

GLANCE

Yearly Newsletter

Published by

Department of Mechanical Engineering

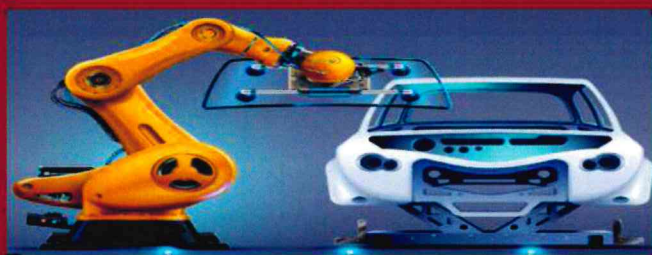
V V COLLEGE OF ENGINEERING



Volume : 3

Issue: 2

June 2023



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Professor and Head

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VISION:

Create highly skilled, competent and excellent Mechanical Engineers with human values, ethics, passion, competence and profound involvement to serve for the betterment of the society.

MISSION:

- Provide quality education in Mechanical Engineering by creating a platform to enable technical, communication, design and problem solving skills.
- Provide resources, environment and continuing learning processes for better exposure in contemporary technologies in Mechanical Engineering.
- Promote research based projects in the cutting edge domains of Mechanical and allied Engineering, for betterment of society.



V V COLLEGE OF ENGINEERING
TISAIYANVILAI-628656
Mechanical Engineering Department Newsletter

Volume:3,

Issue:2,

June 2023.

VISION OF THE INSTITUTION

Emerge as a premier technical institution of global standards, producing enterprising, knowledgeable engineers and entrepreneurs.

MISSION OF THE INSTITUTION

- ❖ Impart quality and contemporary technical education for rural students.
- ❖ Have the state-of-the-art infrastructure and equipment for quality learning.
- ❖ Enable knowledge of ethics, values and social responsibilities.
- ❖ Inculcate innovation and creativity among students for contribution to society.

VISION OF THE DEPARTMENT

Create highly skilled, competent and excellent Mechanical Engineers with human values, ethics, passion, competence and profound involvement to serve for the betterment of society.

MISSION OF THE DEPARTMENT

- ❖ Provide quality education in Mechanical Engineering by creating a platform to enable technical, communication, design and problem solving skills.
- ❖ Provide resources, an environment and continuing learning processes for better exposure to contemporary technologies in Mechanical Engineering.
- ❖ Promote research based projects in the cutting edge domains of Mechanical and allied Engineering, for the betterment of society

CHAIRMAN'S MESSAGE



As we embark on another exciting academic year, I am filled with immense pride and enthusiasm for the progress and achievements of our department. Our commitment to excellence in education, research, and community engagement continues to shape the future of engineering, fostering innovation and inspiring the next generation of leaders.

I am particularly proud of our students who have demonstrated resilience and adaptability in the face of unprecedented challenges. Your creativity and determination have led to outstanding academic performances, successful internships, and impactful community service projects. These experiences not only enhance your professional skills but also embody the spirit of engineering—solving complex problems for the betterment of society.

Our faculty members continue to be at the forefront of innovation, integrating cutting-edge research into their teaching and mentoring students to reach their full potential. Their unwavering commitment to excellence ensures that our curriculum remains relevant and rigorous, preparing our graduates for successful careers in a rapidly evolving industry.

Looking ahead, we have several exciting initiatives planned. We are expanding our laboratory facilities, introducing new courses that reflect the latest advancements in engineering, and strengthening our partnerships with industry to provide more hands-on learning opportunities for our students. These efforts are aimed at ensuring that our department remains a leader in engineering education and research.

I would like to extend my heartfelt gratitude to all of you—students, faculty, staff, alumni, and industry partners—for your continued support and dedication. Together, we are building a vibrant, dynamic community that thrives on collaboration, innovation, and a shared commitment to excellence.

PRINCIPAL'S MESSAGE

“Scientists study the world as it is; engineers create the world that has never been.”

is the famous quote from the Mathematician, Aerospace engineer and physicist Theodore von Karman...

As we come together through this latest edition of our newsletter, I am filled with pride and gratitude for the remarkable achievements and the unwavering spirit of our community. Each page of this newsletter is a testament to the hard work, dedication, and creativity of our students and staff.

This term has seen incredible academic accomplishments, innovative projects, and successful events that have brought us closer as a community. Notably, our recent placement drive conducted by the Mechanical Engineering has resulted in many of our students securing positions in prestigious organizations, a reflection of both their talent and the strong support from our faculty.

HOD'S MESSAGE



It is with great pleasure that I present to you this edition of our department's newsletter. This publication serves not only as a reflection of our collective efforts and achievements but also as a source of inspiration for the future.

This term has been particularly eventful, with numerous academic and extracurricular activities showcasing the talent and dedication of our students and faculty. Our recent placement drive stands out as a highlight, with many of our students securing positions in leading companies. This success is a testament to the hard work of our students and the unwavering support from our faculty and industry partners.

In these pages, you will find stories of innovation, collaboration, and excellence. From groundbreaking research projects to community outreach initiatives, our department continues to push the boundaries of what is possible. I am immensely proud of what we have achieved together and excited about the opportunities that lie ahead.

As you read through this newsletter, I hope you will feel as inspired as I do by the incredible work being done in our department. Let us continue to strive for excellence, support one another, and build a brighter future together.

Dr.P.Padmanabhan

Professor & Head / Mechanical

ABOUT THE DEPARTMENT

The Mechanical Engineering Department was established in the year 2010. The department has a team of highly qualified, dedicated and motivated members of faculty and well equipped laboratories to conduct Under Graduate and Post Graduate Programmes. The department aims at generating employable mechanical engineers to lead a successful career and contribute to the society by excelling in their respective fields of endeavour. The field of Mechanical Engineering encompasses many exciting subjects such as Thermal Engineering, Manufacturing Engineering, Engineering Design, Automobile Engineering, Computer Aided Design, Computer Aided Manufacturing, Power Plant Engineering, Refrigeration and Air conditioning, Mechatronics, Automation and Robotics. The department offers the following courses:

B.E.(Full time) Mechanical Engineering with an intake of 60 students

M.E.(Full time) CAD/CAM with an intake of 12 students.

Recognized as Research centre by Anna University for pursuing Ph.D and M.S degree in Mechanical Engineering.

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Monish kumar.K – II Mech

STUDENTS ACHIEVEMENTS

STUDENT'S UNIVERSITY EXAMINATION PERFORMANCES

DEPARTMENT TOPPER (2019-23) BATCH



GOWSHIKA.S.S (953419114013)

EVEN SEMESTER TOPPERS : 2022-23(Apr-May 2023)

Semester	I Rank	II Rank	III Rank
IV	 S.SRI RAM(8.30)	 N.GOPALAKRISHNAN(8.21)	 MONISH KUMAR.K(8.19)
VI	 M.SUJIN(8.11)	 M.ANTONY VALAN(8.02)	 A.ANGELIN MARIA RAJA SELVI(7.78)
VIII A	 S.GOWSHIKA(9.62)	 K.SIVARAJA(9.44)	 P.ROBINS RABITH(9.44)

FACULTY ACTIVITIES

RESEARCH PUBLICATIONS

1. **Padmanabhan.P**, Jayseelan. C, Athijayamani.A, Ramanathan.K, Analysis of Water absorption behaviour and their effects on the mechanical properties of banana fibre macro particle reinforced epoxy Composites, Science and Technology Journal, Vol II (1), PP63-69, 2023
2. **Nishath PM**, Krishnaveni A. Emission analysis and optimization of antioxidant influence on biofuel stability. Environmental Science and Pollution Research. 2023 Jan;30(3):7138-7161.
3. Dinaharan I, **Albert T**. Effect of reinforcement type on microstructural evolution and wear performance of copper matrix composites via powder metallurgy. Materials Today Communications. 2023 Mar 1;34:105250
4. Jayseelan. C, **Padmanabhan.P**, Athijayamani.A, Ramanathan.K. Comparative investigation on Mechanical Properties of Unnayankoti (*Argyrea Elliptica*) and Valampuri (*Helicteres isora*) Fiber reinforced Epoxy Matrix Composites, Journal Basic Science, 23(5), PP1288- 1297, 2023.
5. Jayseelan. C, **Padmanabhan.P**, Selvaperumal.S, Athijayamani.A, Effect on Mechanical Properties of Treated Banana Macro Particle Reinforced Composites. GIS Science Journal, 10(5), PP1315-1324, 2023
6. Jayseelan. C, **Padmanabhan.P**, Athijayamani.A, Ramanathan.K, Effect on Mechanical and Thermal Properties of Teak wood and coconut shell powder reinforced hybrid composites, Journal Basic Science, 23(5), PP1092-1102, 2023.
7. **Albert T**, Sudherson DP, Kalaiselvan K, Leema N. Effect of chemical composition on the electrochemical and wear behavior of boron carbide reinforced copper composites. Bulletin of the Chemical Society of Ethiopia. 2023 May 12;37(4):959-72.
8. **Jebadurai SG**, Raj RD, Sreenivasan VS. Characterization of natural cellulosic fiber from *Coccinia grandis* root. Journal of Natural Fibers. 2022 Oct 28;19(14):9444-56.

AWARDS

- ❖ Our faculty is extremely proud of **Mr. P. Mohamed Nishath** has awarded Ph.D degree from Anna University Chennai on March 2023 with his hard work.
- ❖ **Dr.P.Padmanabhan** was recognized as “NPTEL Believers Star” by SWAYAM Portal from Jan-April 2023.

FDP/ SEMINAR/ WORKSHOP ATTENDED

1. **Mr.A.Sivasubramanian** was attended one day webinar on “**The nuances of writing a Research paper and publishing it in high reputed journals**” at J.P College of Engineering on 30.03.2023.
2. **Mr.A.Sivasubramanian** was Attended one day in IIC 5.0 Self Driven Activity Webinar on “**Advanced Robotics Technology and Robotics Startup - Story**” held on 11.05.2023 organized by Institution’s Innovation Council, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,Avadi, Chennai-62.
3. **Mr.T.Albert** was Participated in the Five Days Naan Mudhalvan Faculty Development Programme on “**Smart and advanced Manufacturing Design and Simulation**” Conducted by Naan Muthalvan, Government College of Engineering, Tirunelveli from 13/02/2023 to 17/02/2023.
4. **Mr.S.G.Shanmugasundaram** was Participated in the Five Days Naan Mudhalvan Faculty Development Programme on “**EV Design for Mechanical Engineers**” Conducted by Naan Muthalvan, St. Xaviers Catholic College of Engineering, Nagercoil from 13/02/2023 to 17/02/2023.
5. **Dr.P.Padmanabhan** was attended a one day NPTEL-Workshop on” **A Hands on Introduction to Additive Manufacturing**” by IIT Chennai on 03.02.2023.
6. **Dr.P.Padmanabhan** was attended a International Seminar on “**Intelligent Vehicular Networks and Communication**” by Sri Krishna College of Engineering and Technology, Coimbatore on 14.02.2023.
7. **Dr.P.Padmanabhan** was presented a paper Presented a paper on “**Optimization of Bendforce and Springback during Air Bending Process of Interstitial Free Steel Sheet using Taguchi Design of Experiments and Desirability Function**”,(ICPPM - 2023),SSN College of Engineering, Chennai. On 03.03.2023.

8. **Dr.P.Padmanabhan** was attended a Webinar on “**Introduction about Nano Fluids, Preparation, Characterization and Application in Engineering and Technology**” organised by Mohamed Sathak Engineering College, Ramanathapuram on 04.03.2023.
9. **Dr.P.Padmanabhan** was attended two days NPTEL- Workshop on” **Additive Manufacturing and Joining: A Paradigm Shift for the Future**” IIT, Roorkee from 11.03.2023 to 12.03.2023.
10. **Dr.P.Padmanabhan** was attended NPTEL-AICTE- FDP on” **Roadmap for Patent Creation**” by IIT Kharagpur from January 2023 to March 2023.
11. **Dr.P.Padmanabhan** was attended NPTEL-AICTE-FDP on “**Theory and Practice of Non-destructive Testing**” by IIT Madras from January 2023 to March 2023.
12. **Dr.P.Padmanabhan** was Presented a paper on “**Modelling and Analysis of Barrelling Diameter on Cold Forging Process of Aluminum Billets using Response Surface Methodology**”,(AMMA-2023),Amrita School of Engineering, Chennai on 08.04.2023.
13. **Dr.P.Padmanabhan** was attended NPTEL-AICTE- FDP on” **Smart Materials and Intelligent System Design**” by IIT Kanpur from January 2023 to April 2023.
14. **Dr.P.Padmanabhan** was attended NPTEL-AICTE-FDP on “**Advanced Robotics**” by IIT Kanpur from January 2023 to April 2023.

DEPARTMENT ACTIVITIES

INDUSTRIAL VISIT

The department organized the industrial visit to Maris Associates Pvt. Ltd on 27.04.2023 for our II Mechanical Engineering students in order to acquired knowledge about plastic bags used for packing food grains pulses, sugar Etc.



PLACEMENT

We are proud to share that several of our Mechanical Engineering students have been successfully placed in companies through our recent placement drive. Their commitment to excellence and the rigorous training provided by our department have led them to these well-deserved opportunities



