



Resonance



Newsletter of Mechanical Engineering

For private circulation only

Volume 3 | Issue 1

About the Department

The Department of Mechanical Engineering is one of the pioneering departments of SRM IST with a faculty strength of 114. As of now, there are 52 faculty members with PhD qualifications and the remaining 62 are pursuing their research. The department is functionally divided into three broad areas of specialization: (i) Design (ii) Manufacturing and (iii) Thermal Engineering. The National Board of Accreditation had accredited the Mechanical Engineering program in 1997. The B.Tech. - Mechanical Engineering program at Kattankulathur campus is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>. The department also offers M. Tech and Doctoral in various specializations. As of now, 41 full-time scholars pursue their doctoral research with the stipend of 25K. Overall, a lot of activities/achievements were witnessed including publications of 1000+ research papers, 50+ patents, 10+ research projects, and 1000+ conference paper presentations.

Message from the Chairperson, School of Mechanical Engineering



Dr. D. Kingsly Jeba Singh
Professor & Chairperson

I am happy to note that the next newsletter is ready in spite of the present pandemic situation.

During this pandemic, the Department of Mechanical Engineering has organized many webinars, faculty development programs, symposiums, etc., in addition to a few virtual conferences. A few MoUs are also signed in this period. I hope this effort will definitely enrich our environment with academic rigour required to teach the students of 21st century. In line with the present trend and requirement, this department is preparing to start a new undergraduate program with specialization in Artificial Intelligence and Machine Learning.

To make our students industry-ready, the department has collaborative activities with industries, institutions and professional bodies in addition to the intense academic curriculum with the state-of-the-art laboratories and research facilities. Industry sponsored laboratories and industry grade machineries

make it easy for the students to get training and do laboratory exercises in industry-like environment.

In the coming years, the School of Mechanical Engineering wish to place the UG and PG programs as one among the leading academic programs of our country by embracing modern pedagogy and professional practices. With our research focussed faculty members, the department will continue to carry out activities with direct social impact (renewable energy, energy storage, smart materials, and electric vehicle technology) and promote translational research.

I wish all the best for the academic, research and developmental activities in the department to achieve a greater heights.

Message from the Head of the Department

Dear Colleagues,

Greetings!

I have great pleasure and pride to announce that the Department of Mechanical Engineering is publishing the third volume of our newsletter 'Resonance'. Amidst the Covid Pandemic situation, we strived hard to keep the students engaged, and utilize the time not only for quality education and also for self-development. We are steadfast in our progress as it involved various activities that enabled the hidden talents of the department students and faculty members to be brought into light. Besides the lockdown, our faculty members are continuously attending various training programs, publishing research papers, book chapters and are also working on getting patents.

Our department has been conducting seminars / conferences to keep the faculty and students abreast with the latest developments in the field of technical education. All efforts were focused to improve the quality of education and to maintain the department's position of leadership in Engineering and Technology. At the outset, I would like to thank all the faculty and staff members who have been a great support and contributing exemplarily well.

This newsletter is the reflection of department activities which showcases all the events held in the department, contribution of faculty members, students and the best practices adopted. I would like to congratulate all the members of the editorial board for their sincere effort to realize this venture.



Dr. M. Cheralathan

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Ph.D., Awarded

1. **Mr. R. Murugesan** successfully completed Ph.D public viva-voce oral examination on 17th February 2021 at SRM Institute of Science and Technology, Kattankulathur, Chennai. Title: Experimental study on influence of ball milling and surface treatment of CNTs on microstructure and tribological behavior of AI-CNT nanocomposites.
2. **Mrs. V. Praveena** successfully completed Ph.D public viva-voce oral examination on 22nd March 2021 at SRM Institute of Science and Technology, Kattankulathur, Chennai. Title: Experimental Study to Reduce Nitric Oxide Emission using in-cylinder and Post Combustion Strategies in a Compression Ignition Engine.
3. **Mrs. R. Ambigai** successfully completed Ph.D public viva-voce oral examination on 09th April 2021 at SRM Institute of Science and Technology, Kattankulathur, Chennai. Title: Experimental Investigation on Mechanical and Tribological Properties of Conventional and Functionally graded Al-Si matrix composites reinforced with Si₃N₄ particulate.
4. **Mr. P. Sudhakar** successfully completed Ph.D public viva-voce oral examination on 12th April 2021 at SRM Institute of Science and Technology, Kattankulathur, Chennai. Title: Experimental Investigation on Thermal Performance Enhancement of Solar Dryer.

Patent Granted

1. **I. Infanta Mary Priya, R. Senthil, T. Lakshmanan**, T. Maridurai, N. R. Sheela, T. Magesh, M. Karthick, D. M. Madhuvanesan, M. Karthigairajan, S. Arun, S. Kaliappan, V. Balaji. Design for Parabolic Solar Panel Control System with Viper. Published on 25/03/2021, Publication Number: 2020103825, (Australia Patent). **Granted**.
2. P. Prabhu, G. Ramesh, V. C. Uvaraja, J. Stephen Leon, S. Ganesh, S. Sarojini Mary, **I. Infanta Mary Priya, R. Senthil**, K. Ravikumar, S. Manikandan, B. Geetha, V. Alfred Franklin. Development of Advanced Multi Agent System with Mobile Robot for Control Strategy. Published on 28/01/2021, Publication Number: 2020103439, (Australia Patent). **Granted**.

Patent Published

1. **R. Senthil Kumar**, Shaik Subhani [Passed out M.Tech. Solar energy], A Device for Natural Convection Heat Transfer in an Enclosure. Published on 01/01/2021, Publication Number: 202041055442.
2. **R. Senthil Kumar**, Shaik Subhani [Passed out M.Tech. Solar energy], A System and A Method for Effective Heat Transfer in a Laminar Flow. Published on 26/02/2021, Publication Number: 202041057239.
3. **R. Senthil Kumar**, Amit Varakhedkar [Passed out B.Tech. Mechanical] and Ahin Honymon [3rd Year B.Tech. Mechanical], A Square Cylinder Bluff Body. Published on 26/02/2021, Publication Number: 202041055229.
4. Jitendranath Mungara, S. Muthukumar, Manoj Sharma, Pooja Singh, Nandhagopal S Munusamy, Ram Shringar Raw, Gaurav Tripathi, **J. Santhakumar**, Ambica Prakash Mani, Aradhana Saini, Gaurav Dhuriya, Nirdhum Narayan. Advance Face Mask for Covid-19 Protection using Artificial Intelligence with Integrated Quality and Proximity Detection. Published on 11/06/2021, Publication Number: 202141024950.

Industrial Project Obtained / Consultancy Project

1. Project title: Finite Element Analyses on the Probable Influencing Factors for the Subsidence of Cervical and Lumbar Cages. **SINTX Technologies, USA** – a leading manufacturer of silicon nitride. Fund: **USD 3000/-**. PI: **Prof. Shubhabrata Datta**. Members: **Dr. Sandipan Roy; Mr. D. Raja; Mr. Susai Manikam**.

Funded Research – Proposal Accepted

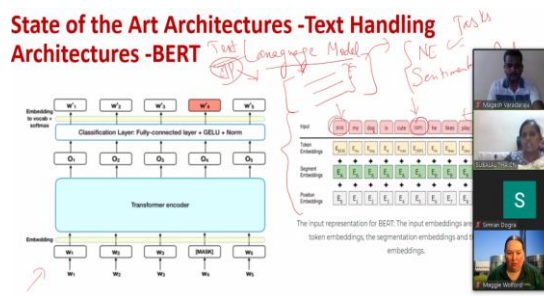
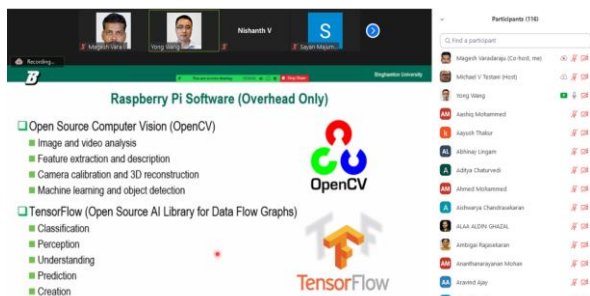
1. **Dr. S. Prabhu** as the Principal Investigator and Mr. JRV Saikiran as the Co- Investigator submitted the project titled “Experimental studies on the ABB IRB 1410 Robot Nano spray painting”, was accepted for Selective Excellence Initiatives 2021, at SRMIST, (Fund : Rs.4,00,000/-) on 22nd June 2021
2. **Dr. S. Prabhu** as the Principal Investigator and Mrs. Deborah Serenade Stephen as the Co- Investigator submitted the project titled “Novel grinding tool for grinding hard metal”, was accepted for Selective Excellence Initiatives, at SRMIST, (Fund: Rs.4,00,000/-) on 22nd June 2021.
3. **Dr. M. Prakash** as the Principal Investigator submitted the project “The Melt Flow Analysis on Polymers Composites Using Fused Filament Fabrication”, was accepted for Selective Excellence Initiatives, at SRMIST, (Fund: Rs.1,00,000/-) on 22nd June 2021 for the procurement of Low-cost 3D Printing Machine.
4. **Dr S Manikandan** as the Principal Investigator, **Mr. Joji Johnson** as the Co- Investigator submitted the project titled “A novel bifacial photovoltaic thermal system for enhanced solar drying application” was accepted for Selective Excellence Research Initiative 2021, at SRM IST (Fund: INR 2,00,000/-; Duration: 2 Yrs)
5. **Dr. C. Selvam** as the Principal Investigator, **Dr. S. Manikandan** and **Mr. M. Sivashankar** as the Co- Investigators submitted the project titled “Thermal management of concentrated photovoltaics using nano enhanced phase change materials” for Selective Excellence Initiatives 2021, at SRMIST (Fund: INR- 200000; duration 3 yrs).
6. AICTE-ATAL FDP program on Thrust area of "Robotics- Recent Trends In Industrial Robot Programming and Applications With Hands on Training" was approved by the AICTE. Convener - **Dr. S. Prabhu / Dr. S. Murali**. (Application No.1614160603 & Approved Budget Rs. 93000/-). The event scheduled during December 6th -10th 2021.

Funded Research – Proposal submitted

1. **Dr. D. Siva Krishna Reddy** submitted project proposal on the title “Effect of blockage and wall correction methodology on scaled models at sub sonic Mach Numbers” to VSSC, ISRO [Budget: Rs.22,0,8000/-; Duration- 1.5 yrs.
2. **Dr. S. Murali, Dr. S. Prabhu, Dr. M. Uma**, submitted project proposal on the title “Assessment of Physical and Cognitive Consequences of Fatigue Induced due to Prolonged Usage of Smartphones among Adolescents using High-resolution Time-Frequency Methods and Machine Learning Algorithms” to SERB under Core Research Grant CRB/2021/000474 (Budget: Rs. 28,21,500/-; Duration: 3 years)
3. **Dr. S. Prabhu, Dr. M. Uma, Dr. S. Murali**, submitted project proposal on the title “Experimental Investigation on Surface Characteristics analysis of Robot Nano Painting using Carbon Nanotubes with Machine Learning Approach” to SERB under Core Research Grant CRG/2021/000062 (Budget: Rs. 30,85,655/-; Duration: 3 years)
4. **Dr. M. Prakash, Dr. A. Arul Jeya Kumar, Dr M. Kamaraj** submitted project proposal on the title “The Melt Flow Analysis on Polymers Composites Using Fused Filament Fabrication” to SERB under Core Research Grant Reference No.: CRG/2021/006951 (Budget: Rs. 31,47,100/-; Duration: 3 years) for the procurement of Twin Screw Extruder.
5. **Dr. U. Mohammed Iqbal, Dr. R. Murugesan** submitted project proposal on the title “A Novel SPD Technique for processing Magnesium-Gadolinium rare earth alloy for aerospace applications” to SERB under Core Research Grant CRB/2021/000499 (Budget: Rs. 12,00,000/-; Duration: 3 years)

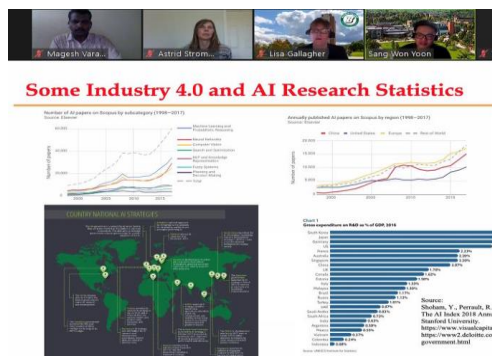
MOU Signed and Activities

1. A MoA signed between SRMIST and The State University of New York at Binghamton, New York USA was established for a 3.5 + 1.5 Program in October 2020. The Department of Mechanical Engineering is one of the department collaborated with Binghamton University through this MoA. To initiate this collaboration, School of Mechanical Engineering and School of computing in association with Binghamton University Thomas J. Watson College of Engineering and Applied Science have organized webinar series on “**Technologies of the Future**” from 30.03.2021 to 07.05.2021. The eminent speakers Dr. Yong Wang, Dr. Sang Won Yoon, Dr. Daehan Won from Binghamton University and Dr. Shubhabrata Datta and Dr. Subalalitha CN from SRMIST were shared their expertise. In total 790 students and faculty attended and interacted with subject experts. The participation certificates were issued by the Binghamton University, USA. Faculty Champion: **Dr. V. Magesh**



Autonomous systems by Dr. Yong Wang, Assistant Professor, Department of Systems Science and Industrial Engineering, Watson School of Engineering and Applied Science, Binghamton University, USA on 30.03.2021

Deep learning for Agriculture applications by Dr. Subalalitha CN, Associate Professor and Dr. K. Dhanasekaran, Assistant Professor from CSE, SRMIST on 15.04.2021.



A digital transformation in Electronics manufacturing using IoT, AI and ML by Dr. Sang Won Yoon, Professor, Department of Systems Science and Industrial Engineering, Watson School of Engineering and Applied Science, Binghamton University, USA on 23.04.2021.

Machine Learning in Materials Design by Dr. Shubhabrata Datta, Research Professor, Mechanical/SRMIST on 28.04.2021.



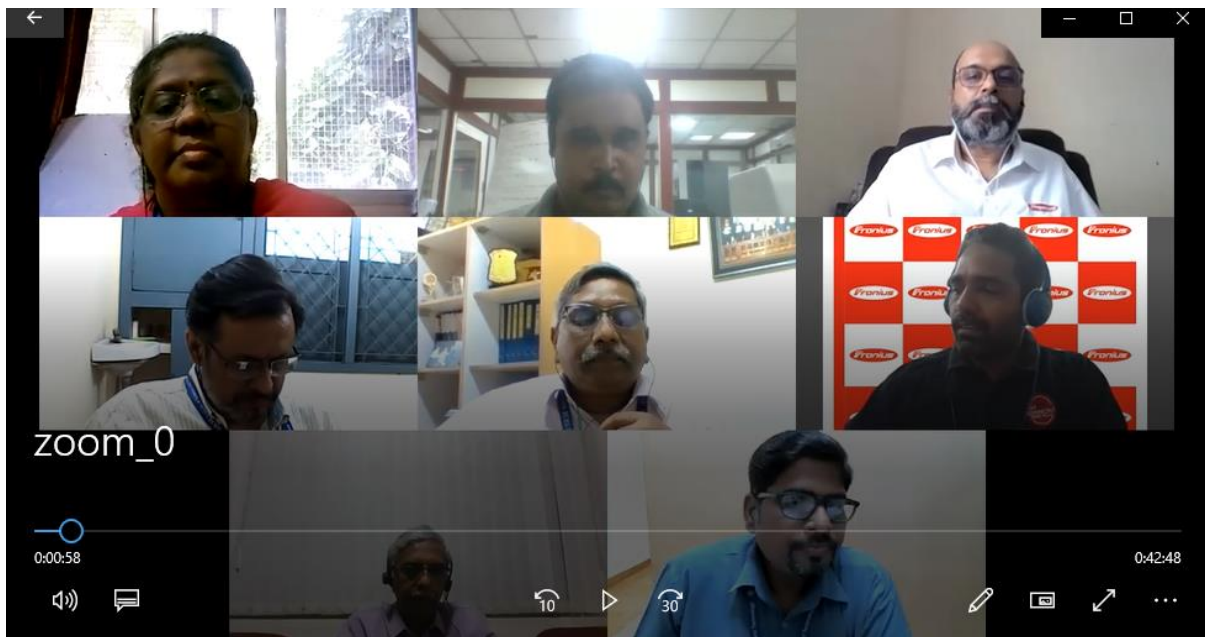
Machine Learning in Healthcare applications by Dr. Daehan Won, Professor, Department of Systems Science and Industrial Engineering, Watson School of Engineering and Applied Science, Binghamton University, USA on 07.05.2021.

2. A MoU signed between **SRMIST** and **Shinsung University, South Korea** on February 11, 2021.
Scope of MoU: Development of educational curricula in compliance with the mission statements of both universities via an exchange of human, academic, and material resources. Faculty Champion: **Dr. S. Murali**



For Kick-off Meeting on MoU (Institute-Institute Interaction) conducted on July 09, 2021. Prof. T. V. Gopal, Dean CET; Prof. Kartar Singh; Prof. D. Kingsly Jeba Singh, Chairperson, SME; Prof. M. Cheralathan, Head/Mech, from SRMIST & Prof. Hwang Kwang Mo, Chairperson, International Relationship Office, Prof. Jung Tae Young, Director, Information Support Center, Prof. Seung Nam Min, Head of Evaluation Team from Shinsung University, South Korea were participated in the meeting.

3. A MoU signed between SRMIST and **M/s Fronius India Pvt Limited** on April 8, 2021.
Faculty Champion: **Dr. N. Harshavardhana**.
Scope of MoU: To intensify the interactions between industry and academic institute in the field of welding automation. To promote & popularize new/latest welding processes and technologies amongst students, faculty and practicing engineers from industry. To encourage and popularize research and development in the field of welding automation amongst graduate and post graduate engineering students & Ph.D scholars. To enhance the quality of skill development in the field of welding and automation by adopting innovative teaching, training ware & learning platform jointly.



For Kick-off Meeting on MoU (Institute-Institute Interaction) conducted on July 28, 2021. Prof. D. Kingsly Jeba Singh, Chairperson, SME; Prof. M. Cheralathan, Head/Mech, Dr. Mohammed Iqbal, Manufacturing Division head, Dr. Shubhabrata Datta, Dr. Infanta Mary Priya and Dr. N. Harshavardhana from SRMIST & Mr. Sasianand Parthasarathy, Zonal Manager and Mr. Praveen Shankar, Regional manager-Chennai from M/s Fronius India Pvt Limited were participated in the meeting.

Farewell for the Staff Members



A farewell function was arranged in our department of mechanical engineering to our non teaching staff members for their retirement on 30th July 2021. The staff members are **Mr. D. S. Francis carvalho** (Machine shop), **Mr. S. Ganasen** (machine shop), **Mr. R. Nagarajan** (Sheetmetal lab), **Mr. S. Prabhakaran** (Carpentry lab), **Mr. P. Kuppan** (Carpentry lab). All of them were worked more than 25 years in SRM IST, KTR campus. To honour their service rendered, the function was graced and presided by **Prof. T.V. Gopal** (Dean CET), **Prof. M. Leenus Jesu Martin** (Director campus life), **Prof. D. Kingsly Jeba Singh** (Chairperson - School of Mechanical), **Prof. M. Cheralathan** (Head of the department).

Journal Publication [Faculty and Students]

1. **Kumar, Abburi Lakshman**, and **M. Prakash**. "The effect of fiber orientation on mechanical properties and machinability of GFRP composites by end milling using cutting force analysis." *Polymers and Polymer Composites* (2021): 0967391121991289. IF: 2.0
2. **Vijayaragavan, E.**, Kartik Vijay, and Amoolya Pratap Singh. "Design of an automatic sliding rack for injection moulding machine". *IOP Conference Series: Materials Science and Engineering*, vol. 988, no. 1, p. 012083. IOP Publishing, 2020. SNIP 0.484
3. **Dodla, Srihari**, Kushal J. Kirpalani Idnani, and Arjun Katyal. "Finite element machining simulations of aerospace materials." *Materials Today: Proceedings* (2021). SNIP: 0.657
4. **Dodla, Srihari**. "Micromechanical Analysis for Iron-Based Composites Under Large Deformations." *Journal of Electronic Materials* 50, no. 4 (2021): 1752-1758, IF: 1.938
5. **Dommeti, Vamsi Krishna**, **Sumit Pramanik**, and **Sandipan Roy**. "Mechanical response of different types of surface texture for medical application using finite element study." *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine* 235, no. 6 (2021): 717-725, IF :1.617
6. **Stephen, Deborah Serenade**, and **Prabhu Sethuramalingam**. "An application of fuzzy logic with grey relational technique in grinding process using nano Al₂O₃ grinding wheel on Ti-6Al-4V alloy." *International Journal of Machining and Machinability of Materials* 23, no. 1 (2021): 21-46, SNIP: 1.257
7. **I.Infanta Mary Priya** and **Ramalingam Senthil** "Mechanical behavior of biaxial non-crimp glass fiber reinforced polymer composite" *Materials Today Proceedings*, Elsevier, SNIP: 0.657
8. Alice, A. Queen, **A. Arul Jeya Kumar**, **M. Prakash**, and I. Ashok Kumar. "Thermal characterizations of basalt fiber-reinforced poly (aryl-ether-ketone) biomedical composites." *Journal of Thermal Analysis and Calorimetry* (2021): 1-9. IF: 4.626
9. Suryaprakash, S., S. Vishal, M. Sethu Raman, S. Rajendra Kumar, M. Umar, and **T. Deepan Bharathi Kannan**. "Optimization of Welding Parameters in CMT Welding of Al 5083." *Advances in Materials Research*, pp. 663-672. SNIP: 0.458

10. **Shakthivel, S.**, and Sourabh Kurmapu. "Characteristic investigation on vetiver fibre reinforced polyethylene composites." In AIP Conference Proceedings, vol. 2317, no. 1, p. 040014. AIP Publishing LLC, 2021. SNIP: 0.314
11. Thakur, Shilpa, and **S. Prabhu**. "Substrate surface carburization-based electro-mechanical plotter using plasma evolved during electrostatic breakdown of ambient air." Journal of Thermal Analysis and Calorimetry (2021): 1-10. IF: 4.626
12. Bhosale, Dipak, Akshay Devikar, **S. Sasikumar**, and GS Vinod Kumar. "Foaming Mg Alloy and Composite Using MgCO₃ Blowing Agent." Metallurgical and Materials Transactions B 52, no. 2 (2021): 931-943. IF: 2.470
13. Priya, D. Bhanu [PhD Scholar], and **Murali Subramaniyam**. "State of the art survey on effects of extensive usage of smartphone and methods to analyze muscular disorders." In AIP Conference Proceedings, vol. 2316, no. 1, p. 030003. AIP Publishing LLC, 2021. SNIP: 0.314
14. Manas Hardikar, R.S.S Srivaishnav, Aniket Sakalley, **Sasikumar S**, "Investigation on the Effect of Tin Addition on Foaming Behaviour of Al₇SiMg Produced by Powder Route ", Transactions of Powder Metallurgy Association Of India, vol. 45. n. 2, pp. 62-69.
15. Vignesh, S., and **U. Mohammed Iqbal**. "Sustainability Study in End Milling of Aluminium AA7075 Alloy under Different Nano Cutting Fluid Environment Using Response Surface Methodology Approach." Journal of Green Engineering 11 (2021): 1635-1647. SNIP: 0.5
16. Vignesh, S., and **U. Mohammed Iqbal**. "Effect of tri-hybridized metallic nano cutting fluids in end milling of AA7075 in minimum quantity lubrication environment." Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (2021): 09544089211003730. I.F: 1.620
17. Das, Avipsita, Rohan Sharma, **V. Thirunavukkarasu**, and **M. Cheralathan**. "Desiccant-based water production from humid air using concentrated solar energy." Journal of Thermal Analysis and Calorimetry (2021): 1-11. IF: 4.626
18. Punniakodi, Banumathi Munuswamy Swami, and **Ramalingam Senthil**. "A review on container geometry and orientations of phase change materials for solar thermal systems." Journal of Energy Storage 36 (2021): 102452. IF: 6.583.
19. Vengadesan, Elumalai, and **Ramalingam Senthil**. "Experimental investigation of the thermal performance of a box type solar cooker using a finned cooking vessel." Renewable Energy 171 (2021): 431-446. IF: 8.001.
20. **Ambigai, R.**, and **S. Prabhu**. "Analyzing the Mechanical Properties and Characterization of Aluminium (ADC-14) Based Functionally Graded Materials (FGM)." Silicon (2021): 1-12. IF: 2.670.
21. Rauniyar, Aditya, Hem Chandra Upreti, Aman Mishra, and **Prabhu Sethuramalingam**. "MeWBots: Mecanum-Wheeled Robots for Collaborative Manipulation in an Obstacle-Clustered Environment Without Communication." Journal of Intelligent & Robotic Systems 102, no. 1 (2021): 1-18. IF: 2.646.
22. **S. P. Sundar Singh Sivam**, Ganesh Babu Loganathan, K. Saravanan, S. Dinesh Guhan, and Aishik Banerjee. "Effects of Drilling Process Parameters Using ANOVA and Graphical Methods." In Advances in Materials Research, pp. 331-353. Springer, Singapore, 2021. SNIP:1.343
23. **Ambigai, R.**, and **S. Prabhu**. "Fuzzy logic algorithm-based optimization of heat transfer and thermal conductivity behaviour of Al-Si₃N₄ Nano and Al-Gr-Si₃N₄ hybrid composite." Journal of Thermal Analysis and Calorimetry (2021): 1-13. IF: 4.626.
24. **S. P. Sundar Singh Sivam**, R. Rajendran, and **N. Harshavardhana**. "An investigation of stored energy in uniaxial and biaxial directional rolling on mechanical properties and microstructure of pure copper." Mechanics Based Design of Structures and Machines (2021): 1-13. SNIP: 2.135.
25. Haniffa, Mohamed Abdul Cader Mohamed, Khadija Munawar, Ching Yern Chee, **Sumit Pramanik**, Ahmed Halilu, Hazlee Azil Illias, Muhammad Rizwan et al. "Cellulose Supported Magnetic Nanohybrids: Synthesis, Pysicomagnetic Properties and Biomedical Applications-A Review." Carbohydrate Polymers (2021): 118136. IF: 9.381
26. Karthikeyan, Palani, and **Sumit Pramanik**. "Prediction of suitable heat treatment for H13 tool steels by application of thermal shock fatigue cycle." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology (2021): 13506501211011808. IF:1.674
27. Tripathy, Ashis, Priyaranjan Sharma, **Sumit Pramanik**, Filipe Samuel Silva, and Noor Azuan Bin Abu Osman. "Armalcolite nanocomposite: A new paradigm for flexible capacitive humidity sensor." IEEE Sensors Journal (2021). IF: 3.301.

28. **Dommeti, Vamsi Krishna, Sumit Pramanik, and Sandipan Roy.** "Effect of polyethylene glycol on surface coating of Ta₂O₅ onto titanium substrate in sol-gel technique." ACTA OF BIOENGINEERING AND BIOMECHANICS 23, no. 1 (2021): 197-206. IF 1.073.
29. **Magesh V, Harikrishnan P, Singh DK.** "Experimental evaluation of orthodontic bracket slot deformation to simulated torque." Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine (2021): 09544119211015086. SCI, IF 1.617.
30. **Dodla, Srihari.** "Micromechanical Analysis for Iron-Based Composites Under Large Deformations." Journal of Electronic Materials 50, no. 4 (2021): 1752-1758. IF 1.938.
31. **Dodla, Srihari, Kushal J. Kirpalani Idnani, and Arjun Katyal.** "Finite element machining simulations of aerospace materials." Materials Today: Proceedings (2021). SNIP: 0.657.
32. **Vinoth, A., Swati Dey, and Shubhabrata Datta.** "Designing UHMWPE hybrid composites using machine learning and metaheuristic algorithms." Composite Structures 267 (2021): 113898. IF 5.407.
33. **P. Nandakumar and V. Jacob** "Structural and Crack Parameter Identification on Structures Using Observer Kalman Filter Identification/Eigen System Realization Algorithm." (2021): 68-79. IF 0.64.
34. **Srihari Dodla,** "Influence of Cu volume fraction on the flow behavior of Fe based composites." Materials Today: Proceedings (2021). SNIP: 0.657.
35. **Infanta Mary Priya, I., and B. K. Vinayagam.** "Detection of damages on biaxial GFRP composite material using non-destructive technique." Polymer Bulletin 78 (2021): 2569-2603. IF: 2.870.
36. **SaravanaKumar, R., and T. Rajasekaran.** "Optimizing the underwater friction stir welding parameters to enhance the joint strength of armour grade aluminium alloy AA5083 butt joints." Materials Today: Proceedings (2021). SNIP: 0.657.
37. **Saravanakumar, R., T. Rajasekaran, and M. Dhanasekaran.** "Process parameter optimization in underwater Friction Stir welding of dissimilar aluminium alloy butt joints by design of experiment." Materials Today: Proceedings (2021). SNIP: 0.657.
38. **Kumaran, Durai, Sundar Singh Sivam Sundarlingam Paramasivam, and Harshavardhana Natarajan.** "Optimization of high-speed machining cutting parameters for end milling of AlSi7Cu4 using Taguchi based technique of order preference similarity to the ideal solution." Materials Today: Proceedings (2021). SNIP: 0.657
39. **G Vijay Krishna and G. Balaji.** "Analysis of Micro Meteorological Conditions of Thanjavur District - A Case Study". International Journal of Advanced Research in Engineering and Technology, 11(11), pp.2268-2274. SNIP:0.165.
40. **Thawari, Nikhil, Chaitanya Gullipalli, Jitendra Kumar Katiyar, and T. V. K. Gupta.** "Effect of multi-layer laser cladding of Stellite 6 and Inconel 718 materials on clad geometry, microstructure evolution and mechanical properties." Materials Today Communications 28 (2021): 102604. IF 3.383.
41. **Mohanta, Neha, Rabesh Kumar Singh, Jitendra Kumar Katiyar, and Anuj Kumar Sharma.** "A Novel Fluid–Structure Interaction (FSI) Modeling Approach to Predict the Temperature Distribution in Single-Point Cutting Tool for Condition Monitoring During Turning Process." Arabian Journal for Science and Engineering (2021): 1-13. IF 2.334.
42. **Turaka, Sessaiah, K. Vijaya Kumar Reddy, RK Sahu, and Jitendra Kumar Katiyar.** "Mechanical properties of MWCNTs and graphene nanoparticles modified glass fibre-reinforced polymer nanocomposite." Bulletin of Materials Science 44, no. 3 (2021): 1-14. IF 1.783.
43. **Durai Kumaran, S.P. Sundar Singh Sivam, Harshavardhana Natarajan, G. Balakumaran and R. Naveen,** "Utility of Taguchi Grey Relation Analysis for Influencing the System Input Parameters and Impacts of Tool Geometry and Wear Response of the Cutting Tool on Machinability and Environmental Impact of Machining for Automobile Industries", Int. J. Vehicle Structures & Systems, 13(2), 234-240, SNIP 0.677.
44. **Durai Kumaran, S.P. Sundar Singh Sivam, Harshavardhana Natarajan and P.R. Shobana Swarna Ratna,** "Applications of the Hill 1948 Yield Criterion Development, Performance Evaluation and Comparison for Describing the Behaviour of Different CRCA Grades", Int. J. Vehicle Structures & Systems, 13(2), 234-240, SNIP 0.677.
45. **Paramasivam, Sundar Singh Sivam Sundarlingam, Durai Kumaran, Harshavardhana Natarajan, G. Sai Krishnan, and S. E. Sairaghav.** "Investigation of machinability performance characteristics on turning process parameters optimization of AlSi6Cu3." Materials Today: Proceedings (2021).SNIP 0.657.
46. **Ambigai. R and Alan Thomas Joseph,** "Design and Modelling of Pest Detection and Spraying of Pesticides Robot" Turkish Online Journal of Qualitative Inquiry (TOJQI) vol. 12, Pp.725- 730.

47. **Prasad, KR Arun, and MR Stalin John.** "Optimization of external roller burnishing process on magnesium silicon carbide metal matrix composite using response surface methodology." *Journal of the Brazilian Society of Mechanical Sciences and Engineering* 43, no. 7 (2021): 1-12. IF 2.22.
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91. **Priya, I. Infanta May**, and **Ramalingam Senthil**. "Mechanical behavior of biaxial non-crimp glass fiber reinforced polymer composite." Materials Today: Proceedings (2021). SNIP: 0.657.
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Newly added equipments

1. A new **FUNMAT HT - 3D printer** was installed in **RPT Laboratory, Dept. of Mechanical** from M/S. Botzlab Innovations & services Pvt. Ltd., Bengaluru. The Design Division has arranged a Training program for the faculty and research scholars on 05.07.2021 from 9.30 am to 12.30pm. Training provided by M/S. Botzlab Innovations & services Pvt. Ltd.



FUNMAT-HT – 3D Printer & RPT Lab_Dept. of Mech., KTR

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 Department of Mechanical Engineering, SRM IST, Kattankulathur campus.

The Centre is headed by **Dr. Shubhabrata Datta**, Research Professor;

Co-coordinators: **Dr. M. Kamaraj** & **Dr. P. V. Jeyakarthikeyan**

The Centre has three different laboratories, namely

1. **Composite and Advanced Materials Manufacturing Lab**
2. **Materials Modelling and Simulation Lab**
3. **Functional and Biomaterials Engineering Lab**



For any kind of academic collaboration, usage of facilities and industrial consultancy, contact **Dr. M. Kamaraj**, Associate Professor, Department of Mechanical Engineering (kamarajm@srmist.edu.in)

Research facilities available in the Centre.



Microwave furnace

Internal dimension – 366 mm x 367 mm
x 386 mm

Maximum temperature - 1650 °C



Tube furnace

Maximum operating temperature –
1200 °C



Hot air oven

Inside volume – 450 mm x 450 mm x
450 mm



Planetary mono classic line
PULVERISETTE 6



Compression moulding machine

Platen size – 500 mm x 500 mm,
Temperature – 300 °C,
Capacity – 150 ton,
Maximum operating pressure – 200
bar/3000 psi.



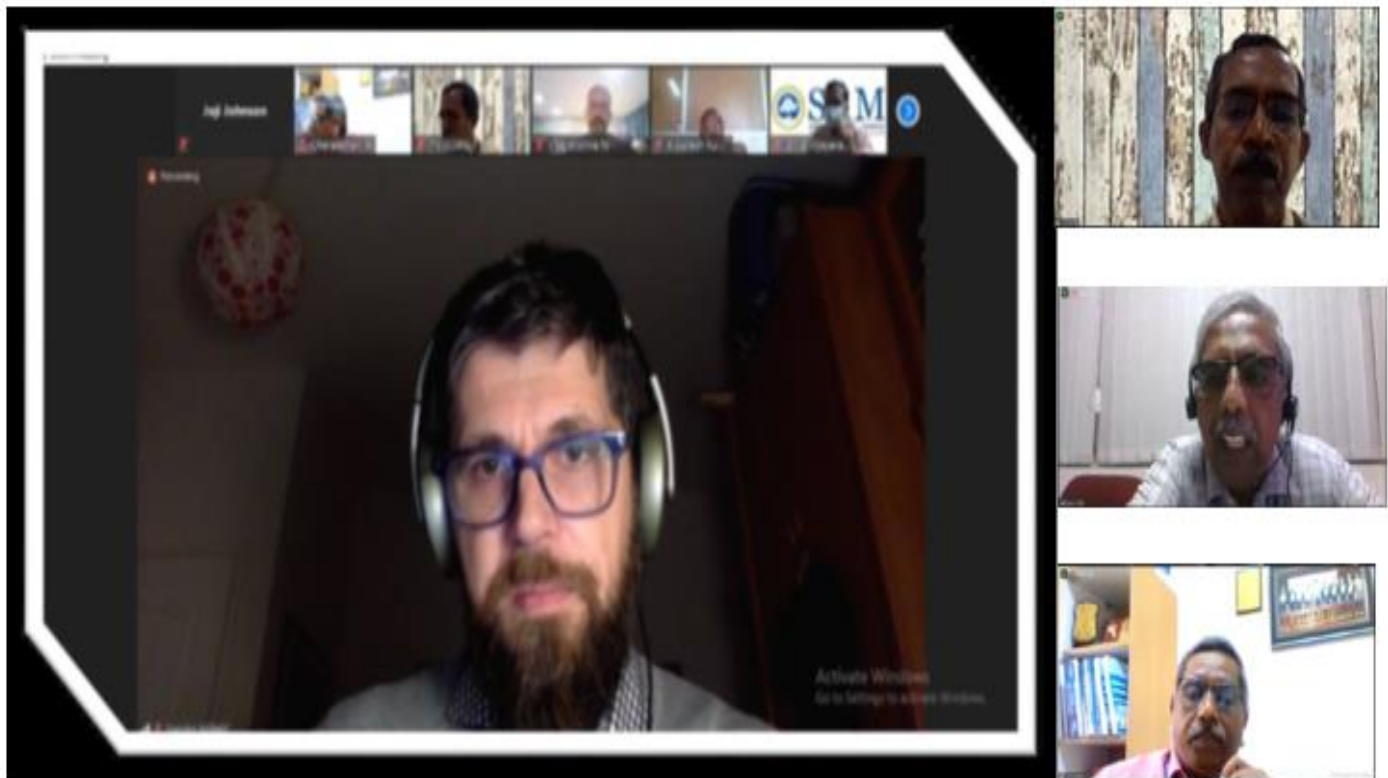
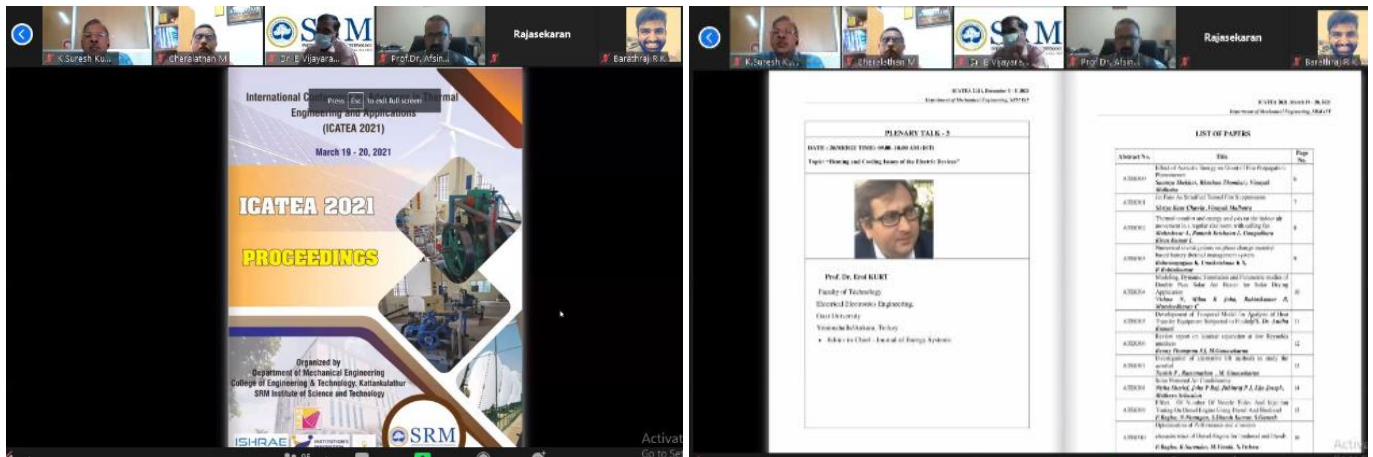
Hot Press

Capacity of the press - 30 tons,
Die heater temperature-500 °C

ICATEA 2021

The International Conference on Advances in Thermal Engineering and Applications (ICATEA 2021) conducted on 19 & 20th March'21 organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu. Received more than 160 abstract from around the globe.

- The articles are received from Morocco, Sultanate of Oman, NIT Calicut, Anna University and from various universities.
- **Chief Guest for Inagural: Prof. Dr. Sandro Nizetic, University of Split, Croatia**
- **Plenary talks: 1) Prof. Sandro Nizetic; 2) Prof. Afsin Gungor, University of Turkey; 3) Prof. Erol Kurt, Univeristy of Ankara; 4) Prof. M B Mukesh Krishnan (SIIC)**
- All accepted papers will be published in Scopus indexed journals and selected papers will be published on Journal of Energy Systems.
- Chief Guest for Validatory : **Prof. Dr. Velraj, IES, CEG, Anna University.**



Plenary Talk 1 on topic 'Meet the Editor'. Date: 19/03/2021.

Prof. Dr. Sandro Nizetic, University of Split, Croatia

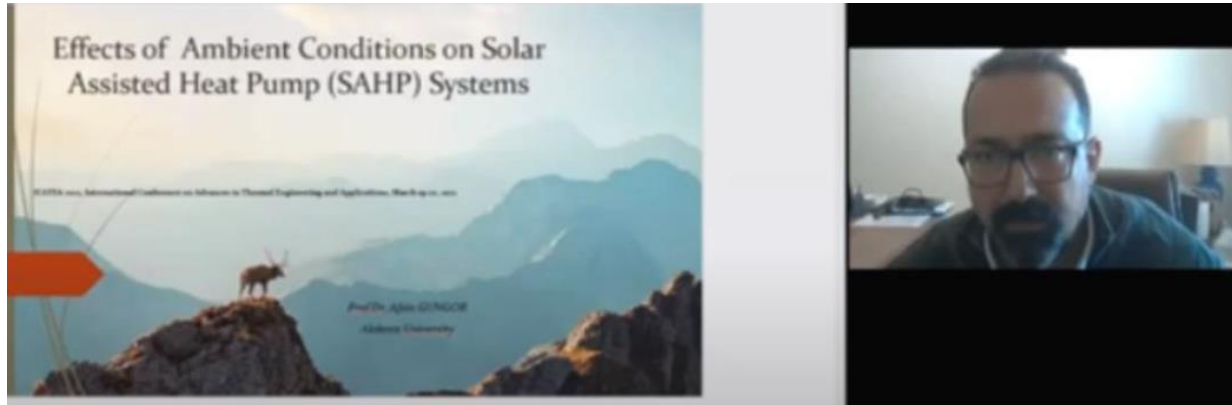
Head of Department of Thermodynamics

LTEF - Laboratory for Thermodynamics and Energy Efficiency, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split,
Rudjera Boskovic 32, 21000, Split, CROATIA

Co-Editor in Chief - Energy Sources Part A: Recovery, Utilization and Environmental Effects (Taylor&Francis)

Associate Editor - Journal of Cleaner Production (Elsevier)

Associate Editor - International Journal of Energy Research (Wiley)



Plenary Talk 2 on topic 'Effect of Ambient Conditions of on Solar Assisted Heat Pump System'.

Date: 19/03/2021.

Prof. Dr. Afsin Gungor

Head of Energy Division

Department of Mechanical Engineering

Faculty of Engineering

Akdeniz University

Turkey



Plenary Talk 3 on topic 'Heating and Cooling Issues of the Electric Devices'. Date: 20/03/2021.

Prof. Dr. Erol Kurt

Faculty of Technology

Electrical Electronics Engineering, Gazi University

Yenimahalle/Ankara, Turkey

Editor-in-Chief - Journal of Energy Systems

Validatory - Chief Guest Address by

Prof. R Velraj

Professor, Institute of Energy Studies, Anna University,
Chennai



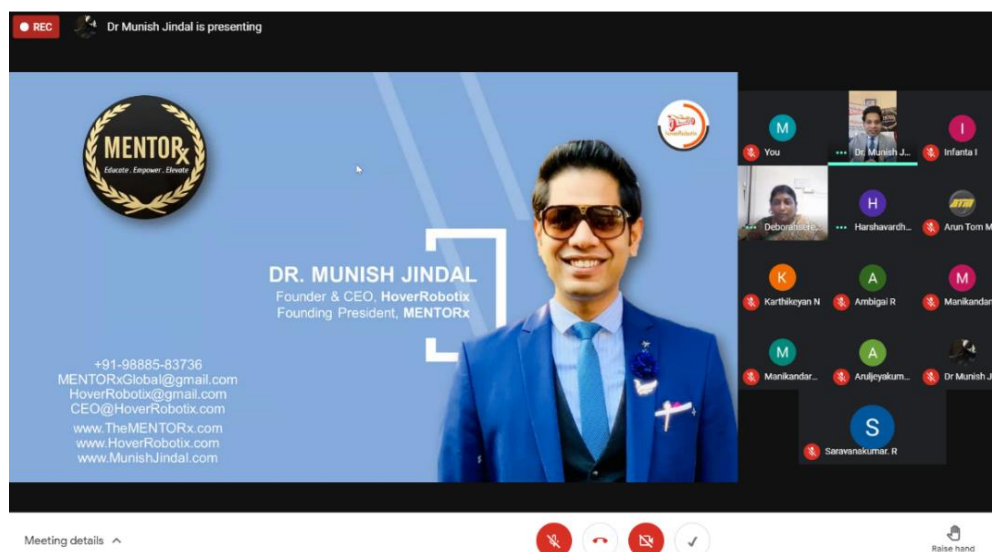
ICRAMER 2021

The International Conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021) conducted on 15 & 16th April'21 organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu.

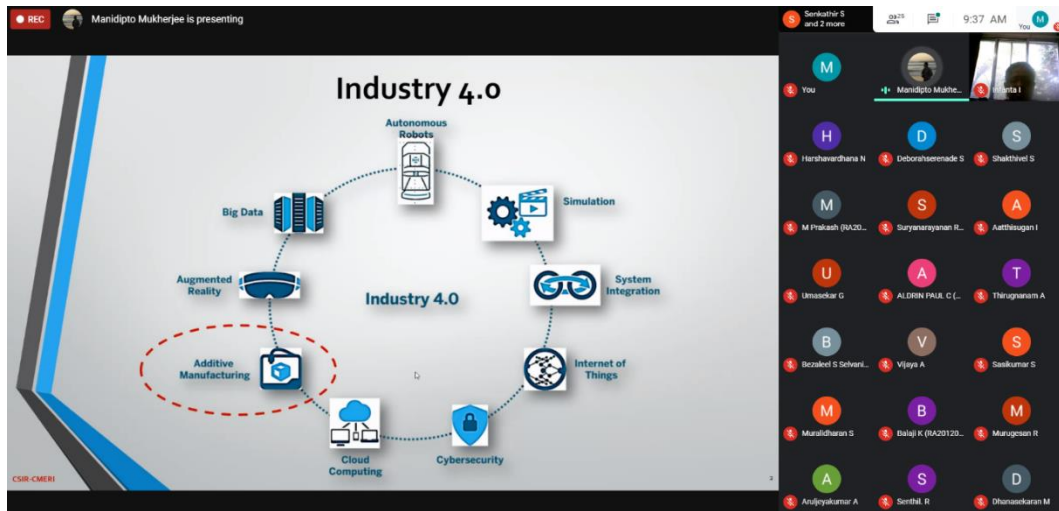
- Total number of papers received: 230
- Number of papers accepted and presented: 143
- **Chief Guest for Inagural:** **Prof. Dr. Jaharah A. Ghani**, Deputy Dean (Postgraduate Programme), Department of Mechanical and Manufacturing Engineering, Universiti Kebangsaan Malaysia & **Shri. Anantharaman Prakash**, Vice President, Renault-Nissan Technology and Business Centre.
- **Plenary and Invited talks:** 1) **Prof. Dr. Jaharah A. Ghani**; 2) **Prof. Dr. G.L. Samuel**, Department of Mechanical Engineering, IIT Madras; 3) **Dr. Munish Jindal**, Founding President, MENTORx Founder&CEO, HoverRobotix; 4) **Prof. Dr. R. Karthic Narayanan**, Visiting Faculty, IIITDM Kancheepuram; 5) **Dr. Manidipto Mukherjee**, Sr. Scientist, CSIR-CMERI, Durgapur; 6) **Dr. R. Thyagarajan**, Sr. Project Engineer, Non Ferrous Materials Technology Development Center, Hyderabad; 7) **Dr. Sagar Telrandhe**, Deputy Manager, M/s. MRF R&D India Limited; 8) **Prof. Dr. Prashanth Konda Gokuldoss**, Professor, Head of Additive Manufacturing Laboratory, Tallinn University of Technology, Tallinn, Estonia.
- All accepted papers will be published in Scopus indexed journals and selected papers will be published on Journal of Engineering Research.



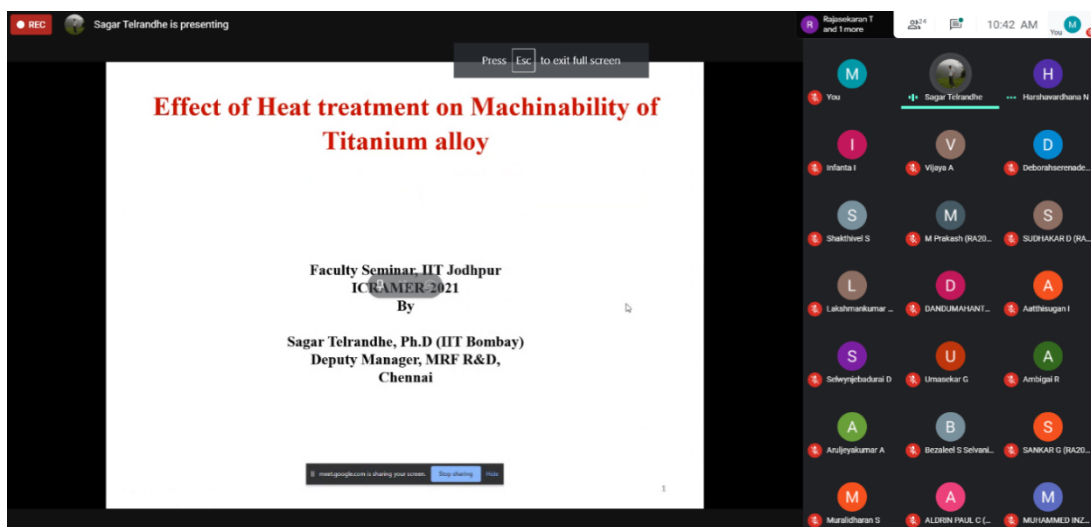
< Invited Talk: Prof. Dr. G.L. Samuel, Department of Mechanical Engineering, IIT Madras >



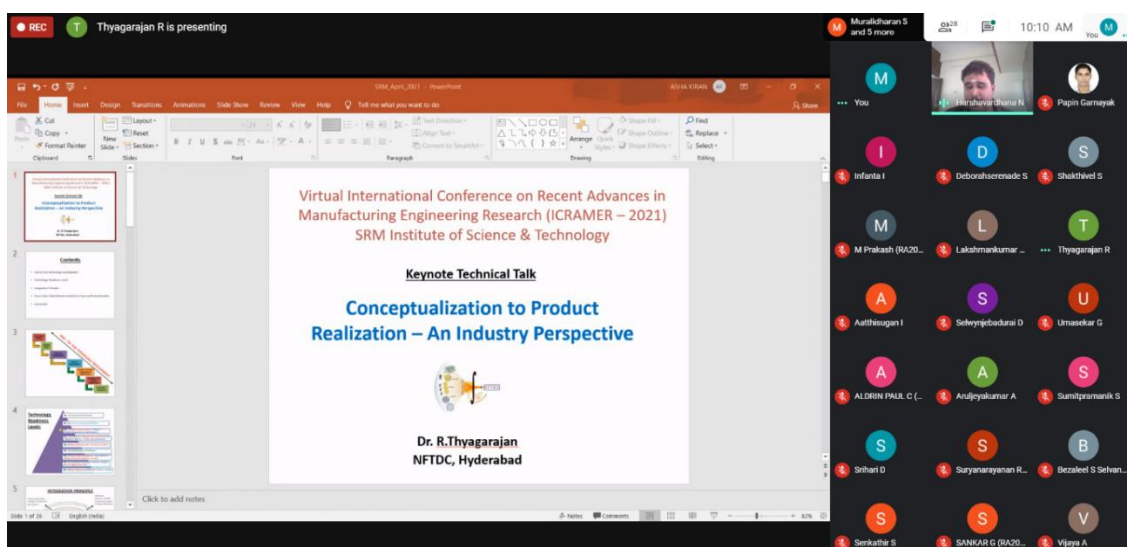
< Invited Talk: Dr. Munish Jindal, Founder & CEO, HoverRobortix >



< Invited Talk: Dr. Manidipto Mukherjee, , Sr. Scientist, CSIR-CMERI, Durgapur >



< Invited Talk: Dr. Sagar Telrandhe, Deputy Manager, M/s. MRF R&D India Limited >



< Invited Talk: Dr. R. Thyagarajan, NFTDC, Hyderabad >

ICAMED 2021

The International Conference on Advances in Mechanical Engineering Design (ICAMED 2021) conducted on 03 & 04th May'21 organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu.

- Total number of abstracts received: 170
- Number of papers accepted and presented: 100
- Number of papers presented: 89
- The articles are received from Altorum Leren, Bangalore, D. G. Vaishnav College, MicroTech Industries, Ambattur, OEPL, Hyderabad, Saveetha Institute, MIT World Peace University, State Resource Center, Delhi Technological University, Velalar College of Engg., Crescent Institute, IFET College, Hindustan and our SRM group of institutions.
- **Chief Guest for Inagural:** **Mr. Kazuhiro Ishigami San**, Managing Consultant & Advisor, Tata Consultancy Services Japan and Former General Manager, Nissan Motors, Japan.
- **Special Address:** **Colonel Dr. Gaurav Singh**, Head - Group Security Technology and Automation, Adani Enterprises Limited and Former General Manager, Army Base Workshop, New Delhi.
- **Plenary and Invited talks:** 1) **Prof. Shubhabrata Datta**; 2) **Prof. Y. Dominic Ravichandran**, Wollega University, Ethiopia; 3) **Prof. Mohan Ranganathan**, Professor Emeritus, University of Tours, France
- **Chief Guest for Valedictory:** **Dr. R K Mishra**, Regional Director - Regional Centers for Military Airworthiness (RCMA), DRDO, Bengaluru.
- All accepted papers will be published in Scopus indexed journals and selected papers will be published on Journal of Engineering Research.

2. Vibration & Noise

For the premium cars, "quietness" is one of very important quality factor. But still car manufacturers are struggling with "rattle noise".



< Chief Guest Address: Mr. Kazuhiro Ishigami San, TCS Japan >



< Special Address: Colonel Dr. Gaurav Singh >

Complex hysteresis loops

Careful definition of energy parameters in terms of Ck growth kinetics

< Invited Talk: Prof. Mohan Ranganathan >

Various Functionalization of CNTs

The edge functionalization

Non Covalent functionalization

Covalent functionalization

endohedral filling

Possible functional sites CNTs: (a) defect sites at the tube ends and side walls (b) covalent side wall bindings (c) non-covalent exohedral side wall bindings (d), endohedral filling

Dominic Ravicha...

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
ICAMED 2021

Harsha Narakatla

Sachi Dhananda...

< Invited Talk: Prof. Y. Dominic Ravichandran, Wollega University >



< Validatory address: Dr. R K Mishra, DRDO, Bengaluru >

Awards/Recognitions

1. **Dr. R. Senthil** received Dr. APJ Abdul Kalam Teachers Excellence Awards 2020 on 22.07.2021.
2. **Dr. R. Senthil** received a **Best Research Award** 2021 International Research Awards on New Science Inventions, Scifax on 23-03-2021.
3. **Dr. C. Selvam** received **Young Achiever Award** at Institute of Researchers (InRes) on 16/06/2021.
4. **Dr. Sumit Pramanik**, Varad Sandip Karekar [B. Tech Student] received **Gold Medal Award** for paper presentation on “Design and Development of Novel Inexpensive Dual Extruder 3d Printer for Advanced Multifunctional Applications” on Research Day 2018, 28-Feb-2018, SRM-IST, Chennai, India.
5. **Dr. D. Siva Krishna Reddy** received **Best Paper Award** from Fourteenth International Conference on Fluid Dynamics (ICFD 14), April 2021 Cairo, Egypt on 02.04.2021.
6. B. Praneeth, T. D. Roshan, **Dr. S. Prabhu** Won the **Best Project Award** for the project titled “Omni Wheel & Stretcher Converting Wheelchair” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
7. Aayush Kumar, Apoorva Sinha, **Dr. E. Vijayaragavan** Won the **Best Project Award** for the project titled “Transient Thermal Analysis of Aeroengine Jet Pipe Linear” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
8. Saliq Shamim Shah, Saumya Chaturvedi, **Mr. S. Arokya Agustin** Won the **Best Project Award** for the project titled “Design, Development and Validation of Engine Dynamometer” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
9. Satraudhan Kumar Sah, Aman, **Dr. Sumit Pramanik** Won the **Best Project Award** for the project titled “Fabrication and Innovation of Ornithopter Mechanical Robotic Bird” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
10. Rachagiri Aditya Sai Deepak, Udit Mohanty, **Dr. A. Vijaya** Won the **Best Project Award** for the project titled “Development of Virtual Lab for Plotting Variable Control Charts for Determining the Process Capability of a Machine” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
11. Chitransh Johari, Himadri Shankar Paul, **Mr. S. Dinesh** Won the **Best Project Award** for the project titled “Fabrication and Characterization of Aluminium based Si3N4 nano Functionally Graded Composite” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
12. Akshaykumar Udayakumar, Nishad T, **Dr. V. Praveena** Won the **Best Project Award** for the project titled “Effect of Additives and Injection Timing in a CRDI Engine” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
13. Ayush Kumar Patra, Aditya Tripathi, **Mr. N. Vijya Krishna** Won the **Best Project Award** for the project titled “Design and Fabrication of Heat Sink for Exhaust Heat Recovery System Using Thermoelectric Generator” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
14. Saurabh Sanjay Karveer, Debi Prasad Jena, **Dr. T. Lakshmanan** Won the **Best Project Award** for the project titled “Design and simulation of Gasifier for MSW” for the Academic year 2021 from Department of Mechanical Engineering, SRMIST, Kattankulathur on 02.07.2021.
15. **Sundar Singh Sivam S.P** received InSc Young Researcher award 2021 by Institute of Scholars for publishing paper titled “Taguchi additive ratio assessment method in multi criteria decision making a case study for drill tool performance, Published in International journal of Modern Manufacturing Technologies.
16. **Mr. M. Sivashankar** recieved **Gold medal** for Research day 2021 presentation, SRMIST, KTR Campus
17. Steve James and **Dr. R. Ambigai** won **Best Paper Ward** for paper titled "Development of Pipeline Inspection Robot using Additive Manufacturing" in International Conference on Recent Advances in Mechanical Engineering Research (ICRAMER- 21) orgained by Department of Mechanical Engineering, SRM IST from 15.04.2021 and 16.04.2021.
18. **Mr. S. Muralidharana** and **Dr. U. Mohammed Iqbal** won **Best Paper Ward** for paper titled “Optimization of process parameters of multichannel angular twist extrusion (MATE) to process AA2024 alloy” in International Conference on Recent Advances in Mechanical Engineering Research (ICRAMER- 21) orgained by Department of Mechanical Engineering, SRM IST from 15.04.2021 and 16.04.2021.
19. D. Mounika [M. Tech Robotics], D Bhanu Priya [Ph.D Scholar], Se Jin Park, **Murali Subramaniyam** received a **Best Paper Award** for paper titled “A Study on Balance and Foot Pressure Distribution while carrying load in different postures” in the National Conference on Rehabilitation Engineering and Assist Devices (NCREAT -2021),

organized by the Department of Biomedical Engineering, SRM IST, Kattankulathur from 11.03.2021 and 12.03.2021.

20. **Dr. D. Siva Krishna Reddy** received best paper award from Fourteenth International Conference on Fluid Dynamics (ICFD 14), April 2021 Cairo, Egypt on 02.04.2021.
21. **Dr. I. Infanta Mary Priya** has received a certificate for reviewing 3 articles in Materials Today : Proceedings, Elsevier publications.
22. **Dr. I. Infanta Mary Priya** has acted as a reviewer on "Polymers and Polymer Composites" journal, Sage Publications.
23. **Dr. I. Infanta Mary Priya** chaired a technical session in Virtual International Conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021) during 15-16 April 2021 held at the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai.
24. **Dr. G. Balaji** appointed as one of the Editorial Board Member for the Journal "Collaborative Research in Applied Science and Engineering".
25. **Dr. G. Balaji** Nominated as Editorial Board Member in the Journal "Research and Applications of Thermal Engineering".
26. **Dr. Jitendra Kumar Katiyar** appointed as review editor in the Journal "Frontiers in Mechanical Engineering"
27. **Dr. SUMIT PRAMANIK**, Recruited as a Reviewer Board Member, Polymer, MDPI (IF 4.329) Reviewed two Papers in 2021 (up to 14 July 2021)

Guest lecture delivered by our faculty

1. **Dr. R. Senthil** delivered a Technical Talk (Webinar) on Innovations in Solar Energy Systems with Thermal Energy Storage at Sri Krishna College of Technology, Coimbatore on 18.06.2021.
2. **Dr. S. Prabhu** delivered a Guest lecture on the topic "Recent trends in Industrial Robotics and its Research Applications" at Dhanalakshmi Srinivasan Engineering College, Robotics and Automation Department, Perambalur, Tamil Nadu on 11.06.2021.
3. **Dr. R. Senthil** delivered a Technical Talk on Opportunities and Challenges in Solar Energy Storage, SESI-SRMIST Chapter, on 29.06.2021.
4. **Dr. R. Senthil** acted as resource person for the Workshop on Drafting 2D Schematics, organized by IEI SRMIST Kattankulathur Local Centre on 19.02.2021.
5. **Dr. R. Senthil** delivered a Guest Lecture on "Utilization of Solar Energy for Sustainable Development" in the World Earth Day Webinar at SRMIST, organized by Unnat Bharat Abhiyan-SRMIST on 22.04.2021.
6. **Dr. R. Senthil**, delivered an Expert Talk on National Education Policy 2020 at Government Engineering College Banswara, Rajasthan on 25.02.2021.
7. **Dr. Deepan Bharathi Kannan**, delivered a technical talk titled "Welding Technology" organized by Sri SAI RAM ENGINEERING COLLEGE on 11.01.2021.
8. **Dr. A. Vijaya** delivered a talk titled "Assessment Rubrics in the Examination Reforms" workshop Organized by Chairperson, SME on 31.03.2021.
9. **Dr. T. Lakshmanan** delivered the lecture in the topic "Blooms taxonomy based assessment " through online webinar in Velammal Institute of technology, Pancheti on 09-01-2021
10. **Dr. I. Infanta Mary Priya** has presented a video demonstration on "Measurement of V-block parameters" & "Indirect measurement of bore diameter using two ball method".
11. **Dr. I. Infanta Mary Priya** has presented a video demonstration on "Sequencing of two cylinders".
12. **Dr. S. Manikandan** delivered the lecture in the topic "Solar Thermal Energy Systems and Research Challenges" through online in the One-week Faculty Development Programme on "NEEDS AND CHALLENGES IN SUSTAINABLE ENERGY DEVELOPMENT", organized by Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamilnadu on 28-07-2021.
13. **Dr. R. Senthil** delivered a Technical Talk on a One-Day Guest Lecture on Solar Energy for Domestic Applications in Sri Vidyaniketan Engineering College, Tirupati, on 12.07.2021.
14. **Dr. R. Senthil** delivered a Technical Talk on "Overview and Challenges of Sustainable Development Goals" at Six days FDP on "Needs and Challenges in Sustainable Energy Development", Paavai Engineering College, Namakkal, 26.07.2021.

15. **Dr. R. Senthil** delivered a Technical Webinar on “Research Perspectives and Challenges in Solar Energy Storage”, REVA University, Bengaluru, on 27.07.2021.
16. **Dr. V. Magesh**, delivered a lecture on “Dental Biomechanics” at Recent Trends in Mechanics and its Applications, held at Design Division, Mechanical Engg dept, SRMIST on 01/03/2021.

Outreach Activities:

1. **Dr R Senthil** reviewed an article for Materials Today: Proceedings (Elsevier) in Feb 2021.
2. **Dr R Senthil** reviewed an article for Renewable Energy (Elsevier) in Feb 2021
3. **Dr R Senthil** served as a Conference Session Chair in the International Conference on Recent Advances in Renewable Energy Sources (RARES-2021) at Government Engineering College Banswara, Rajasthan on 26.02.2021.
4. **Dr. I. Infanta Mary Priya** acted as Organizing secretary of Virtual International Conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021) during 15-16 April 2021.
5. **Dr. I. Infanta Mary Priya** acted as Organizing committee member of Virtual International Conference on Advances in Mechanical Engineering Design (ICAMED 2021), 03rd & 4th May 2021.
6. **Dr. T. Rajasekaran** acted as an Academic Auditor at Sri Sairam Engineering College on 24.04.2021
7. **Dr R. Senthil** reviewed six articles in WoS and Scopus indexed journals. Three Elsevier journals (Renewable Energy, Energy Reports, Materials Today Proceedings), Two Taylor and Francis journals (Energy Sources Part A, International Journal of Ambient Energy) and one article for International Journal of Renewable Energy Development.
8. **Dr.G.Balaji** reviewed an article for Biofuels Journal.
9. **Dr.G.Balaji** appointed as one of the editorial board member for the Journal "Collaborative Research in Applied Science and Engineering".
10. **Dr R Senthil** acted as DC Member for the First DC meeting at Government Engineering College Bargur, Krishnagiri on 27.01.2021.
11. **Dr. R. Senthil** is an Advisory Committee Member for International Conference on Recent Advances in Renewable Energy Sources 2021, 26-27 February 2021, Organized by Government Engineering College Banswara, Rajasthan.
12. **Dr. R. Senthil** reviewed an article in the International Journal of Renewable Energy Development on 28.01.2021.
13. **Dr. R. Senthil** reviewed an article for Materials Today: Proceedings (Elsevier) in Feb 2021.
14. **Dr. R. Senthil** reviewed an article for Renewable Energy (Elsevier) in Feb 2021
15. **Dr. R. Senthil** served as a Conference Session Chair in the International Conference on Recent Advances in Renewable Energy Sources (RARES-2021) at Government Engineering College Banswara, Rajasthan on 26.02.2021.
16. **Dr. G. Balaji** Nominated as editorial board member in the Journal "Research and Applications of Thermal Engineering".
17. **Dr. G. Balaji** reviewed an article for International Journal of Green Energy.
18. **Dr. R. Senthil** reviewed articles in the Energy Conversion and Management (Elsevier).
19. **Dr. R. Senthil** reviewed articles in the Journal of Building Engineering (Elsevier).
20. **Dr. R. Senthil** reviewed articles in the Journal of Advanced Research in Fluid Mechanics and Thermal Sciences.
21. **Dr. R. Senthil** attended a Pre-Viva Ph.D. DC Meeting at SSN Engineering College, Anna University on 06.07.2021.
22. **Dr. R. Senthil** acted as Session Chair for the session "Carbon Neutrality" in the 2nd International Conference on Sustainable Energy Solutions for a Better Tomorrow (SESBT 2021), organized by VIT-Chennai on 24.07.2021.
23. **Dr. R. Senthil** presented Clean Energy initiatives of SRMIST at National Institute of Technical Teachers Training and Research (NITTTR) Chennai, on 23.07.2021, along with Associate Director (Campus Life) and The Dean/CENR. Our Case studies are planned as part of the course "Clean, Green and Sustainable Technology", which NITTTR Chennai offers on the Swayam-NPTEL platform.

Placement Activity (Jan 2021 to June 2021)

Training Programs Conducted

1. CCC Company's Training for Non Computing Departments

A newly developed course to enhance computing professional skills in students (**18CSC308L Competitive Professional Skills Course**) was conducted for Non-Computing Students in 3 Phases along with their Semester classes for Third year students (2022 Batch). All non-computing branches students (including Mechanical students) mandatorily attended the course to horn their computing skills.

Induction Programs – 2022 Batch

1. Townhall Meeting

The town hall meeting organized by our Career Centre for the students of the 2022 batch for appraising the Placement Norms and Recruitment processes on 3-JUNE: 5-7 PM.

2. Orientation Meeting for Training and Placements - 2022 Batch

Date: 29-JUNE-2021

Time: 5.00 pm to 7.15 pm

Maximum number of participants: 515 (490 Students + 25 Faculty Members)

Department level placement orientation meeting was conducted in which a clear idea of the placement process and higher studies was conveyed to the students. All the queries from the students were addressed by the department placement coordinators.

3. Superset Enrolment and Verification - 2022 Batch

Date: From 24-JUNE-2021

The enrolment of students in Superset, the official University recruitment platform, for 2022 Batch students have started from 24th June 2021. The verification and approval of profiles of enrolled students also done by Department Placement Coordinators.

M.Tech Internship

1. Mr. Souvik Roy (Ist year M.Tech CAD) got selected for an one year internship in **Stryker Global Technologies Pvt Ltd** with a stipend of Rs. 40, 000/- through our placement process.
2. Mr. T Sakthi Krishnan (Ist year M.Tech CAD) got selected for an one year internship in **Rane NSK Steering Systems Private Limited** from 1st September 2021 to 1st August 2022.
3. Mr. Ezhil Gnana Chandran C (Ist year M.Tech CAD) got selected for an one year internship in **Rane NSK Steering Systems Private Limited** from 1st September 2021 to 1st August 2022.
4. Mr. Sanjayan P (Ist year M.Tech CAD) got selected for an one year internship in **Rane NSK Steering Systems Private Limited** from 1st September 2021 to 1st August 2022.

Placement Statistics 2021 Batch

	B. Tech	M. Tech
NO OF STUDENTS ENROLLED	269	12
NUMBER OF STUDENTS PLACED	136	4
NUMBER OF OFFERS	188	4
CORE OFFERS	32	3
NO OF COMPANIES VISITED & COMPLETED	71	10
NO OF COMPANIES IN PROCESS	31	6
INTERNSHIP OFFERS	44	1
HIGHEST OFFER PACKAGE / CTC	12.5 LPA	3.84 LPA
LOWEST OFFER PACKAGE / CTC	3.2 - 3.5 LPA	3.6 LPA





The Campus placement cycle of 2021 Batch was completed on 31st June 2021. 188 offers were secured by the B-Tech students and 4 offers by M-Tech students during the campus placement cycle. A total of 269 B-Tech students and 12 M-Tech students enrolled for the campus placement. The highest package provided by the companies is 12.5 LPA and the lowest package is 3.5 LPA. The mean package offered by the companies visited was around 5 LPA.

The top 10 offers to the Mechanical students of 2021 Batch are:

Roll Number	Name of Student	Placed in Company	Job Profile Title	CTC
RA1711002010044	AKSHITA SHARMA	Amazon	MANAGER - OPERATIONS	12.5 LPA
RA1711002010162	VIDIT SAXENA	Amazon	MANAGER - OPERATIONS	12.5 LPA
RA1711002010288	SHASHWAT GEEL	Amazon	MANAGER - OPERATIONS	12.5 LPA
RA1711002010362	SIMRAN LABH	Amazon	MANAGER - OPERATIONS	12.5 LPA
RA1711002010059	ISHANI SARMA	Hindustan Unilever Limited	Executive Trainee	7 - 9 LPA
RA1711002010148	AYUSH AGRAWA	Hero Motocorp	Operations and Sales	7.5 LPA
RA1711002010294	SHREY AGARWAL	Hero Motocorp	Operations and Sales	7.5 LPA
RA1711002010189	GOWTHAM M	Dhobi G	Operations Executive	7 LPA
RA1711002010455	RUDRAKSH SHARMA	Dhobi G	Operations Executive	7 LPA
RA1711002010322	SANJAY KUMAR PRAJAPATI	Alstom	GET	6.5 - 7 LPA

Connect Session Series – Alumni Interactions**Connect Session Series – 5 (CSS- 5) – An Interaction session with Alumni on Placement preparation ideas for Core Companies**

Alumni are invited to give a small motivational talk to their fellow junior students for better interaction and motivation to confidently attend placement process. Also Alumni share their experience and knowledge of the placement process company wise so that the students have an edge and are well prepared for the recruitment process.

Schedule Details					
Date: 27-MAR-2021		Time: 6.30 pm to 8.00 pm		Mode: Online – Google Meet	
Alumni Speaker Details					
S. No	Name		Current Designation	Batch	Reg. No.
1	Mr. Tarun Yadav		Graduate Engineer Trainee, Hyundai Mobis	2020	RA16-794
2	Mr. Gowtham S		Graduate Engineer Trainee, Hyundai Mobis	2020	RA16-160
3	Mr. Kunal Bhand		Operations Engineer Escorts Ltd.,	2020	RA16-538
4	Mr. Abhishek Vats		Design Engineer R&D, Escorts Ltd	2019	RA16-711

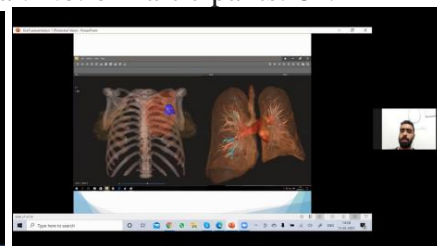
Invitees and Participation Details				
Invitees	UG – Final year, Third year & second year students			
Special Invitees	HOD, II year Prof., in-charge, III year Prof., in-charge, IV year Prof., in-charge, Alumni coordinator			
Participation	Alumni Speakers	Students	Faculty Members	Total
Total Invitees	4	196	21	221
Total Participated	4	86	15	105

Short-term Workshop / Seminar / Webinar / Guest Lecture / FDP organized

1. A Three-day **workshop** on “Lubrication in Automotive Industries” organized by Design Division in association with SRMIST Material Advantage Student Chapter from 27th to 29th April 2021.
Speakers: **Prof. Mayank Tiwari**, IITPatna; **Dr. O P Khatri**, CSIR, Indian Institute of Petroleum, Dehradun; **Dr. T V V L N Rao**, Madanapalle Institute of Technology & Science; **Dr. T CSM Gupa**, APAR Industries Ltd Mumbai; **Dr. Mohad Hafis Sulaiman**, IIUM; **Dr. Jitendra Kumar Katiyar**, SRMIST.
Coordinators: Dr. M. Kamaraj, Mr. A.Vinoth, Mr. D. Kumaran
5. A webinar (**Tech Talk**) on “Additive Manufacturing for Engineers” organized by SRMIST Material Advantage Student Chapter on 26th June 2021 at 4:00 PM. Speaker: **Dr. V. Dhinakaran**, Chennai Institute of Technology.



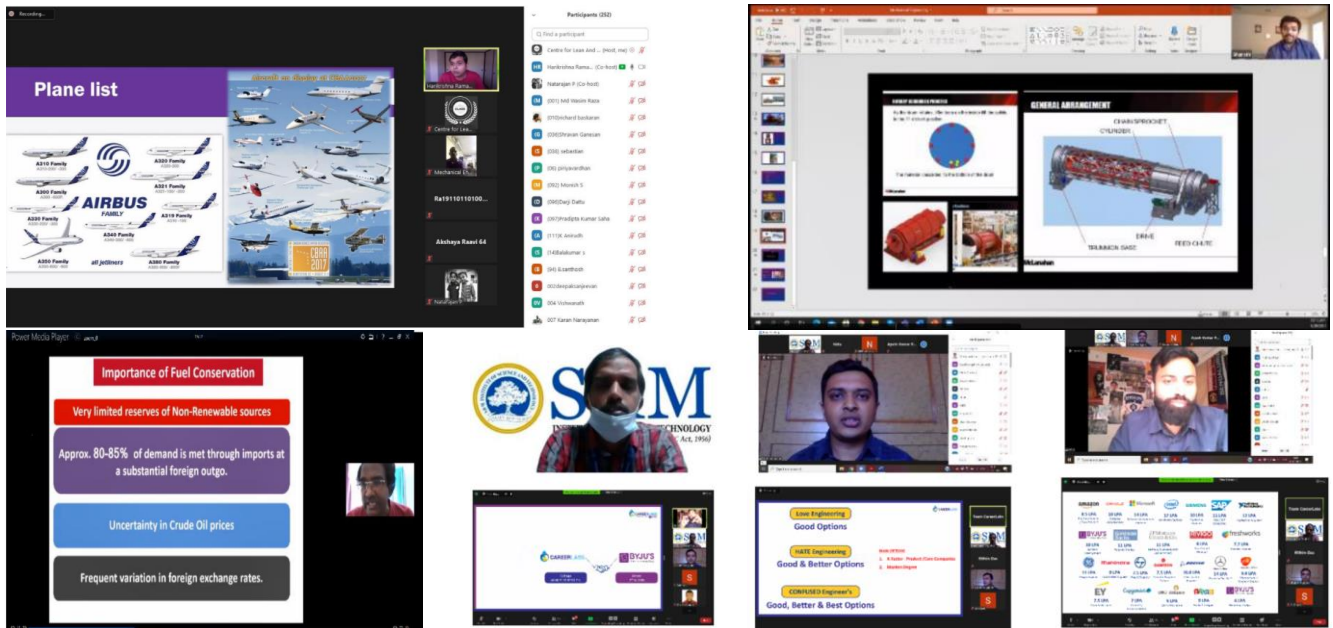
2. One day **workshop** on “3D Printing and Scanning” organized by Design Division on 15th February 2021.
Coordinators: Dr. S. Karuppudaiyan; Mr. J. Daniel Glad Stephen; Dr. Sandipan Roy.
Speakers: **Dr. K. P. Karunakaran**, IITBombay; **Mr. Pingnan Pranvam**, Industrial Consultant – Additive Manufacturing, Bangalore; **Mr. Singaraj Maharajan**, Precise 3D, Chennai. No. of Participants: 62.



3. A **webinar** (guest lecture) on “SAKSHYAM 2021 Energy conservation” delivered by **Mr. Anilkumar Kurapati**, Empaneled Speaker – PCRA arranged by Dr. E. Vijayaragavan in association with Centre for Lean and Six Sigma (CLASS) on 27th January 2021 (11:30 – 12:30 PM). No. of Participants: 47
4. An **alumni interaction** and release of Resonance Vol 2 Iss 2 by **Mr. N. Murali** (1989 batch, Chief General Manager, ONGC, Gujarat), **Mr. Inian Xavier** (1991 batch, President SRM Alumni Association – Chennai Chapter, Founder Directors, Eminent Systems and Services, Chennai), **Mr. Sharathi Sharath Subramonian** (2007 batch, McLanahan Corporation, USA) arranged by Dr. E. Vijayaragavan under Alumni Association on 05th February 2021 (9:30 – 10:30 AM). No. of Participants: 96.



5. An **alumni talk** on “Mechanical Engineering: From text books to real engineering” delivered by **Mr. Sharathi Sharath Subramanian**, McLanahan Corporation, USA arranged by Dr. E. Vijayaragavan in association with Centre for Lean and Six Sigma (CLASS) on 28th January 2021 (9:30 – 11:30 AM). No. of Participants: 178.
6. An **alumni talk** on “Strength of Materials and its Applications in Aerospace” delivered by **Mr. Harikrishna Ramanan; Mr. P. Natarajan**, TCS, Tokyo arranged by Dr. E. Vijayaragavan in association with Centre for Lean and Six Sigma (CLASS) on 19th April 2021 (9 – 10:40 AM). No. of Participants: 252.
7. An **alumni interaction** on “How to crack top rated placements, higher education, scholarship” delivered by **Mr. Shubham Gehlot** (2018 batch, Assistant Manager, BYJU’s), Mr. Nitin Ravi, Founding member, BYJU’s Bengaluru arranged by Dr. E. Vijayaragavan in association with Centre for Lean and Six Sigma (CLASS) on 11th February 2021 (10 – 11:30 AM). No. of Participants: 116.

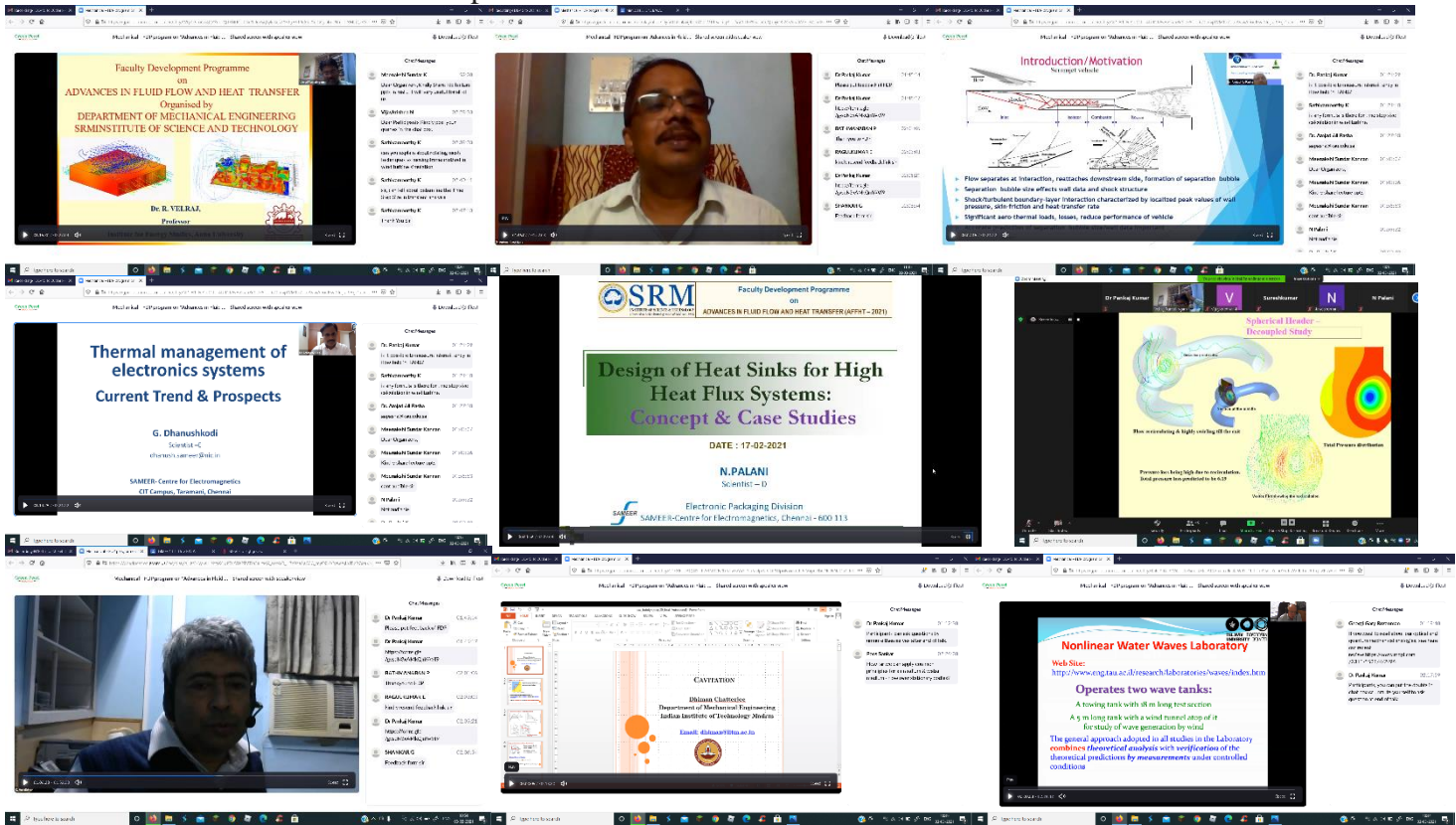


8. A Five days **workshop** on “Recent Trends in Mechanics and its Applications” organized by Design Division, Centre for Lean and Six Sigma (CLASS) in association with MSME Technology Development Centre, Agra from 01st to 05th March 2021. Speakers: **Dr. Mohan Ranganathan**, Professor, University of Tours, France; **Dr. Shantanu Patil**, Associate directors, SRM Innovation Incubation & Entrepreneurship Centre, SRMIST; **Dr. M. Piramanandha**, R&D Manager, ESAB, Chennai; **Dr. V. Magesh**, SRMIST; **Dr. S. Karuppudaiya**, SRMIST; **Mr. Sharath S Sharathi**, Mechanical Engineering Design Specialist, McLanahan Corporation, USA; **Mr. Tamizh Inian**, Founder – Frigate & CAE Engineer, Tectorq, Tiruchirappalli; **Mr. Koteeshwaran Krishnamoorthi**, ETCL Engineer IV, Schlumberger, Coimbatore; **Mr. Kavin Alagesan**, Engineer – Rehabilitation, CMC Vellore; **Mr. Arumuga Pandian D**, Deputy Team Leader, Centre of Excellence Simulation, GEEDS Chennai, Valeo India; **Mr. Mahesh Bahu**, Team Leader, Centre of Excellence Simulation, GEEDS Chennai, Valeo India. Coordinators: Dr. E. Vijayaragavan, Mr. D. Raja, Mr. S. Balamurugan.



9. **Dr. A. Vijaya** acted as one of the evaluation members while conducting Examination Reforms workshop for the three batches (Batch 6, 7 and 8) organized by Chairperson /SME SRMIST during the period 20th March to 19th April, 2021
10. **Dr. R. Senthil** conducted event on the title “Covid-18 Awareness Webinar” at SRMIST on 16/06/2021.
11. **Dr. R. Senthil** coordinated International Women's day celebration at UBA-SRMIST Adopted villages, Thenmelpakkam and Pattaravakkam on 08th March 2021. Five competitions conducted and awarded the winners.

12. A Six-day FDP on “Advances in Fluid Flow and Heat Transfer (AFFHT 2021)” organized by Thermal Division from 15th to 20th February 2021. Speakers: **Dr. R. Velraj**, Anna University, Chennai; **Dr. V. Antony Aul Raj**, Easwari Engineering, Chennai; **Dr. Amjad Ali Pasha**, King Abdulaziz University, South Africa; **Mr. G. Dhanushkodi**, Sammeer; **Dr. Lev Shemer**, Tel Aviv University, Israel; **Dr. Ashis Kumar Sen**, IIT Madras; **Dr. Dhiman Chatterjee**, IIT Madras; **Dr. Purnima Jaliha**, NIOT; **Dr. K. Muralidhar**, IIT Kanpur. Coordinators: Dr. P. Chandrasekaran, Dr. Pankaj Kumar, Mr. P. Sudhakar, Mr. M. D. Kathir Kaman, Mr. S. Bharath Subramaniam, Dr. S. Senthil Kumar. No. of Participants: 53.



13. A three day **Workshop** Special Lecture on “Steel for Automobiles” arranged in the Department from 09th, 10th, and 16th March 2021. Speaker: **Dr. Ranjit Kumar Ray**, AICTE-INAE Distinguished Visiting Professor, Sponsored by AICTE-INAE. Coordinator: Dr. Shubhabrata Datta. No. of Participants: 25.
14. A **guest lecture** on “Technologies of the future - Autonomous Systems” by **Dr. Yong Wang**, Department of Systems Science and Industrial Engineering, Watson School of Engineering and Applied Science, Binghamton University, USA on 30/3/2021. Coordinator: Dr. V. Magesh.
15. A **guest lecture** on “Deep Learning for Agriculture Applications” by **Dr. Subalalitha C N** and **Dr. K. Dhanasekaran**, Department of Computer Science and Engineering, SRMIST, SRMIST-Binghamton University (USA), USA on 15/4/2021. Coordinator: Dr. V. Magesh.
16. A **guest lecture** on “A Digital Transformation in Electronics Manufacturing using IoT, AI and Machine Learning” by **Dr. Sang Won Yoon**, Assistant Professor, Binghamton University, USA on 23/4/2021. Coordinator: Dr. V. Magesh.
17. A **guest lecture** on “Machine Learning in Materials Design” by **Dr. Shubhabrata Datta**, Professor, Department of Mechanical Engineering, SRMIST, on 28/4/2021. Coordinator: Dr. V. Magesh.
18. A **guest lecture** on “Machine Learning in Healthcare Applications” by **Dr. Daehan Won**, Professor, Assistant Professor, Department of Systems Science and Industrial Engineering, Watson School of Engineering and Applied Science, Binghamton University, USA, on 7/5/2021. Coordinator: Dr. V. Magesh.

International Conference Paper Presentation

1. T. R. Sathish Kumar, **G. Balaji**, A. Deepak Kumar, K. Sivanath, S. Thirumalai. "Performance comparison of solar stills with different fin materials coupled with PCM energy storage", in ICATEA 2021, SRMIST, March 19th-20th, 2021.
2. T. R. Sathish Kumar, **G. Balaji**, M. Mohamed Shihan, A. Nithish Kumar, J. Pranav. "Performance investigation on solar still with plate fins and latent heat energy storage", in ICATEA 2021, SRMIST, March 19th-20th, 2021.
3. Vishnu Teja Mantripragada, **Pankaj Kumar**, "An Optimization of Microchannel Heat Sink with Offset Grooves for Enhanced Thermal Performance" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
4. Premkumar, **G. Balaji**, "Evaluation of various wet scrubbing solutions for CI engine exhaust" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
5. **Premnath. D**, Jestin Merril Rodrigues, Aashim Thakur, "Comparison Of Solidification Characteristics In Spherical Capsules Intergrated With Pin Fins And Rectangular Fins" in ICATEA 2021, SRMIST, March 19-20, 2021.
6. Velmuluri Prathik, Udith Kumar Narayanan, **Pankaj Kumar** "Vertical Axis wind turbine based on biomimicry", in ICATEA 2021, SRMIST, March 19-20, 2021.
7. Ayush Kumar Patra, Aditya Tripathi, **N Vijay Krishna** "Design and fabrication of heat sink for exhaust heat recovery system using thermoelectric generator" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
8. Rahul Aravind, Prasanth Chowdary. Y, **Joji Johnson** presented a paper titled "Modelling and Testing of Bifacial solar PV systems" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
9. Nirab Kumar Das, Atthreya Venkatesan, R. Gowtham, **Malarmannan. S, Manikandaraja. G**, "Experimental investigation of Performance and emission characteristics of CI engine fueled Palm stearin biodiesel blended diesel fuel" in ICATEA 2021, SRMIST, in ICATEA 2021, SRMIST, March 19th-20th, 2021.
10. Umapathy A and **I. Infanta Mary Priya**, "High Speed Machining of Ti-6Al-4V Alloy on the Microstructure and the Wear Behavior of Carbide Insert Under Dry Lubrication Condition" in ICRAMER 2021, SRMIST, 15th - 16th April 2021.
11. Fouzan Ali, Vibhor and **I. Infanta Mary Priya**, "Experimental Study on the Tribological Properties of Polymer Composites", in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
12. Suresh Balaji, Prem Kumar and **I. Infanta Mary Priya** presented a paper titled "Experimental Study on Fibre metal Composites" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
13. Nagulash Rahul B [B.Tech Final Year], RV Nanditta [B.Tech Final Year], Nirab Kumar Das [B.Tech Final Year], R. Gowtham [B.Tech Final Year], Atthreya Venkatesan [B.Tech Final Year], Rohit Ragesh [B.Tech Final Year], **Mr. J. Daniel Glad Stephen**. "Autonomous obstacle avoidance robot using IR sensors programmed in Arduino UNO" in ICAMED 2021, SRMIST, 3rd - 4th May, 2021.
14. Nirab Kumar Das, RV Nanditta, Nagulash Rahul B, R. Gowtham, Atthreya Venkatesan, Rohit Ragesh (B.Tech Final Year), **Mr. J. D Stephen G**. "Structural Design and analysis of high-powered model rockets using open Rocket" in ICAMED, SRMIST, 3rd - 4th May, 2021.
15. Nirab Kumar Das, RV Nanditta, Nagulash Rahul B, R. Gowtham, Atthreya Venkatesan, Rohit Ragesh (B.Tech Final Year), **Mr. J. D Stephen G** "Gesture controlled mobile robot with Dynamic hand gestures using ADXL335" in ICAMED 2021, SRMIST, 3rd-4th May, 2021.
16. R. Gowtham, Nirab Kumar das, Atthreya Venkatesan, (B.Tech Final Year), **Malarmannan S, ManikandaRaja G**. "Comparison of performance and emission characteristics of Diesel engine fuelled with different blends of Biodiesel" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
17. R. Gowtham [B.Tech Final Year Student], R.V. Nanditta [B.Tech Final Year Student], **Mr. Manikandaraja G, Mr. S. Malarmannan** "Experimental investigation of performance of shell and coil heat exchanger in waste heat recovery systems in CI engine" at ICATEA 2021, SRMIST, March 19th-20th, 2021.
18. Nagulash Rahul B [B.Tech Final Year Student], R.V. Nanditta [B.Tech Final Year], Kunal Goyal [B.Tech Final Year Student], **Dr. G Balaji**. "Review on Process Development and Challenges in Biomass Pyrolysis", ICATEA 2021, SRMIST, March 19th-20th, 2021.
19. Kunal Goyal [B.Tech Final Year], R.V. Nanditta [B.Tech Final Year], **S. Senkathir, A.C. Arun Raj, and T. Geethapriyan**, "To Study the Weldability Of Inconel 625 And Stainless Steel 410 Using Different Flux And Filler Material" in ICAMM 2021, SSN Chennai, 18th - 19th February 2021.
20. Kunal Goyal [B.Tech Final Year], R.V. Nanditta [B.Tech Final Year], **A.C. Arun Raj, S. Senkathir, and T. Geethapriyan** "Performance Characteristics of Abrasive Water-Jet Machining on Monel 400 Using Two Different Abrasive Grain Size" in ICAMM 2021, SSN Chennai, 18th - 19th February 2021.

21. Kunal Goyal [B.Tech Final Year], RV Nanditta [B.Tech Final Year], Potteli DharmaTeja [B.Tech Final Year], **Malarmannan S** and **Manikandaraja G**. "Analysis of Refrigerants Tetrafluoroethane and Difluoroethane in Vapor Compression Refrigeration System" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
22. **E.Muthu**, Harshini .N [B.tech final year student], Linsha Pious .S [B.tech final year student], "Numerical Analysis of Dynamic Stability of a Cantilever Boring Tool using Impact Damper in the Virtual" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
23. Harshini .N [B.tech final year student], Linsha Pious .S [B.tech final year student], **SaravanaKumar. R, T Rajasekaran** "Numerical Modelling of Thermal Phenomenon in Friction Stir Welding of Aluminum Plates AA5083 Military Grade Aluminium Alloy Joints by Underwater Conditions" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
24. Linsha Pious S [B.tech final year student], Harshini N[B.tech final year student], **E.Muthu** "Numerical Analysis of Dynamic Stability of a Cantilever Boring Tool using Impact Damper" in the Virtual in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
25. Elangovan K, **Arul Jeyakumar A, Prakash M**, Madhur Madan, Ankit Gangishetti, "The Influence of mineral based Nano dust particles from grinding of the automobile brake-pad on Physical and Thermal Properties of Polyimide/Basalt fibre composites" in ICONN 2021, SRMIST, 1st – 3rd February 2021.
26. M. Ramnaath [First Year M.Tech Robotics], D Bhanu Priya [Research scholar], Se Jin Park, **Murali Subramaniyam**. "The Experimental Study on Change in Lifting Capacity and Isometric Muscle Strength due to Aging". NCREAT –2021, SRMIST, March 11th -12th 2021.
27. D Mounika [First Year M.Tech Robotics], D Bhanu Priya [Research scholar], Se Jin Park, **Murali Subramaniyam**. "A Study on Balance and Foot Pressure Distribution while Carrying Load in Different Postures". NCREAT –2021, SRMIST, March 11th -12th 2021.
28. Uma, M., **S. Prabhu, Murali Subramaniyam**, and Seung Nam Min. "Analysis of Effect of RSVP Speller BCI Paradigm Along with CNN to Analysis P300 Signals." 23rd International conference on Human-Computer Interaction (HCII2021), Washington DC, USA, July 24-29, 2021.
29. Suman Penumerthy, Seung Nam Min, **Murali Subramaniyam**. "A Systematic Review on Blood Pressure Measurement Technologies and Calibration Techniques". 12th International Conference on Applied Human Factors and Ergonomics (AHFE 2021) and the Affiliated Conferences (AHFE 2021), USA, July 25-29, 2021.
30. **R. Ambigai** and **S. Prabhu**, "Processing, Characterization and Optimization of Functionally Graded Al-16Si alloy with Boron Carbide" in ICONN 2021, SRMIST, 1st – 3rd February 2021.
31. Aditya Sai Deepak, Udit Mohanty and **Vijaya A**, "Development of Virtual lab for plotting variable Control charts for determining the Process Capability of a Machine" in ICAMED 2021, SRM IST, 3rd - 4th May, 2021.
32. Shubham Kumar, Arun Krishna Mani, **Vijaya A**, "Simulated digital image generation for different surface topography and defect detection using an optical bench" in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
33. Allen Thomas and **R. Ambigai**, "Designing and Modelling of Peat Detection and Spraying of Pesticide Robot" in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
34. Steve James and **R. Ambigai**, "Design and Modelling of a Pipeline External Surface Crack Detection (Pi-XTS) Robot" in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
35. **V. Magesh**, C. R.Venkatakrishnan and E. Reganmicheal "Transient and Modal analysis of Gudgeon Pin" in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
36. Hariharan A, Raja Dhason And **Sandipan Roy G** "Design of Short Term Locking Plate For Fixation Of The Greater Trochanter For The Peri-Prosthetic Femur Bone Fracture in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
37. **A.Vinoth** and **Shubhabrata Datta** "Computational design of hybrid UHMWPE composites suitable for hip prosthesis through machine learning" International Conference on Recent Advances in Applied Sciences, Technology & Health, Bio-medical engineering, SRMIST, 3rd to 5th March, 2021
38. **T. Rajasekaran**, Prathish Kumar, "Comparative Analysis of Mechanical and Metallurgical Behaviour of Die Casting and Friction Stir Process" in ICAMED 2021, SRM IST, 3rd-4th May, 2021.
39. **R. Saravanakumar** and **T. Rajasekaran**, "Effect of Process Parameters on Friction Stir Welded AA5083" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
40. Alafiya Talib, Ishan Thakre and **R. Ambigai**, "Fabrication and Analysis of Mechanical and Thermal Properties of Hybrid Aluminium Composites" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
41. Steve James and **R. Ambigai** "Development of Pipeline Inspection Robot using Additive Manufacturing" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.

42. Himadri Shankar Paul, Chitransh Johari, **R. Ambigai** and **S. Dinesh** "Tribological Studies on Aluminium Based Functionally Graded Materials" in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
43. **Mr. Sundar Singh Sivam S.P**, Sai Raghav, Ibrahim, "Review on Machine Learning Approaches in Sheet Metal Forming - Present and Future Perspective", in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
44. Arivarasan J, **Deepan Bharathi Kannan T**, Sampath Kumar S, Preet Shah, "Application of GRA Optimization Technique in Double Pulse MIG Welding of IN617- SUS 304H" " in ICRAMER 2021, SRMIST, 15th & 16th April 2021.
45. S. Oliver Nesa raj, **S.Prabhu**, "Design and fabrication of high precision vacuum chuck for grinding single crystal silicon substrates", in ICEE2K21, Syed Ammal Engineering College, 25th -26th June 2021.
46. Mrs. U. Kaaviya Priya, **Dr R. Senthil**, "Review on Plant as a Material to Control the Heat Stress of Tropical Urban Areas", in ICON-BEST 2021 at SAID, SRMIST, 21st February 2021.
47. Amjad Ali Pasha, Mohammed Mahdi Abdulla, **D. Siva Krishna Reddy**, S. Natarajan Pillai, Nazrul Islam, Khalid A. Juhany "Turbulent Hypersonic Flow Study over Flat Plate at Different Mach Numbers " in ICFD14, Fairmont Nile City Hotel, Cairo, Egypt, 2nd -3rd April, 2021.
48. Teja. P, S.Rahul Kumar, **K.Suresh Kumar**, **G.Balaji**. "Experimental investigation on the influence of reducing agents in a Vanadium based catalytic converter of CI engines for emission control", in ICATEA 2021, SRMIST, March 19th-20th, 2021.
49. Gunjit Rawat, Swaraj kumar swain, S Suresh Kumar, **G. Balaji**. "Performance, combustion and Emission Analyses of a waste plastic oil fuelled diesel engine with variable compression ratio", in ICATEA 2021, SRMIST, March 19th-20th, 2021.
50. A Rahul Aravind, Prasanth Chowdary Y and **Joji Johnson**, "Front and Rear Irradiation Model of Photovoltaic Panel" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
51. Benny Thompson EJ, **M.Gunasekaran** presented a paper titled "Review report on laminar separation at low Reynolds numbers" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
52. B. Sivakumar, **P. Chandrasekaran**, "Temperature profile of the HTF in packed bed storage during the solidification process in spherical capsules" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
53. Jaisreekar Reddy R, Mihir Shirke, **Pankaj Kumar**, "Modeling of Hydrodynamic Cavitation in Venturi: Influence of Air Injection on Inception and Developed Cavitation" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
54. Vishnu Teja Mantripragada, **Pankaj Kumar**, "An Optimization of Microchannel Heat Sink with Offset Grooves for Enhanced Thermal Performance" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
55. **V. Mathan Raj**, **G. Manikandan Raja**, Yash Manoj Mandal, Chetan Bharadwaj, "Performance And Combustion Study on CRDI Engine with Simarouba Oil as a Alternate Fuel" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
56. **G. Balaji**, Sanket Mankar, Anand Kumar, "Study on CRDI engine for the various fuel injection pressures" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
57. S.Premkumar, **G.Balaji**, "Evaluation of various wet scrubbing solutions for CI engine exhaust" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
58. D. Bharathwaj, B. Sathish Kumar, E. Vengadesan, **R. Senthil**, "Recent Advancements In Performance Augmentation Of Hybrid Flat Plate Solar Collectors" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
59. **Premnath.D**, Jestin Merril Rodrigues, Aashim Thakur "Comparison of Solidification Characteristics in Spherical Capsules Intergrated with Pin Fins and Rectangular Fins" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
60. Shivansh Kalra, Ayush Agrawal, S.Arul KumaR, **Dr.V.Mathan Raj**, "Experimental Investigation of IC Engine Performance with Calophyllum Inophyllum Biodeisel" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
61. **D. Siva Krishna Reddy**, Ankit Chordia, Manish Manoj, "Influence of wall heat transfer on the performance of single cylinder diesel engine with 3 hole fuel injector" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
62. **G.Balaji**, M.Suriya, S.Shirish, M. Adith Murari, S. Prem Kumar "Investigation of after treatment technique to mitigate emission in IC engine" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
63. **G.Balaji**, M.Suriya, M.Vigneshwar, Saandeep Shapthagiri, S. Prem Kumar, "Study of Cerium Silica as a catalyst in CI engine fuelled with plastic oil blend" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
64. Ramanathan Kumar, Hrishiraj Anil Kumar, B.M.S. Punniakodi, **R. Senthil**, "Melting behavior of PCM in cylindrical thermal energy storage containers" in ICATEA 2021, SRMIST, March 19th-20th, 2021.
65. **P Sundaram**, L Nitin, S Ronak Jain, "Experiment on solidification characteristics of graphene NFPCM for cold thermal storage systems" in ICATEA 2021, SRMIST, March 19th-20th, 2021.

66. **V Thirunavukkarasu**, Pulivarthi Venkata Sai, Tadikalapudi Sri Vishnu, “Performance investigation of a light weight solar receiver for a dish type concentrator” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
67. Obada Omar Issa, **V. Thirunavukkarasu**, P. Sudhakar, “Novel Designs Of Cavity Receiver For Solar Parabolic Dish Concentrator” in ICATEA 2021 DEPARTMENT OF MECHANICAL ENGINEERING, SRM IST, Chennai, India.
68. Ayush Kumar Patra, Aditya Tripathi, **N Vijay Krishna**, “Design and fabrication of heat sink for exhaust heat recovery system using thermoelectric generator” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
69. V R Vighas, G Harish, **S Bharath Subramaniam**, “Recent advances in concentrated solar absorber designs” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
70. Shrey Agarwal, Shreyan Sinha, **S.Ponsankar**, “Performance Improvement of Terra-Cotta Method for Natural Cooling Application” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
71. Parthiban Kasi, **M. Cheralathan**, “Review of Cascade Refrigeration Systems for Vaccine Storage” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
72. Gunjit Rawat, Swaraj kumar swain, S Suresh Kumar, **G. Balaji**, “Performance, combustion and Emission Analyses of a waste plastic oil fuelled diesel engine with variable compression ratio” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
73. Nanda kumar S, **Chandrasekaran P**, “Solidification behavior of water based Al₂O₃ nanofluids phase change material for energy efficient cool thermal storage system” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
74. V. Rajakumaran, **T. Lakshmanan**, “Process modelling of MSW (RDF) gasification exergy analysis” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
75. Apoorv Shukla, Aman Mishra, **Panneerselvam.S, Mathanraj.V**, “Performance, Combustion and Emission Characteristics of A Diesel Engine Fuelled With Bio Fuel and Oxygenated Additives” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
76. Rishav Dey, Madhav Sreekumar, **Panneerselvam.S, Mathanraj.V**, “Experimental Investigation Of Performance And Emission Characteristics Of Ci Engine Fuelled With Linseed Oil With Methanol Additives” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
77. **M.D. Kathir kaman, M. Cheralathan**, Vedansh Sharma, Aditya Viswanathan, “Rheological behavior on MWCNT based nanofluids for both Cooling and Heating applications” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
78. Akshaykumar U, Nishad T, **V Praveena**, “Effect of Additives and Injection Timings in a CRDI Engine” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
79. **Premnath.D**, V.B. Vamsi, Manu tomar, “Freezing characteristics in finned LDPE spherical capsule” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
80. Rohan Raju Ramchandran, A V Sai Sriharsha, **Dr. Lakshmanan Thangavelu**, “Electric Modular Vehicle” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
81. Teja. P, Rahul kumar. S, Suresh kumar. K, **Balaji. G**, “Experimental investigation on the influence of reducing agents in a Vanadium based catalytic converter of CI engines for emission control” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
82. Pradeep Balaraaman, **P. Chandrasekaran**, “Influence of loading cycle time on the performance of Hydraulic Excavator in a Construction Site” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
83. **K.Sathiyamoorthy**, N. Nandha Sri Varma, M. Showrinath, “Numerical Analysis of Darrieus Vertical Axis Wind Turbine using Omni-Direction Guide Vane” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
84. **K.Sathiyamoorthy**, G. Naveen Kumar, Rohith Allenki, “Effect of Pitch Angle in the Performance of Wind Turbine using Numerical Techniques” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
85. Debi Prasad Jena, Saurabh Karveer, **T Lakshmanan**, “Design And Fabrication Of Gasifier For Msw (Municipal Solid Waste)” in ICATEA 2021, SRMIST, March 19th-20th, 2021.
86. Velmuluri Prathik, Udith Kumar Narayanan, **Pankaj Kumar**, “Vertical Axis wind turbine based on biomimicry”, in ICATEA 2021, SRMIST, March 19th-20th, 2021.
87. Janaarthanane T [B. Tech – Final Year], Sai Venkat K V [B. Tech – Final Year], D. Bhanu Priya [Research scholar], **Murali Subramaniam**. "Study on Effect of Smartphone (Texting/Gaming) on Thumb Muscle Activities". International Conference on Recent Advances in Manufacturing Engineering Research (ICRAMER 2021), April 15-16, 2021, SRM IST, Kattankulathur, Chennai, India.

88. R.V. Nanditta [B. Tech Third Year], "Performance characteristics of abrasive water – jet machining on monel 400 using two different abrasive grain size" International conference on Advances in Materials and Manufacturing (ICAMM 2021) organized by SSN College, Chennai. 18-19 February, 2021
89. R.V. Nanditta [B. Tech Third Year], Unal Goyal [B. Tech Third Year] , "Analysis of refrigerants tetrauroethane and diuroethane in vapour compression refrigeration system " International conference on Advances in Thermal Engineering and Applications held on 19/03/2021 organized by SRMIST, Kattankulanthur
90. Yogeshwar B [B. Tech Third Year] has participated in two-day workshop on "Engine assembly and disassembly " at srm institute of science and technology held on 7th and 8th february, 2020 organised by asme student section of mechanical engineering, SRMIST, Kattankulanthur
91. Suman Penumerthy, Seung Nam Min, **Murali Subramaniyam**. "A Systematic Review on Blood Pressure Measurement Technologies and Calibration Techniques". 12th International Conference on Applied Human Factors and Ergonomics (AHFE 2021), USA, July 25-29, 2021.
92. M. Uma, **S. Prabhu**, **Murali Subramaniyam**, Seung Nam Min. "Analysis of Effect of RSVP Speller BCI Paradigm Along with CNN to Analysis P300 Signals". 23rd International Conference on Human-Computer Interaction (HCII2021), Washington DC, USA, July 24-29, 2021.
93. BMS Punniakodi, **R Senthil**, "Effect of the Vertical and Horizontal Orientation of Heat Transfer Tube on Charging of Phase Change Material in a Cylindrical Container", 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE 2021) organized by National Institute of Technology Jalandhar, Punjab, on 18.07.2021.
94. **S. Arun Prasath**, **V. Veeranaath**, K Pavan Teja, Bijay Prasad, "Wear and Tensile Behaviour of Aluminium Matrix Hybrid Composties", ICAMED 2021, May 2021, SRMIST, Kattankulathur.
95. **S Arun Prasath**, **V Veeranaath**, K Pavan Teja, Bijay Prasad, "Fabrication and Characterization of Aluminium Matrix Hybrid Composites" ICRAMER 2021, April 2021, SRM IST, Kattankulathur.

Research day presentation (25/02/2021) at SRM IST:

1. S. Premkumar and **G.Balaji**. "Experimental investigation of emission-reducing in a diesel engine by comparing different chemical solution using scrubber treatment", in Research Day 2021, SRMIST, Kattankulathur.
2. **Joji Johnson** and **S Manikandan**. "Radiation Modelling of Bifacial Photovoltaics" in Research Day 2021, SRMIST, Kattankulathur.
3. **D.Premnath**, **P Chandrasekaran** and **L R G Subramanian**, "Effect of container material on solidification characteristics of Deionised water in spherical container" in Research Day 2021, SRMIST, Kattankulathur.
4. V Rajakumaran, V Dillibabu and **T Lakshmanan**, "Design and modelling of MSW-RDF gasifier", in Research Day 2021, SRMIST, Kattankulathur.
5. **Sivashankar M**, **Selvam C** and **Manikandan S**. "Experimental investigation on the thermal management of concentrated photovoltaics cells using phase change materials" in Research Day 2021, SRMIST, Kattankulathur.
6. **S.Ponsankar** and **Pankaj Kumar**, "Flow analysis over circular cylinder at different shape ratios" in Research Day 2021, SRMIST, Kattankulathur.
7. **N Vijay Krishna** and **S Manikandan**, "Study on effect of square pulse current for the cuboidal leg shape for thermoelectric cooler" in Research Day 2021, SRMIST, Kattankulathur
8. **K.Sathiya Moorthy** and **Pankaj Kumar**, "Numerical and experimental analysis of performance of vertical axis wind turbine in applications in energy efficient buildings" in Research Day 2021, SRMIST, Kattankulathur
9. **J.Thavamani** and **Pankaj Kumar**, "A study on flow boiling and heat transfer characteristics in the microchannel and minichannel" in Research Day 2021, SRMIST, Kattankulathur.
10. D. Bhanu Priya and **Murali Subramaniyam**, "Study on the Effect of Prolonged Smartphone Usage its Associated Health Risk" in Research Day 2021, SRMIST, Kattankulathur.

Student Events [Internship, Courses, Training, Workshop Completed/Attended]

1. Mr. Harin Sanjaybhai Bhatt [Second year B. Tech Mechanical] participated in Formula Bharat Academy Workshop 2021(FBAC) on 26-27, 2021.
2. Mr. Harin Sanjaybhai Bhatt [Second year B. Tech Mechanical] attended SOLIDWORKS STTP workshop on 31st August to 4th September, 2020.
3. Mr. Harin Sanjaybhai Bhatt [Second year B. Tech Mechanical] with team Camber Racing Participated in FORMULA BHARAT 2021 in combination virtual event on 23rdJAN - 21st FEB, 2021.
4. Mr. Harin Sanjaybhai Bhatt [Second year B. Tech Mechanical] with team Camber Racing Participated in FORMULA BHARAT 2021 in combination virtual event on 23rdJAN - 21st FEB, 2021.
5. Mr. Dopp Govardhan [Second year B. Tech Mechanical] attended SOLIDWORKS STTP workshop on 12st July to 12th August, 2021.
6. M. Vasudevan [Second Year B. Tech Mechanical] attended e-training Program on “Incident Response System: Basic & Intermediate” Organized by National Institute of Disaster Management, Minister of Home Affairs, Govt. of India in Collaboration with Unnat Bharat Abhiyan Cell (UBA), SRM Institute of Science and Technology, Chennai from 19th May 2021 to 21st May 2021 (3 Days).
7. M. Vasudevan [Second Year B. Tech Mechanical] participated in a webinar “Career track in Data Science” organized by Nordic Academy on 29th May 2021 (1 Day).
8. M. Vasudevan [Second Year B. Tech Mechanical] participated in a webinar “Machine Learning in Materials Design” organized by SRM Institute of Science and Technology, Chennai on 28th April 2021 (1 Day).
9. M. Vasudevan [Second Year B. Tech Mechanical] participated in Aptitude Buster National Contest – India’s Largest Online Aptitude Test for Engineering Students held on 27th June 2021 (1 Day).
10. Konala Surya Prakash Reddy [Second Year B. Tech Mechanical] participated in a webinar “Deep Learning for Agricultural Applications” organized by SRM Institute of Science and Technology, Chennai on 15th April 2021 (1 Day)
11. Akash Pradhan [Second Year B. Tech Mechanical] has been awarded competency in MyCaptain’s Python Programming Course for the month of April 2021
12. Akash Pradhan [Second Year B. Tech Mechanical] has successfully completed Remark Skill Live online training and Internship Program from 17th May 2021 to 27th June 2021.
13. Arpan Ladha [Second Year B. Tech Mechanical] has been certified for Mechanical Design at the level of Associate and Professional by Dassault Systems on 13th September 2020
14. Mayank Raj [Second Year B. Tech Mechanical] attended a workshop titled” Introduction to Electric Vehicles” organized by Skill Lync on 1st September 2019 (1 Day)
15. Mayank Raj [Second Year B. Tech Mechanical] completed 7 day JavaScript and Backend with Node JS bootcamp with ShapeAI
16. Chodagam Hari Ramalakshmi Narasimha Rao [Second Year B. Tech Mechanical] participated in a webinar “Deep Learning for Agricultural Applications” organized by SRM Institute of Science and Technology, Chennai on 15th April 2021 (1 Day).
17. Inaganti Navyesh [Second Year B. Tech Mechanical] participated in a webinar “Machine Learning in Materials Design” organized by SRM Institute of Science and Technology, Chennai on 28th April 2021 (1 Day).
18. Anurag Mahapatra [Second Year B. Tech Mechanical] participated in the online webinar on “Awareness of National Education Policy 2020” Organized by Unnat Bharat Abhiyan Cell, SRM Institute of Science and Technology, Kattankulathur 603203, Tamilnadu held on 21st September 2020 (1 Day)
19. Anurag Mahapatra [Second Year B. Tech Mechanical] participated in the Maths Quiz conducted at e-IMF -2020 by Sri Ramanujan Mathematics Club with the Department of Mathematics, SRM IST Kattankulathur on 9th October 2020 (1 Day)
20. Anurag Mahapatra [Second Year B. Tech Mechanical] has Successfully completed a six weeks online training on Programming with Python and Anurag scored 95 % marks in the final assessment and is a top performer in the training. The Training was conducted during Feb- March 2020.
21. Anurag Mahapatra [Second Year B. Tech Mechanical] has Successfully completed a six weeks online training on SOLIDWORKS and Anurag scored 100 % marks in the final assessment and is a top performer in the training. The Training was conducted during August- September 2019.
22. Ashish Kumar [Second Year B. Tech Mechanical] successfully completed long internship programme at Chandan Automobiles (Hero MotoCorp Ltd.) from 1st September 2020 to 31st September 2020 (one month)

23. Satyam Prasher [Second Year B. Tech Mechanical] successfully completed What is Data Science? Online one credit course authorized by IBM and offered through Coursera on 11th April 2021
24. Yash Sameer Sunkle [Second Year B. Tech Mechanical] Received First Position in Defense Services Hackathon 2021 (SIIC). Organized by SRM Innovation and Incubation Centre, SRMIST Kattankulathur, 19th to 21th March 2021.
25. Kamuju Jathin [Second Year B. Tech] Completed two weeks virtual internship of industrial training on advanced automotive familiarisation in Ashok Leyland. 3rd to 16th May 2021.
26. Shrihari Kantanavar [Second Year B. Tech] Completed 2-weeks Industrial Training in a Mechanical Domain sector at NHK F.Krishna India Automotive Seating PVT.LTD which supplies seats to Renault & Nissan, 24th June to 7th July 2021.
27. Baikani Rakesh Baikani [Second Year B. Tech Mechanical] Completed two weeks virtual internship of industrial training on advanced automotive familiarisation in Ashok Leyland. 3rd to 16th May 2021.
28. Mano Ranjan P [Second Year B. Tech] completed Python from CSC computer from 01-01-2021 to 01-03-2021.
29. Ponnana Krishna Chaitanya [Second Year B. Tech Mechanical] attended an industrial training in Ashok Leyland from 3rd May 2021 to 16th May 2021 (14 Days).
30. A. R. Suriya Devalan [Second Year B. Tech Mechanical] attended an industrial training in Ashok Leyland from 3rd May 2021 to 16th May 2021 (14 Days).
31. Aayush Mukati [Second Year B. Tech Mechanical] attended an industrial training in Western Railway (Coaching Depot Indore) from 5th June 2021 to 19th June 2021.
32. R. Manoj [Second Year B. Tech Mechanical] attended an industrial training in Ashok Leyland from 3rd May 2021 to 16th May 2021 (14 Days).
33. Velivela Madhu Babu [Second Year B. Tech Mechanical] attended an industrial training in TAFE from 8th July 2021 to 6th August 2021.
34. Ketan raj [Second Year B. Tech Mechanical] attended an industrial training in Larsen & Toubro from 23rd June 2021 to 22nd July 2021.
35. K. Vigneshwaran [Second Year B. Tech Mechanical] attended an industrial training in Ashok Leyland from 3rd May 2021 to 16th May 2021 (14 Days).
36. R. Sandesh [Second Year B. Tech Mechanical] attended an industrial training in Ashok Leyland from 3rd May 2021 to 16th May 2021 (14 Days).
37. Prayanushu Agarwal [Second Year B. Tech Mechanical] attended an industrial training in Agrasen Engineering Industries Pvt. Ltd from 28th June 2021 to 02nd July 2021.
38. Aryan Raj [Second Year B. Tech Mechanical] has completed one day workshop on "Fundamentals of Car Design Workshop" from Launchpad Academy.
39. Aryan Raj [Second Year B. Tech Mechanical] has Attended two days ASME E-Fests.
40. Aryan Raj [Second Year B. Tech Mechanical] has attended one day workshop on 'Modernized Automotive Dynamics Workshop.
41. Aryan Raj [Second Year B. Tech Mechanical] has completed four weeks virtual internship on ANSYS from SKYY Rider Institutions.
42. Aryan Raj [Second Year B. Tech Mechanical] has completed one day webinar on Autonomous Systems.
43. Aryan Raj [Second Year B. Tech Mechanical] has Participated in the 4th National Engineering Olympiad
44. Shiva Sailam [Second Year B. Tech Mechanical] has Participated in the Solar ambassador workshop, quiz
45. Priyank Kapoor [Second Year B. Tech Mechanical] has Participated and got volunteering Certificate by IEEE for HackTriX
46. Priyank Kapoor [Second Year B. Tech Mechanical] got certificate of Appreciation by IEEE for Concepto.
47. Md Shahbaz [Second Year B. Tech Mechanical]] has Participated in three hours webinar on role of youth in attaining atmannirbhar Bharat in Energy
48. Rohit Sumit Kundu [Second Year B. Tech Mechanical] has Participated in NEO - NATIONAL ENGINEERING OLYMPIAD and scored 110/180 in the first round.
49. Rohit Sumit Kundu [Second Year B. Tech Mechanical] has Participated in Automobile and IC engine course by Technophilia , Azeotropy IIT BOMBAY.
50. Rohit Sumit Kundu [Second Year B. Tech Mechanical] has Participated in Bosch Training on SI Engines and CI engines.

51. Rohit Sumit Kundu [Second Year B. Tech Mechanical] has Participated in workshop on "building face recognition application using Python
52. Shashank.B [Second Year B. Tech Mechanical] has participated in advanced solid works on intershala platform and applied the skills learnt on "radial engine" project.
53. Shashank.B [Second Year B. Tech Mechanical] has Participated in attended a technical talk or webinar by Mr. Rajesh Ojha on "FAILURE ANALYSIS".
54. Shashank.B [Second Year B. Tech Mechanical] has Participated in five day workshop organized by MSME INS association with SRM about "recent trends in mechanics and its applications." and the topics such as strength of structures, Use of 3DPrinting Design in Human Anatomy Reconstruction, projects undertaken by the company Frigate, etc. were discussed.
55. Shashank.B [Second Year B. Tech Mechanical] has joined in solar society of India with the guidance of faculties.
56. Shashank.B [Second Year B. Tech Mechanical] has Participated in a quiz on world hypertension day, organized by PG dept. of KAMARAJ COLLEGE
57. Shashank.B [Second Year B. Tech Mechanical] has Participated in Energy Swaraj solar certification quiz
58. Jagannath Pradhan S [Second Year B. Tech Mechanical] has Participated in Three hours webinar on role of youth in attaining atmannirbhar Bharat in Energy
59. Parth Barole [Second Year B. Tech Mechanical] has participated in Three-Day Workshop on “Lubrication in Automotive Industries”
60. Parth Barole [Second Year B. Tech Mechanical] has participated in 2month internship on design and development of electric car
61. Parth Barole [Second Year B. Tech Mechanical] has participated in 4th National Olympiad
62. Parth Barole [Second Year B. Tech Mechanical] has participated in Perfect shades tech event Online virtual training on two-wheeler technology
63. R. Mohan [Second Year B. Tech Mechanical] has participated in the webinar on ' Machine learning in Material designs' held on April 28, 2021 with Binghamton University
64. R. Mohan [Second Year B. Tech Mechanical] has participated in the webinar on ' Autonomous systems ' held on March 30, 2021 with Binghamton University.
65. R. Mohan [Second Year B. Tech Mechanical] has participated in a short course on ' Learn to design your own solar home system ' awarded by Energy swaraj foundation in association with SRMIST.
66. R. Mohan [Second Year B. Tech Mechanical] has participated in the online three days' workshop on ' Lubrication in Automotive industries ' organised by SRMIST from 27 to 29th April 2021
67. Shreyansh Chaturvedi [Second Year B. Tech Mechanical] has participated in the ANSIS training on 3D modelling.
68. Shreyansh Chaturvedi [Second Year B. Tech Mechanical] has participated in the three hours webinar on role of youth in attaining atmannirbhar Bharat in Energy
69. Shreyansh Chaturvedi [Second Year B. Tech Mechanical] has participated in the "Workshop on Engine Management System, Indian EV marketing and careers in EV industries
70. Shreyansh Chaturvedi [Second Year B. Tech Mechanical] has participated in the webinar on CFD simulation on Li Batteries
71. Shreyansh Chaturvedi [Second Year B. Tech Mechanical] has participated in the e- Quiz on hypertension in view of world hypertension day – 2021
72. Abhijith B [Second Year B. Tech Mechanical] has participated in the three hours webinar on role of youth in attaining atmannirbhar Bharat in Energy
73. Raj Shekhar Baruah [Second Year B. Tech Mechanical] has completed 40 hours course on solidworks
74. Raj shekhar Baruah [Second Year B. Tech Mechanical] has completed 40 hours course on Autocad (2D and 3D).
75. R. Gowtham [B.Tech Third Year Student], attended a workshop on “Future automotive systems with BOSCH” conducted by Skyy rider institutions.
76. R. Gowtham [B.Tech Third Year Student], attended a workshop on “Electric vehicle and battery technology” conducted by Skyy rider institutions.
77. R. Gowtham [B.Tech Third Year Student], attended a workshop on “CNC manufacturing and programming” conducted by Skyy rider institutions
78. R. Gowtham [B.Tech Third Year Student], attended a workshop on “Slipper clutch technology in bikes” conducted by Skyy rider institutions.

79. Nagulash Rahul B. [B.Tech Third Year Student], attended a workshop on " Engineering Behind Buggati Veyron" by elite techno groups (April 2021)
80. Nagulash Rahul B. [B.Tech Third Year Student], attended workshop on " Hybrid Electric Vehicles Powertrain and Components" by elite techno groups (April 2021)
81. Nagulash Rahul B. [B.Tech Third Year Student], attended workshop on " Kawasaki Z1000 Engine Exhaust - CFD" by elite techno groups (April 2021)
82. Kunal Goyal [B.Tech Third Year Student], attended a webinar on "Six Sigma and Process Excellence" organized by ASME, SRMIST (18th January 2021).
83. Linsha Pious S[B.tech Third year student]has attended Two days webinar on " Fluid Dynamics "organized by the Department of Applied Mathematics , Sri Venkateswara College of Engineering held on 22nd and 23rd June 2021.
84. Linsha Pious S [B.tech Third year student] through coursera project network completed Build a Full Website using WordPress an online non - credit course authorized by Coursera Project Network and offered through Coursera
85. Nidish., attended summer training at "Isnee Motorsport summer internship" (Virtual mode) on June-July 2021 organised by IRDO.
86. Nirab Kumar Das Attended Summer training at Indian Oil Corporation at Virtual mode on June-July 2021 organised by Indian Oil, Bongaigaon Refinery.
87. Harshini N. [B. Tech Third year student] attended "Online Summer Internship Program" on FS(EV) - Formula Student (Electric Vehicle) conducted by IRDO ISNEE Motorsports from June 25 - July 22, 2021
88. R. Gowtham [B.Tech Third Year Student], Attended 15 days in plant training in Super Auto Forge private limited from January 2 to January 16th 2021
89. R. Gowtham [B.Tech Third Year Student], Completed Formula student electric vehicle internship with ISNEE motorsport club from June 2021 to July 2021.
90. R. Gowtham [B.Tech Third Year Student], Completed project based intern on model based design of automotive systems with Decibels lab private limited June 2021 to July 2021.
91. R.V. Nanditta [B.Tech Third Year Student], Completed project based intern on model based design of Power Electronic Components with Decibels lab private limited June 2021 to July 2021.
92. R.V. Nanditta B.Tech Third Year Student], Completed project based intern on ISNEE Motorsports Pvt Limited from June 2021 to July 2021.
93. R.V. Nanditta [B.Tech Third Year Student], Completed project based intern with on "Industrial Applications of Computational Fluid Dynamics (CFD)" Elite Techno Groups (ETG) from Dec 2020 to July 2021.
94. R. Rohit [B.Tech Third Year Student], Completed project based intern on ISNEE Motorsports Pvt Limited from June 2021 to July 2021.
95. Nagulash Rahul B [B.Tech Third Year Student], attended Internship at "SUPER AUTO FORGE" (2nd January - 16 January 2021)
96. Nagulash Rahul B [B.Tech Third Year Student], attended summer training at "Isnee Motorsport summer internship" (Virtual mode) on June-July 2021 organised by IRDO.
97. Kunal Goyal [B.Tech Third Year Student], Completed 15 Days Internship at "Industrial Minerals and Refractories, Salem" in the area of "Manufacturing Process of Olivine Grains & Dead Burnt Magnesite" on 4th – 8th January 2021.
98. Gurpal Singh [B.tech Third year student] attended inplant industrial training at Larsen and Toubro Construction and mining machinery Singrauli from 29 December 2020 - 18 January 2021
99. Gurpal Singh [B.tech Third year student] is attending Summer research fellowship organised by Indian Academy of Sciences at IISER Bhopal from 15th July 2021 - Present
100. Linsha Pious S [B.tech Third year student] attended internship at "Zion Industries" from January 2-January 17,2021
101. Linsha Pious S [B.tech Third year student] attended "Online Summer internship program" conducted by In association MSME - Technology Development Centre , Agra & MSME Tool Room - Indore (Indo German Tool Room - Indore) from June 28-July 24,2021.
102. Harshini N. [B. Tech Third year student] underwent summer internship at "Zion Industries" from January 2 - January 17, 2021

103. Sattwik Harichandan [B. Tech Third year student] attended internship “Virtual Internship Programme for Engineering Students” conducted by ROOTS INDUSTRIES INDIA LIMITED during July 2021 (4 weeks)
104. Rohan Mitra [B. Tech Third year student] attended internship “Virtual Internship Programme for Engineering Students” conducted by ROOTS INDUSTRIES INDIA LIMITED during July 2021 (4 weeks)
105. Rohan Giri [B. Tech Third year student] attended internship “Virtual Internship Programme for Engineering Students” conducted by ROOTS INDUSTRIES INDIA LIMITED during July 2021 (4 weeks)
106. Abdul Rahim Ismail Rumaney [B. Tech Third year student] attended internship “Virtual Internship Programme for Engineering Students” conducted by ROOTS INDUSTRIES INDIA LIMITED during July 2021 (4 weeks)
107. DIGVIJAY SINGH KATOCH [B. Tech Third year student] attended internship “Virtual Internship Programme for Engineering Students” conducted by ROOTS INDUSTRIES INDIA LIMITED during July 2021 (4 weeks)
108. RKR Mallolan [B.Tech Third Year Student], Attended 15 days in plant training in Super Auto Forge private limited from January 2 to January 16th 2021
109. Rohit R. [B.Tech Third Year Student], Attended 15 days in plant training in Super Auto Forge private limited from January 2 to January 16th 2021
110. Atthreya Venkatesan [B.Tech Third Year Student], Attended 15 days in plant training in Super Auto Forge private limited from January 2 to January 16th 2021
111. Shoib Ahmed [B.Tech Third Year Student] attended internship on HYBRID ELECTRIC VEHICLES offered by verzeo edu tech from 1st feb 2021 – 31st march 2021 (8 weeks)
112. Shoib Ahmed [B.Tech Third Year Student] attended internship on HYBRID ELECTRIC VEHICLES offered by verzeo edu tech (4weeks) 5th feb 2021 – 5th march 2021
113. Nidish.D [B.Tech Third year student], attended (28days) internship on Hybrid electric vehicles offered by verzeo edu tech from June 2021 – July 2021
114. Saloni Gupta [B.Tech Third year student], attended internship in the field of “Latest Welding Technology for Advance Manufacturing & Industry 4.0” conducted by Fronius India Pvt limited from 1st June 2021 – 30th June 2021.
115. Gurpal Singh [B.tech Third year student] Selected for the prestigious Summer Research fellowship program organised by the Indian Academy of Sciences.
116. Gurpal Singh [B.tech Third year student] Cleared Gate Mechanical 2021 with in first attempt in 3rd year. [Gate Rank- 14610]
117. Kunal Goyal is representing “Quality Assurance Committee Head – Aaruush, SRMIST. (2019 - Present)
118. Gurpal Singh [B.tech Third year student] is the Secretary- SRMIST Material Advantage Student Chapter
119. Sattwik Harichandan [B.tech Third year student] scored 92% in the course “Electronic Waste Management – Issues and Challenges” conducted by NPTEL during Jan 2021 – Feb 2021, and secured 2nd place in all India ranking.
120. R.V. Nanditta[B.tech Third year student] has completed training on "lead auditor course “environmental management system, green campus audit, energy audit and hygiene audit” held from 31/05/2021 to 04/05/2021 organized by nature science foundation
121. R.V. Nanditta [B.tech Third year student] has successfully organized and presented in the course rocket science fundamentals
122. R.V. Nanditta [B.tech Third year student] attended the training program conducted on research methods and principles held from 25/05/2021 to 31/05/2021 organized by maharaja agrasen institute of management studies
123. R V Nanditta [B.tech Third year student] has completed internship on "space mission design" as a research intern held from 16/01/2021 to 28/02/2021 organised by society for space education research and development [sserd]
124. Ananthakrishnan Girish [B.tech Final year student] Completed Two Weeks Virtual Internship on “Advance Four Wheeler Technology” held from 1st June 2021 to 14th June 2021

125. Ananthakrishnan Girish [B.tech Final year student] participated in the virtual Industrial Training on “Advanced Two Wheeler Technology “ held from 15 th may 2021 to 31st may 2021
126. Ananthakrishnan Girish[B.tech Final year student] had Participated in “Workshop on Product Management” in symposium (Technopreneur 2021) on 22nd and 23rd May 2021
127. Shashank Rai [B.tech Final year student] completed the Course title “ Learning Python” on Jun 12, 2021 in linked in Learning
128. Kushal J Kirpalani [B.tech Final year student] presented a paper title “Finite Element Simulation on Manufacturing of Aerospace Materials In international conference on processing and fabrication of Advanced Meterials Organised by VIT Chennai
129. Kushal J Kirpalani [B.tech Final year student] presented a paper title”Numerical Prediction of deflection of chimney due to steady wind load” in the 65th congress of the Indian Society for Theoretical and Applied Mechanics
130. Satrudhan Kumar Sah [B.tech Final year student] has secured a gold medal for the presentation of the paper titles “Design and Development of Mechanical Bird” in the Research Day held at 1st march 2021 at SRM Institute of Science and Technology
131. Sai Satyaprakash Nayak [B.tech Final year student] attended training program from 7th june to 3rd july 2021 organised by Decibels lab Ltd.
132. Paritosh Saxena [B.tech Final year student] attended internship training on 1/01/2021 to 31/01/2021 organised by Ashok leyland
133. Y Nnaganarasimha Reddy [B.tech Final year student] attended webinar on "Indian automobile market" held on 1-04-2021 organised by SRM student chapter
134. Y Naganarasimha Reddy [B.tech Final year student] attended internship held on 7-06-2021 to 03-07-2021 organised by Decibels lab Ltd.
135. Faizan Danish Nachan [B.tech Final year student] attended course on processing of polymers offered by IIT Roorkee on NPTEL.
136. Kanishka Roy [B.tech Final year student] attended workshop on "lubrication in automotive industries" at srm held on 27th to 29th april 2021 organized by design division, in association with material advantage student chapter
137. Gandhapu Sandeep [B.tech Final year student] attended inplant training on 2nd jan 2021 at Srikalahasthi Pipes Limited organised by Srikalasthi pipes limited
138. Gandhapu Sandeep [B.tech Final year student] attended webinar at srmist held on 1st april 2021 organised by SRM Material Advantage Student Chapter.
139. Gandhapu Sandeep [B.tech Final year student] attended workshop at srmist held on 1st march 2021 organized by MSME Technology Development Centre.
140. Gandhapu Sandeep [B.tech Final year student] attended workshop at srmist held on 27th april 2021 organized by SRM Material Advantage Student Chapter
141. Gandhapu Sandeep [B.tech Final year student] attended workshop at iit madras held on 9th april 2021 organized by Mechancial Department, IIT Madras.
142. Gandhapu sandeep [B.tech Final year student] attended online course "Simulation Analysis for Mechanical Engineers with Autodesk fusion 360" held on 9th april 2021 organized by cousera
143. Gandhapu Ssandeep [B.tech Final year student] attended online course "Modeling and Design for Mechanical Engineers with Autodesk fusion 360" held on 16th march 2021 organized by cousera
144. Gandhapu Ssandeep [B.tech Final year student] attended online course "CAM and Design Manufacturing for Mechanical Engineers with Autodesk fusion 360" held on 1st april 2021 organized by cousera.

Faculty Events (FDP/ Seminar/Workshop/ Short term Course/Webinar/Technical Talk) attended

1. Mr.I. Aatthisugan has completed an Online Course titled "Mechatronics" on 21-3-2021 conducted by IIT Roorkee offered through NPTEL platform.
2. Dr. A Vijaya Completed Online PBL courses namely " An introductory course on Problem Based Learning" in Higher Education (version 1 – June 2017) and "Problems in PBL" provided by Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO.
3. Dr. I. Infanta Mary Priya attended a webinar on the topic "Autonomous Systems" on 30th March, 2021 from 6 to 7 pm organized by SRMIST in association with Binghamton University, USA
4. Dr. I. Infanta Mary Priya attended a webinar on the topic "Machine Learning in Materials Design" on 28th March, 2021 from 6 to 7 pm organized by SRMIST in association with Binghamton University, USA
5. Dr. I. Infanta Mary Priya attended workshop on "Sustainability and Engineering Education" at "Vellore Institute of Technology (Chennai Campus), Chennai" held on 7.05.2021 organized by Internal Quality Assurance Cell
6. Dr. I. Infanta Mary Priya attended a webinar on the topic "Recent trends in Biotelemetry and Telemedicine" Organised by Industry Academia Cell, Centre for Industry Relations in association with Department of Electronics and Communication Engineering, Aarupadai Veedu Institute of Technology & IETE Students Forum (AVIT) on 17 May 2021.
7. Dr. P. Nandakumar attended Prof.V. Ramamoorthy memorial lecture on "Fundamentals of Acoustics" by Dr. C. Sujatha, Professor, IIT Madras on 30.1.2021.
8. Mr. Kumaran D attended the one-day event titled" SAKSHYAM 2021 ENERGY CONSERVATION" at SRM Institute of Science and Technology on 27/1/21
9. Mr.VAMSI KRISHNA DOMMETI attended the 5 days event titled" Sheet Metal Design using SolidWorks organised by ICT Academy from 25/1/2021
10. Mr V RAGHAVENDRA RAO attended the 5 days event titled" Sheet Metal Design using SolidWorks organised by ICT Academy from 25/1/2021
11. Mr M.. SACHIDHANANDAM attended the 3 days event titled" Online Short-Term Training Program (STTP) in Computer Aids for Chemical Engineers (CACHE): MATLAB – SIMULINK "organised by Department of Chemical Engineering SRM Institute of Science and Technology, Kattankulathur from 2/3/21
12. Dr. E. VIJAYARAGAVAN attended One day workshop on "Recent Trends in 3D Printing and Scanning" organised by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur on 15/2/21
13. Dr. E VIJAYARAGAVAN attended One day workshop on GAIT ANALYSIS organised by IIT Guwahati on 3.2.21
14. Mr M. SACHIDHANANDAM attended One day workshop on "Recent Trends in 3D Printing and Scanning" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur on 15/2/21
15. Mr N.Arun Attended ONE DAY WORKSHOP ON CFD FUNDAMENTALS – THEORY AND PRACTICE organised by Department of Mechanical Engineering, SSN College of Engineering on 18th MAY, 2021
16. Mr. N. Arun participated in AICTE-ISTE sponsored Induction/Refresher program on "Sustainable Product Design and Manufacturing (Phase II)" held online during April 15-21, 2021
17. Mr N.Arun attended One day workshop on "Recent Trends in 3D Printing and Scanning" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur on 15/2/21
18. Mr Kumaran D has attended a 5 days program on Fundamentals of finite element analysis and its applications in engineering organised by Panimalar Institute of Technology, Chennai from 15/2/21
19. Mr.Kumaran D has attendend 5 days event on Machine learning with Python - A Practical Introduction organised by Department of Computer science Engineering,SRM Institute of Science and Technology, Kattankulathur from 8/2/21
20. Mr Kumaran D attended One day workshop on "Recent Trends in 3D Printing and Scanning" organised by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur on 15/2/21
21. Dr. E VIJAYARAGAVAN attended one day Webinar on "ENTREPRENEURSHIP-STARTING UP IN DIGITAL TIMES" organised by Materials Advantage Student Chapter, SRM Institute of Science and Technology, Kattankulathur, on 27/2/21

22. Mr SUBRAMANIAN C attended One day workshop on "Recent Trends in 3D Printing and Scanning" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur on 15/2/21
23. Mr Vamsi Krishna D Attended International Conference on Advances in Materials and Manufacturing ICAMM - 2021 (Virtual Mode) organised by Department of Mechanical Engineering Sri Sivasubramaniya Nadar (SSN) College of Engineering, Chennai on 18/2/21
24. Mr N.Arun attended 5 days workshop on "Recent Trends in Mechanics and its Application" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur from 1/3/21
25. Mr BALA SUTHAGAR attended 5 days workshop on "Recent Trends in Mechanics and its Application" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur from 1/3/21
26. Mr. SUBRAMANIAN C attended the 2 days' symposium organised by Department of Manufacturing, Annamalai University from 19/3/21
27. Dr. V. Magesh attended 5 days workshop on "Recent Trends in Mechanics and its Application" organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulathur from 1/3/21
28. Dr. E VIJAYARAGAVAN attended 3 days "International Workshop on Fundamentals of Finite Element Methods" organised by Wollo University, Ethiopia, from 19/4/21
29. Dr.E Vijayaragavan attended one day Webinar on "Deep Learning for Agricultural Applications" organised by Binghamton University & SRM IST on 15/4/21
30. Dr.E Vijayaragavan attended one day Webinar on Webinar on "Autonomous Systems" organised by Binghamton University & SRM IST on 30/3/21
31. Dr.E Vijayaragavan attended one day Webinar on "Machine Learning In Healthcare Applications"Webinar organised by Binghamton University & SRM IST on 30/3/21
32. Dr.E Vijayaragavan attended one day International Webinar on Industry best practices to next generation of engineers organised by Wollo University, Ethiopia on 24/4/21
33. Dr.E Vijayaragavan attended International Conference on Advances in Mechanical Engineering Design ICAMED 2021 organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulanthur on 3/5/21
34. Mr. SUBRAMANIAN C attended one day International webinar organised by SIMMAS on 24/4/21
35. Mr A Vinoth participated in AICTE-ISTE sponsored Induction/Refresher program on "Sustainable Product Design and Manufacturing (Phase II)" held online during April 15-21, 2021
36. Mr A Vinoth attended one day Webinar on "Deep Learning for Agricultural Applications" organised by Binghamton University & SRM IST on 15/4/21
37. Mr A Vinoth attended one day Webinar on Webinar on "Autonomous Systems" organised by Binghamton University & SRM IST on 30/3/21
38. Dr.E Vijayaragavan attended six days day INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON TRENDS IN AUTOMOTIVE TECHNOLOGY organised by Wollo University and Sathyabama Institute of Science and Technology, Ethiopia from 17/5/21
39. Dr.E Vijayaragavan attended ONE DAY WORKSHOP ON CFD FUNDAMENTALS – THEORY AND PRACTICE organised by Department of Mechanical Engineering, SSN College of Engineering on 18th MAY, 2021
40. Dr.E Vijayaragavan attended Research Day organised by SRM Institute of Science and Technology, Kattankulanthur on 1/3/21
41. Dr.E Vijayaragavan attended one day International webinar on Computer Vision for Self Driving Cars organised by Wollo University, Ethiopia on 29/5/21
42. Dr.E Vijayaragavan attended one day workshop on "3DP, CAE and IOT technology enabled product engineering and innovation conclave" organised by WIPRO 3D and Paavai Engineering College on 27/5/21
43. Mr N.Arun has presented a paper entitled "Fabrication of Polymer Nano Composites with Polylactic Acid / Basalt via Friction Stir Processing" in virtual international conference on Recents advances in Manufacturing Engineering(ICRAMER 2021), organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulanthur during April 15-16 ,2021
44. Mr N.Arun has presented a paper entitled " Friction Stir Processing: A Review" in virtual international conference on Recents advances in Manufacturing Engineering(ICRAMER 2021), organised by Department of Mechanical Engineering,SRM Institute of Science and Technology, Kattankulanthur during April 15-16 ,2021

45. Mr. R. Saravanakumar, SRM institute of science and technology, has participated in the five days FDP on "Design of Experiments using TAGUCHI Technique" held from 26/01/2021 to 30/01/2021 at Regional college for education research and technology, Jaipur
46. Dr.S.Murali attended a webinar on "Artificial Intelligence and its Applications" on 22-March-2021 organized by the Department of Mechanical Engineering, SRM IST, Vadapalani Campus.
47. Vijaya A attended a webinar on the topic "Autonomous system" on March 30th,2021, 6.30pm -7.30pm organized by department of Mechanical Engg, SRMIST, KTR
48. Dr. M Prakash attended an "One day workshop on CFD fundamentals – theory and practice" on 18th May 2021 organized by Department of Mechanical Engineering, SSN college of Engineering.
49. Mr. Sundar Singh Sivam S.P attended two weeks virtual training programme on “Professionalism for administrative & non-technical assistants” from 24/05/2021 to 04/06/2021 organized by the department of mechanical engineering, AMET university.
50. Dr. P. Chandrasekaran attended one day webinar on the title “International webinar on Latest trends in Automobiles”.
51. Dr. P. Chandrasekaran attended one day webinar on the title "Machine Learning in Healthcare Applications".
52. Dr. P. Sudhakar attended one day work shop on CFD Fundamentals-Theory and Practice organized by SSN Engineering College on 18th May 2021.
53. Mr.M. Sivasankar attended one day workshop on the title "CFD Fundamentals - Theory and Practice" Organised by Department of Mechanical Engineering, SSN College of Engineering on 18th MAY, 2021.
54. Dr. P. Chandrasekaran attended one day University Distinguished Lecture Titled " Higher Education in India in the post Covid-9: organized by SRM University-AP on 05.06.2021"
55. Dr. G.Balaji attended one day webinar on the title "Higher Education in India in the Post COVID-19” organised by SRM UNIVERSITY- AP on 05/06/2021.
56. D.Kumaran, attended an introductory course on Problem Based Learning in Higher Education on June 18,19, 2021.
57. Daniel Glad Stephen, A. Vinoth and N.Arun attended AICTE-Workshop on Examination Reforms on June 28-30, 2021.
58. N. Arun, WORKSHOP ON CFD FUNDAMENTALS – THEORY AND PRACTICE, SSN College of Engineering, 5/18/2021.
59. Subramanian C, webinar on world class manufacturing -WCM2021, Annamalai university and IWS, 6/29/2021.
60. E Vijayaragavan, “3DP, CAE and IOT technology enabled product engineering and innovation conclave”, WIPRO 3D and Paavai Engineering College on 5/27/2021.
61. Dr. A. Vijaya attended 5 days FDP on Recent Trends in Digital Image Processing at Poornima Institute of Engineering & Technology held on 7th-11th June,2021 organized by AICTE Training And Learning (ATAL) Academy
62. Dr. T. Rajasekaran attended FDP on “Internet of Things" at University of Jammy held on 01-06-2021 to 05-06-2021 organised by Department of CSE and IT.
63. Dr. U. Mohammed Iqbal has participated in the 5 days FDP on "Innovation, Incubation, Startups and Research Challenges in India" organized by the department of Mechanical Engineering, SRMIST, Ramapuram Campus in association with The Institution of Engineers (India) from 28th June to 2nd July 2021.
64. Shakthivel S Attended 3 DAY AICTE EXAMINATION REFORMS ONLINE WORKSHOP Organized by All India Council for Technical Education (AICTE) and KLE Technological University, Hubballi on 28th June to 30th June 2021
65. Dr. U. Mohammed Iqbal has participated in one day webinar on "World Class Manufacturing", Held on 29-06-2021, organized by department of manufacturing engineering, Annamalai university and Indian welding society, Annamalai nagar Centre.
66. R. Saravana Kumar has participated in one day webinar on "World Class Manufacturing", Held on 29-06-2021, organized by department of manufacturing engineering, Annamalai university and Indian welding society, Annamalai nagar Centre.
67. R. Ambigai attended a webinar titled “High performance Hybrid Composite for Future Generation Aviation, Space, Defence & Domestic Applications” conducted by Aerospace & Aviation Sector Skill Council and GKD Institute for Technological Resources on 24th June 2021

68. Dr. P. Chandrasekaran attended one day University Distinguished Lecture Titled " Higher Education in India in the post Covid-19: organized by SRM University-AP on 05.06.2021"
69. Dr. G. Balaji attended one day webinar on the title "Higher Education in India in the Post COVID-19" organised by SRM UNIVERSITY- AP on 05/06/2021.
70. Dr R. Senthil participated a Webinar on Detailed Energy Audit, organized by National Productivity Council, on 27.06.2021.
71. Dr. C. Selvam attended one day webinar on the title "DETAILED ENERGY AUDIT: OBJECTIVES, METHODOLOGY, INSTRUMENTS USED, REPORT PREPARATION & PRESENTATION"organised by National Productivity Council, India on 27.06.2021.
72. Dr. C. Selvam attended one day webinar on the title"Opportunities and Challenges of Solar Energy Storage" organised by the Solar Energy Society of India on 27.06.2021
73. Dr.R.Senthil attended one day webinar on "ENERGY MATERIALS, DEVICES AND CHARACTERIZATION"organized by the NRC SRM on 9/01/2021.
74. Joji Johnson and S Manikandan given poster presentation in the title "Radiation Modelling of Bifacial Photovoltaics".
75. Doss Premnath, Ponnusamy Chandrasekaran and Lalgudi Ramachandran Ganapathy Subramanian" given presentation on "Effect of container material on solidification characteristics of Deionised water in spherical container"
76. Sivashankar, Selvam and Manikandan given poster presentation in the "Thermal management of concentrated photovoltaics using phase change materials".
77. N Vijay Krishna and S Manikandan given poster presentation in the title" Comparison study on effect of pulse current for the different leg geometry for thermoelectric cooler".
78. Mr.Sivashankar M attended one day webinar on the title" Wind Energy Technology: An Overview" organised by the IIE, Kattankulathur Local Centre,SRM IST on 06.03.2021.
79. Dr. P. Chandrasekaran attended one day webinar on the title "International webinar on Latest trends in Automobiles".
80. Mr.D.Premnath Attended the workshop on " Examination reforms workshop " conducted by Faculty of Engineering and Technology, SRMIST, Kattankulathur – 603203, March 27- 01 April, 2021.
81. Dr.P. Chandrasekaran attended one day webinar on the title"Machine Learning in Healthcare Applications".
82. Dr.P.Sudhakar attended one day work shop on CFD Fundamentals-Theory and Practice organized by SSN Engineering College on 18th May 2021.
83. Mr. SIVASHANKAR, attended one day workshop on the title "CFD Fundamentals - Theory and Practice" Organised by Department of Mechanical Engineering, SSN College of Engineering on 18th MAY, 2021.
84. Dr. P. Chandrasekaran attended one day University Distinguished Lecture Titled " Higher Education in India in the post Covid-19: organized by SRM University-AP on 05.06.2021"
85. Dr.G.Balaji attended one day webinar on the title "Higher Education in India in the Post COVID-19" organised by SRM UNIVERSITY- AP on 05/06/2021.
86. Dr R. Senthil participated a Webinar on Detailed Energy Audit, organized by National Productivity Council, on 27.06.2021.
87. Dr.C.Selvam attended one day webinar on the title "DETAILED ENERGY AUDIT: OBJECTIVES, METHODOLOGY, INSTRUMENTS USED, REPORT PREPARATION & PRESENTATION"organised by National Productivity Council, India on 27.06.2021.
88. Dr.C.Selvam attended one day webinar on the title"Opportunities and Challenges of Solar Energy Storage" organised by the Solar Energy Society of India on 27.06.2021.
89. Mr.D.Premnath Attended 3 DAY AICTE EXAMINATION REFORMS ONLINE WORKSHOP Organized by All India Council for Technical Education (AICTE) and KLE Technological University, Hubballi on 28th June to 30th June 2021.
90. Mr.D.Premnath has participated in the University Distinguished Lecture titled Higher Education in India in the Post COVID-19, SRM UNIVERSITY- AP.
91. D.Premnath participated in Two days workshop on "Effective way of writing research proposals and articles" conducted by Department of Electrical and Electronics Engineering, SRMIST, Kattankulathur.
92. Mr. D. Premnath has participated in the University Distinguished Lecture titled Higher Education in India in the Post COVID-19, SRM UNIVERSITY- AP

93. Mr. D. Premnath participated in Two days workshop on "Effective way of writing research proposals and articles" conducted by Department of Electrical and Electronics Engineering, SRMIST, Kattankulathur.
94. Mr. Premnath. D has participated in the webinar “ A Research Perspectives and Challenges in Solar Energy Storage Organised by School of Mechanical Engineering, REVA University, Bengaluru, in association with the Student chapter Solar Energy Society of India, on 27/July/2021.
95. Dr. R. Senthil participated in a Webinar on Environment Health and Sustainable Development" organized by NIOH-ENVIS, Ahmadabad, on 30.06.2021.
96. Mr. M. Sivashankar participated in the webinar “A Research Perspectives and Challenges in Solar Energy Storage “on 27/July/2021, Organised by School of Mechanical Engineering, REVA University, Bengaluru, in association with the Student chapter Solar Energy Society of India.
97. J. Thavamani attended six days FDP on the title” Needs and Challenges in sustainable Energy Development at paavai engineering college.
98. Murali Subramaniyam attend the webinar on “A Digital Transformation Using IoT and AI/ML” held on April 23, 2021, organized by SRMIST and Binghamton University , Newyork.
99. Murali Subramaniyam attend the webinar on “A Digital Transformation Using IoT and AI/ML” held on April 23, 2021, organized by SRMIST and Binghamton University , Newyork.
100. Murali Subramaniyam attend the webinar on “Autonomous Systems on March 30, 2021, organized by SRMIST and Binghamton University , Newyork.
101. Murali Subramaniyam participated in three days’ “Examination Reforms” Workshop from 28.06.2021 to 30.06.2021, jointly organized by AICTE & KLE Technological University, Hubli, Karnataka.
102. V. Ragavendra Rao attended a webinar on “University Distinguished Lecture Series” at SRM University, AP on 24.07.2021.
103. Dr. E. Vijayaragavan attended a Mechanical Internship on “AutoCAD, CNC & 3D Printing” at Indo German Tool Room, Indore from 23.06.2021 to 24.07.2021.
104. Mr. C. Subramanian attended webinar on “World class Manufacturing – WCM2021” conducted by Annamalai University and IWS on 29.06.2021.
105. D.Kumaran completed online course on “Getting Started with Machine Learning Algorithms” on 31.7.2021 through Furn learn.
106. D.Kumaran completed online course on “Reflecting and learning PBL competencies” on 19.6.2021 through Furn learn.
107. D.Kumaran completed online course on “PBL Problem Characteristics and Influence on Outcomes” on 18.6.2021 through Furn learn.
108. D.Kumaran completed online course on “CDIO-Conceive, Design, innovate and Operate” on 18.6.2021 through Furn learn.
109. D.Raja completed online course on “Introductory Human Physiology” on 18.6.2021 through Furn learn.
110. Dr. M Prakash attended the 5 days FDP on "Additive Manufacturing in Industry 4.0 Strategy" at National Institute of Technology Andhra Pradesh. held on 5-7.2021 to 9.7.2021 organised by Department of Mechanical Engineering.
111. Dr. R. Ambigai, participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Novel Materials for Next-Generation Applications" from 2021-7-12 to 2021-7-16 at M S RAMAIAH INSTITUTE OF TECHNOLOGY.
112. Saravanakumar. R, participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Simulation of Welds and Optimization Techniques" from 12-7-2021 to 16-7-2021 at ANNAMALAI UNIVERSITY. secured with 66% of Marks.
113. Dr. R. Ambigai attended a webinar on the topic "Advanced Pneumatics" on 21.7.21 from 10 to 11.30 a.m., organised by automation Studio company.
114. Dr. A. Vijaya attended workshop titled PBL Problem characteristics and influence on outcomes organized by Regional Research Symposium Problem based on learning on June 18th 2021.
115. Dr. A. Vijaya attended a Webinar on the topic CDIO-Conceive, Design, Innovate and operate on 18th June, organized by Regional Research Symposium on PBL (RRSPBL).
116. Dr. I. Infanta Mary Priya attended a webinar on “Research Perspectives and Challenges in Solar Energy Storage” on 27/July/2021, Organised by School of Mechanical Engineering, REVA University, Bengaluru, in association with the Student chapter Solar Energy Society of India.

117. A total of 31 thermal faculty attended six days Faculty Development Program “Advances in Fluid Flow and Heat Transfer- AFFHT (2021)” organised by Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur, 15-20, February 2021.

Mr. THAVAMANI J	Mr. MALARMANNAN S	Dr. P. CHANDRASEKARAN
Mr. D. PREMNATH	Mr. V. RAJASEKAR	Mr. S. PANNEERSELVAM
Mr. SUNDARAM P	Mr. N VIJAY KRISHNA	Dr. S. MANIKANDAN
Dr. THIRUNAVUKKARASU	Mr. G MANIKANDARAJA	Dr. R SENTHIL
Dr. G. BALAJI	Mr. SIVASHANKAR M	Mr. ARULKUMAR S
Mr. BARATHRAJ R K	Dr. MATHANRAJ V	Mr. S. BHARATH SUBRAMANIAM
Dr. T. LAKSHMANAN	Dr. D. SIVA KRISHNA REDDY	Dr. P. SUDHAKAR
Dr. G KASIRAMAN	Mr. A. SATHISHKUMAR	Mr. M D KATHIR KAMAN
Mr. JOJI JOHNSON	Dr. M. GUNASEKARAN	Dr. K. SURESH KUMAR
Mr. SATHIYA MOORTHY K	Mr. UDAYAKUMAR P	Dr. PANKAJ KUMAR
Mr. PONSANKAR S		

About Department Vision and Mission

Vision

To impart knowledge to our students in an ambience of Humanity, Wisdom, Intellect, Creativity of Innovation, in order to nurture them culturally and Ethically rich professionals with bright future.

Mission

1. To impart quality education to produce mechanical engineers and enhance their skills to become world renowned professionals.
2. To establish Centers of Research Excellence to inculcate research acumen in faculty and students on the areas like; machining, biomechanics, bio-fuels, composites, and energy.
3. To provide state-of-the-art education and training programs to the faculty and student fellowship.

Department Homepage:

<https://www.srmist.edu.in/engineering/department-of-mechanical-engineering/about-the-department>

International Conference on Advanced Materials and Mechanical Characterization (ICAMME 2021 – VIRTUAL), December 02-04, 2021.

About the conference

The ICAMMC 2021 is being organized by the Department of Physics and Nanotechnology & Mechanical Engineering, SRM Institute of Science and Technology (SRMIST), Chennai in association with the Indian Institute of Science (IISc); Indian Institute of Technology (IIT) Madras; IIT Delhi; IIT Indore; and IIT Hyderabad; ASM International Chennai Chapter, The Indian Institute of Metals Chennai Chapter, Indian Ceramic Society and sponsored by Bruker Corporation, USA, Ostec Instruments, Russia, Industron Nanotechnology, India and Science and Engineering Board, Govt. of India and SRMIST.

The major themes of the conference are:

- A) Advances in Manufacturing and Materials Design
 - B) Soft and Biological Materials
 - C) Surface Engineering and Coatings
 - D) Functional Materials for Energy and Electronic Applications
 - E) Computational Mechanics
 - F) Multi-scale Mechanical Characterization
- Special Session:** Crystal Engineering: Mechanical Properties of Organics

Abstract and Registration: <https://tinyurl.com/Registration-ICAMME-21>

Conference Website: <https://www.srmist.edu.in/icammc-2021>

4th International Conference on Advances in Mechanical Engineering (ICAME 2022), 24-26 March 2022. (Virtual Mode)



About the Conference:

The primary goal of the conference is to:

- Promote research and developmental activities in mechanical engineering.
- Promote scientific information exchange among the academicians, researchers, developers, engineers, students, and practitioners working around the world.

**You are cordially invited to the
4th International Conference on Advances in
Mechanical Engineering (ICAME 2022).**

This conference focuses on a range of issues but not limited to: Solid Mechanics, Structural, Thermal, Energy, Manufacturing, Aerospace, Material Science, Mechatronics, Robotics and Control, Micro and Nano Mechanics, Automotive, Biomechanics, Bioengineering, Industrial Applied Mechanics, Multidisciplinary and Emerging Areas of Engineering.

Important Dates:

Submission of Extended Abstract: **30th November 2021**
Acceptance Notification: **15th December 2021**
Submission of Full Paper: **30th December 2021**
Registration Start & End: **1st December 2021 & 15th Feb 2022.**

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Submit your Abstracts: icame2022@srmist.edu.in

Registration Online: <https://bit.ly/3esBmVK>

Conference Website: <https://www.srmist.edu.in/icame-2022/>

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Mr. Prateek Goyal

(2nd Year – B. Tech)



Mr. V. Santhosh

(1st Year – B. Tech)