



# YANTRA

## NEWSLETTER



### DEPARTMENT OF MECHANICAL ENGINEERING

2020 - 21

VOLUME IV | ISSUE II

#### Department Vision:

To strive to impart outstanding education and training aspirants into qualified mechanical engineers who are equipped to serve the globally challenging diverse needs.

#### Department Mission:

- To support students with enriching education towards achieving the desired expertise in mechanical engineering.
- To maintain state of the art laboratory facilities so as to provide collaborative environment that inspires faculty and students with opportunities to design, analyze, apply and disseminate knowledge.
- To create opportunities and guide students in attaining carrier oriented skills in the field of mechanical engineering.
- To educate students about professional and ethical responsibilities and train them to build leadership and entrepreneurship qualities for their carrier development.

#### Editor's Desk



It is a matter of great pride and privilege for us being a part of college bi-annual Newsletter “**YANTRA 2020-21 of Yenepoya Institute of Technology**” provides a platform for every student to develop-p their learning skills. The main thrust of the college has been to achieve human excellence to shape the personality of pupils through a host of extracurricular and co- curricular activities, and instilling in them the moral values.

Our budding talents have expressed their thoughts, ideas, hopes, feelings aspirants and convictions in a creative way. In fact, this is how they broaden their mental, psychological and intellectual horizons. Thus, the Newsletter reflects how the college has been able to live up to its aim, providing quality education to the students. As you scan through the pages, it will enlighten you with the important milestones that Y.I.T. had achieved this year. We heartily thank our Management for putting faith on me for this creative work, Principal Dr. R. G. D'Souza who guided us at every stage of making this Newsletter. My thanks are also to our H.O.D. and Student members for their co-operation and support and putting in their best in bringing out this issue of our department Newsletter.

Happy Reading...

#### Program Educational Objectives (P.E.O's)

The objectives of the program are

- ❖ Graduates will attain skills in Mechanical engineering in the universal disciplines of design, thermal and manufacturing engineering suitable for industry.
- ❖ Graduates will be able apply fundamental technical knowledge and skills so as to discover practical solutions to technological challenges and problems in various areas of Mechanical Engineering.
- ❖ Graduates will be trained practice Mechanical Engineering in a responsible, professional and ethical manner for the benefit of the engineering fraternity and society.

## From the H.O.D.'s Desk



**Dr. Sathisha N.**  
The H.O.D.  
Mechanical Dept.

Mechanical Engineering is a versatile and evergreen branch of engineering. Mechanical engineer can work in various fields like automotive system, airspace engineering, design engineering, dynamic system and control, power plant engineering, etc. and most importantly in software field also.

Department has well qualified and dedicated faculty with well-developed laboratories. We impart quality engineering education through sound theoretical knowledge, hands on laboratory as well as computational skill and exposure to recent technologies by visiting industries & expert talk.

We provide opportunities for students to participate in various technical and sports events /competitions. This newsletter is an attempt to highlight the achievements of the department, in spite of the space constrain we have showcased the best and look forward to have more in the future on a quarterly editions.

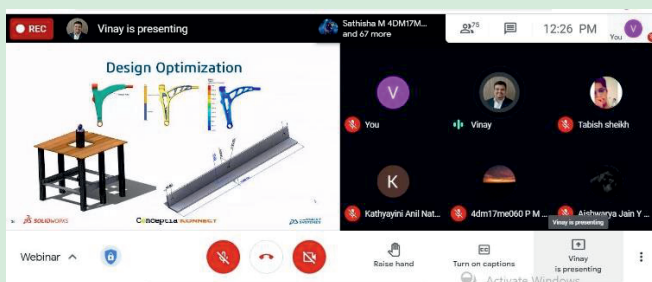
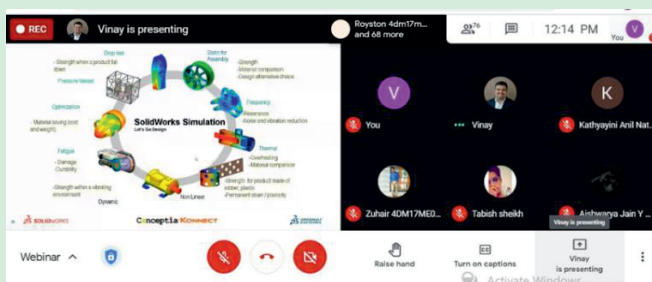
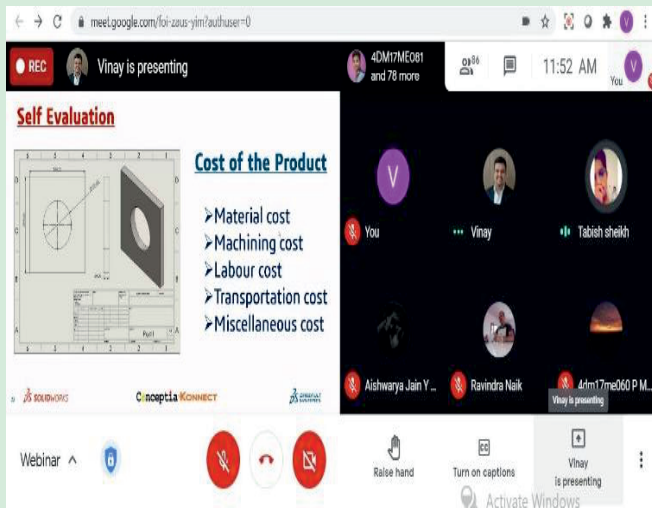
I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter.

## DEPARTMENTAL ACTIVITIES



- ❖ Yenepoya Institute of Technology, Moodbidri conducted its five days faculty development program on Modelling Optimization and Analysis of Engineering Problems using Soft Computing Techniques during 30th March 2021 to 4th April 2021. The program was inaugurated on 30th March 2021 by Dr. R. G. D'Souza, Principal, Y.I.T, Dr. Vijay G S, Associate Professor, Department of Mechanical & Mfg .Engg, MIT, Manipal was the chief guest for the inaugural function. Dr. Siddappa I B, Associate Professor Associate Professor, Department of Mechanical & Mfg .Engg, MIT, Manipal was the guest of honour for the inaugural function.

Department of Mechanical engineering in association with Conceptia Konnect organized a webinar on "What industry needs from Engineering Graduates" on 18-5-2021 from 11AM-1PM. Mr.Vinay S, Manager, Education & training (Conceptia Konnect) was the resource person. Teaching faculty and third year final year mechanical students were witnessed the occasion.



## FACULTY ACHIEVEMENTS

- ❖ **Prof. G Sujay Kumar** reviewed technical articles from International Journals like Journal of Energy Research and Reviews, Journal of Scientific Research and Reports, Advances in research, Annual research and review in biology, Chemical science international journal, Asian journal of applied chemistry research, Journal of Pharmaceutical Research International and Asian journal of agricultural extension, economics and sociology.

- ❖ Selected as a JURY MEMBER for a national level Ideathon YUVA INNOVATOR CHALLENGE 2021 organized by KITES education and YUVA INCUBATED.
- ❖ Completed an online EDx course "AI for everyone: Master the basics"
- ❖ Under the guidance of **Prof G Sujay Kumar**, a prototype "Wearable Sanitizer Dispenser" has won first prize in a National Level Hackathon "MATRIX" IPGA student forum.
- ❖ Under the guidance of **Prof G Sujay Kumar** a prototype" Automatic Sanitizing System" has been selected final round (top 5) in an International Ideathon Contest "MAGNOVITE" organized by Christ ( Deemed to be university), Bangalore
- ❖ **Prof. Vani R**, Assistant Professor, Department of Mechanical Engineering has published 2 research articles in IOP –Conference series- Materials Science and Engineering during the year 2020-21.
- ❖ **Prof. Ravindra Naik**, Assistant Professor, Department of Mechanical Engineering has published 01 research articles in IOP –Conference series- Materials Science and Engineering during the year 2020-21.
- ❖ **Prof. Prasanna S R**, Assistant Professor, Department of Mechanical Engineering has published 01 research articles in IOP –Conference series- Materials Science and Engineering during the year 2020-21.
- ❖ **Prof. Anfas Mukram T**, Assistant Professor, Department of Mechanical Engineering Chaired a session in the International Conference on Recent Innovations in Science and Technology (RIST 2020) organised by Eranad Knowledge City Technical Campus, Malappuram Dt., Kerala, India on 19-20 June 2021.

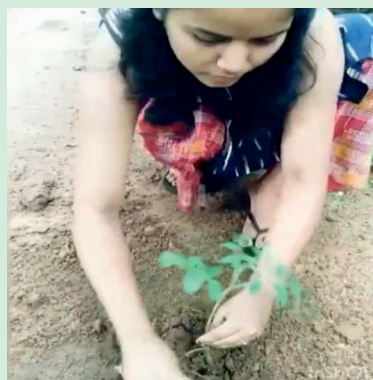
- ❖ **Prof. Ravindra Badiger** published a book named Erosion resistant clad development through microwave energy. Lambert Academic Publishing. ISBN-13: 978-620-2-67984-8, ISBN-10: 6202679840.
- ❖ **Prof. Ravindra Badiger**, Department of Mechanical Engineering has published research articles in Microstructure and Mechanical properties of TiO<sub>2</sub> Reinforced ZA22 Metal Matrix Composite, Materials Today Proceedings; 2021, 35(3), 303-307.
- ❖ **Prof. Ravindra Badiger**, Department of Mechanical Engineering has published research paper in An investigation on effects of wire-EDT machining parameters on surface roughness of Inconel-718, Materials Today Proceedings; 2021, 35(3), 474-477.
- ❖ **Prof. Ravindra Badiger**, Department of Mechanical Engineering has published research journal in An experimental investigation of microwave developed nickel based clads for slurry erosion wear performance using Taguchi approach. Metallography, Microstructure and Analysis; 2020, 9: 293-304.
- ❖ **Prof. Ravindra Badiger**, Department of Mechanical Engineering has published research article in, Effect of input power and interfacial powder size on microwave joining of different materials: A review, Materials Today Proceedings; 2020.

## STUDENTS ACHIEVEMENTS

- ❖ **Prajwal Hosalli, John Ison D-Souza** has successfully completed latex test organized at Yenepoya Institute of Technology by Keerthi Kumar H M with course material provided by The Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.
- ❖ **Yogish** has successfully completed OpenFoam test organized at Yenepoya Institute of Technology by Keerthi Kumar H M with course material provided by The Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.
- ❖ **Abhinand Anand**, Aishwarya Jain y, Alosious Antony George, Abhishek B Shetty, M R Harshith, Joel Vaz, Manjunatha Nayak, Mohammed Farzin Mirshad, Arpan Bhandari, Mr Swasthik, Mohammed Kaif, Mohammed Thayyab, Rohit Krishnan, Royston Prajwal D Souza has successfully completed Scilab test organized at Yenepoya Institute of Technology by Keerthi Kumar H M with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

## EXTRA - CURRICULAR ACTIVITIES

- ❖ Yenepoya institute of technology with observed WORLD ENVIRONMENT DAY-2021 on 5th of June, On World Environment Day, the students can participate in an awareness program by submitting a video on or before 05.06.2021 of him/her practicing an eco-friendly system in their homes like saving water, growing plants/agriculture, rain harvesting etc.



- ❖ The inaugural ceremony of Yenepoya Premier league season 3 was held on 10th April 2021. The matches were held for 3 days from 10th April 2021 to 12th April 2021, with 15 league matches between 6 teams, 2 qualifiers, 1 eliminator and 1 final match.

