



## DEPARTMENT OF MECHANICAL ENGINEERING

## NEWSLETTER 2021-22

### PRESIDENT MESSAGE

In today's technological world, every aspiring engineer comes to the college with great dreams of excelling the roles of Team Player, Team leader and eventually becoming an industrial leader. It is a proud moment that the Seventh edition of "MechNEWS" has been initiated by the Department of Mechanical Engineering, focusing the activities and achievements of students and faculties of the department. By Understanding our responsibility, let us all work together to create a new and better livable world by this good practice and implementing them in an ethical way.

### FROM PRINCIPAL DESK

It gives me immense pleasure in releasing the Seventh edition of "MechNEWS" of the Department of Mechanical Engineering, showcasing all the happenings of the last academic year. A glance at the statistics reveals that the students have done well in placement, academics, and co-curricular activities with the able mentoring of the faculty members. Sustaining the interest of the readers is very critical and I strongly believe that the Department of Mechanical Engineering is achieving this in its own imitable style. My congratulations and best wishes to the entire editorial team in bringing out this newsletter in a well-structured manner.

### ABOUT THE DEPARTMENT

Apart from the UG program, we have a PG program with an intake of 18 students in Machine Design. Recently a lab was setup for PG students to get good exposure to various software's related to specialization and to carry out project work. The department has signed an MOU with CADD Centre and established an in-house training centre exclusively for our students. The department has obtained permission to continue its research centre under Visvesvaraya Technological University. Many of our faculty members are engaged in research through this research centre. We have a very cordial faculty student engagement in the department and this helps in the overall development of the student's progress. The third edition of MechNews gives us a glimpse of our activities for this academic year.

#### AT A GLIMPSE

GUEST LECTURE  
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SEMINAR / FDP ATTENDED  
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DEPARTMENT TOPPERS

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KARTHIKEYAN V  
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## 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)

**PE01:** Graduates shall have successful career in Mechanical Engineering with sound fundamental knowledge in science and engineering practice.

**PE02:** Graduates shall be professional in applying Mechanical engineering principles with a focus on innovation, research and having awareness of societal impact.

**PE03 :** Graduates shall have ability to work in a team with professional ethics, good communication skills to achieve 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.

## GUEST LECTURE

Guest Lecture was organized to student of Mechanical Engg on “Essential Design and Entrepreneurship Skills to build your Career to International Standards” by Mr. R J Vinod, Director Global Sales, Indus USA Inc on 29th Oct 2021 at Mechanical Seminar Hall, Dr. TTIT – KGF.



A technical talk on “Top 10 skills for Future and Industry 4.0” by Mr. Mohan S, CEO, Indoskill was arranged to Final year students of Mechanical Engineering on 12th Nov 2021.



Three Days Workshop was conducted on “Python Programming for Real-time Industrial Applications by Mr. Md Azar Hussain & Mr. Mohan S – Indoskill (Aqmenz Automation Pvt Ltd), Bangalore from 28th to 30th Dec 2021.

Mr. Prasanna Kumar V, Associate Director – IT of Merck has delivered an expert talk on Demand & Supply Network for 6th & 8th Semester Students in the month of April 2022.



Mr. Lakshmesh Bhat, Senior Manager of Continental Automotives Pvt Ltd has delivered an expert talk on SQM for 6th & 8th Semester Students in the month of April 2022.



Technical Dumb Charade was conducted on 28.2.22 for interested students of all disciplines of Dr. TTIT - KGF.



## INDUSTRIAL VISIT

One Day Industrial Visit to Deccan Hydraulics Pvt Ltd, Bangarapet was arranged to all students of Mechanical Engg on 11th Dec 2021.



A visit to “Apollo Tricoat Tubes Pvt Ltd – Malur” was arranged to students of 4th and 8th Semester on 21st June 2022 to get exposed to steel pipe and tube using ultra-modern manufacturing facilities.



## SEMINARS / FDP ATTENDED

- Dr. Mohan Kumar K - Associate Professor attended 5 days “Virtual FDP on Trendy Manufacturing with Generative Design using Fusion 360” Hosted by ICT Academy, from 24th to 29th Jan 2022.
- Mr. Srinivas A - Assistant Professor has attended a workshop on “Hands on training on XRD & FTR” at Jyothi Institute of Technology, Bangalore on 25.02.22.

## PUBLICATIONS










- Dr. H G Shenoy & Mr. Pruthvi H M published a research paper on “Effect of Zn, Mg and heat treatment on Al base alloy on hardness using Taguchi Technique”, in IOP Science, January 2022.

- Dr. P.D. Sudersanan published a research paper on “Influence of Heat Treatment on the Tensile and Hardness Characteristics of Friction Stir Weld Joints of Dissimilar Aluminium Alloys” in the AIP Conference Proceedings, January 2022.
- Dr. Manjunatha Babu N S & Dr. Mohan Kumar K published a research paper on “Study on Structural Stability of Intake Manifold through Finite Element Analysis”, in International Journal of Ambient Energy, Taylor & Francis, April 2022.
- Dr. Manjunatha Babu N S has published a textbook titled “MEMS Design, Fabrication and Its Application” in Scientific International Publishing House, July 2022.

## FACULTY / STUDENTS ACHIEVEMENTS

- Dr. Narsimha C - Associate Professor, has attended the National Conference on NCRTEST 2022 held at CBIT – Kolar on 23/06/2022 as a session expert.
- Mr. Ajay Kumar K - Student of 6th Semester, has cleared 4 NPTEL Courses and credited with a Star Award.
- Mr. Praveen V - Student of 4th Semester, has won First Place in Business Plan Competition organized by Institution Innovation Council, Dr TTIT.
- Mr. Roshan U - Student of 8th Semester, has qualified GATE 2022 with rank score of 9913 and got admitted to IIT Ropar, Rajasthan.
- Mr. Nitish B R, Mr. Manivasagathian and Mr. Naresh Dev, under the guidance of Mr. Sagar S - Assistant Professor has received a best project award for their final year project entitled “Vortex Bladeless Wind Mill” in the Project Expo 2022 organized by IIC – Dr TTIT.

## DEPARTMENT TOPPERS

2021-2022	FIRST PLACE	SECOND PLACE	THIRD PLACE
SECOND YEAR	 <b>Varun Kumar A V</b> 1GV20ME013	 <b>Madhan P</b> 1GV20ME006	 <b>Sathish</b> 1GV21ME409
THIRD YEAR	 <b>Ajay Kumar K</b> 1GV19ME001	 <b>Pawan Kalyan N</b> 1GV19ME021	 <b>Swetha G</b> 1GV20ME413
FINAL YEAR	 <b>Karthikeyan V</b> 1GV19ME415	 <b>Renald Vishwa</b> 1GV19ME425	 <b>Lakshmana K</b> 1GV19ME417