



## DEPARTMENT OF MECHANICAL ENGINEERING

## NEWSLETTER 2023-24

### PRESIDENT MESSAGE

In the recent years, digitalization and internet of things (IoT) are making our lives easier and smoother. Preparing the students to be proficient in Mechanical Engineering with these human-machine collaboration competencies and skills is challenging for the department. The Department of Mechanical Engineering has organized a few webinars, expert lectures, Industrial visits and workshops, I hope these efforts will definitely enrich our environment with academic rigor required for the 21st century.

### FROM PRINCIPAL DESK

I have immense pleasure in releasing the Ninth Edition of "MechNEWS" newsletter of Department of Mechanical Engineering. I appreciate the department for periodically updating and publishing the activities and achievements of both faculty and students in the newsletter. It's a great compilation showcasing all the happenings of the last academic year. The Department is committed to attaining academic excellence in the fields of Mechanical Engineering, leading to develop students through academia and industry connections. I congratulate our editorial team members who have put their best efforts in bringing this issue of newsletter.

### ABOUT THE DEPARTMENT

Mechanical Engineering is one of the core engineering disciplines that provides quality education on various applications, enabling students to understand and address several industrial aspects. Since many components across different fields require manufacturing, mechanical engineering plays a vital role in any era. The highlight of our department at Dr. TTIT includes excellent placement opportunities, experienced faculty, an effective teaching-learning environment, and well-equipped laboratory facilities. Students are encouraged to work in teams for project work, which involves material selection, design, fabrication, and development. They are also encouraged to explore and develop their own start-ups, potentially creating internship and job opportunities for themselves and others. The department motivates both students and faculty to participate in various programs (software training, hands-on workshops, technical events, seminars, and industrial visits) that help develop analytical and practical skills, which can be applied to real-world problems.

### AT A GLIMPSE

**WEBINAR / FDP ATTENDED**  
**GUEST LECTURE CONDUCTED**  
**ACHIEVEMENTS**  
**PUBLICATIONS**  
**DEPARTMENT TOPPERS**  
**INDUSTRIAL VISIT**

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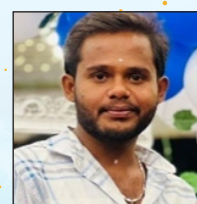
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 ASSOCIATE PROFESSOR

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**SRIKANTH K N**  
 1GV20ME011

## VISION OF THE DEPARTMENT

To transform the students into technically competent Mechanical Engineers nurturing them in learning sustainable and innovative technology with professional ethics and social concern.

## MISSION OF THE DEPARTMENT

**M1:** Striving to empower students with fundamentals in the field of Mechanical Engineering with innovative, managerial and professional skills.

**M2:** To create an environment for progressive learning through industry institute partnership.

**M3:** Imparting quality technical education stressing on new technology with professional ethics for the benefit of the society.

## PROGRAM EDUCATIONAL OBJECTIVES (PEO)

**PEO-1:** Graduates will have successful professional careers in the Industry, adapting to evolving needs with their strong foundation in science and engineering principles.

**PEO-2:** Graduates will engage in higher studies and professional development demonstrating innovation and research capabilities in solving real-world problems while being aware of the societal impact.

**PEO-3:** Graduates will exhibit leadership, professional ethics, effective communication skills, teamwork and a commitment to lifelong learning.

## PROGRAM SPECIFIC OBJECTIVES (PSO)

**PSO-1 :** Design and develop components or systems in the field of Mechanical Engineering.

**PSO-2 :** Apply modern hardware and software technologies to perform structural and thermal analysis.

## WEBINAR / FDP ATTENDED

- Students of Mechanical Engineering attended an Online Webinar on “Application of IoT in Aeronautical Industry - A smart way to Manufacturing” on 05th Sep 2023 in Mechanical Seminar Hall, Dr. TTIT - KGF
- Mr. Sagar S – Assistant Prof, has attended a Four Days FDP on Study on Nano composites at Cambridge Institute of Technology - Bangalore, 06th to 9th November 2023.
- Dr. Manjunatha Babu N S – Associate Prof, has completed a 12 modules online course on Energy Literacy Training on 21st November 2023 under Energy Swaraj Foundation.
- Dr. Manjunatha Babu N S – Associate Prof, has completed an online course on Misconception about Solar Energy on 25th November 2023 under Energy Swaraj Foundation.
- Dr. Manjunatha Babu N S - Associate Prof, has completed an online course on Learn to install your own solar system - it's easy on 30th November 2023 under Energy Swaraj Foundation.
- Dr. Sampath A - Assistant Prof, has attended a Four Days FDP on “Machine Learning Applications in Nanocomposites and nanofluids “at PESIT - Shimoga, 04th to 7th December 2023.
- Prof. Purnesh N - Assistant Prof, attended a Five-Day International Virtual FDP on “Global Conversations in Mechanical Engineering: Bridging Innovation and Sustainability” from 19th to 23rd February 2024 organized by Madanapalle Institute of Technology and Science, Madanapalle, Andhra Pradesh.
- Prof. Anitha Devi S H - Assistant Prof, attended a Three-Week Virtual Women Entrepreneurship Development Program on “Sustainable & Eco-friendly Products: Digital & E-commerce Businesses” sponsored by NSTEDB, DST, and Gol from 7th to 23rd February 2024.
- Prof. Purnesh N - Assistant Prof, attended a Five-Day Online Workshop on “Multiple Attribute Decision Making Using Analytic Hierarchy Process” from 26th February to 1st March 2024 organized by National Institute of Technology, Mizoram.
- Prof. Saravana Prasad R and Prof. Purnesh N - Assistant Prof, attended a One-Day Online Webinar on “IPR” on 15th March 2024 organized by the Intellectual Property Office India.
- Prof. Purnesh N and Prof. Saravana Prasad R - Assistant Prof, attended a Five-Day Virtual FDP on “Entrepreneurship Management Startup & Technology Readiness Level” from 12th to 16th March 2024 organized by Dr. TTIT - KGF
- Prof. Saravana Prasad & Prof. Purnesh N - Assistant Prof, participated in a Seven-Day National Level FDP on “Python” organized by the Star International Foundation for Research and Education from 19th to 25th March 2024.
- Prof. Purnesh N -Assistant Prof, attended a One-Week FDP on “Effective Teaching Pedagogy: Strategies for Engaging and Empowering Learners” from 11th to 17th March 2024 organized by the Department of Humanities and Physical Education, CT University, Ludhiana, Punjab.

- Prof. Saravana Prasad R- Assistant Prof, participated in a State Level Webinar on “Recent Trends and Techniques of Modernized Research” on 27th March 2024.
- Prof. Saravana Prasad R - Assistant Prof, participated in a National Level Webinar on “Unlocking Opportunities: Navigating the NET Exam Journey” on 1st April 2024.
- Prof. Purnesh N - Assistant Professor participated in a One-Day National Level Faculty Development Programme on “Effective Pathway to Boost the Research Profile of Early-Stage Faculty” organized by the Research and Development Cell, ACE Engineering College, Hyderabad, on 16th April 2024.
- Prof. Purnesh N - Assistant Prof, participated in a One-Day National Level Faculty Development Programme on “Research Paper Writing Using Tools” organized by the Research and Development Cell, ACE Engineering College, Hyderabad, on 10th May 2024.

#### **GUEST LECTURE CONDUCTED**

- Five-Day Hands-On Workshop on “Applications of Advanced IoT towards Unleashing Job Opportunities” was conducted Mechanical Engineering and Electrical Engineering students by Mr. Bhargav - GenEd Technologies, Bangalore from 19th to 23rd February 2024.
- Students of VIII Semester Mechanical have undergone One Month Placement & Training Programme on “HVAC Design” from 26th March to 26th April 2024 by Mr. Subash Chandra & Mr Ramesh - Gravity India, Bangalore.

#### **FACULTY / STUDENTS ACHIEVEMENTS**

- Dr. Manjunatha Babu N S - Associate Prof, has been selected as a potential peer reviewer under

the Research Information Management System (RIMS) – Oman by the University of Technology and Applied Sciences – Salalah for reviewing RG Projects approved by the Ministry of Higher Education and Research Council in the Sultanate of Oman, which initiated a block funding program to support research

- The 8th-semester students participated in Project-Expo 2024 organized by Dr. TTIT IIC on 25th May 2024. The best project award was given for the paper “Evaluation of Performance and Emission of 4 stroke diesel engine using Biodiesel produced by refined sunflower oil heated at three different hours & blended with diesel” presented by Badhrinath R, Merveen D, Praveen V and Vijay. S.

#### **PUBLICATIONS**


Dr. Manjunatha Babu N S - Associate Prof, has published a paper on Evaluation of Glare Laminates characteristics influence through low velocity impact test in 3rd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2023) organized by BITS Pilani, Dubai Campus From 20th to 24th November 2023.

#### **INDUSTRIAL VISIT**

- Students of VI Semester Mechanical Engineering visited “Deccan Hydraulics Pvt Ltd”, Bangarapet on 10th June 2024.
- Students of IV Semester Mechanical Engineering visited “Tata Technology Hub” situated at Govt ITI - KGF on 12th June 2024.
- An Industrial Visit to Deccan Hydraulics Pvt Ltd was arranged to the students of IV semester Mechanical Engineering on 22nd June 2024.



## DEPARTMENT TOPPERS

2023-2024	FIRST PLACE	SECOND PLACE	THIRD PLACE
SECOND YEAR	 <b>Rithish Kumar J</b> (1GV23ME409)	 <b>Musfira Kouser</b> (1GV22ME008)	 <b>Anusha K</b> (1GV23ME401)
THIRD YEAR	 <b>Yashwanth R</b> (1GV21ME017)	 <b>Jagadeesha N</b> (1GV22ME412)	 <b>Arvind A</b> (1GV21ME002)
FINAL YEAR	 <b>Madhan P</b> (1GV20ME006)	 <b>Prasanth J</b> (1GV21ME406)	 <b>Varun Kumar A V</b> (1GV20ME013)