



Sri Venkateswara  
College of  
Engineering

Department of Mechanical Engineering

Issue 10  
**AUGUST 2023**

# IGNITION

Newsletter

Inside this Issue

FACULTY EXCELLENCIES | STUDENTS ACCOLADES  
INDUSTRIAL VISIT

## About the Department

The department of Mechanical Engineering started its successful journey in 1985 and has been accredited by the NBA since 1998. It is recognized as a research center approved by Anna University, as well. The UG/PG courses offered by the department cover the thrust areas such as Thermal, Design, Manufacturing and Industrial Engineering and is supplemented by well – equipped laboratories, reputed research supervisors and dedicated faculty members. The department has the privilege of housing research cells – namely the Fibre Reinforced Composite (FRP) Cell, Engine Testing and Bio – Fuel Research cell, Tribology research cell, Welding research cell which are used extensively for research and consultancy projects. The department has completed sponsored research projects for a worth of more than 1.5 crore and consultancy projects for more than 75 lakhs. The department has established a center of excellence in Additive Manufacturing and Computer Integrated Manufacturing, which houses the facilities such as Digital Manufacturing, Robotics and HMI based Automation and 3D printers. The department has published more than 150 papers in peer reviewed journals during the last 4 years.

The following programs are offered by the department

1. B.E. Mechanical Engineering
2. B.E. Mechanical and Automation Engineering
3. M.E. Industrial Automation and Robotics

## Vision

To be a leader in Higher Technical Education and Research by providing the state of the art facilities to transform the learners into global contributors and achievers.

## Mission

1. To be renowned for offering Programs in the field of Mechanical Engineering that imparts competent technical knowledge along with skill, research & innovation, leadership and life skills needed for the students to contribute and achieve at global level.
2. To provide quality education encompassing recent technological developments by continuously upgrading the academic infrastructure thereby enhancing the technical knowledge of students, teachers and supporting staff which facilitates technical assistance to industrial and societal needs.
3. To offer need based training to the students in tools relevant to mechanical engineering.
4. To continuously upgrade the research facility and provide a conducive environment leading to continuous learning, development and transfer of knowledge.
5. To inculcate in students minds about Professional ethics, Human Values and Environmental issues in Engineering.

# FACULTY EXCELLENCIES

"A Glimpse of Remarkable Achievements"

Acknowledging faculty accomplishments, where passion, knowledge, and commitment converge for exceptional educational journeys.

Dr. A. Saravanan, Mr. J. Baskaran, Mr. V. Seenu, Mr. E. Raman, Mr. A. Baskaran, Mr. K. Dhinesh Kumar, and Ms. K. Balurani collectively attended the "Designing IoT Applications" workshop by IoBit Solutions India Pvt Ltd. held in our College Mechanical CAD LAB from August 2nd to 3rd, 2023.



Mr. A. Ranjith Raj participated in a 5-day Faculty Development Program (FDP) on Python Programming organized by ICT Academy. The program took place from August 1st to 5th, 2023, at Rajalakshmi Engineering College, Thandalam.

# FACULTY EXCELLENCIES

*"A Glimpse of Remarkable Achievements"*

- **Dr. S. Saravanan** participated in the "**Energy Literacy Training**" program hosted by **Energy Swaraj Foundation** on **August 29, 2023**

**Dr. S. Natarajan** acted as the Single Point of Contact (SPoC) for **KAVACH-2023 - Cyber Security Hackathon**, organized by **AICTE**, Ministry of Education, held online from **August 8th to 9th, 2023**.



In an immersive workshop on **Design Thinking, Critical Thinking, and Innovative Design**, **Dr. R. Ramesh, Dr. C. Senthamaikannan, Mr. Ranjith Raj. A,** and **Mr. Sivaramapandiyam. J** delved into enriching insights. Led by **Dr. Chockalingam Aravind Vaithilingam**, Director of Clean Technology Impact Lab, Taylor's University, Malaysia, the session unfolded on **August 25, 2023**, at the IT Seminar Hall.



Prof **Dr. Chockalingam Aravind**  
Director, Clean Technology Impact Lab,  
Taylor's University, Malaysia

# FACULTY EXCELLENCIES

*"A Glimpse of Remarkable Achievements"*



On **August 31, 2023**, **Mr. Senthivelan** actively participated in the **'Advanced Level' Innovation Ambassador (IA)** training, consisting of **30 contact hours**. This training, conducted online by MoE's Innovation Cell & AICTE, further enriched his innovative capabilities and commitment to fostering innovation.

Institution's Innovation Council (IIC - SVCE SRIPERUMBUDUR) organized an insightful lecture on **"LEAN START-UP & MINIMUM VIABLE PRODUCT/BUSINESS"** on August 4, 2023. **Mr. K. Ramprasad** and **Mr. M. Nishal**, Assistant Professors, shared their expertise during two sessions, from 10:00 am to 12:00 pm and 1:30 pm to 3:30 pm, at the Library Seminar Hall, SVCE.



# FACULTY EXCELLENCIES

"A Glimpse of Remarkable Achievements"

The Institution Innovation Council organized a guest lecture on **August 26, 2023**, through online mode. **Dr. M. Gajendiran** delivered an enlightening lecture on "**Environmental Pollution and its Control.**" The Students from various department participated and learned about the pollutant sources and the various methods to control the pollution.



The poster is for a guest lecture organized by the Institution Innovation Council (IIC) of SVCE Sriperumbudur. It features the SVCE logo and the IIC logo. The text on the poster includes: "As Continuation of the Celebration of World Environment Day (5th June 2023)", "Institution Innovation Council (IIC - SVCE SRIPERUMBUDUR) (IC201810371)", " cordially invites You All For a Webinar ", " "Environmental Pollution and it's control" (Quarter IV IC - Webinar Activity)", " RESOURCE PERSON ", a photo of Dr. M. Gajendiran, " Dr. M. Gajendiran Assistant Professor/IIC SVCE Member Department of Mechanical Engineering", " DATE: 26th August, 2023 TIME: 01:30 pm VENUE: Online Mode GMeet Link: <https://meet.google.com/juy-zsb-tyv>", and the names and titles of the organizers: " Dr. S. Natarajan, Convener, IIC - SVCE Sriperumbudur", " Dr. KR. Santha, President, IIC - SVCE Sriperumbudur", and " Dr. S. Ganesh Valdyanathan, Principal, SVCE".



On **August 31, 2023**, **Dr. Muniraj** took on the role of a judge, evaluating projects and ideas for **Yukthi Innovation 2023**, contributing to the promotion of innovation and creativity.

# STUDENTS ACCOLADES

*"Diverse Talents, One Campus Spirit"*

In the journey of education, students achievements illuminate the path to excellence. We proudly acknowledge their recent accomplishments.

- Students of Final Year Mechanical engineering gained valuable insights and benefits at **G-Cell Facility: M Tushit Dev, Sanjay Kumar S, Raviram R, Aditya Rajarathnam, and Charan. P**, all from the **final year**, made the most of their visit on **August 9, 2023**.

On **August 11, 2023**, at 10:28 AM, students collectively took the pledge against drugs, known as **"DRIVE AGAINST DRUGS (DAD)"**, in their respective classrooms, reaffirming their commitment to a drug-free future. Totally **300+** students took part in the pledge.



**Raviram R** (2127201001057), actively participated in **"Forge - Inspiring and Empowering Future Professionals"** on **August 4, 2023**. He also completed practical tasks in the **"Explore Supply Chain Virtual Experience Program"** focusing on determining critical requirements for a turbofan disassembly fixture and disposition of non-conforming turbine blades.



# STUDENTS ACCOLADES

*"Diverse Talents, One Campus Spirit"*

Congratulations to our Mechanical Engineering students for winning the '**Second runner-up**' in the **Fusion 360 Design challenge** by **Anna University**, in association with **Tamil Nadu Skill Development Corporation (TNSDC)**, powered by **Autodesk**. The projects, "**Plant Translocator**" and "**3D Printable NFT Aeroponics**," were selected among the 'Top 20 projects of the state' and showcased at the 'Naan Mudhalvan' TN Project Expo on **07.08.23**, where they received recognition from **Honorable Chief Minister Thiru M.K.Stalin**.



Mr. Subash Chandra Bose (III-year Mechanical) presenting his project "3D printable NFT Aeroponics" to Honorable Chief Minister Thiru M. K. Stalin

**Project: 3D Printable NFT Aeroponics**

**Mentors:** Mr. M. Maheswaran

**Student members:** III yr/MEC

1. Subash Chandra Bose  
Anuradha
2. Ramvel Radhakrishnan



Mr. C.N. Varadharajan (IV year - Mechanical) presented his "Plant Translocator" project to Honorable Chief Minister Thiru. M. K. Stalin

**Project: Plant Translocator**

**Mentors:** Mr. M. Nishal, & Mr. K. Ram Prasad.

**Student members:** IV yr/MEC

1. Varadharajan C N
2. Monish V
3. Sai Surya S



# STUDENTS ACCOLADES

*“Diverse Talents, One Campus Spirit”*

On **August 31, 2023**, **Ms. Pooja**, a talented 3rd-year Mechanical Engineering student, showcased her innovative idea on **Smart Watch for medical diagnostics** at the **Yukthi Innovation 2023** Program, demonstrating her commitment to creativity and problem-solving.



# INDUSTRIAL VISIT

*“Factory Chronicles: Where Learning Takes Shape”*



Industrial visits bridge the gap between classroom learning and practical application, immersing participants in the dynamic environment of real-world operations

On **August 31, 2023**, **Dr. P. Raghu** and **Dr. S. Saravanan** accompanied **45 students** from the **II Year Mechanical Engineering** on an industrial visit to **Scorpio Sealings Pvt Ltd.** in Sriperumbudur. The visit provided hands-on exposure to ring roll manufacturing, CNC lathe operations, and quality control processes, enhancing students' practical knowledge of industrial operations.



# INDUSTRIAL VISIT

*“Factory Chronicles: Where Learning Takes Shape”*



A group of **32 students** from **III year** Mechanical Engineering, accompanied by **Mr. Kirubakaran G** and **Mr. S. Arumugam**, visited **Delphi TVS in Oragadam**, Chennai. Students gained insights into CNC machines, material selection, process planning, and quality checks, enhancing their practical knowledge of industrial operations.



# EDITORIAL TEAM



**Dr. S. RAMESH BABU**  
Professor & Head  
*Mechanical Engineering*



**Dr. S. MUNIRAJ**  
Assistant Professor  
*Mechanical Engineering*



**Mr. A. Ranjith Raj**  
Assistant Professor  
*Mechanical Engineering*

# STUDENT EDITORIAL TEAM



**Mr. Lohesh M V**  
IV Year  
*Mechanical Engineering*



**Mr. Raviram R**  
IV Year  
*Mechanical Engineering*



**Mr. Kiran Kumar D P**  
III Year  
*Mechanical Engineering*



**Mr. Mithun Aravind O**  
III Year  
*Mechanical Engineering*



**Mr. G Bharath Kumar**  
II Year  
*Mechanical Engineering*



**Mr. Bharath Vigneshwar R**  
II Year - Mechanical and  
*Automation Engineering*



**Mr. M Sanjay**  
I Year  
*Mechanical Engineering*



**Mr. Lithesh C**  
I Year - Mechanical and  
*Automation Engineering*