



# SRM

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

**VADAPALANI CAMPUS**

## DEPARTMENT OF MECHANICAL ENGINEERING

**PRESENTS**



### **MECHRONICLE 2.0**

**January 2021 - July 2021 Edition**

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# About the Department

The fourth industrial revolution is known as “Industry 4.0”, a German concept where the industrial operations are fully automated by adopting the Internet of Things, Robotics, Smart manufacturing concepts.

**“Industry 1.0”- use of steam engines**

**“Industry 2.0” - use of electricity**

**“Industry 3.0” - use of computers**

**“Industry 4.0”- integration of cyber and physical systems in manufacturing**

Worldwide industries have started to implement the “Industry 4.0” concept thereby giving new mentions to manufacturing technology. The Department of Mechanical Engineering, SRM IST Vadapalani Campus is offering the following courses with specializations to cater for the requirements of “Industry 4.0”.

**B. Tech - Mechanical Engineering**

**B. Tech - Mechanical Engineering w/s in Artificial Intelligence and Machine Learning**

The course B.Tech. Mechanical Engineering is a comprehensive degree program. The goal of the mechanical engineering curriculum is to create a flexible undergraduate educational experience in design, mathematics, modelling, computing, management, engineering science, humanities, social sciences, and fine arts. Principal study topics include fluid mechanics, thermodynamics, heat transfer, solid mechanics, materials engineering, manufacturing, energy systems, dynamics and control, Computer-Aided Design (CAD), Computer Integrated Manufacturing

(CIM) and others. This broad and flexible program allows students to customize their programs to meet their objectives and particular career goals. Traditional students can prepare for technological careers in industry, graduate school of management. The more interdisciplinary students can utilize this program as a launching pad for professional careers in business or public service.

### **Industrial connection**

The department has to credit corporate training programs, industrial consultancy, and funded projects from government bodies. These connections served to benefit students in the form of good placements, well-equipped laboratories, and industrial exposure. The participation of industries in curriculum designing has helped the department to keep pace with fast-changing industrial needs. The department also benefits from the visiting professor programs of AICTE through which highly experienced senior executives deliver lectures to staff and students.

### **Careers**

The program enables the students to take up careers in a broad spectrum of industries. Many of the IT industries also have CAD/CIM divisions, which increases the job potential of mechanical engineers. Around 70% of the students are placed in reputed industries practising core and allied engineering, through campus recruitment and the remaining 30% prefer higher studies in India and abroad.

# Vision

To emerge as a World - Class University in creating and disseminating knowledge, and providing students with unique learning experiences in Science, Technology, Medicine, Management, and other areas of scholarship that will best serve the world and the betterment of mankind.

# Mission

**MOVE UP** through international alliances and collaborative initiatives to achieve global excellence.

**ACCOMPLISH A PROCESS** to advance knowledge in a rigorous academic and research environment.

**ATTRACT AND BUILD PEOPLE** in a rewarding and inspiring environment by fostering freedom, empowerment, creativity, and innovation.

# Message from the Head – Department of Mechanical Engineering



**Dr. R. Rajaraman, B.Sc., B.Tech., M.E., Ph.D.  
HoD- Mech.**

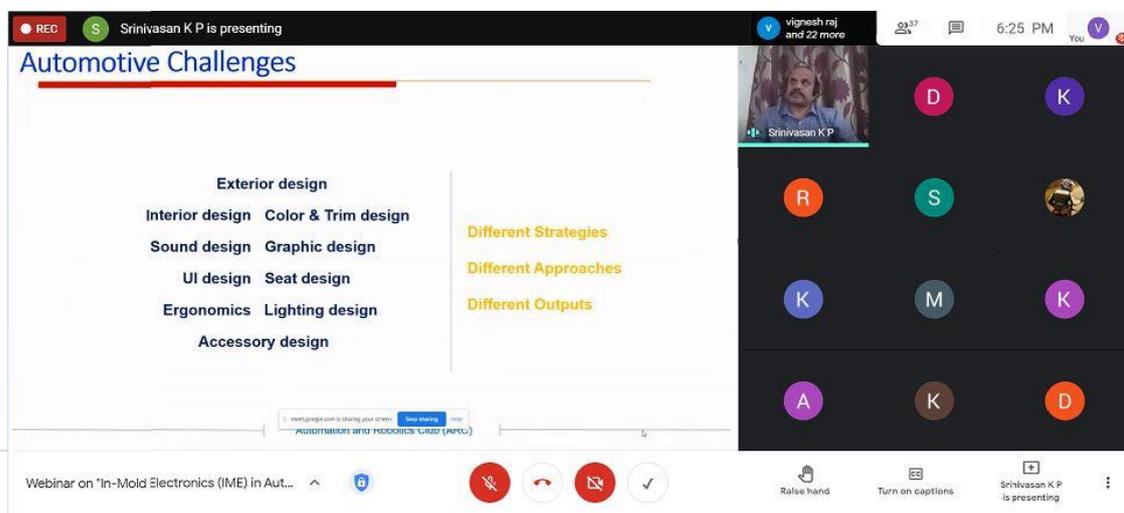
It is a great pleasure to reach you all with **MECHRONICLE 2.0** – Department newsletter of Mechanical Engineering, SRM Institute of Science and Technology, Vadapalani Campus. This newsletter brings in various events, functions, and happenings in our department. Our department pioneers in offering a student-centred atmosphere covering up all the verticals in hybridizing the learning environment and bringing out the students' talents. It is indeed a new ball game for everyone to deal with this pandemic situation. When the whole world was paused, our university and department tirelessly worked on connecting our students via the virtual environment. Nevertheless, we offered the best learning experience while they learnt from home or on campus. The research yields were maintained, and many research papers were submitted and published in reputed

journals. A variety of events were organized for our students in the virtual platform, to name a few, Webinar on understanding UPSC civil services examination, Industry 4.0, Placement scenario post-pandemic, etc., Our department expanded our alumni connects by organizing mentoring sessions for our current students. We have active collegiate clubs like the Society of Automotive Engineers (SAE), Indian Society for Technical Education (ISTE), National Institution for Quality and Reliability (NIQR), Institution of Engineering and Technology (IET), Institute of Indian Foundry men (IIF) and Automation and Robotics Club (ARC) that strives to bring in few more industry connects in addition to the existing ones to bridge the gap between industry and academia. I hope and trust our department will deep root the knowledge of engineering into the minds of young people and prioritize providing a diverse learning environment to meet and face new challenges in the coming years. We are thriving to lift our department to the next level and make it the Department of Eminence (DoE) very soon. I thank all our students and faculty members for their contributions made and to be made. I congratulate the team for their efforts to bring out this newsletter successfully.

# WEBINARS

## In Mold Electronics (IME) In Automotive

On 8<sup>th</sup> February 2021, The Department of Mechanical Engineering organised a Tech talk on the topic “In Mold Electronics (IME) In Automotive” by Mr Srinivasan Palaniswamy. He is an Electromechanical Engineer who has 20 years of experience working in various fields such as Product Design, Product Development, Manufacturing Processes, Product testing, Automation and Injection. He gained his work experience in various automotive industries namely Visteon, Continental, Tata Group and TVS Group. In his presentation, he first spoke about issues like Global warming, Climate Change and its consequences. Then in the second part, he spoke about the solution for these issues like shifting to renewable energy effective use of the existing resources. He also emphasised the potential of the usage of Electronics in the automotive sector. This session was very effective and insightful for the students.

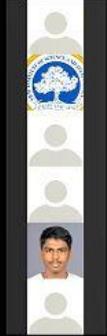


# Webinar on Conceptual Learning of Engineering and its Application

On 11th February 2021, the Department of Mechanical Engineering organised an Alumni talk on the topic “Conceptual Learning of Engineering and its Application” by Mr Vignesh Devalla who is an alumnus of our department (Batch 2014-18). He is a Mechanical Engineer who has a year of work experience from Wheels India Pvt as a methods engineer and he is currently working in LCS Controls Pvt Ltd as an application engineer. He began the talk by giving us an insight on how basic skills which we learnt in our curriculum during our first year are being used for several practical purposes in various sectors of engineering. Thereby, he emphasised that whatever we study in our curriculum will be relevant to us in future careers. Then in the second part, he spoke about the product which he had launched recently and how he patented it successfully. This alumni talk was very useful and insightful for the students.

## CONCEPTS TO BE LEARNT FROM INDUSTRY PERSPECTIVE

- 5S
- Kanban
- Six sigma
- Kaizen
- SMED
- Cycle time study
- FMEA
- 8D
- Continuous improvement
- Jidoka
- JIT
- TQM
- TPM
- Lean engineering
- Value stream mapping
- Poka yoke



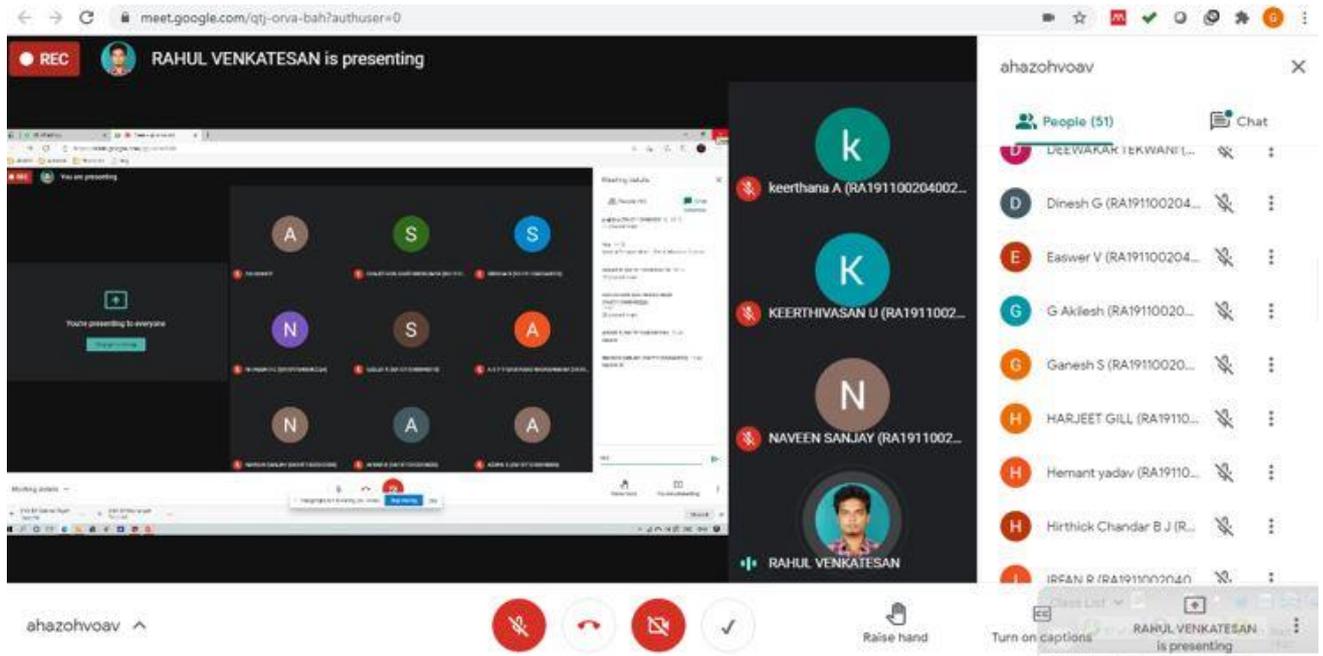
## Webinar on Fuel Conservation

On 15 February 2021, the Department of Mechanical Engineering organized a Tech talk event on the topic “Fuel Conservation” by Mr Anil Kumar. He is an Energy and Fuel conservation expert who has gained enormous experience working in the field of the Petroleum sector. In this event, he first addressed the issue of the rapid depletion of coal and crude oil by giving us credible statistics of the existing resources. Then he spoke on various ways through which Energy and Fuel resources can be conserved and effectively utilized. He also emphasized some of the methods such as carpooling and effective utilization of public transportation facilities. In short, this presentation was very effective and useful for the students to gain knowledge in the topic of Fuel conservation.



## Webinar on Industry Expectations from Young Graduates

On 15th March 2021, the Department of Mechanical Engineering SRM IST Vadapalani organised a webinar on the topic “Industry Expectation from Young Graduates”. The resource person for the webinar was Mr R. Bhaskar who has had 22+ years of corporate experience and has recruited several candidates during his tenure. The session was very interactive and he explained the various roles for which students typically get recruited. He also elucidated on what a firm expects in a candidate when they recruit. He emphasised the necessity of having clarity in the areas of interest and strength so that the student can choose his niche and master it before the actual placements start. At the end of the session, the students had a small Q&A with the host and their doubts and questions were answered. Overall, it was an informative session for the students in view of their placements.



## Webinar on Artificial intelligence and its Applications

A webinar “Artificial intelligence and its applications” was held on 22-03-2021. The resource person was Mr Kirubakaran.S, working as an R&D Engineer at GE healthcare. He spoke about a variety of topics under artificial intelligence that were not only fun but also very essential in the upcoming future. He first talked about the differences in design one must understand to fulfil the requirements of different people in different countries. By taking the example of the bullet train, he asked how one can design it to make sure it does well in countries like India and Japan. He made sure it was an extremely interactive and fun session such that not only the students, but even the faculty were keen on answering his questions. Then, he talked about the issues of integrating AI technologies in machines without proper training and understanding of the users. He gave one such

example using the Boeing 737 max aircraft, which had a few systems that weren't told to the pilots in full detail. He explained its consequences and ways and techniques on how to overcome it. He also gave an example of the age gap of technologies in aircraft, by telling the full story about the air force pilot Abhinandan, who fought off much more advanced aircraft, using his very old MIG-21 Bison. He explained the different enemy detection systems in modern aircraft and their uses in real-life battles. The speaker explained about a new device, which involves detection and treatment of major wounds, with very minimal surgical marks. Finally, he concluded about several other characteristics one should have in the field of AI in the future such as smart thinking and innovative ideas so that one can get better exposure in the future. It was a very interactive and useful session and we felt that it helped us get a better understanding of this field which is going to be worldwide in the upcoming years.

## **Webinar on IIoT use cases in Manufacturing**

The department of Mechanical Engineering SRM IST Vadapalani had the pleasure of organizing a webinar on “IIoT use cases in Manufacturing”. The esteemed guest speaker for the webinar was Mr Gopinath P.S. Chief Operating Officer of Base Automation. He is an industry veteran with diverse experience under his belt. He talked about how Industry 4.0 pushed the boundaries of technology which led to innovation and the era of IoT and IIOT. He touched upon topics such as the sensors and actuators used in modern-day machines, the prowess of predictive maintenance, real-time

asset monitoring and Big data in the efficient functioning of a factory. He also mentioned the top skills on-demand in the era of industry 4.0 and gave tips to students on what to learn to be industry ready for the future. The session was attended by over 80 plus students and they were greatly benefited from it.

### **Webinar on “Career prospects in Mechanical Engineering”**

A webinar was organized on “Career prospects in Mechanical Engineering” on 22<sup>nd</sup> April 2021 at 6.00 PM. The objective of the webinar was to enlighten the young engineering aspirants with the emerging opportunities and careers after Mechanical Engineering. Highly experienced resource persons were invited to be the panellist members.

Mr Alok Vijay Bhatnagar, Director – Innovative Modular Machines Pvt Ltd and a TEDx speaker motivated the participants by sharing his experience of developing his project for the Indian Railways Bio-Toilet system and waterless urinals which could save water consumption.

Mr V. K. Venkataramani, CEO – Across World Quality International holding key positions at different organizations motivated the aspirants with Education, Engineering and Emerging opportunities (EEE). As all the industries have geared up for Industry 4.0, similarly Education 4.0 is getting popularity all over the world.

Mr. S. Lakshmi Narashiman, an alumnus from 2015-19 Batch, B.Tech Mechanical Engineering was also a panellist and presently working as area

manager – operation at AMAZON shared his experience of developing projects and participations in various professional body activities.

A question-and-answer session was also hosted to make the webinar interactive. The webinar was an event of success and the organizers are thankful to Dean (E&T), Vice-Principal (Academics and Placements), Head of the Department for providing this opportunity to host the webinar.



## Alumni talk on Role of Engineers in Space Exploration

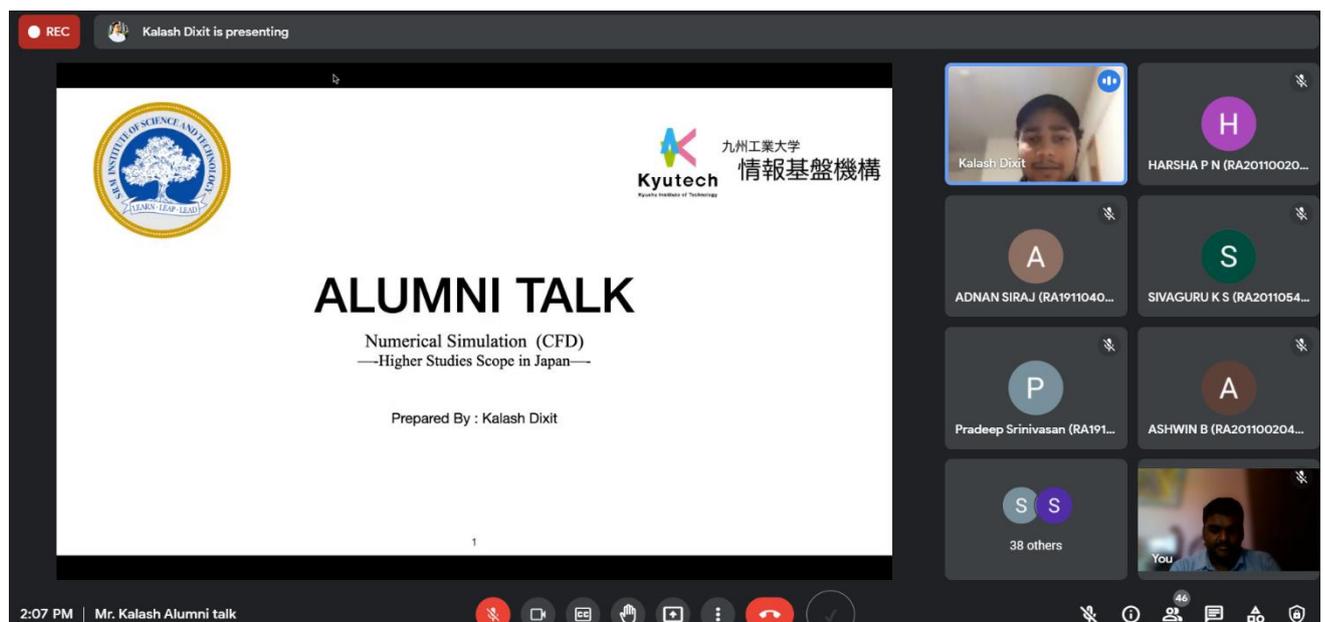
The department of Mechanical Engineering of SRM Vadapalani organised an Alumni talk on 28th June 2021. The Alumni Speaker for the event was Mr Kalash Dixit. Mr Kalash Dixit studied Mechanical Engineering in SRM during 2015-2019. At present Mr Kalash Dixit is a second-year Master's student at Kyushu Institute of Technology.

The session was divided into three sections. In the first section, Mr Kalash Dixit talked about the importance of mathematics, Finite element Analysis and software packages in Space Exploration. He also gave insights from a project that he is currently pursuing.

In the second section, Mr Kalash Dixit gave an overview of culture and opportunities in Japan. He also threw light on various scholarships that can be availed and the eligibility for them. He also emphasised the importance of maintaining a good GPA.

In the third section, the floor was open for Questions and Answers with the speaker. Many students asked their doubts regarding the Japanese language, cost of education, Opportunities and top universities to aim for etc.

Overall, the students found the session insightful.

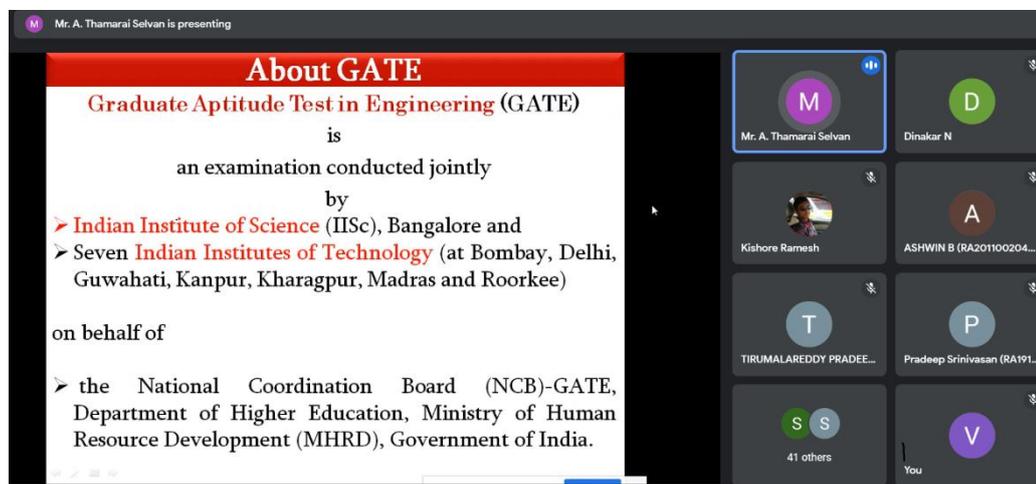


# Webinar on Opportunities through GATE Examination

The Mechanical Engineering Department of SRM Institute of Science and Technology, Vadapalani Campus organized a webinar on “Opportunities through GATE Examination” on 30th June 2021. The expert speaker for the session was Mr Thamari Selvan, who is the founder of VGATE-Academy.

He explained about the organizing body of the Graduate Aptitude Test in Engineering (GATE EXAM) and the benefits one gets in cracking the GATE exam such as the chance to do an M-Tech / MS in prestigious Indian Universities like IITs/IISC/NITs and postgraduate Scholarships /stipend that are granted for students pursuing Masters in India. He also emphasised the research opportunities that one gets in a central government-funded institution after cracking GATE with a good score.

He also threw light on the career opportunities in Public Sector Companies and how a good GATE Score can ensure a shortlist for the interview process in PSUs. In the end, there was a question and answer session with the speaker and the students got their doubts regarding the GATE exam



The screenshot shows a Zoom meeting interface. On the left, a slide titled "About GATE" is displayed. The slide content is as follows:

**About GATE**  
**Graduate Aptitude Test in Engineering (GATE)**  
is  
an examination conducted jointly  
by  
➤ **Indian Institute of Science (IISc)**, Bangalore and  
➤ **Seven Indian Institutes of Technology** (at Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee)  
on behalf of  
➤ the **National Coordination Board (NCB)-GATE**,  
Department of Higher Education, Ministry of Human Resource Development (MHRD), Government of India.

On the right side of the Zoom interface, a grid of participant avatars is visible. The participants shown are: Mr. A. Thamarai Selvan (M), Dinakar N (D), Kishore Ramesh, ASHWIN B (RA201100204...), TIRUMALAREDDY PRADEE..., Pradeep Srinivasan (RA191...), 41 others (S S), and You (V).

clarified. The students found the session to be useful.

## **Internships Attended by Students**

1. Dhibak vs of third-year Mechanical Engineering completed his internship in Uniq Technologies.
2. Lakshman Sai CG of Second-year Mechanical Engineering did his internship at Brittonia Industries Pvt. Ltd.
3. Sriram S of Second Year Mechanical and Automation Engineering completed his internship in ESAB Pvt Ltd.
4. Aswin S of Second Year Mechanical and Automation Engineering completed his internship in ESAB Pvt Ltd
5. MR. Roshan Raj R from final year Mechanical Engineering completed inplant training in CEE YESS Technologies.
6. MR. S.K. Charan from final year Mechanical Engineering completed inplant training in CEE YESS Technologies.
7. Rishi Nair of third Year Mechanical Engineering completed his internship in TVS-Delphi.
8. Rohit Rishi Balaji completed a 3-month internship at Gemini Technical Industries, Abu Dhabi.

# **STUDENTS' ACHIEVEMENTS**

1. Aswin S secured the first position in the Auto quiz event conducted by Anna University as part of Kurukshetra 21'
2. Aswin S secured the fourth position in the Business quiz event conducted by IIT-Hyderabad as part of Entrepreneurship Summit 21'.
3. Aswin S secured the first position in the Business quiz event conducted by Indian Maritime University, Chennai Campus as part of Estuary 21.
4. Aswin S secured the Second position in the Online Chess competition conducted by ACE College of Engineering, Thiruvananthapuram as part of Aurora 2K21

# ALUMNI ACHIEVEMENTS

## **Mr Abhijith Sudhaker (Batch 2013-17)**



Our Mechanical alumni **Mr. Abhijith Sudhaker** (2013-2017 batch) has completed his Master's at Western University and is currently got an opportunity to work with Pineberry Manufacturing as a Mechanical Design Engineer. SRM IST Vadapalani Congratulates him for his achievement and wishes him a bright career.

## **Mr Dharmang Desai (2016-20)**



Our Mechanical alumnus **Mr. Dharmang Desai** (2016-2020 batch) was awarded **top performer award** by **Cue Math** for exemplary performance in his role as a Business Development Associate. SRM IST Vadapalani Congratulates him for his achievement and wishes him a bright career.

### **Mr. Haren Ramaswamy (2015-2019 batch)**



Our Mechanical alumnus **Mr. Haren Ramaswamy** (2015-2019 batch) has completed his Master's in Industrial Engineering at the University of Buffalo and is currently working in ZF Group as a Materials Planner. SRM IST Vadapalani Congratulates him for his achievement and wishes him a bright career.

## **JAGATHISHKUMAR T S (2014-2018 Batch)**



Our Mechanical alumnus **Mr JAGATHISHKUMAR T S** (2014-2018 Batch) has completed his Master's in Manufacturing System and Management at College of Engineering Guindy, Anna University and he has got an opportunity to work with MapmyIndia as a Product Engineer. SRM IST Vadapalani Congratulates him for his achievement and wishes him a bright career.

# CLUB ACTIVITIES

## LIST OF ACTIVE CLUBS

S. No.	Name of the club
1	SAE Collegiate Club
2	IET
3	Institute of Indian Foundrymen (IIF) student chapter
4	ISTE faculty and students' chapter
5	Automation and Robotics club (ARC)
6	National Institution for Quality and Reliability (NIQR) Students' chapter
7	Photography club

### SAE collegiate Club



The SAE collegiate club of SRM IST Vadapalani Campus was started by a group of like-minded third year students from the department of Mechanical Engineering in 2011-2012. The club was formed with 110 members from the department of mechanical engineering. A decade since its inception the club has hosted several Intra and inter-college SAE events. The members of the club actively participate in national-level events organized by the SAE community across India. The college Kingpin racing team has also won several accolades in the Supra SAE event. The SAE members often attend the webinars and expert talks on topics that are much needed for the modern engineer.

### IIF Student Chapter



The Institute of Indian Foundrymen (IIF) was set up in 1950 to promote education, research, training and development to Indian foundrymen and to serve as a nodal point of reference between the customers and suppliers of the Indian foundry industry on a

global scale. With its Head Quarter in Kolkata, IIF presently services the entire country through its 26 Chapters under four Regional Offices located at Kolkata, Delhi, Mumbai and Chennai. The Institute is a member of the World Foundrymen Organisation (WFO) and Confederation of Indian Industry (CII). This club organizes Conclave, expert talks and Industry visits for our students.

## **ARC Club**

The newly formed club by the department of Mechanical Engineering SRM VDP aims to explore the area of Automation and Robotics. The club organized several webinars in relevant areas which would benefit students to gain knowledge about the advanced automation and robotics technology used in the industry. A lot more exciting programs have been planned for the future.

## **Online Learning**

Many students made use of their leisure time during the pandemic in up skilling themselves in various online learning platforms such as COURSERA, ED-X, Udemy, NPTEL etc. SRM IST partnered with Coursera to facilitate online learning and issued free licenses for 5000+ courses. The students received a digital certificate of completion upon completion of the course.

# **FACULTY DEVELOPMENT PROGRAM**

<b>S.No.</b>	<b>Name of faculty</b>	<b>Name of Conference/Seminar/Symposium/Workshop/ Webinar attended</b>	<b>Institute organizing the event</b>
1.	Dr. I. Suresh Kannan	3D Printing & Design	PSG College of Technology, Coimbatore
2.	Mr. A. Arunnath	Sheet Metal Design using SolidWorks	ICT ACADEMY
3.	Mr. P. Haja Syed Masooth	Material processing	NPTEL
4.	Mrs. P. Aruna Rani	Progressive Innovations in Land Surveying	SRM Institute Of Science And Technology
6.	Mr. Umapathy A	International Conference on Recent advances in manufacturing engineering research.	SRM IST KTR.
7.	Mr. Umapathy A	Patent Commercialization Methods and Strategy.	Francis Xavier Engineering College, Tirunelveli, Tamilnadu
8.	Mr. Haja Syed Masooth	Workshop on Examination Reforms	AICTE

9.	LEELA PRASAD G	Experimental Investigation and Performance Enhancement of Thermosyphon Using Phase Change Material	Sreenidhi Institute of Science & Technology, Hyderabad
10.	LEELA PRASAD G	Research on Waste Heat Recovery-Combined Cycle Approach	Sreenidhi Institute of Science & Technology, Hyderabad.
11.	LEELA PRASAD G	Advances in Fluid flow and Heat Transfer	SRM Institute Of Science And Technology
12.	MANIKANDAN S	Continuing Educational Program	IIT Madras
13.	MANIKANDAN S	Research advances in Manufacturing Engineering Research	SRM Institute Of Science And Technology
14.	Mr. Umapathy A	Advanced Applications in Composite Materials	Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi.
15.	Mr. Umapathy A	Vibration Analysis and Measurements	MISRIMAL NAVAJEE MUNOTH JAIN ENGINEERING COLLEGE THORAIPAKKAM, CHENNAI

16.	Dr. I. Suresh Kannan	MECHANICAL CHARACTERISTICS OF JUTE AND FLAX FIBRE REINFORCED HYBRID POLYMER COMPOSITES	Department of Mechanical Engineering, Academy of Maritime Education and Training (AMET)
17.	Mrs. P. Aruna rani	TRAILBLAZING PRACTICES IN GEOTECHNICAL ENGINEERING	AICTE
18.	Dr. I. Suresh Kannan	Experimental investigation of average surface roughness and chip morphology in end milling of Aluminium alloy 6151 using uncoated and TiAlN coated HSS tools.	Sardar Vallabhbhai National Institute of Technology (SVNIT)
19.	Dr. I. Suresh Kannan	Smart Manufacturing and Metrology	IIT Madras
20.	Dr. I. Suresh Kannan	Elements of Smart Manufacturing	IIT Madras
21.	Dr. I. Suresh Kannan	Hybrid Machining Solutions for Typical/Complex Engineering Applications	Dr B R Ambedkar National Institute of Technology, Jalandhar.
22.	Mr. Kamatchi Hariharan	International Conference of Advanced Research and Innovation	Meerut Institute of Engineering and technology, Meerut

23.	Mr. Kamatchi Hariharan	Investigation on Effect of TiN, TiAlN & DLC - triple Layer Coated Carbide Tool in Machining of Al	SRM Institute of Science and Technology, Kattankulathur Campus
24.	Mr. Kamatchi Hariharan	Artificial Intelligence” organized by Department of E & TC, JSPM’s Rajarshi Shahu College of Engineering, Polytechnic, Pune	The Institute of Engineers (INDIA)
25.	Mr. Kamatchi Hariharan	Mechanical Investigation of Magnesium Composite with Boron Carbide and Graphite as Reinforcements Processed by Equal Channel Angular Pressing	SRM Institute of Science and Technology, Kattankulathur Campus
26.	Mr. Kamatchi Hariharan	RENEWABLE ENERGY INTERVENTION IN INDUSTRY, COMMERCIAL AND DOMESTIC APPLICATION	Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal
27.	Mr. Kamatchi Hariharan	World class Smart Manufacturing powered by Artificial Intelligence and Machine Learning	Mahendra Engineering college, Namakkal
28	Mr. PRABAKARAN. P	Research Writing	SRM Institute of Science And Technology Vadapalani Campus
29	Mr. PRABAKARAN. P	How to Write A Scientific Research Article for Publication : A strategy	Akshaya College of Engineering and Technology

30	Mr. VIGNESH S	Rapid Prototyping and Artificial Intelligence for Industrial Applications	AICTE
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## RESEARCH PUBLICATIONS

1. Sathish Kumar R, Rajaraman R, Nadanakumar V, Christu Paul R, Ganesan S and Ravishankar Sathyamurthy, “Effect of Kerosene and Methanol Blending with Pongamia Pinnata Biodiesel on Diesel Engine Performance and Emission Characteristics”, IOP Conf. Series: Materials Science and Engineering, April 2021, <https://doi:10.1088/1757-899X/1130/1/012030>.
2. Kamatchi Hariharan M, published a paper titled "Optimization of machining parameters in turning of LM6 high silicon aluminium alloy using aluminium titanium nitride and diamond like carbon coated carbide tool" Materials Today: Proceedings Volume 45, Part 7, 2021, Pages 5853-5859 <https://doi.org/10.1016/j.matpr.2020.08.281>.
3. Kamatchi Hariharan M, published a paper titled "Optimization of coated CNC tool by micro abrasive blasting and chemical etching" AIP Conference Proceedings 2317, 020031 (2021); <https://doi.org/10.1063/5.0036264>
4. S Vignesh, 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, Impact factor-0.5 - Feb 2021
5. S Vignesh, 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. March 2021. Impact factor – 1.606

# **SESSION CHAIR**

1. Dr. R. Rajaraman acted as a session chair for online International Conference on “International Conference on Advances in Thermal Engineering and Applications (ICATEA-2021) from 19.03.2021 – 20.03.2021 at SRM Institute of Science and Technology, KTR Campus, Chennai.
2. Dr. R. Rajaraman acted as a session for online International Conference on “International Conference on Advances in Renewable and Sustainable Energy Systems (ICARSES)

# **PATENTS FILED**

3. AN APPROACH TO HETEROGENEOUS MULTI DESIGN BASED FLOOR PLANNING A WARE WITH THERMAL POWER DELIVERY. PATENT NUMBER- 2020101942 – Mr. K. Ravikumar
4. DEVELOPMENT OF ADVANCED MULTI AGENT SYSTEM WITH MOBILE ROBOT FOR CONTROL STRATEGY. PATENT NUMBER-2020103439-Mr. K. Ravikumar

# PLACEMENT DETAILS

S.No	Roll Number	Roll Number	Company	Job Title
1	RA1711002040001	AADITHYA S	ANAND Automotive Private ...	Interns
2	RA1711002040007	PATRICK E	Tredence Analytics Soluti...	Analyst
3	RA1711002040009	VENKATA SUBRAMANIAM V	Tata Advanced Systems Lim...	GET
4	RA1711002040015	M Siddarth	Capgemini	Analyst / Senior Analyst
5	RA1711002040024	JANAKIRAMAN KANTHINATHAN	ANAND Automotive Private ...	Internship
6	RA1711002040026	KANISHK VISHWANATHAN	LIDO	Business Development Trai...
7	RA1711002040030	MURALIDHARAN S	Amazon	MANAGER - OPERATIONS
8	RA1711002040031	Kowshik S	Nilkamal Ltd.	Industrial Engineer
9	RA1711002040044	SUDIPTA GIRI	K12 Techno Services Pvt. ...	Executive - Business Development
10	RA1711002040046	M JAIRUNKAANTH	Jungle Works ( Click Labs...	BD Trainee

and many more ....

## EDITORIAL BOARD

### ❖ STUDENT MEMBERS



Rudrakshi Chaurasia  
B.Tech-Mech III year



R. Padmesh Chari  
B.Tech-Mech III year



Aswin S  
B.Tech-Mech & Auto II year

## ❖ FACULTY MEMBERS



Dr. I. Suresh Kannan, M.E., Ph.D.



Mr. S. Vignesh, M.E., (Ph.D.)



Mr. N. Dinakar, M.E., (Ph.D.)



Mr. M. Kamatchi Hariharan, M.E., (Ph.D.)



Mr. R. Gowri Manohar, M.E., (Ph.D.)