



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956  
**VADAPALANI**

News Letter

DEPARTMENT OF  
MECHANICAL ENGINEERING  
**MECHRONICLE**

VOLUME-06

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# **MESSAGE FROM THE HEAD OF THE DEPARTMENT**



**DR. R. RAJARAMAN**  
**PROFESSOR AND HEAD**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

It is a great pleasure to reach you all with MECHRONICLE 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-centered atmosphere covering up all the verticals in hybridizing the learning environment and bringing out the student's talents. Our B. Tech Mechanical Engineering student Ms. Nethra Kumanan represented India in the 2020 Olympics in Tokyo, Japan. She was the first women sailor of India to qualify for Olympics. Our department expanded our alumni connects by organizing mentoring sessions for our current students. We have active collegiate clubs like 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 Foundrymen (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 to provide 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 contribution made and to be made. I congratulate the team for their efforts to bring out this newsletter successfully.

Our B. Tech Mechanical Engineering student Ms. Nethra Kumanan represented India in the 2020 Olympics in Tokyo, Japan. She was the first women sailor of India to qualify for Olympics. Our department expanded our alumni connects by organizing mentoring sessions for our current students. We have active collegiate clubs like 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 Foundrymen (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 to provide 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 contribution made and to be made. I congratulate the team for their efforts to bring out this newsletter successfully



# ABOUT THE DEPARTMENT

The fourth industrial revolution is known as “Industry 4.0”, a German concept where the industrial operations are fully automated by adapting 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 “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 the requirements of “Industry 4.0”.

## **B.Tech - Mechanical Engineering**

### **B.Tech - Mechanical Engineering with Specialization in Artificial Intelligence and Machine Learning.**

The B.Tech. in 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 & 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 its 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 practicing 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 unique learning experience in Science, Technology, Medicine, Management, and other areas of scholarship that will best serve the world and betterment of mankind.

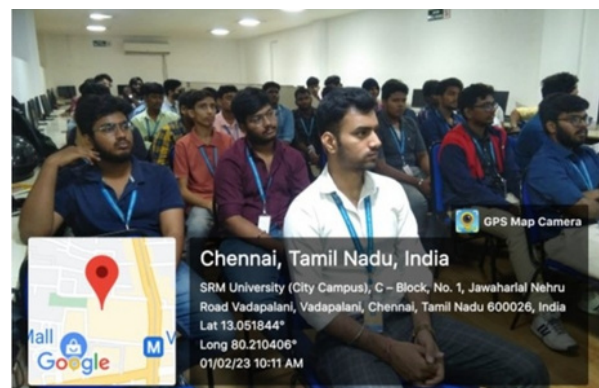
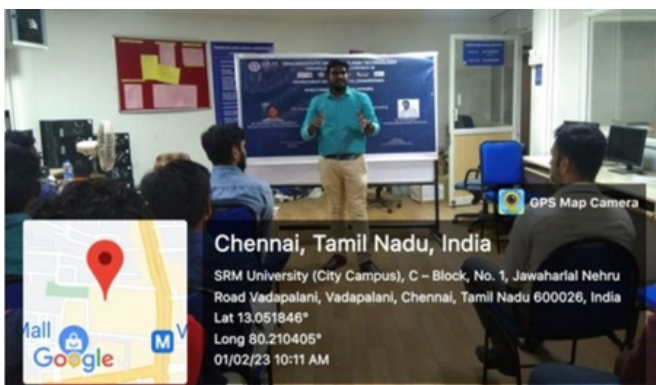
## **MISSION**

**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.

**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**3D Printing Workshop on 1-2-2023 and 2-2-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized a 3D Printing workshop for two days on 1-2-2023 and 2-2-2023. The resource persons for the workshop were Mr Kanthinathan Janakiraman, Managing Partner, Divija Technologies and Mr Senthil Kumar, Founder, Dream Shape 3D Private Limited.

The workshop primary objective was to teach the students about the advancements in 3d printing and the whole concept of additive manufacturing. It was a hands-on workshop where the students would design a model and see it being made in a 3D printer real time. The students found this workshop very interesting and useful.

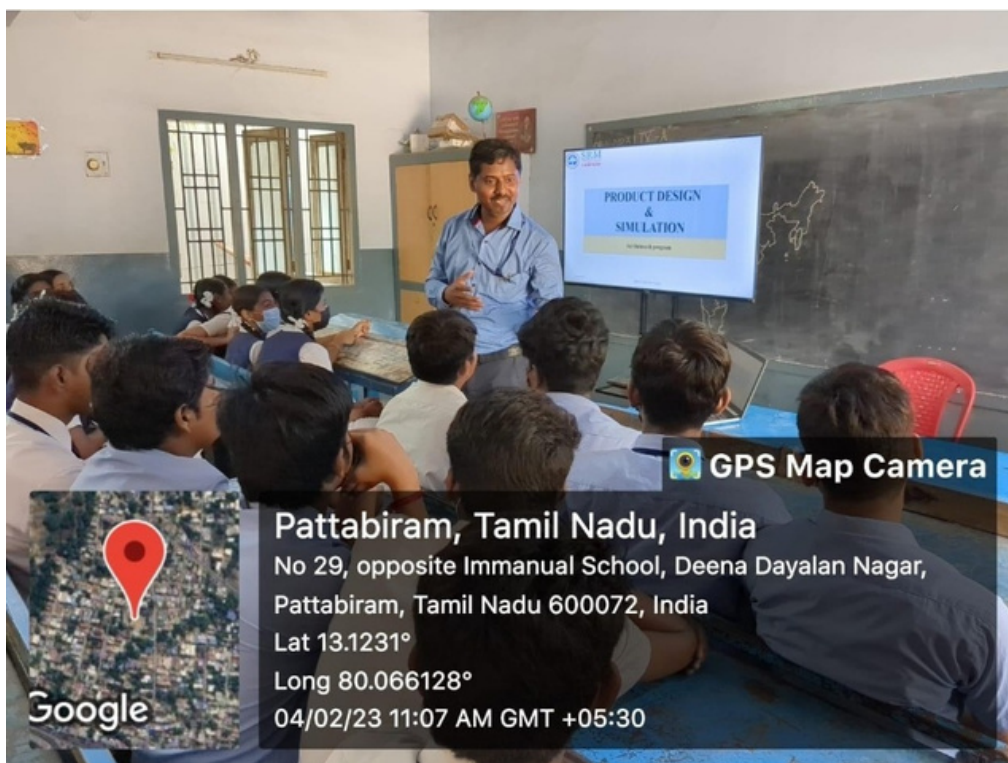




**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**Outreach on “Product Design, Simulation and Manufacturing” on**  
**4-2-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized an outreach program for school students of XI and XII standard in Immanuel Matric. Hr. Sec. School, Pattabiram, Chennai - 600072 on 04.02.2023.

The topic was “Product Design, Simulation and Manufacturing”. Dr. P. Haja Syeddu Masooth and Mr. G. Leela Prasad gave a brief explanation of these topics to the students.

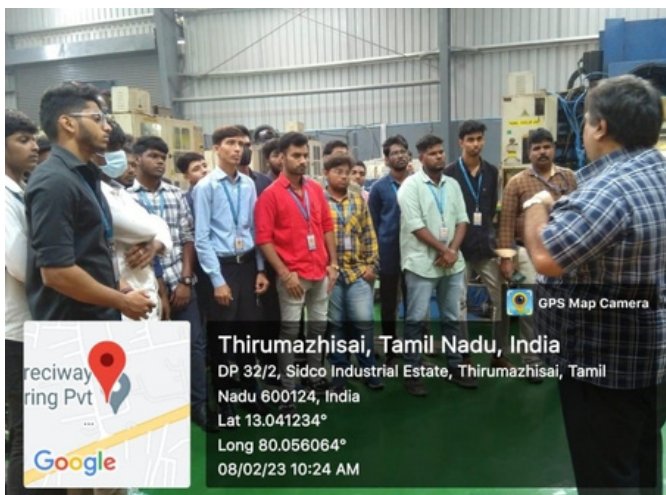




**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**“Industrial Visit to BEEGEE Forge, Chennai” on 8.2.2023**

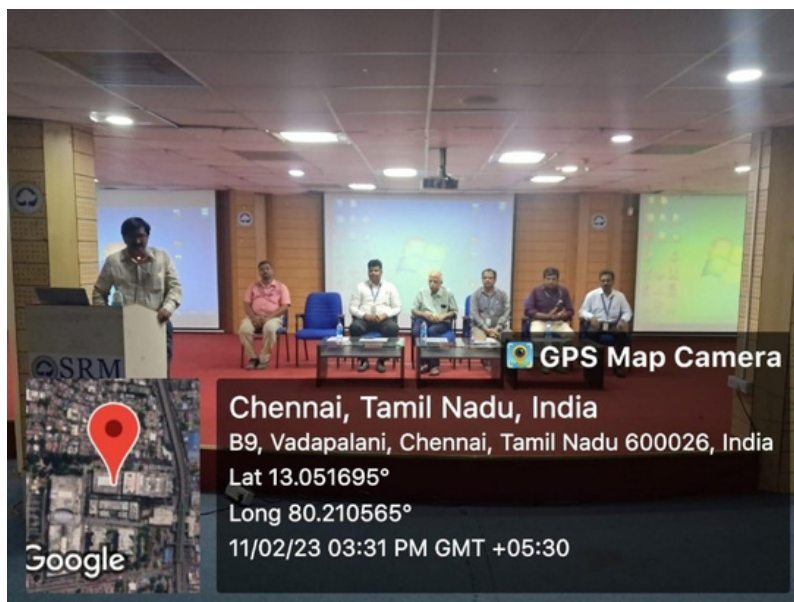
The Department of Mechanical Engineering, SRMIST Vadapalani campus organized an Industrial Visit to BEEGEE Forge on 8-2-2023 for the second year students. The students were accompanied by Mr E.Sankar and Mr R.Arulraja

The students were introduced to various instruments and were briefed on the common hot forging techniques and its applications in the industry. The students found the visit very useful.



**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**Seminar on “Filtration requirements to Automotive Engineering”**  
**on 11-2-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized a Seminar on “Filtration requirements to Automotive Engineering” on 11-2-2023. The resource person was Dr PA Lakshminarayanan, Formerly Chief Technical Officer M/ s Simpson & Co, Ltd, Chennai. The seminar was about filters and its usage in diesel engines. He furthermore elaborated the importance of filtration being a key process to maintain the life of an engine. The students found this seminar useful.





**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**“Industrial Visit to Integral Coach Factory, Avadi, Chennai” on**  
**21.2.2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized an Industrial Visit to Integral Coach Factory, Avadi, Chennai on 21-2-2023 for its first year students. The students were accompanied by Mr G Leela Prasad. The students were shown around the massive factory and were briefed about the process of making rail coaches and about its demand in the Indian Railways. The students found this visit useful and informative.

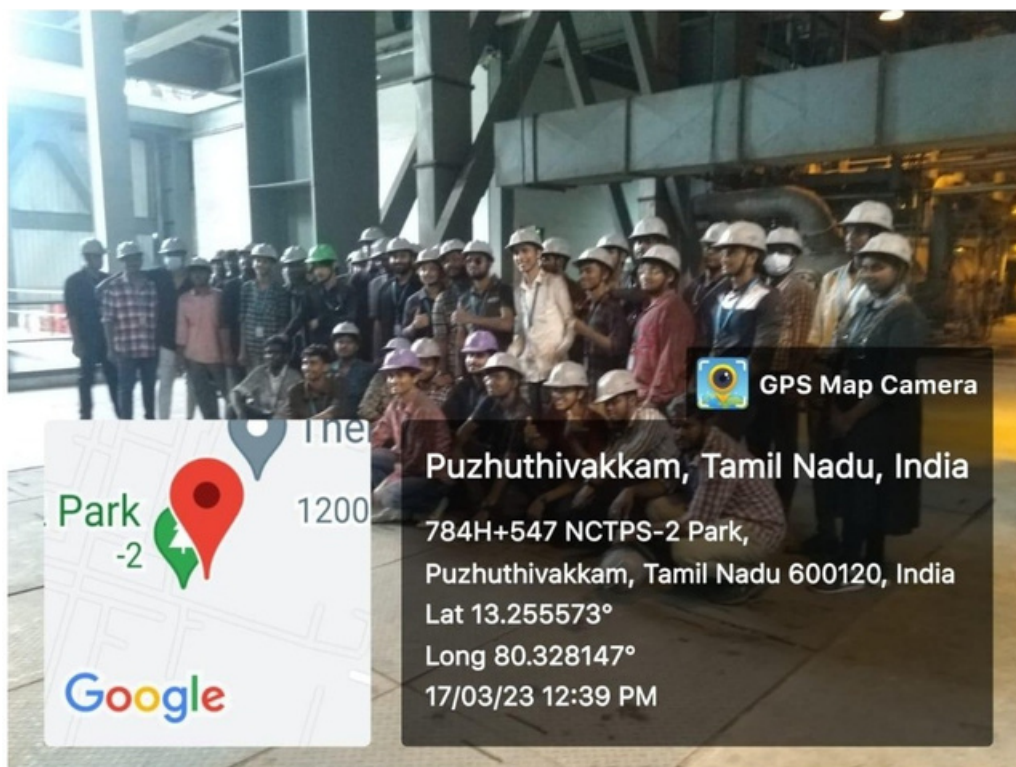


**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**

**“Industrial Visit to Ennore Thermal Power Station, Chennai” on**  
**17.3.2023**

The Department of Mechanical Engineering, SRMIST, Vadapalani campus organized an industrial visit to Ennore Thermal Power Station on 17.03.23 for the first and second year students. The students were accompanied by Dr.P Haja Syeddu Masooth, Mr.E.Sankar and Mr.A.Arunnath.

The students were taken around the power station on that day. They were taught about the processing station and the control room operations. The students were also briefed about the energy needs and the supply sources of the state.

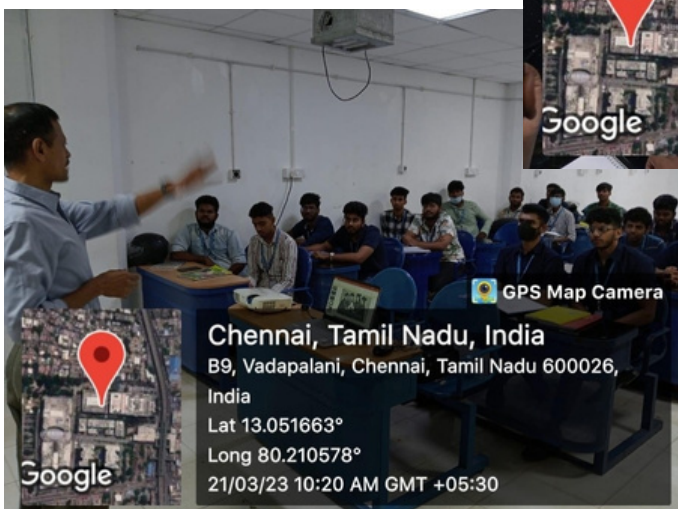




**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**Seminar on “Higher Studies Awareness” on 21-03-2023**

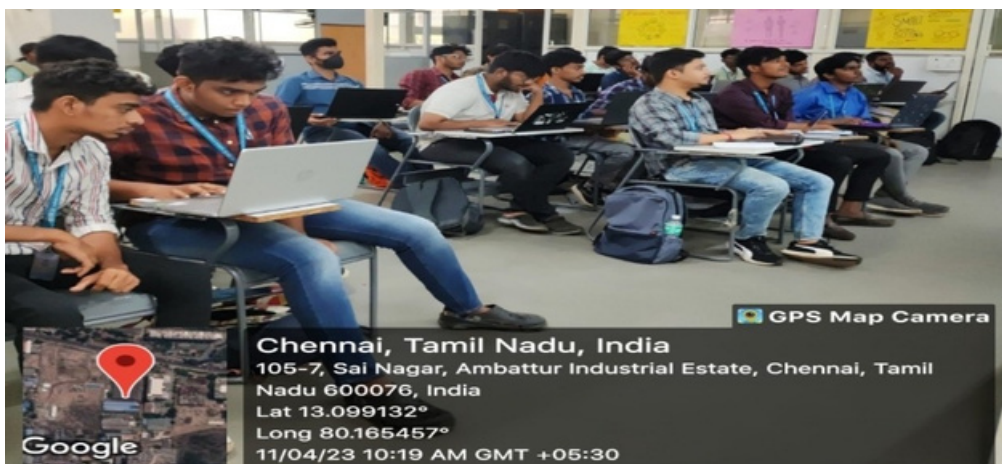
The Department of Mechanical Engineering, SRMIST Vadapalani campus organized a Seminar on “Higher Studies Awareness” on 21-03-2023 for its 1st, 2nd and 3rd year students. The resource person was Mr K.S Baskar, CEO - Wizako.

The resource person explained about the procedures for education abroad and its scope. He also busted some common myths about education in a foreign country.



**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**Training on “Data Analytics for Manufacturing” from**  
**10-4-23 to 15-4-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized a training program for its 2nd year students from 10-4-2023 to 15-4-2023, at TVS Training and Services- Ambattur. This was an outcome of an MoU with the company. A total of 24 students have completed the 5 day training program, which was on the topic of “Data Analytics for Manufacturing”. A total of 24 students from the department attended the training program.



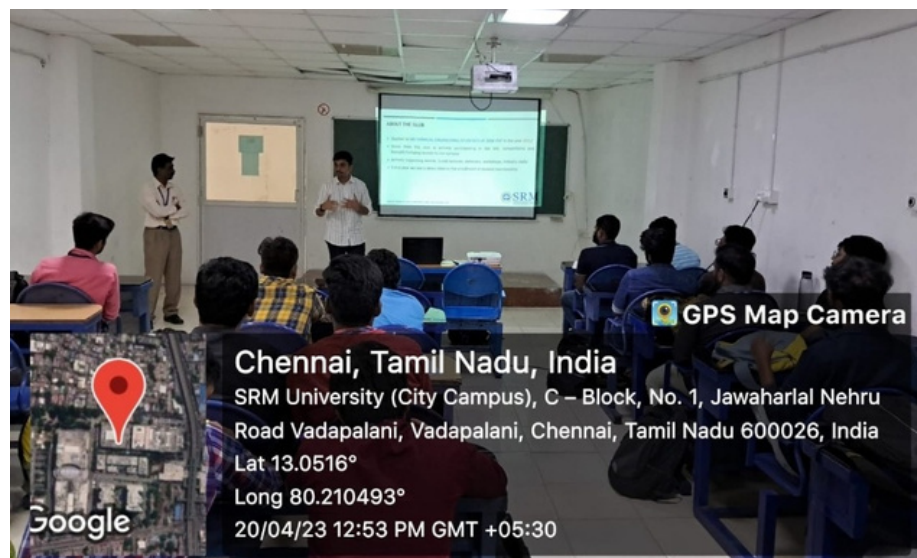


**SRM Institute of Science and Technology, Vadapalani Campus**

**Department of Mechanical Engineering**

**Seminar on “Advancements in Mobility” on 20-4-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized a Seminar on “Advancements in Mobility” on 20-4-2023 for its 2nd year students. The resource person was Mr G Sunil Kumar, Product Marketing Manager at Freshworks. He shared his perspectives on groundbreaking advancements, such as electric and autonomous vehicles, connected mobility, and alternative fuels. He discussed the potential of these technologies to revolutionize transportation, enhance safety, and mitigate environmental challenges. Additionally, he highlighted the need for interdisciplinary collaboration and adaptability to thrive in this ever-changing landscape. Overall, the students found this session informative.



**SRM Institute of Science and Technology, Vadapalani Campus**  
**Department of Mechanical Engineering**  
**Alumni Talk on “Overview of Float Glass” on 30-6-2023**

The Department of Mechanical Engineering, SRMIST Vadapalani campus organized an alumni talk on “Overview of Float Glass” for the students of the department. The resource person was Mr Abhay K(2018-2022), Key Accounts Manager at Saint Gobain India.

The resource person shared about his experience at college and the hiring process for core companies at SRM. He also explained his type of job and gave an introduction to the properties and applications of float glass. Overall, the students found this session useful.

The screenshot displays a Zoom meeting interface with a PowerPoint presentation titled "U-VALUE". The slide content is as follows:

- U-VALUE**
- Amount of heat Transferred in watts due to 1 degree temperature difference For 1 square meter
- U Value, Watts per Sq. MK. Measure emissivity
- Area = 1 m<sup>2</sup>
- Total Indirect heat gain = (U Value) X (Temperature Difference) X (Area)
- T<sub>1</sub> = 1°C
- T<sub>2</sub> = 0°C

The diagram shows a 3D representation of a glass pane with a red arrow indicating heat transfer from T<sub>1</sub> = 1°C on the left to T<sub>2</sub> = 0°C on the right. A blue arrow points from the definition of U-VALUE to the U Value box. The Zoom interface shows participants: Sreekumar B, Abhay K, S.S.Priyadharshini, HARSHA, and Surya kumar.



# UNIVERSITY RANK HOLDERS



**Mr. M. Karthik**

**CGPA:9.65**

**B.Tech- Mechanical &  
Automation Engineering**

**Batch:2019-2023**



**Mr. Chethan Nonavinakere**

**CGPA:9.61**

**B.Tech- Mechanical  
Engineering**

**Batch:2019-2023**

In a remarkable display of academic brilliance, **Mr. M.Karthik** and **Mr. Chethan Nonavinakere** have left an indelible mark on their university's Mechanical Engineering department, securing the coveted first ranks in their respective fields. Chethan's exceptional dedication and hard work earned him an outstanding overall CGPA of 9.61, while Karthik's unwavering pursuit of excellence led to a stellar 9.65 CGPA in the specialized domain of automation.

Their remarkable achievements have not only brought pride to their families but also inspired their peers and faculty members alike. The path they have forged demonstrates the power of passion and perseverance in the pursuit of academic success.

We congratulate Mr.M.Karthik and Mr.Chethan Nonavinakere on their momentous accomplishment and wish them all the best for their future endeavors, which are undoubtedly bound to leave an enduring impact on the field of Mechanical Engineering and Automation.

# STUDENT ACHIEVEMENT PROGRAM

Our Students from 3rd-year Mechanical (Team MOTONIX) won 3rd place in the “Best Design” category in the Bicycle Design Challenge 2023, Organized by SAEINDIA Southern Section on 1-4-2023 and 2-4-2023 at PSNA College of Engineering and Technology, Dindigul.



## TEAM MOTONIX

Sreekumar B (captain)

Nitish Kumar P

Kotla Mustaq Ahmed

Karthick S

Ashwin B

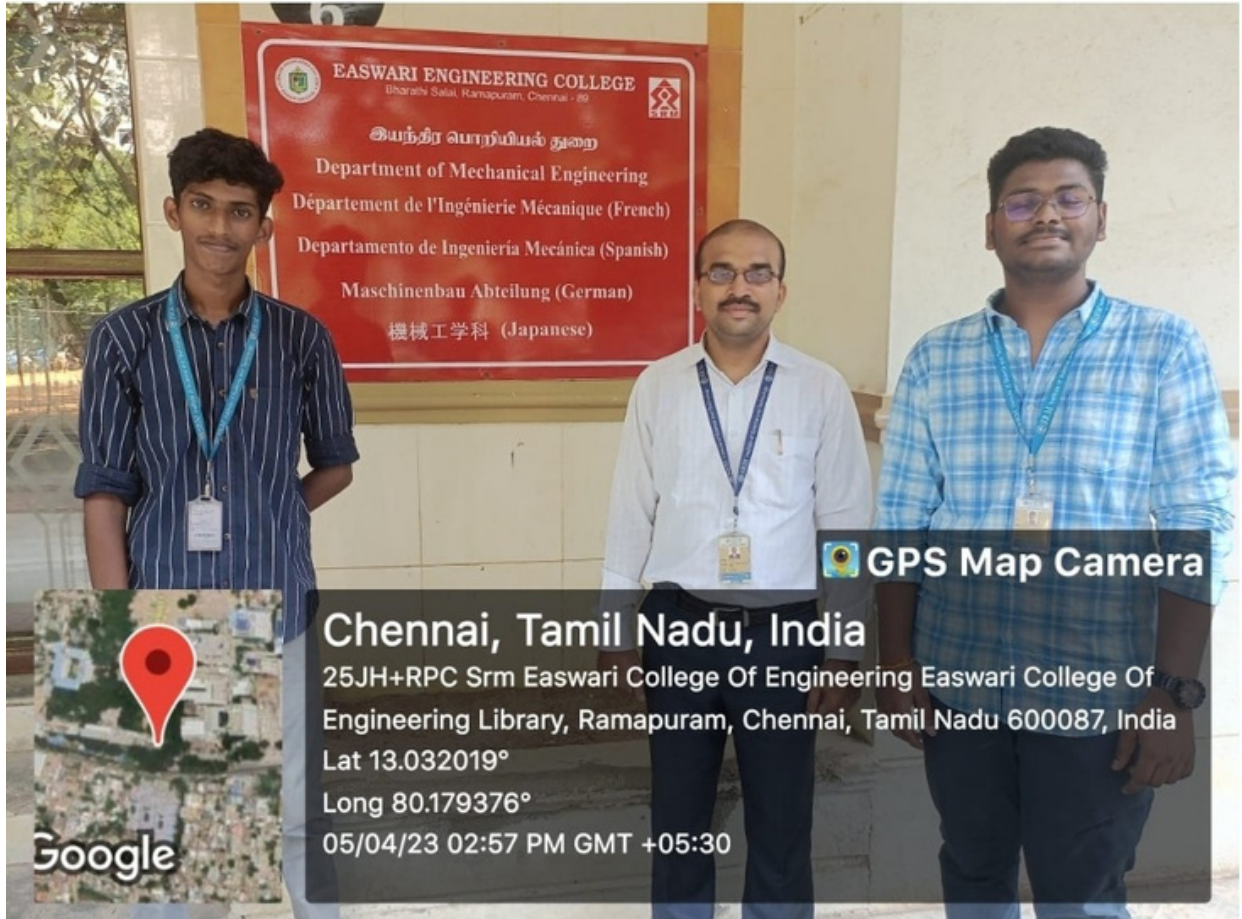
Thannish S

Tharunrebu.S



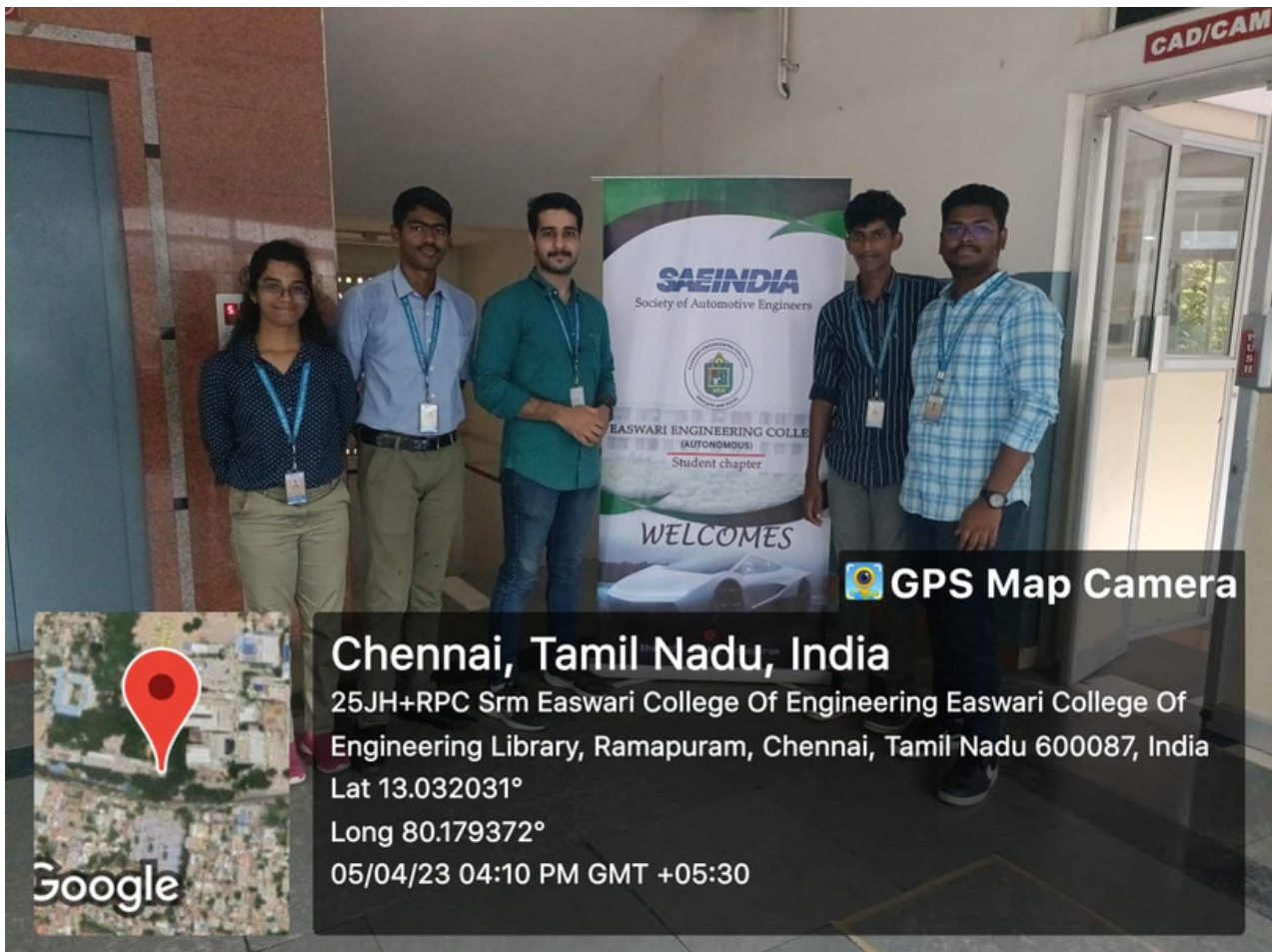
# STUDENT ACHIEVEMENT PROGRAM

SAEINDIA Southern Section Tier 2 Events held at Easwari Engineering College, Ramapuram on 5th April 2023. Harihara Subramanian. K, Manoj. R and Vemana Venkata Rupesh Kumar of Mechanical Engineering department secured First position in Auto Quiz Event.



# STUDENT ACHIEVEMENT PROGRAM

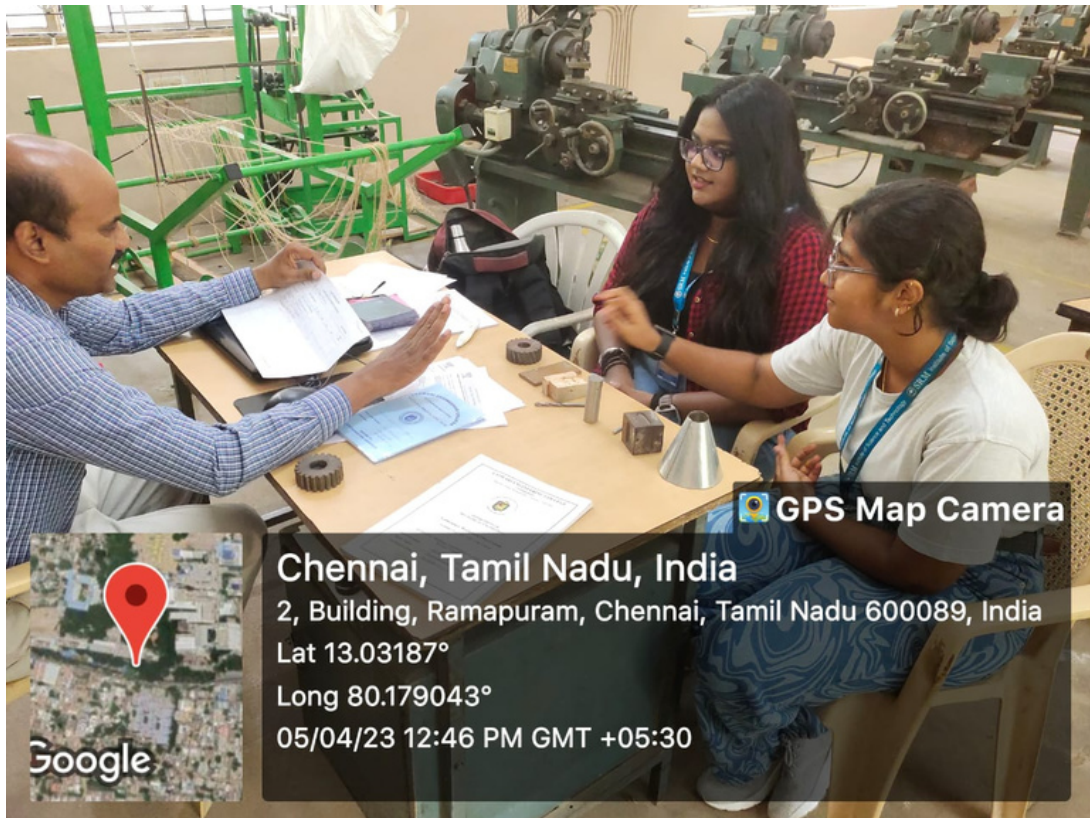
Hari Vittal and Sai Nivedha from the Department of Mechanical Engineering, 1st year, participated and won Second prize in the "Paper Presentation" Competition conducted by SAEINDIA Southern Section Tier 2 Events held at Easwari Engineering College, on 5th April 2023.  
Title : Semi Perpetual Motion Electric Vehicle.





# STUDENT ACHIEVEMENT PROGRAM

DV Mirnalini and VS Thanushri from the Department of Mechanical Engineering, 1st year, participated and won Second prize in the "Material Identification" Competition conducted by SAEINDIA Southern Section Tier 2 Events held at Easwari Engineering College, on 5th April 2023.



Manoj R of 3rd year Mechanical published an article on “The rise of Susie Wolff: From Karting Champion to F1 Academy Managing Director”. This article was featured in the April 2023 Edition of the magazine “Karrep”.

Autosport  
ARTICLE
Autosport  
ARTICLE

## The Rise of Susie Wolff: From Karting Champion to F1 Academy Managing Director

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Buckle up, folks! We've got a story about a real trailblazer in the world of motorsports. Susie Wolff has been on the fast track since she was eight years old, and her journey has been nothing short of inspiring. From kart racing to Formula 3, DTM, and even Formula 1, Susie has shattered glass ceilings and made history as the first woman to compete in an F1 weekend in over two decades. Now, as Managing Director of the F1 Academy, she's helping to develop the next generation of female drivers and pave the way for increased diversity and inclusion in racing. Get ready to rev your engines and learn all about Susie Wolff's incredible career.

2023 April

Susie Wolff is a leading name in the motorsports industry. She is now the Managing Director of the F1 Academy, where she will be assisting in the development of the next generation of female drivers in racing. Her journey towards becoming Managing Director of the F1 Academy is an inspiring one.

Susie's career in racing began at the age of eight, and she was named the British Women Kart Racing Driver of the Year multiple times. She took part in a range of karting categories, succeeding in the majority of them. Susie Wolff progressed to the British Junior International "A" Championship in 1998 and finished 10<sup>th</sup> overall in her first season. She also raced in the Federation Cup European International "A" Championship, finishing 11<sup>th</sup> overall. The next year, she finished 13<sup>th</sup> in the British Formula "A" Championship. In 2000, she improved her performance to finish 10<sup>th</sup> in the British Formula "A" and 15<sup>th</sup> in the Formula "A" World Championships, establishing herself as the world's top female kart driver.

Wolff advanced to the British Formula 3 Series in 2005 to compete in the Championship Class for Alan Docking Racing. In June, Wolff made a one-off debut in the Porsche Carrera Cup GB

at Brands Hatch, Susie entered the DTM world in 2006. (Deutsche Tourenwagen Masters). She debuted for Mücke Motorsport. After racing in the DTM series for seven years, she announced her departure in 2012 and began to focus solely on her F1 career.

She was signed as a development driver for the Williams F1 team in 2012. Considering her performance as a development driver, she was granted the opportunity to drive in Free Practice sessions of the British and German Grand Prix during her third season with the team. She was the first woman to compete in an F1 weekend since 1962. Susie declared her retirement from all forms of racing in 2015 after four years in F1, but she wanted to put on one final performance by competing in Race of Champions alongside David Coulthard. Most people assumed that her retirement would be the end of her career in motorsports. But that was only the end of the beginning. Susie co-founded Dare to Be Different with Rob Jones. Dare to Be Different is a non-profit organization dedicated to increasing female participation in motorsports. It had many well-known names in the motorsports world as ambassadors, ranging from Claire Williams to Tatiana Calderon.

After a two-year break from the game, she entered Formula E series not as a driver this time but as a Team Principal and shareholder of Venturi Racing. The team performed admirably

45



KARREP KARREP KARREP 2023 April

of the team's renaming.

Susie was named Managing Director of F1 Academy, an all-female racing series, on March 1, 2023. In which she will be in charge of developing new female drivers and navigating the Formula 1 pyramid's junior categories. Susie will report directly to Formula 1 CEO Stefano Domenicali, along with General Manager of F1 Academy Bruno


2023 April

women in racing, pioneering the Dare To Be Different campaign. She has experience in racing both on and off the track, having worked as an F1 Development Driver for Williams and racing in Formula Renault and DTM. Her tenure as Team Principal of the VENTURI Formula E organisation and, most recently, CEO of the team included directing the team's highest Championship finish, P2 last season.

the future of racing. Her hiring is a wonderful step towards increased diversity and inclusion in sports.

**Author**

**MANOJ R**  
Mechanical Engineering Student & Designer  
Motorsports Enthusiast



KARREP



# FACULTY DEVELOPMENT PROGRAMME

| S. No | Name of the Staff          | Type of FDP | FDP Title   | Venue               |
|-------|----------------------------|-------------|---|---------------------|
| 1     | Mr. N. Dinakar             | AICTE       | Inculcating Universal Human Values in Technical Education       | SRM IST, KTR Campus |
| 2     | Dr. V. Kumar               | AICTE       | Inculcating Universal Human Values in Technical Education       | SRM IST, KTR Campus |
| 3     | Mr. E. Sankar              | NPTEL       | Introduction to Abrasive Machining and Finishing Processes      | Online              |
| 4     | Dr. I. Suresh Kannan       | NPTEL       | Introduction to Machining and Machining Fluids                  | Online              |
| 5     | Dr. M. Kamatchi Hariharan  | NPTEL       | Introduction to Abrasive Machining and Finishing Processes      | Online              |
| 6     | Mr. K. Ravikumar           | NPTEL       | Introduction to Abrasive Machining and Finishing Processes      | Online              |
| 7     | Mrs. P. Arunarani          | NPTEL       | Electronic Waste Management - Issues and Challenges             | Online              |
| 8     | Dr. P. Haja Syeddu Masooth | NPTEL       | Principles of Casting Technology                                | Online              |
| 9     | Mrs. P. Arunarani          | Virtual FDP | Sustainable Repair and Rehabilitation of Constructed Facilities | VIT, Chennai        |



# FACULTY DEVELOPMENT PROGRAMME

| S. No | Name of the Staff         | Type  | Title  | Venue  |
|-------|---------------------------|---|--|--|
| 1     | Dr. V. Kumar              | Annantgyan Knowledge and Skills Private Limited | Solar PV Systems and it's Applications   | Online                                       |
| 2     | Dr. M. Kamatchi Hariharan | ISTE approved STTP                              | Role of Artificial Intelligence, Machine Learning and Data Science in Emerging Trends of Mechanical Industries | ZEAL College of Engineering & Research, PUNE |
| 3     | Dr. M. Kamatchi Hariharan | Ministry Of Education                           | National Intellectual Property Awareness Mission   |  |
| 4     | Dr. A. Sengole Rayan      | Paper Presentation, NCR TET 23                  | Emission Analysis on CI Engine by using Biodiesel Blends with TiO <sub>2</sub> Catalytic Converter             | GOJAN School of Business and Technology      |

# WORKSHOP

| S.No | Name of the Staff         | Type     | Title                                     | Venue        |
|------|---------------------------|----------|---|--------------|
| 1    | Dr. M. Kamatchi Hariharan | Workshop | Tools and Techniques in Academic Research | VIT, Chennai |
| 2    | Mr. N. Dinakar            | Workshop | Tools and Techniques in Academic Research | VIT, Chennai |
| 3    | Mrs. P. Arunarani         | Workshop | Tools and Techniques in Academic Research | VIT, Chennai |

# RESEARCH

| S. No | Name of the Staff         | Type                         | Title   | Venue               |
|-------|---------------------------|------------------------------|---|---------------------|
| 1     | Mr. A. Umapathy           | SRM Group Research Committee | Innovative Research Techniques for Data Analysis and Interpretation | SRM IST, VDP Campus |
| 2     | Dr. V. Kumar              | SRM Group Research Committee | Innovative Research Techniques for Data Analysis and Interpretation | SRM IST, VDP Campus |
| 3     | Dr. M. Kamatchi Hariharan | SRM Group Research Committee | Innovative Research Techniques for Data Analysis and Interpretation | SRM IST, VDP Campus |

# CONFERENCE

| S. No | Name of the Staff          | Type  | Title   | Venue   |
|-------|----------------------------|---|---|---|
| 1     | Mr. E. Sankar              | Paper Presentation, AMMA - 2023                 | Investigating the Impact of $\text{SiO}_2$ $\text{TiO}_2$ - $\text{Al}_2\text{O}_3$ Nanoparticle Additions on the Lubricating Performance of SN500 Base Oil using Fuzzy Logic | Amrita School of Engineering, Chennai                   |
| 2     | Dr. M. Kamatchi Hariharan  | Paper Presentation, ICATCHCOME - 2023           | Influence of Ytria Stabilized Zirconia Coating on Inconel 625 & Hastelloy X with Sodium Sulphate Molten Salt  | KPR Institute of Engineering and Technology, Coimbatore |
| 3     | Dr. P. Haja Syeddu Masooth | Paper Presentation, ICAAMME - 2023              | Effect of Graphite (C) and Zirconia ( $\text{ZrO}_2$ ) on Tribological Properties of AA6061 Hybrid Composite  | Easwari Engineering College, Chennai                    |
| 4     | Mr. R. Gowri Manohar       | Paper Presentation, ICARAMM - 2023 Virtual Mode | Performance Evaluation of Diamond Coated Cutting tool on Aluminium Alloy AA2024   | SSN College of Engineering                              |
| 5     | Dr. R. Rajaraman           | Paper Presentation, TAMMIE - 2023               | Participation   | KPR Institute of Engineering and Technology, Coimbatore |
| 6     | Dr. S. Karthikeyan         | Paper Presentation, TAMMIE - 2023               | Participation   | KPR Institute of Engineering and Technology, Coimbatore |



# PUBLICATIONS

1. **S. Karthikeyan, N. Dinakar, T. Arunkumar, S. Parathasarathi, A. B. Prabhu, and I. Manivasagam**, "Corrosion resistance improvement by aluminizing and heat resistance coating on mild steel as an alternate material to automotive exhaust components", AIP Conference Proceedings, AUG 2022
2. **A. Arunnath**, Experimental Investigation and Optimization of Material Removal Rate and Tool Wear in the Machining of Aluminum-Boron Carbide (Al-B<sub>4</sub>C) Nanocomposite Using EDM Process, Advances in Materials Science and Engineering, August 2022
3. **Dr. S. Karthikeyan**, Algae biofuel: A futuristic, sustainable, renewable and green fuel for I.C. engines Materials Today Proceedings, April 2023
4. **Kamatchi Hariharan M** Study on mechanical properties of Inconel 625 and Incoloy 800H with nitrate based molten salts Journal of Materials Protection - Zastita Materijala, DEC 2022
5. **P Haja Syeddu Masooth**, Investigations on mechanical and wear behaviour of graphene and zirconia reinforced AA6061 hybrid nanocomposites using ANN and Sugeno-type fuzzy inference systems Materials Research Express November 2022
6. **Ravi kumar K** Hot Corrosion Behaviour of Incoloy 800H Superalloy with Various Molten Salts Environment, Lecture notes in Mechanical Engineering : Book Series, Dec-22
7. **Sankar E**, The effect of SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanoparticle additives on lubrication performance: Evaluation of wear and coefficient of friction, Materials today:Proceedings 24 September 2022
8. **Suresh Kannan I**, Review of bioresorbable AZ91, AZ31 and Mg-Zn-Ca implants and their manufacturing methods, Materials Science and Technology, December 2022
9. **Suresh Kannan I**, Study on mechanical properties of Inconel 625 and Incoloy 800H with nitrate based molten salts, Material protection, December 2022

# "DOCTORAL TRIUMPHS"



**Dr. P. Haja Syeddu Masooth**  
**Assistant Professor**



**Dr. M. Kamatchi Hariharan**  
**Assistant Professor**

In a triumphant celebration of academic excellence, two distinguished faculty members have accomplished significant milestones in their scholarly pursuits. **Dr. P. Haja Syeddu Masooth** attained his Ph.D. from Saveetha Institute of Medical and Technical Sciences, Chennai, in February 2023, showcasing relentless dedication and intellectual prowess. Equally commendable, **Dr. M. Kamatchi Hariharan** completed his Ph.D. at Sathyabama Institute of Science and Technology, Chennai, in June 2023, leaving an indelible mark on the academic realm with his remarkable achievement. Their unwavering commitment to knowledge and research sets a shining example for aspiring scholars, and their invaluable contributions to their respective fields shall undoubtedly inspire generations to come.



# PLACEMENTS

| S.no | Name of Student          | Placed in Company             | CTC in Lakhs |
|------|--------------------------|-------------------------------|--------------|
| 1    | GANESH KUMAR S           | Amazon                        | 29.00        |
| 2    | NITESH R C               | ZS Associates India Pvt. Ltd. | 14.00        |
| 3    | R SUCHEET                | Nestle                        | 11.00        |
| 4    | VAISHAKH SUNIL           | JSW                           | 8.50         |
| 5    | T M SARVESHWAR           | Havells India ltd             | 8.50         |
| 6    | SANJAYKUMAR M R          | Reliance Industries Limited   | 8.00         |
| 7    | MADHAV BALAJI            | Reliance Industries Limited   | 8.00         |
| 8    | KARTHIK MANOHARAN        | SHELL                         | 7.20         |
| 9    | ADNAN AHMED SIRAJ        | IFB Industries                | 6.00         |
| 10   | J FREDERICK PAUL         | Larsen & Toubro Ltd.          | 6.00         |
| 11   | HARIPRASATH S S          | IP Rings                      | 5.00         |
| 12   | AADHITHYA T R            | Mu Sigma                      | 5.00         |
| 13   | SRINIVASAN L             | Tata Consultancy Services     | 4.50         |
| 14   | S JISHNU                 | Nilkamal Ltd.                 | 4.50         |
| 15   | KALAIARASAN<br>SARAVANAN | Minda Corporation Ltd         | 4.50         |
| 16   | SREEPADH S               | Royal Enfield                 | 4.48         |
| 17   | SUBRAMANIYAN J K         | Lucas TVS Limited             | 4.37         |
| 18   | SYED AHMED A             | Cognizant                     | 4.00         |

# INTERNSHIPS

| Sl.No | Register No.    | Student Name                  | Name of The Organization  |
|-------|-----------------|-------------------------------|---|
| 1     | RA2011002040005 | Jola J                        | North Chennai Thermal power plant                                 |
| 2     | RA2011002040006 | Ashwin B                      | Ashok leyland   |
| 3     | RA2011002040007 | Siddharth.R                   | Brakes India Private Limited, North chennai thermal power station |
| 4     | RA2011002040008 | Preethan A                    | Accurate steel forging india limited                              |
| 5     | RA2011002040009 | Bharath                       | Thermal power Station   |
| 6     | RA2011002040012 | Dev Brala                     | Madras fertilisers Ltd  |
| 7     | RA2111002040003 | Krishna Rao MVB               | Bharath Electronics Limited                                       |
| 8     | RA2111054040004 | Hemanth T                     | Bharath Electronics Limited                                       |
| 9     | RA2111054040007 | Balakumaran M                 | Renault Nissan  |
| 10    | RA2111054040008 | Giriprasad R                  | Hyundai   |
| 11    | RA2111054040011 | Shanmugam G                   | Thermal Power Station, Ennore                                     |
| 12    | RA2111054040012 | Faraazcassim N                | NSIC - National Small industries Corporation                      |
| 13    | RA2111054040014 | Tirumalareddy Krishna Sadhwik | Bharath Electronics Limited                                       |
| 14    | RA2111054040017 | Parameswarn K                 | Schwing stetter   |
| 15    | RA2111054040017 | Parameswaran K                | North Chennai Thermal Power Station stage-2                       |
| 17    | RA2111054040019 | Pavithran M                   | Schwing stetter   |
| 18    | RA2111054040024 | Karanam charan sai            | North chennai thermal power station stage 2                       |
| 19    | RA2111054040024 | Karanam Charasai              | Bharath Electronics Limited                                       |

# **EDITORIAL TEAM**

## **STUDENTS MEMBERS**



**KOTLA MUSTAQ AHMED**  
**IV - Year, Mechanical W/S AIML**



**SREE KUMAR**  
**IV - Year, Mechanical W/S AIML**



**VS THANUSHRI**  
**II- Year, Mechanical W/S AIML**



**DV MIRNALINI**  
**II-Year, Mechanical W/S AIML**



# **EDITORIAL TEAM**

## **FACULTY MEMBERS**



**Dr. M. Kamatchi Hariharan**  
**Assistant Professor**



**Dr. P. Haja Syeddu Masooth**  
**Assistant Professor**