 24th Feb 2023 from CSIR of Rs.30,000/-
6. **Dr. S. Murali** is one of the project members, a project has been sanctioned with funded research work on "Development of algorithms for predicting stress, fatigue, blood pressure, and drowsiness using electrocardiogram signals while driving, sleeping, and walking" by Sewon Intelligence, **South Korea** for Rs. 18.5 Lakhs. Duration: March 20, 2023 to January 20, 2024 (10 months). PI: Prof. Seung Nam Min, Dongyang University, South Korea
7. **Dr. S. Murali** is one of the project members, a project has been sanctioned with funded research work on "Research on the development of product technical standards for semiconductor process equipment." by **Korea** Occupational Safety & Health Certification Institute (KOSHA), South Korea for Rs. 41.6 Lakhs. Duration: May 10, 2023 to November 30, 2023 (6 months). PI: Prof. Seung Nam Min, Dongyang University, South Korea

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17. Consultancy Project

1. **Dr. K. S. Vignesh** has obtained a consultancy project on Safety Assessment Study in Mine Industry from UltraTech Cements Pvt. LTD for a worth of Rs. 10,00,000/-.



2. **Dr I. Infanta Mary Priya** and A. Umapathy have initiated the consultancy work on "New Design to reduce oil leakage in the plunger of semi-automatic injection molding machine" for AM Components LLP, Chennai to the worth of Rs 10,000/-.

18. Project Proposal Submitted

1. **Dr R. Ambigai** (PI) and **Dr S. Prabhu** (Co-PI) submitted a project proposal on “Elucidating Machining Mechanisms of Functionally Graded Al-CNT Composites by Experimental Investigation and Statistical Analysis” under **SERB-Core Research Grant**, for Rs.4,80,000/- on 17th Feb 2023, File Number: 182023001349.
2. Dr. Moola Mohan Reddy, Curtin University, Malaysia as a PI, **Dr. S. Prabhu**, Dr.Lim chye Ing, Abdul Hamid Bin Abdullah, Sivaraman Easwaran as a Co-PI Submitted the collaborative research work titled “Robot Based Virtual Health Monitoring System Using Machine Learning Approach” under Fundamental research grant scheme(FRGS), Ministry of Higher education, Malaysia, Total Cost= Rs.24,18,000/-(RM 131600) for the period of 3 years June 2023. Application ID:465196, Submitted on 1st Dec.2022.
3. **Dr. Jitendra Kumar Katiyar** (PI) CRS Project Proposal on Tribo-corrosion and Mechanical Performance of Nanocomposite Thermal Barrier Coating for Reactor Application, UGC-DAE Consortium for Scientific Research, Rs. 10.89 Lakh. (File Number: CRS/2022-23/1236).
4. **Dr. T. Rajasekaran** (PI), **Dr. V Thirunavukkarsu** (Co-PI) submitted a project proposal on “Degradation testing and life assessment of materials in challenging environments” under SERB-GE Grant, for Rs.45,69,000/- on 31st May 2023, File Number: FIR/2023/000041.
5. **Dr. S. Murali** (PI), **Dr. R. Senthil Kumar** (CO-PI), and **Dr D. Thiagarajan** - Raghav Physiotherapy & Advanced Rehabilitation Centre submitted a project proposal on “Development of Wireless Surface Electromyogram (sEMG) Sensor Setup for Muscle Activity Measurement” under DST – Technology Development Programme (TDP) for Rs. 8.80 Lakhs on 26th June 2023. File Number: DST/TDT/BDTDC/2023/637

19. Journal Publications

1. **Punniakodi, Banumathi Munuswamy Swami**, and **Ramalingam Senthil**. "Enhanced heat transfer in a phase change energy storage with helical tubes." Journal of Energy Storage 58 (2023): 106352. SCIE; IF:8.907; Q1
2. **Sundaram, P.**, A. Kalaiselvane, **A. Sathishkumar**, **Poongavanam GaneshKumar**, Sung Chul Kim, and Rajendran Prabakaran. "Synthesis, stability, and heat transfer behavior of water and graphene nanoplatelet-based nanofluid for cool thermal storage applications." Journal of Energy Storage 64 (2023): 107219. SCIE; IF:8.907; Q1
3. **Praveena, V.**, Femilda Josephin Joseph Shobana Bai, Dhinesh Balasubramanian, Yuvarajan Devarajan, Fethi Aloui, and Edwin Geo Varuvel. "Experimental assessment on the performance, emission and combustion characteristics of a safflower oil fueled CI engine with hydrogen gas enrichment." Fuel 334 (2023): 126682. SCIE; IF:8.035; Q1
4. **Thangavel, Venugopal, Balaji Subramanian, and Vinoth Kumar Ponnusamy**. "Investigations on the effect of H2 and HHO gas induction on brake thermal efficiency of dual-fuel CI engine." Fuel 337 (2023): 126888. SCIE; IF:8.035; Q1
5. Muthukumar, K., and **G. Kasiraman**. "Downcycling of one-time used plastic waste to DICI engine combustion energy through pyrolysis with less NOx emission." Process Safety and Environmental Protection (2023). SCIE; IF:7.8; Q1
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20. Patent Granted

1. **P. Karthikeyan**, Sumit Pramanik. 'An Apparatus and Methods for Thermomechanical Testing'. Indian Patent Application 202041026312, filed on June 22, 2020, and Published on July 03, 2020. Grant Number: 424924 on March 13, 2023. (Indian Patent). Applicant: SRMIST, Kattankulathur.
2. **S. Manikandan**, C. Selvam, Pavan Sai Praful. Indian Patent Application 201841028136, filed on July 26, 2020, and Published on August 03, 2020. Grant Number: 414411 on December 12, 2022. (Indian Patent). Applicant: SRMIST, Kattankulathur.
3. Pon Bharathi, **I. Infanta Mary Priya**, N. Umamaheswari, Sandip Ghosh, Brijesh Sathian, Anvar Shathik, Renisha P S. "IoT Based Sand-Water Separating Machine for Irrigation". Date of Registration July 23, 2022. Date of Issue: March 10, 2023. Design No.: 368199-001

21. Patent Published/Filed

1. K. Muthukumar, R. V. Sabariraj, **G. Kasiraman**. "Fuel From Agricultura Low Density Poly-Ethylwene (LDPE) Plastic Waste For Machinerics and Power Generators". Patent Application: 202241065316, filed on November 15, 2022, and Published on November 25, 2022. (Indian Patent)
2. R. V. Sabariraj, K. Muthukumra, **G. Kasiraman**. "Production of Biodiesel from Ziziphus Mauritiana Seed Oil for Diesel Engines Applications". Patent Application: 202241065314, filed on November 15, 2022, and Published on November 25, 2022. (Indian Patent)
3. **Murali Subramaniyam** and D. Bhanu Priya. "A Non-Invasive Electromyography (EMG) System". filed November 14, 2022, Application Number: 202241065099. Published on November 18, 2022 (Indian Patent). Applicant: SRMIST, Kattankulathur.
4. S. Premkumar, **G. Balaji**, **R. Senthil Kumar**. "An Apparatus for Treating Exhaust Gas and A Process for Manufacturing the Apparatus". Patent Application: 202241069311, filed on December 01, 2022, and Published on December 30, 2022. (Indian Patent). Applicant: SRMIST, Kattankulathur.
5. S. Sambath, N. Anbazhaghan, **T. Lakshmanan**. "Design of Reliable Fire Detection System". filed March 11, 2023, Application Number: 202341016372. Published on March 17, 2023 (Indian Patent).

6. **S. Prabhu**, Vigneshwari Gowri, M. Uma. "An Autonomous Mobile Robot System Monitoring Emotional and Physical Health Parameters and A Method Thereof". filed April 17, 2023, Application Number: 202341027942. Published on May 05, 2023 (Indian Patent). Applicant: SRMIST, Kattankulathur.

22. Book Edited/ Book Chapter Published

1. Ramnaath, Mounika D, **Murali Subramaniyam**, Seung Nam Min, "Measurement of Spine Curvature using Flexicurve Integrated with Machine Vision," In: Tareq Ahram and Christianne Falcão (eds) Human Factors and Wearable Technologies 29 (2022): ISBN: 978-1-958651-05-6. <http://doi.org/10.54941/ahfe1001477>
2. Seung Nam Min, Jungnam Im, **Murali Subramaniyam**. "Analyzing Korean Reading Course and Designing Education-A Focus on Learner's Eye-Tracking Analysis." In: Salman Nazir (eds) Training, Education, and Learning Sciences 59 (2022). ISBN: 978-1-958651-35-3 <http://doi.org/10.54941/ahfe1002417>

23. Guest Lecture Delivered

1. **Dr. Jitendra Kumar Katiyar** delivered an Invited Lecture in webinar on Engineers in Society, organised by School of Mechanical Engineering, Universiti Teknologi MARA, Malaysia, 03 December 2022.
2. **Dr. Jitendra Kumar Katiyar** delivered an Invited for expert lecture in 2-Week Hands-On Workshop on Monitoring and Characterization of Metal Additive Manufacturing, M&C@MAM-2022, organized by Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur, December 05-18, 2022.
3. **Dr. Jitendra Kumar Katiyar** delivered an Invited Talk on Tribology and Industry in 21st Century in one-week Faculty Development Program (FDP) on Modern Manufacturing in Industry 4.0 (MMI-2023), National Institute of Technology Delhi, February 7-12, 2023
4. **Dr. Jitendra Kumar Katiyar** delivered an Invited for an expert lecture on Concepts of Engineering Mechanics with Real Life Examples organised by the Department of Applied Science, Dr Ambedkar Institute of Technology for Handicapped (AITH), Kanpur, Uttar Pradesh, 21 February 2023.
5. **Prof. Shubhabrata Datta** delivered a Plenary lecture on "Computational Intelligence based design of Biomaterials" at the 28th Conference on Computer Methods in Materials Technology (KomPlasTech 2023), organized by AGH University of Science and Technology, Krakow, Poland, held during March 5 - 8, 2023, at Zakopane, Poland.
6. **Dr. U. Mohammed Iqbal** delivered a lecture on "Current Research Trends in Severe Plastic Deformation (SPD) Technique", in the two days DST Sponsored Workshop (Under the Scientific Social Responsibility scheme) on "RECENT RESEARCH DEVELOPMENTS ON SEVERE PLASTIC DEFORMATION (SPD) METAL FORMING TECHNIQUE" Organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur -603203. Chengalpattu (DT), Tamil Nadu, India, on 9th and 10th March 2023.
7. **Dr. K. S. Vignesh** has been invited from the Ministry of Home Affairs to participate the National Platform for Disaster Risk Reduction on 10-11 March 2023, New Delhi, India.
8. **Dr. K. S. Vignesh** delivered a Guest lecture on "Sensitization on Health and Industrial Safety" at Marwadi University, Rajkot, Gujarat on 19 April 2023.
9. **Prof. Shubhabrata Datta** delivered an Invited lecture on "Designing Hybrid Nano systems – An AI-based Approach" at the 7th International Conference on Nanoscience and Nanotechnology – ICONN 2023, a

Virtual Conference organized by the Department of Physics and Nanotechnology, SRM Institute of Science and Technology, held during March 27 - 29, 2023.

10. **Dr. E. Vijayaragavan** delivered a lecture on "Foot Biomechanics" to the participants of the Faculty Development Programme on Biomechanics and its Applications jointly organized by the Department of Biomedical and Department of Mechanical Engineering on 15 March 2023.
11. **Dr. V. Magesh** delivered a Guest Lecture on the topic "Dental Biomechanics" in the Faculty Development Program on Biomechanics and its applications jointly Organized by Department of Biomedical Engineering and Department of Mechanical Engineering, SRMIST on 13.03.2023.
12. **Dr. T. Lakshmanan** delivered an "Effective Teaching Learning Process and Stress Management" lecture on 11th March 2023, Anand Institute of Higher Technology - Kazhipattur, Chennai 603103.
13. **Dr. T. Lakshmanan** delivered a Guest Lecture on the topic "Types of Thinking" organized by Mechanical Department and SIIEC, SRMIST on 3rd March 2023.
14. **Dr. G. Balaji** delivered a Guest Lecture on the topic "Team work for product design and academic projects - a design thinking approach" in the Three-Days Workshop on Design thinking, critical thinking, and innovation design as applied in product development and academic project, SRMIST Kattankulathur, from 1st - 3rd March 2023.
15. **Dr. D. Premnath** delivered a Lecture on the topic "How to select the Minor/Major project based on interest", on 29th March 2023, SRMIST, Kattankulathur, Tamilnadu, India.
16. **Mr. S. Balamurugan** delivered a Guest Lecture on the topic "MEDICAL ROBOTICS" - Event Faculty development Programme on Biomechanics and its Application jointly Organized by. Department of Bio Medical Engineering and Department of Mechanical Engineering, SRMIST, Kattankulathur on 13-18 March 2023. Chennai, Tamilnadu, India.
17. **Dr. Jitendra Kumar Katiyar** delivered a Technical Talk in the Topic The Impact of Tribology on the Society for Sustainable Development: An Overview organized by the Department of Civil and Mechanical Engineering, Sambhram Institute of Technology, Bangalore, on 06 May 2023.
18. **Dr. V. Magesh** delivered a Guest Lecture on the topic "Dental Biomechanics" in National Academic immersion Program (NAIP) Organized by Department of Mechanical Engineering on 21.04.2023.
19. **Dr. S. Murali** delivered a Guest Lecture on the topic "Human Factors and Ergonomics (HFE)" in National Academic immersion Program (NAIP) Organized by Department of Mechanical Engineering on 18.04.2023.
20. **Dr. I. Infanta Mary Priya** delivered a talk on "Brainstorming of SDG 3 for Students" organized by Directorate of Alumni Affairs, SRMIST, Kattankulathur.
21. **Dr. Jitendra Kumar Katiyar** delivered a Keynote Lecture on Tribo-Corrosion and Mechanical Analysis of Electro-deposited Nano-Composite Coating for Under Water Applications in 4th International Conference on Tribology, TURKYTRIB-2023, held from 25-27 May 2023 at MALTEPE YAŞAR KEMAL KÜLTÜR MERKEZİ, YAŞAR KEMAL CULTURAL CENTER, Maltepe-Istanbul-Turkey.

24. Conference/Research Day Presentation

1. Chiron A and **R. Senthil Kumar**, "Numerical investigation on the thermo hydraulic performance of Square cylinder with vanes on the walls for electronic cooling applications.", SRM Research Day, 28th February 2023.
2. Vashista Muralidhara Srivatsa and **R. Senthil Kumar**, "Numerical investigation on the effect of enclosure geometry on natural convection and radiation heat transfer", SRM Research Day, 28th February 2023.

3. K. Dhayanidhi and **R. Senthil Kumar**, "Numerical investigation on thermo hydraulic performance of pentagon shaped pin fin heat sinks with perforations in electronic cooling applications", SRM Research Day, 28th February 2023.
4. D. Bhanu Priya, **Murali Subramaniyam**. "Study on the effect of prolonged smartphone usage and its associated visual fatigue" at Research Day 28th Feb 2023 SRMIST, Kattankulathur.
5. D. Bhanu Priya, **Murali Subramaniyam**. "Maximum Voluntary Contraction Measurement at Upper Extremity Muscles", in Dr. Paarivendhar Research Colloquium held between March 29-31, 2023, SRMIST, Kattankulathur.
6. M. Ramnaath, **Murali Subramaniyam**. "Wheelchair Seating Comfort Analysis", in Dr. Paarivendhar Research Colloquium held between March 29-31, 2023, SRMIST, Kattankulathur.
7. S. Vishnu, and **R. Senthil**. "Experimental investigation for selection of fin materials in Parabolic dish collector's absorber", in the International Conference on Future Technologies in Manufacturing, Automation, Design & Energy 2022 (ICOFT MADE 2022), NIT Puducherry, 14-16 Dec 2022.
8. Praveesh Ravi and **Jitendra Kumar Katiyar**. Effect of Friction Modifiers on Tribological Properties of Al/TiC Alloy Brake Composite Material, 11th International Conference on Industrial Tribology (IndiaTrib-2022), Indian Institute of Technology Delhi, December 12-14, 2022.
9. Praveesh Ravi and **Jitendra Kumar Katiyar**, Synergistic Effect of TiO₂/h- BN blended Epoxy/acrylic Nanocomposite Coating on Mild Steel for Its Tribomechanical and Anticorrosion Behaviour, 11th International Conference on Industrial Tribology (IndiaTrib-2022), Indian Institute of Technology Delhi, December 12-14, 2022.
10. K. Elangovan, **A. Arul Jeya Kumar**, **R. Senthil Kumar**, Madhur Madan, Ankit Gangishetti, M. Prakash "Influence of mineral-based nano dust particles from grinding of the automobile brake-pad on Physical and Thermal Properties of Polyimide/Basalt fiber composites" in 2nd International Conference on Recent and Advanced Composite Materials (ICRACM 2023), by the department of Mechanical engineering, SRMIST, Kattankulathur, 22-24th Feb 2023
11. Praveen, Sivareth, **I. Infanta Mary Priya** and **A. Arul Jeya Kumar** "Investigation of hybrid composites for armor applications" in 2nd International Conference on Recent and Advanced Composite Materials (ICRACM 2023) organized by Centre for Composites and Advanced Materials, Department of Mechanical Engineering, SRMIST, Kattankulathur during 22-24 Feb 2023.
12. V. Balamurali, **V. Magesh**, and P. Harikrishnan. "Stress in orthodontic stainless steel and Titanium miniscrew for varying cortical bone thickness with various insertion angles - A Finite element analysis in international conference on advancements in materials, manufacturing and automation organized by Amrita Vishwa Vidyapeetham, Chennai on 07.04.2023 to 08.04.2023
13. **K. Jegadeesan**, **R. Santhana Krishnan** and **C. Shravan Kumar**, "Simulation Study: Design, Analysis and optimization of the laminated Composite plate for fundamental frequency maximization" in the 2nd international Conference on Recent and Advanced Composite Materials (ICRACM-2023) organized by the Centre for Composite and Advanced Materials, Department of Mechanical engineering, SRMIST, Kattankulathur, Tamil Nadu, India during 22-24 Feb-2023.
14. **K. Jegadeesan**, and Shankar Krishnapillai, "Performance Evaluation of the Laminated Composite Vibration Energy Harvester using Finite Element Simulation" in the 2nd international Conference on Recent and Advanced Composite Materials (ICRACM-2023) organized by the Centre for Composite and Advanced Materials, Department of Mechanical Engineering, SRMIST, Kattankulathur, Tamil Nadu, India during 22-24 Feb-2023.
15. Hiru Purushothaman Hirudayanathan, Sujana Debnath, Mahmood Anwar and **U. Mohammed Iqbal** "Influence of the Viscosity of Nano fluids on Surface Roughness in End Milling of Nickel Alloys with

Minimum Quantity Lubrication” in MATEC Web of Conferences 377, 01007 (2023), indexed in Web of Sciences.

16. **Dr. Mohammed Iqbal U**, “Metallurgical studies on Cu-Cr-Zr alloy processed by severe plastic deformation technique” in 7th International Conference on Science, Technology, Engineering and Management (ICSTEM 23) held on April 5-6, 2023, organized by Kalaingar Karunanidhi Institute of Technology (KIT), Coimbatore, Tamil Nadu, India.
17. Nikhil Thawari, Chaitanya Gullipalli, Prayag Burad, **Jitendra Kumar Katiyar**, T. V. K. Gupta, The Parametric Investigations on Laser Cladded Stellite 6 Geometry using Experimentation and Response Surface Methodology, 4th International Conference on Tribology (TURKEYTRIB-2023), Maltepe-İstanbul-TURKEY, 25-27 May 2023.
18. T V V L N Rao, **Jitendra Kumar Katiyar**, Utpal Barman, Ahmad Majdi Abdul Rani, Alessandro Ruggiero and Patrick J Masset, An Overview of Biomimetic Surfaces in Tribology, 4th International Conference on Tribology (TURKEYTRIB-2023), Maltepe-İstanbul-TURKEY, 25-27 May 2023

25. Events Attended /Online Courses Completed

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1. **Mr. D. Raja** attended online Programme on BIOMECHANICS OF JOINTS AND IMPLANTS from 22.08.2022 to 19.10.2022 organized by NPTEL-AICTE.
2. **Dr. E Vijayaragavan** participated in the Toyota Best Practices Seminar on LEAN MANAGEMENT organized by Toyota Kirloskar Motor Private Limited on 14 October 2022.
3. **Dr. Premkumar N**, attended Faculty Development Program on RECENT INNOVATION AND FUTURISTIC SCOPE IN ADVANCE MANUFACTURING TECHNOLOGY: INTEGRATION OF ROBOTS, IOT DEVICES AND COMPUTER VISION from 14.11.2022 to 19.11.2022 organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai.
4. **Dr. A. Vijaya** attended one day offline workshop on ELIMINATION OF VIOLENCE AGAINST WOMEN AT WORKPLACE held on 25/11/22 organized by Internal Committee, SRM Institute of Science and Technology, Kattankulathur.
5. **Nandakumar P, E. Muthu** and **K. Jegadeesan** attended symposium on NATIONAL SYMPOSIUM ON VIBRATIONS: MODELLING AND MEASUREMENTS held on 26.11.2022 organized by Department of Mechanical Engineering, IIT Madras. Chennai.
6. **Mr S Ponsankar** attended workshop on ANSYS SOFTWARE PHYSICAL TRAINING from 01.12.2022 to 02.12.2022 organized by Department of Mechanical Engineering at SRMIST, KTR.
7. **Dr. G. Balaji** attended a 5-day online FDP on INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION from 05.12.2022 to 09.12.2022 organized by All India Council for Technical Education.
8. **Dr. P. Chandrasekaran**, attended FDP on INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION organized by AICTE from 05.12.2022 to 09.12.2022 in online mode.
9. **Dr. P. Sudhakar** from S.R.M. Institute of Science and Technology, Chennai has participated and successfully completed the 5-day Online FDP on the theme INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION organized by All India Council for Technical Education (AICTE) from 05th December to 09th December 2022.
10. **Dr. R. Ambigai**, Completed FDP on MACHINE LEARNING FOR REAL WORLD APPLICATIONS AND RESEARCH DIRECTONS WITH PROGRAMMING SKILLS conducted by Department of Mechanical Engineering College of Engineering and Technology SRM IST, from 5th Dec. to 10th dec 2022.

11. **Dr. D. Kumaran** and **Mr. J. Daniel Glad Stephen** attended a Six-day FDP on "Machine Learning for Real World Applications and Research Directions with Programming Skills" from 05.12.2022 to 10.12.2022, organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, KTR Campus.
12. **Mr. S. Oliver Nesa Raj** attended PROFESSIONAL DEVELOPMENT PROGRAMME (PDP) on SMART MANUFACTURING from 12-12-2022 to 16-12-2022 organized by National Institute of Technical Teachers Training & Research, Chennai.
13. **Dr. D. Kumaran**, **Mr. Vamsi krishna dommeti** and **Mr.V.Raghavendra Rao** attended a Seven-day FDP on PROGRAMMING FOR PROBLEM SOLVING from 15th Dec. 2022 to 21st Dec. 2022, jointly organized by the School of Computing, KTR Campus and CODETANTRA.
14. **Dr. A. Vijaya** attended five days' workshop on the theme INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION organized by All India Council for Technical Education (AICTE) from 19th December to 23rd December 2022.
15. **Mr. K. Jegadeesan** participated in the five days Faculty Development Programme on ADVANCED MATERIALS PROCESSING AND CHARACTERIZATION METHODS organized by Department of Mechanical Engineering and Department of Physics, National Institute of Technology Puducherry from 26-12.2022 to 30-12-2022
16. **Mr. R. Saravanakumar** attended PROFESSIONAL DEVELOPMENT PROGRAMME on COMPUTER INTEGRATED MANUFACTURING held on 9th-13 January 2023, organized by NITTR-Chennai.
17. **Dr. E Vijayaragavan** attended the online faculty development programme on ADVANCED TRENDS IN MATHEMATICAL MODELLING organized by the Department of Mathematics, Easwari Engineering College from 09th to 13th January 2023.
18. **Dr. E Vijayaragavan** attended the Two days upskilling workshop on THE ART OF EFFECTIVE MENTORING: A SUSTAINED MODEL organized by the Directorate of Alumni Affairs, SRM Institute of Science and Technology, during 19th & 20th January 2023.
19. **Dr. A. Vijaya**, attended two days upskilling workshop on THE ART OF EFFECTIVE MENTORING: A SUSTAINED MODEL from 19.1.2023 to 20.1.2023 organized by Directorate of Alumni affairs, SRM Institute of Science and Technology.
20. **Dr. E Vijayaragavan**, attended the one-day workshop on COST OF POOR QUALITY organized by the National institution for Quality & Reliability (NIQR) Chennai Branch on 28 January 2023 at Universal Engineers Chennai (P) Limited, Ambattur, Chennai 600098.
21. **Dr. E Vijayaragavan** has attended the one-day workshop on HEALTHCARE SYSTEMS ENGINEERING, Data Analytics and Lean Six Sigma organized by the Centre for Lean and Six Sigma (CLASS) on 08 February 2023 with Prof. Mohammad T Khasawneh.
22. **Dr. I. Infanta Mary Priya** has participated and successfully completed the 6-day Online UHV-II FDP organized by the All-India Council for Technical Education (AICTE) from 13th February to 18th February 2023.
23. **Dr. Senthil R** from S.R.M. Institute of Science and Technology, Chennai has participated and successfully completed the 6-day Online UHV-II FDP organized by All India Council for Technical Education (AICTE) from 13th February to 18th February 2023.
24. **Dr. D. Premnath** from S.R.M. Institute of Science and Technology, Chennai has participated and successfully completed the 6-day Online UHV-II FDP organized by All India Council for Technical Education (AICTE) from 13th February to 18th February 2023.

25. **Dr. A. Vijaya** attended one day workshop on E CONTENT DEVELOPMENT ON TEACHING AND LEARNING PLATFORMS held on 16.02.2023 organized by Department of Networking and Communications, SRMIST, KTR
26. **Dr. P. Ganesh Kumar** attended Six Days Online International Faculty Development Program on INNOVATIONS IN ENGINEERING DESIGN AND MANAGEMENT (FDP IEDM 2023) from 20th to 25th February 2023. Department of Mechanical Engineering, Alliance College of Engineering and Design, Alliance University, Bengaluru - 562106.
27. **Mr. A. Sathishkumar** attended six days online International Faculty Development Program on INNOVATIVE IN ENGINEERING DESIGN AND MANAGEMENT from 20.02.2023 to 25.02.2023 organized by Department of Mechanical Engineering, Alliance College of Engineering and Design, Alliance University, Bengaluru.
28. **Dr. P. Sundaram**, attended six days online International Faculty Development Program on INNOVATIVE IN ENGINEERING DESIGN AND MANAGEMENT from 20.02.2023 to 25.02.2023 organized by Department of Mechanical Engineering, Alliance College of Engineering and Design, Alliance University, Bengaluru.
29. **Deborah Serenade Stephen** attended NPTEL FDP on QUALITY CONTROL AND IMPROVEMENT WITH MINITAB" held from 22nd Feb 2023 to 26th April 2023. organized by AICTE.
30. **Dr. S. Karuppudaiyan**, attended two days' workshop on PROMOTING ACADEMIC RESEARCH FOR JOURNAL PUBLICATION, PATENT AND FUNDING PROPOSAL, from 23.02.2023 to 24.02.2023.
31. **Dr.G.Balaji** participated in the Two Days' Workshop on PROMOTING ACADEMIC RESEARCH FOR JOURNAL PUBLICATION, PATENT AND FUNDING PROPOSAL, SRMIST, February 2023.
32. **Mr. I. Aatthisugan** attended Two days' workshop on PROMOTING ACADEMIC RESEARCH FOR JOURNAL PUBLICATION, PATENT AND FUNDING PROPOSAL from 23-02-2023 to 24-02-2023 organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur.
33. **Dr. R. Ambigai** attended Two days' workshop on PROMOTING ACADEMIC RESEARCH FOR JOURNAL PUBLICATION, PATENT AND FUNDING PROPOSAL from 23-02-2023 to 24-02-2023 organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur.
34. **Dr. D.Premnath** attended Five day online Faculty development MODELLING OF THERMAL SYSTEMS AND THERMAL MANAGEMENT OF ELECTRIC VEHICLES USING CYCLE TEMPO Organized by School of Mechanical sciences, Vellore Institute of technology, Chennai between 04/03/2023 to 01/04/2023.
35. **Mrs. Deborah Serenade Stephen** attended an FDP on INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION held from 6.3.2023 to 10.3.2023 organized by the AICTE
36. **Dr. V. Praveena** attended INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION UHV1 held from March 6-10th, 2023 organized by AICTE.
37. **Mr. I. Aatthisugan** attended the workshop on RECENT RESEARCH DEVELOPMENTS ON SEVERE PLASTIC DEFORMATION (SPD) METAL FORMING TECHNIQUE from 9-3-2023 to 10-3-2023 organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur.
38. **Mr. Joji Johnson** attended Indo-German Workshop on DEVELOPMENTS IN ESTABLISHED AND EMERGING PHOTOVOLTAIC TECHNOLOGY (DEEPT-2023) held on 13 - 15th March organized by Department of Physics and Nanotechnology & Department of Chemistry at SRM IST.
39. **Dr. E Vijayaragavan** attended the Faculty Development Programme on BIOMECHANICS AND ITS APPLICATIONS from 13 to 18 March 2023 jointly organized by the Department of Biomedical and Department of Mechanical Engineering, SRM IST Kattankulathur.

40. **Mr. S. Balamurugan** attended an FDP on the topic BIOMECHANICS AND ITS APPLICATION jointly Organized by. Department of Bio Medical Engineering and Department of Mechanical Engineering, SRMIST, Kattankulathur on 13-18 March 2023. Chennai, Tamilnadu, India.
41. **Dr. E Vijayaragavan** attended the Professional Development Programme on INTEGRATED MANAGEMENT SYSTEMS ISO 9001:2015(QMS), ISO 14001:2015(EMS) & ISO 45001:2018(OH&SMS) from 13 to 18 March 2023 jointly organized by the Centre for Lean and Six Sigma (CLASS), Department of Mechanical Engineering, Directorate of Alumni Affairs and the MSME Technology Development Centre - PPDC Chennai Extension Centre.
42. **Dr. V. Magesh** and Dr. E. Vijayaragavan attended FDP on INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION held from 17.03.2023 to 19.03.2023 organized by All India Council for Technical Education (AICTE) at SRM Institute of Science and Technology, Kattankulathur.
43. **Dr. M Prakash** attended FDP on INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION held on 17 March 2023 to 19th March 2023 organized by the All-India Council for Technical Education (AICTE) at SRM Institute of Science and Technology, Kattankulathur.
44. **Dr Premkumar N**, attended 3-day Face-to-Face Faculty Development Program on the theme INCULCATING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION from 17th March to 19th March 2023.organized by All India Council for Technical Education (AICTE) at SRM Institute of Science and Technology, Kattankulathur.
45. **Dr. E Vijayaragavan** participated in the two days up-skilling workshop on THE ART OF EFFECTIVE MENTORING: CONTEMPORARY MODELS FOR SUSTAINABLE MENTORING PHASE - II organized by the Directorate of Alumni Affairs, SRM Institute of Science and Technology during 20 & 21 March 2023.
46. **Mr. Joji Johnson** attended FDP on ENERGY AND ENVIRONMENTAL MANAGEMENT held from 17/04/2023 to 21/04/2023, organized by the Department of Mechanical Engineering, NITTTR CHENNAI.
47. **Mr. Sivasankar M** attended FDP on ENERGY AND ENVIRONMENTAL MANAGEMENT held from 17/04/2023 to 21/04/2023, organized by the Department of Mechanical Engineering, NITTTR CHENNAI.
48. **Mr. E Muthu** attended ASME MECHANICAL ENGINEERING EDUCATION SUMMIT (MEEd) India 2023 as a part of the ASME Innovation Weekend India held during 01 & 02 April 2023 at PES University, Bengaluru.
49. **Dr. V. Praveena** attended 6-days Online UHV-II FDP organized by All India Council for Technical Education (AICTE) from 10th April to 15th April 2023.
50. **Dr. S. Murali** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
51. **Dr. A. Vinoth** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
52. **Mr. V. Veeranaath** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
53. **Mr. S. Arul Kumar** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
54. **Mr. N. Arun** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.

55. **Mr. S. Arun** Prasath attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
56. **Mr. S. Senkathir** attended five-days FDP on ARTIFICIAL INTELLIGENCE – PHASE II conducted by Department of Computational Intelligence, School of Computing, SRM IST, Kattankulathur from May 2nd to May 8th 2023.
57. **Dr. E Vijayaragavan** along with the students participated and exhibited their projects at the Eighth Edition of the REINVENTING THE FUTURE supported by Aditya Birla Group and organized by ProMFG media at IIT Madras Research Park on 10 May 2023.
58. **Mr. Sivashankar** attended the WEBINAR ON HYDROGEN FUEL CELL SYSTEMS offered by ISIEINDIA in as a part of industry-oriented skill-based education program, on 20/05/2023 organized by ISIEINDIA.
59. **Dr. Premkumar N**, attended Faculty Development Program on FACULTY REFRESHER AND ASSIMILATION PROGRAMME (FRAP) from 22.05.2023 to 23.05.2023, organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai
60. **Dr. Kumaran D** has attended a one-week FDP on DATA SCIENCE FOR NON-CSE from 22.05.2023 to 26.05.2023, organized by Department of Data Science and Business Systems, School of Computing, SRM IST, KTR camps.
61. **Dr. Kumaran D** has attended a one-day TRAIN THE TRAINERS program was conducted by SIIEC of SRM IST at Intellect Design Arena, School of Design Thinking, Siruseri on May 23, 2023.
62. **Dr. R. Ambigai** has completed the counsellors training on TRAIN THE TRAINERS for the duration of 24 weeks organized by the Department Counselling Cell, CET, SRM IST.
63. **Mr. J Daniel Glad Stephen** completed a MOOC course on RAPID MANUFACTURING in NPTEL.
64. **Dr M Prakash** attended the workshop on DESIGN THINKING, CRITICAL THINKING, AND INNOVATION AS APPLIED IN PRODUCT DEVELOPMENT AND ACADEMIC PROJECTS organized by Department of Mechanical Engineering, SRMIST, Kattankulathur.
65. **Mr. J. Daniel Glad Stephen** attended FDP on RAPID MANUFACTURING organized by NPTEL-AICTE.
66. **Dr. D. Premnath** has completed a two days workshop on "Curricula Design and Development" on 2.5.2023 & 3.5.2023 organized by Directorate of learning and development as a part of SRMIST-IEEE-PURDUE EPICS program.

26. Outreach Activities

1. **Dr. R. Senthil** reviewed 45 manuscripts in the Journal of Cleaner Production, Energy Conversion and Management, Journal of Building Engineering, Renewable Energy, Journal of Energy Storage, Energy Nexus, Sustainability, Energies, Journal of Marine Science and Engineering, Symmetry, CFD Letters, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Coatings, Frontiers Energy Research and Heliyon. Journal of Energy Storage, Heliyon, Part-C: Journal of Mechanical Engineering Science, Clean Energy, Evergreen, Sustainability, ASME Journal of Thermal Science and Engineering Applications, Cybernetics and Systems, International Journal of Ambient Energy, Thermal Science, and RSC Advances.
2. **Dr. D. Siva Krishna Reddy** reviewed a technical article for the MDPI Atmosphere journal.
3. **Dr. I. Infanta Mary Priya** acted as Judge for "Brainstorming of SDG 3 for Students" organized by Directorate of Alumni Affairs, SRMIST, Kattankulathur on 25.4.2023
4. **Dr. P. Chandrasekaran** reviewed an article for Energy Journal, Elsevier Publications.
5. **Dr. I. Infanta Mary Priya** has been nominated as an evaluator for UGC Research Schemes on 20.01.2023.
6. **Dr. U. Mohammed Iqbal** acted as a reviewer for DST-SERB by reviewing four proposals submitted to DST-SERB Core Research Grant under Mechanical & Manufacturing Engineering & Robotics domain during the month of November and December 2022.
7. **Dr. U. Mohammed Iqbal** acted as a reviewer for UGC to evaluate the research proposal for research scheme - Dr. D. S. Kothari Research Grant for Newly Recruited Faculty Members.
8. **Dr. T. Rajasekaran**, acted as Journal reviewer on "Proceedings of the Institution of Mechanical Engineers Part D: Journal of Process Mechanical Engineering" SCI journal
9. **Dr. T. Rajasekaran**, acted as Journal reviewer for a couple of articles for " Biomass Conversion and Biorefinery" SCI journal
10. **Dr. T. Rajasekaran**, Arranged summer internship for 5 of third year mechanical engineering students for the duration of 15 days at M/s Wonjin autoparts India Pvt Ltd, Maraimalai nagar in the month of June 2023.
11. **Dr. I. Infanta Mary Priya** acted as Journal reviewer on "Proceedings of the Institution of Mechanical Engineers Part E: Journal of Process Mechanical Engineering" SCI journal
12. **Dr. I. Infanta Mary Priya** acted as a Journal Reviewer on "The International Journal of Environment and Climate Change"
13. **Dr. I. Infanta Mary Priya** coordinated "AICTE 3 days offline Inhouse FDP on UHV - I" organized by SRM Institute of Science and Technology, Kattankulathur, Chennai, from 17 - 19th March 2023.
14. **Dr. U. Mohammed Iqbal** chaired a session in the 2nd International Conference on Recent and Advanced Composite Materials (ICRACM 2023), organised by the department of Mechanical engineering, SRMIST, Kattankulathur, on 22-24th Feb 2023
15. **Dr. D. Siva Krishna Reddy** reviewed a technical article for SAE international conference.
16. **Dr. D. Siva Krishna Reddy** obtained Life Membership in "The Indian Society for Technical Education" with ID LM-136219.
17. **Dr. I. Infanta Mary Priya** reviewed articles in Journal of Composite materials and Journal of The Institution of Engineers (India): Series D during June 2023.
18. **Dr. P. Ganesh Kumar** reviewed 4 manuscripts viz. Energy, International Communications in Heat and Mass Transfer and Journal of Water Process Engineering.

27. Upcoming Event

The Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, is organising the **5th edition of International Conference on Advances in Mechanical Engineering, 'ICAME 2024', during March 20-22, 2024.**

The objectives of ICAME 2024 are:

- To promote research and developmental activities in Mechanical Engineering.
- To promote scientific information exchange among the academicians, researchers, developers, engineers, students, and practitioners working around the world.

All are cordially invited to be a part of the 5th International Conference on Advances in Mechanical Engineering to be held in physical mode during 20-22 March 2024. This conference focuses on a range of issues but not limited to:

Solid Mechanics, Structural, Thermal, Energy (SDG-7), Alternate refrigerants with low GWP and ODP (SDG-11 & 13). Energy efficient buildings and green architectures (SDG-9 & 11), Manufacturing, Aerospace, Composites and Advanced Materials, Mechatronics, Robotics and Control, Micro and Nano Heat transfer, Thermal management in Electric Vehicles (SDG- 11), Biomechanics and health (SDG-3), Industrial Applied Mechanics (SDG-11), Electricity and Water Pumping with Wind Energy (2&12), Multidisciplinary and Emerging Areas of Engineering.

Tentative list of Journals for publication of selected papers which are under communication:

- Materials and Manufacturing Processes
- Energy Sources Part A: Recovery, Utilization and Environmental Effects (Taylor & Francis)
- Heat Transfer Engineering
- Materials Today
- Springer Lecture Notes in Mechanical Engineering

Conveners: **Dr. M. Cheralathan;**

Co-Conveners: **Dr. K. Suresh Kumar, Dr. Shubhabrata Datta, Dr. P. Nanda Kumar, Dr. U. Mohammed Iqbal**

Contact: Dr. R. Senthil, Dr. E. Vijayaragavan, Dr. C. Selvam

Conference Website: <https://www.srmist.edu.in/events/icame-2024/>

28. Resonance Editorial Board



Dr. M. Cheralathan
Editor in Chief
Professor & Head,
Department of Mechanical Engineering,

FACULTY MEMBERS



Dr. P. Nandakumar
Professor



Dr. S. Murali
Associate Professor



Dr. D. Kumaran
Assistant Professor



Dr. A. Sathish Kumar
Assistant Professor

STUDENT MEMBERS



Final Year
Mr Shahank. B
(IV Year B. Tech)
RA1911002010146



Third Year
Mr Rahul Chandran
(III Year B. Tech)
RA2011002010034



Second Year
Ms Kajal Singh
(II Year B. Tech)
RA2111054010015



First Year
Mr R. Vedeshwar
(I Year B. Tech)
RA2211002010088



SRM

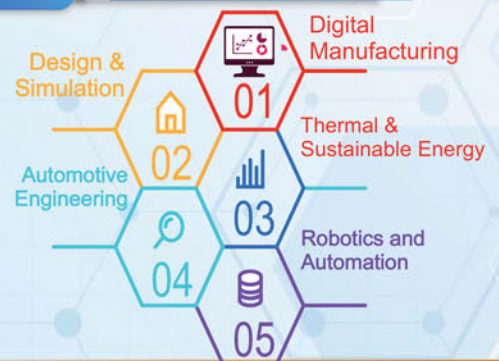
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur Campus

DEPARTMENT OF MECHANICAL ENGINEERING

“Get a head start on your career and start with the best”

Our program offers five tracks of specialization which lead to careers in cutting-edge technologies



About the program

B. Tech. Mechanical Engineering Program offered at Kattankulathur campus is accredited by



The National Board of Accreditation (NBA) for six years

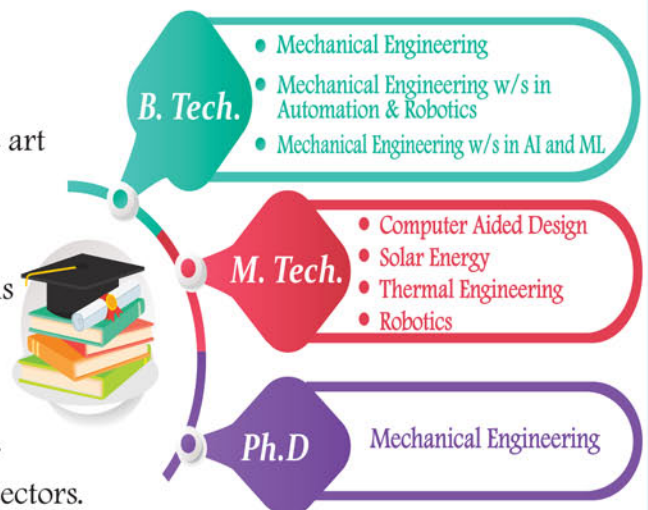


The Engineering Accreditation Commission of ABET, <https://www.abet.org>

ABOUT THE DEPARTMENT

- One of the leading departments established in 1985.
- Funded by DST-FIST for Biomechanics Research.
- World class laboratories and R&D Centers with state of the art Software & Hardware.
- Center of excellence in materials and manufacturing in collaboration with leading industries.
- Experienced faculty members specialized in all the domains of mechanical engineering.
- MoUs with leading national & international industries & institutions.
- Mandatory internship & industrial training to the students.
- Excellent placement records with premier industries & IT Sectors.

PROGRAMS OFFERED



Stipend for all PG & Ph.D Programs*

Global Recognition



In-House Industrial Training Centres



Thermax



SRM-WABCO



SRM-ZOLLER



SRM-

Student Teams & Awards



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Muffle Furnace



Ball Mill



Tubler Furnace



Machine Shop



CNC Machine



Robotics



Metallurgy Lab



Thermal Lab



Coordinate Measuring M/c



360 Degree Career opportunities



Automotive



Aerospace



Mechatronics



Biomedical



MEMS



Energy Conversion



Environmental Control

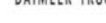


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- **Indo German** - 3 years in SRMIST and final year at a German University
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- **GTP** - Global Transfer Program two years in SRMIST and two years in a Foreign Institution

Professional Body Membership



ADMISSION CONTACT

<https://www.srmist.edu.in/admin-india/>

admissions.in@srmist.edu.in

Department Website Link:

<https://www.srmist.edu.in/departments/departments-of-mechanical-engineering/>

(044) 27 45 510, 47 437 500

Department of Mechanical Engineering, SRM Institute of Science & Technology,
Kattankulathur Campus - 603 203, Chennai, Tamil Nadu, India.





SRM

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Kattankulathur Campus

Department of Mechanical Engineering

Programs Offered

About the program

B. Tech. Mechanical Engineering Program offered at Kattankulathur campus is accredited by



The National Board of Accreditation (NBA) for six years



The Engineering Accreditation Commission of ABET,
<https://www.abet.org>

B. Tech.

- Mechanical Engineering
- Mechanical Engineering w/s in Automation and Robotics
- Mechanical Engineering w/s in AI and ML

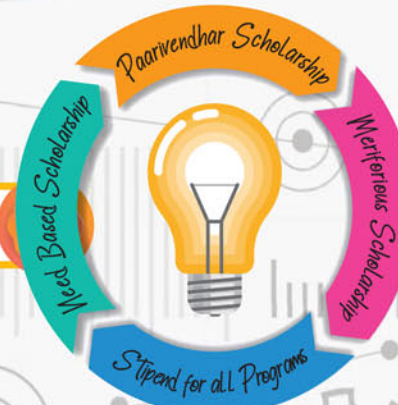
- Computer Aided Design
- Solar Energy
- Thermal Engineering
- Robotics

M. Tech.

Ph.D

- Mechanical Engineering

Scholarships



ADMISSION CONTACT

Department of Mechanical Engineering,
SRM Institute of Science & Technology,
Kattankulathur Campus,
Chennai - 603 203

(044) 2745510, 47437500
admission.in@srmist.edu.in
www.srmist.edu.in/admin-india/

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Professional Memberships



SAEINDIA
Society of Automotive Engineers INDIA



ASME
SETTING THE STANDARD
SRM STUDENT SECTION





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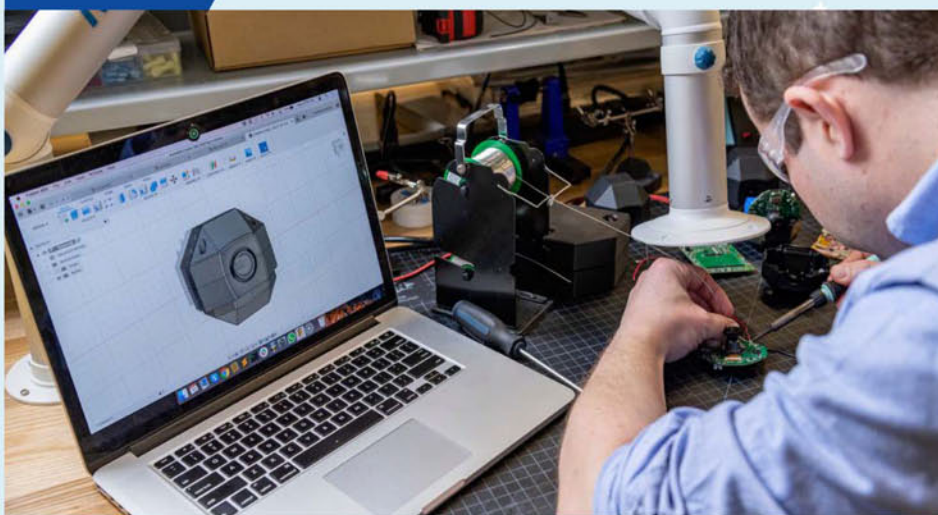
M.TECH. **CAD**

COMPUTER AIDED DESIGN

Offered by

The Department of Mechanical Engineering

The Post Graduate (PG) programme in M.Tech. CAD is being offered by the Department of Mechanical Engineering since year 2000. This programme prepares students for design and development positions in industry, R&D institutes, and to pursue doctoral research to strengthen their professional career and build better society through innovative solutions to existing and challenging engineering problems. Students in this programme are trained in latest software used in industries. The programme is designed as an interdisciplinary one, focussing on real-time industry projects with experiential-learning. Research activities at the department level includes design analysis & synthesis at system level, assembly planning and automation, optimization, Bio-Mechanics, Rapid prototyping, VR, and AR, to name a few.



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Collaborative Research
Industry Funded research

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Industry project and courses
Teaching Associate (Rs.8000/-)

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Ph.D. holders
Subject experts
Impact Factor Publications
Patents applied and granted
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Funded projects

+ Higher studies

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& Ph.D. programmes

+ MoUs

MoUs with centres like NIFDD
1 year training at NFTDC (stipend)

+ Placements

Placement in industries
Opportunities for start-up

Some Important Labs:

Computer Aided Design Lab
Product Design and Development lab
Rapid Prototyping
Bio-Mechanics Lab
Programming Lab
Materials Processing Lab
Tribology and Surface Interaction Lab

HIGHLIGHTS

- ★ NAAC "A++" grade
- ★ MHRD nirf Ranking
- ★ QS I-GAUGE Diamond rated Institute,
- ★ 5 stars for Teaching Employability and Inclusiveness.
- ★ I-GAUGE: Indian College & University Rating, Diamond Rated

Stipend*: 12,400/- per month

* for candidates who get through SRMJEE

Diamond Rated



**Limited
Number of
Seats: 20 Nos.**

For details visit:

www.srmuniv.ac.in

<https://qr.go.page.link/A4mKC>



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SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
College of Engineering and Technology
Department of Mechanical Engineering,
Kattankulathur Campus

M.Tech in Robotics (2Years)

With specialized elective streams

- Machine Learning
- Autonomous System
- Robot Vision
- Mobile / Nano Robot

Stipend for M.Tech. Programme:
INR.12,400/- per month*

(*for candidates who get through SRMJEE)

About the Institutions

SRM Institute of Science and Technology (Formerly known as SRM University) is one of the top ranking Institutions and premier engineering destinations in India. It was established in 1985 by the Founder Chancellor, Dr. T. R. Paarivendhar. SRMIST has been categorized as a grade 'A' Institution by the Ministry of Human Resource Development (MHRD), Government of India. SRMIST was accredited by NAAC with an 'A++' Grade in 2018.

About the Department

The Department of Mechanical Engineering is one of the pioneering departments of SRMIST. The department offers B.Tech in Mechanical Engineering and B.Tech in Mechanical Engineering with a specialization in AI&ML (Artificial Intelligence and Machine Learning). The B.Tech Mechanical Engineering program offered at the Kattankulathur campus is accredited by the Engineering Accreditation Commission (EAC) of ABET, (<https://www.abet.org/>) and has also been accredited by NBA (National Board of Accreditation) for six years.

About the Program

The M.Tech Robotics is a postgraduate program that provides students real-time experience in industrial robots with specialized streams in Machine Learning, Artificial Intelligence, Robot Vision, Robot Sensor, Autonomous system, NLP, Mobile Robot and Nano Robot. This program has a well-organized curriculum to make students industry ready and cutting-edge facilities to satisfy the growing need for technology and manufacturing sector of the country human resources in the field of Robotics.

Eligibility

Eligibility for this M.Tech Program is a basic degree or equivalent in B.E. / B.Tech. in Mechanical Engineering / Production Engg. / Industrial Engg. / Aerospace Engineering / Automobile Engineering / Aeronautical Engineering / Mechatronics Engg. / ECE / EEE / ICE / CSE (or) AMIE (Mech) / AMAeSI (Aero) / IMechE / Any equivalent degree in the above disciplines.

Internship and Placement based on specialization:

Based on the M.Tech. Specialization, students are permitted to undergo industrial internships of (6 to 12 months) at the end of the first year. This will improve the opportunities for higher salary packages in top-notch industries.

Salient Features of M.Tech in Robotics

- Excellent infrastructure with state-of-the-art softwares and hardware laboratories
- Diversified specialization streams
- Well organized curriculum with structured course contents
- Dedicated Robotics laboratory with state-of-the-art softwares
- Placement opportunities in MNCs like ABB, KUKA, Robert Bosch, Renault, Airbus
- Potential employment opportunities in the fields of Robotics Engineering, Mobile Robotics Application Engineer, Software Robotics Engineer, etc.

DEPARTMENTAL FACILITIES (PROGRAM SPECIFIC INFRASTRUCTURE)



ABB IRB1410 Robot



ABB - IRB360 VISION BASED ROBOT

World Fastest Patented Robot Available in Our Institution

PROJECTS



IRB360 Robot with
Machine Learning Technique



Mecanum Wheeled
Collaborative Robots



Obstacle Avoidance Snake Robot



Humanoid Service Robot
for Isolated Patients

PROSPECTIVE ORGANIZATIONS FOR PLACEMENTS

FOR ADMISSIONS, CONTACT



Director(Admissions),
SRM Institute of Science and Technology,
SRM Nagar, Kattankulathur- 603203,
Chengalpattu District, TamilNadu, India.
Phone: +91-44-2745 5510, +91-4447437500.
E-Mail: admissions.india@srmist.edu.in
For further details refer: <https://www.srmist.edu.in>

SCAN ME



Department of Mechanical Engineering, Kattankulathur Campus

M.Tech in Thermal Engineering (2 Years)

with specialized elective streams in

- Electronics Cooling
- Gas Dynamics
- Renewable Energy
- Computational Fluid Dynamics

Stipend for M.Tech. Programme: INR.12,400/- per month*

(*for candidates who get through SRMJEE)

About SRMIST

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About the Program

The M.Tech Thermal Engineering program is offered with specialized streams in Electronics Cooling, Renewable Energy, Gas Dynamics, and Computational Fluid Dynamics. This program has a well-organized curriculum and cutting-edge facilities to satisfy the growing need for human resources in the field of thermal engineering.

Eligibility

Eligibility for this M.Tech Program is a basic degree or equivalent in B.E. / B.Tech. in Mechanical Engineering / Mechanical Engineering with any specialization / Aerospace Engineering / Automobile Engineering / Chemical Engineering / Computing Technologies /

Data Science & Business Systems / Electronics & Communication Engineering / Electrical & Electronics Engineering / Electronics & Instrumentation Engineering / Energy Engineering / Food Process Engineering / Instrumentation & Control Engineering / Mechatronics Engineering / Materials and Metallurgy Engineering / Physics and Nano Technology / Renewable Energy / M.Sc. (Physics) / M.Sc. (Material Science) / Any equivalent degree in the above disciplines.

Internship and Placement based on specialization:

Based on the M.Tech. Specialization, students are permitted to undergo industrial internships of (6 to 12 months) at the end of the first year. This will improve the opportunities for higher salary packages in top-notch industries.

Salient Features of M.Tech Thermal Engineering Program

- Collaboration with M/s. Intel corp., USA for Electronic cooling
- Excellent infrastructure with state-of-the-art software and hardware
- Diversified specialization streams
- Well organized curriculum with structured course contents
- Electronic cooling laboratory with state-of-the-art software
- Internship opportunities in MNCs like Intel, L&T, GE and Google
- Potential employment opportunities in the fields of Electronic cooling, energy, fluid flow analysis etc.

DEPARTMENTAL FACILITIES (PROGRAM SPECIFIC INFRASTRUCTURE)



Solar PV Power Plant



Solar Cooking Plant



Water Tunnel



Wind Tunnel



DSC Lab



Engines Lab



CFD Lab



Machines Shop



Heat Transfer Lab

Prospective Organizations for placements



SCAN ME



FOR ADMISSIONS, CONTACT

Director(Admissions), SRM Institute of Science and Technology,
SRM Nagar, Kattankulathur- 603203,
Chengalpattu District, TamilNadu, India.
Phone: +91-44-2745 5510, +91-4447437500.
E-Mail: admissions.india@srmist.edu.in For further details,
refer: <https://www.srmist.edu.in>



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College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur, Chennai-603203, Tamil Nadu, India
www.srmuniv.ac.in



Department of Mechanical Engineering M. Tech. Solar Energy (2 Years)

Stipend for M. Tech. Programme: INR.12,400/- per month*.

(*for candidates who get admission through SRMJEE)



About SRMIST

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About the Program

The M.Tech Solar Energy programme has a well-organized curriculum and cutting-edge infrastructures to provide an in-depth understanding of various solar energy technologies and power generation, both photovoltaic and solar thermal systems, to satisfy the growing need for human resources in the field of solar energy.

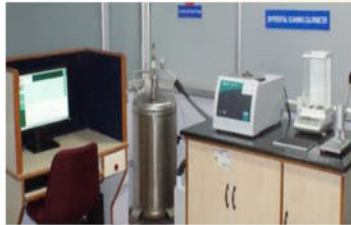
Solar Lab Facilities



Solar Concentrator Training System



Solar Thermal Training system



Differential Scanning Calorimetry Lab



CFD Lab



Solar Concentrator Test System



Solar Desalination system



Solar PV Training System



Solar PV Grid-tied System

Eligibility:

B.E./B.Tech. in Mechanical Engineering /Automobile Engineering / Chemical Engineering / Electrical & Electronics Engineering / Electronics & Instrumentation Engineering / Instrumentation & Control Engineering / Mechatronics Engineering / Materials and Metallurgy Engineering / Nano Technology / M.Sc. (Physics), M.Sc. (Material Science) (or) any equivalent degree in the above discipline.
(Admission to M.Tech. is based on SRMJEE (PG)/ GATE/ TANCET)

Salient Features:

- The students are getting hands-on experience with the Concentrated Solar collector based Solar Steam cooking plant and Solar PV power plants of a total capacity of 865 kWp on the campus to make them industry-ready.
- A semester abroad program (SAP) is an opportunity to gain international learning and work in a cross-cultural, multinational academic and research environment.
- The internship offers in reputed companies/institutes (India / overseas).
- Good Placement records in government organizations and reputed industries.

Our students are placed in the following organizations.



FOR ADMISSIONS, CONTACT

Director (Admissions), SRM Institute of Science and Technology,
SRM Nagar, Kattankulathur - 603203,
Kancheepuram District, Tamil Nadu, India. Phone: 91-44-2745 5510, 91-444743 7500.
E-Mail: admissions.india@srmist.edu.in For further details, refer: <https://www.srmist.edu.in>



 NAAC A++	  Category 1 with 12B Status	 (2022) Ranked 19 th University	 (2023) World Ranking one among 41 Indian Universities	 (2023) World Ranking one among 75 Indian Universities	 (2021) Ranked 4 th	 (2023) World Ranking one among 14 Indian Universities
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RESONANCE

Department of Mechanical Engineering

School of Mechanical Engineering
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur, Chengalpattu 603203

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