

## Department of Mechanical Engineering Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

# MechNEWS 2019-20

### PRESIDENT MESSAGE

It gives me immense pleasure and great deal of satisfaction that Department of Mechanical Engineering is releasing fifth edition of MechNEWS letter covering all the activities for the Academic year 2019-20. The newsletter aims to provide a platform to the students as well as faculty to share their knowledge and also to express their artistic self. I thank all the contributors for their articles and artworks for the newsletter.

### FROM PRINCIPAL DESK

Education is not to be confined within the walls of a classroom, Covid19 has proved that; and to start a new era of digital education. Our faculties and students have together proved that nothing can stop a teacher to teach and students to learn even in the pandemic like this. Always keeping the same spirit, Mechanical department has initiated printing fifth edition of its Newsletter to keep the students well aware about the various activities like webinars and competitions along with the productive and enjoyable fun activities and quizzes. I heartily congratulate the department, faculties and students for their efforts that never let us down and bringing yet another informative Newsletter.

### AT A GLIMPSE

Guest Lecture  
Workshop / FDP Attended  
E-Quiz Conducted  
Students Achievements  
Faculty Achievements  
Department Toppers

### PATRONS

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Associate Professor

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**Swetha P**  
(1GV16ME043)

## **ABOUT THE DEPARTMENT**

Department of Mechanical Engineering was started in year 1986 to impart high quality Mechanical and Technical skills to the Blooming engineers. The department offers UG program & PG program in Machine Design specialization. The department undertakes a powerful multi-step teaching and learning process that threads together the latent expertise and the talents of the students and weaves out the finest Mechanical Engineers. The strength of the department lies in its highly qualified and experienced expert teaching faculties besides its supportive, excellent non-teaching staff. The department has continues its research centre under Visvesvaraya Technological University and many of our faculty members are engaged in research through this research centre. The fifth edition of MechNews provides us with a brief look of our activities for this academic year.

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

PEO-2 Graduates shall be professional in applying Mechanical engineering principles with a focus on innovation, research and having awareness of societal impact.

PEO-3 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 Apply principles of Mathematics, Basic science and Engineering technology to solve Mechanical Engineering problems.

PSO-2 Design components or processes in the areas of Mechanical Engineering.

PSO-3 Perform thermal analysis and implement mechanical systems in domain specific industries.

## WEBINAR / FDP ATTENDED

- Anand G attended One week Webinar/FDP on "Mechanical Engineering Virtual Labs" On 06<sup>th</sup> to 13<sup>th</sup> May 2020 conducted by Virtual Labs-NITK at Nagarjuna College of Engineering and Technology, Bangalore.
- Dr. Narasimha C attended One week Webinar/FDP on "Python programming" from 11<sup>th</sup> to 16<sup>th</sup> May 2020 Conducted by Geethanjali Institute of Science and Technology.
- Manjunatha Babu N S attended One Week Webinar/FDP on "Additive Manufacturing: The Research Scopes & Future Trends" on 22<sup>nd</sup> to 28<sup>th</sup> May 2020 Conducted by Santhiram Engineering College, Nandyal.
- Anitha Devi S H attended Five days Webinar/FDP on "Emerging Engineering Materials" from 1<sup>st</sup> to 5<sup>th</sup> June 2020 Conducted by Bellary Institute of Technology and Management, Bellary.
- B N Manjunath attended a Webinar/FDP on "Recent Trends in Advanced Composites and Smart Materials and Structures" from 11<sup>th</sup> to 30<sup>th</sup> June 2020 conducted by Brindavan College of Engineering - Blore.
- Anand G & Srinivas A attended One week Webinar/FDP on "Advanced Functional Materials" from 25<sup>th</sup> to 30<sup>th</sup> June 2020 conducted by Panipat Institute Engineering and Technology.
- Thontaraj Urs T S attended Six days Webinar/FDP on "Emerging Automotive Technologies" from 25<sup>th</sup> to 30<sup>th</sup> July 2020 Conducted by Kalasalingam academy of research & education.
- Manjunatha Babu N S attended Five days Webinar/FDP on "SIMULINK an Overview" from 25<sup>th</sup> to 30<sup>th</sup> June 2020 Conducted by DataTeach Labs.
- Anand G & Srinivas A attended One week Webinar/FDP on "Digital Teaching Techniques" from 29<sup>th</sup> June to 04<sup>th</sup> July 2020 conducted by ICT Academy.
- Pruthvi H M attended One week FDP on "Advanced materials, machining and characterization" from 6<sup>th</sup> to 10<sup>th</sup> July 2020 Conducted by Sir MVIT – Bangalore.
- Anand G attended Five days Webinar/FDP on "Processing and Characterization of Metal Matrix Composites" from 15<sup>th</sup> to 19<sup>th</sup> July 2020 conducted by SJGIT, Chickballapur.
- Pruthvi H M & Dr. Narasimha C attended Five days Webinar/FDP on "Advances and research in mechanical engineering" from 20<sup>th</sup> to 24<sup>th</sup> July 2020 Conducted by KSSEM - Bangalore
- Dileep R & Thontaraj URS attended Five days Webinar/FDP on "Thermal characterization techniques and its analysis" from 22<sup>nd</sup> to 26<sup>th</sup> July 2020 conducted by Acharya Institute of Technology, Bangalore.
- Mohan Kumar K attended One week Webinar/FDP on "Recent advances & trends in mechanical engineering & material science" from 27<sup>th</sup> to 31<sup>st</sup> July 2020 Conducted by KSIT, Bangalore.

## E-QUIZ CONDUCTED

- E-Quiz on “Engineering Graphics” by Dr. P. D Sudersanan Professor., on 02<sup>nd</sup> July 2020.
- E-Quiz on “Finite Element Analysis” by Dr. P. D Sudersanan Professor and Mr. Sagar S Asst. Prof., on 12<sup>th</sup> July 2020.
- E-Quiz on “Elements of Mechanical Engineering” by Dr. P. D Sudersanan. Professor, Mr. Srinivas A. Asst. Prof., Mr. Anand G Asst. Prof. and Mr. Sagar S Asst. Prof. on 29<sup>th</sup> July 2020.

## STUDENTS ACHIEVEMENTS












Prashanth S, a Final year student, entered the India book of records as a micro artist by creating the smallest handcraft chessboard of size 2.5cm x 2.5cm with pieces of 0.5cm and the biggest one is 1cm.

## FACULTY ACHIEVEMENTS

- Dr. H. G. Shenoy, HOD published a paper on “Corrosion behavior of Al-Mg-Si alloy-based hybrid composite in different aging conditions”, in International Journal of Resent Advances in Engg and Tech. page 17-22, 2020.
- Dr. P.D Sudersanan Professor, presented a paper on “Friction stir welding of dissimilar aluminum alloys and its characterization” on 26<sup>th</sup> & 27<sup>th</sup> June 2020 at ICFE-2020.
- Mr. Mohan Kumar K. Associate Prof. published a paper on “Wetting behavior of textured silicon surfaces - an experimental study”, Materials Research Express, IOP Science, Issue 7, 054001, 2020.
- Mr. Mohan Kumar K. Associate Prof. published a paper on “Enhancement of mechanical and tribological properties of epoxy-based polymer with talc and PTFE as fillers”, IJMPERD, Transtellar Publications, Volume 10, Issue 3, 137-146, 2020.
- Mr. Manjunatha Babu N.S. Associate Prof. published paper on “Predictive analysis of drilled hole geometrical parameters through artificial neural network” in journal of green engineering, volume 10 issues 10, 10099-10113, 2020.
- Mr. Pruthvi H. M. Asst. Prof. completed 12-week NPTEL online course on “Data analytics with Python” from January to April 2020 conducted by IIT.
- Mr. Thontharaj Urs T. S, Asst. Prof. Completed a course on “Google Analytics for Beginners” Conducted by Google analytics academy, SAP EDI Training on 9<sup>th</sup> Jan 2020.

## DEPARTMENT TOPPERS

	FIRST PLACE	SECOND PLACE	THIRD PLACE
SECOND YEAR	 Karthikeyan V (1GV19ME415)	 Rama K (1GV19ME424)	 Lakshmana K (1GV19ME417)
THIRD YEAR	 Mathew Susil (1GV18ME408)	 Syed Raiyan Ahmed (1GV17ME029)	 H Pradyumna (1GV17ME013)
FINAL YEAR	 Gnanendra Reddy G (1GV17ME402)	 Pradeep S (1GV16ME024)	 Dinesh S (1GV16ME008)