



# YANTRA

Newsletter-2021-22, Vol V, Issue I

Department of Mechanical Engineering

Accredited by NBA

YENEPOYA INSTITUTE OF TECHNOLOGY

## Editor's Desk

It is a matter of great pride and privilege for us being a part of college bi-annual Newsletter “YANTRA 2021-22 of Yenepoya Institute of Technology” provides a platform for every student to develop 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 Department of Mechanical Engineering 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. Our 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.....

## 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.

## 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 HOD's Desk



Mechanical Engineering is a versatile and evergreen branch of engineering. Mechanical engineer can work in various fields like automotive system, aerospace 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.

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

## DEPARTMENTAL ACTIVITIES



The department of Mechanical Engineering Yenepoya Institute of Technology, Moodbidri in association with Invihub Technosolutions Pvt. Ltd. Bangalore and ISTE Students' Chapter, YIT(KA-109) organized a three day Workshop on "Additive Manufacturing and its applications " from 6th Jan to 8th Jan 2022 Mrs. Vani R, Assistant Professor, department of Mechanical Engineering YIT, Mr.Jagnesh G C, Assistant Professor, department of Mechanical Engineering YIT, Mr G Sujaykumar, Assistant Professor, department of Mechanical Engineering YIT, and Mr.Shashank M Gowda, director Invihub Technosolutions Pvt. Ltd. Bangalore, were the resource persons.



Department of Mechanical Engineering and Department of Electrical & Electronics Engineering of Yenepoya Institute of Technology, Moodbidri in association with Indian Society for Technical Education (ISTE) organized a technical

seminar on “Recent Trends in Electric Vehicles and Revolution” on 18th January 2022 .Mr. K. Swaroop shetty , Parivartana EV, Mangaluru was the resource person Dr.Sathisha N , HOD, department of Mechanical Engineering briefed about the technical seminar.



Department of Mechanical Engineering in association with ISTE organized a Two day Workshop on “Metal Casting, Composite Materials and Waste Energy Conversion”. The inaugural session was held on 17/2/22. Prof Vani R and Prof G Sujaykumar, Department of Mechanical Engineering YIT were the resource persons. HOD Dr. Sathisha N. inaugurated workshop. All the faculty members of the department and 3<sup>rd</sup> semester students were present.

## FACULTY ACHIEVEMENTS

The grant of Rs. 12 lakh is sanctioned to the research proposal entitled as “Joining of SS-304L and Titanium tubes through Microwave Energy for Nuclear Applications” submitted by Dr. Ravindra Badiger and Dr. Sathisha N under VTU Research Grants Scheme-2021.

Dr. Sathisha N published paper entitled “Neural Network (NN) Based RSM- PSO Multi-Response Parametric Optimization of Electro Chemical Discharge Micro-Machining Process during

Micro-Channel Cutting on Silica Glass”, January 2022 Journal of Advanced Manufacturing Systems, DOI: 10.1142/S0219686722500330

Dr. Sathisha N published paper entitled “Optimization of process parameters in Electro Chemical Discharge Machining of silica glass through Analysis of Means”, February 2021, IOP Conference Series Materials Science and Engineering 1065(1):012003

Ravindra Naik published paper entitled “Desirability Function and GA-PSO Based Optimization of Electrochemical Discharge Micro-Machining Performances During Micro-channeling on Silicon-wafer Using Mixed Electrolyte”. February 2022 Silicon, DOI: 10.1007/s12633-022-01697-5.

Prof Prasanna S R published paper entitled “An insight into the performance of radiator system using ethylene glycol-water based graphene oxide nanofluids”, Alexandria Engineering Journal, Issue7, Volume 67, Pages 5155-5167.

Dr. Sathisha N, Dr. Ravindra Badiger, Prof Anfas Mukram and Prof. Ravindra Naik attended one week short term course on Power Transmission and Motion Control: Fluid Power Circuit, Control, and Application from 14/02/2022 to 19/02/2022 organized by IIT Madras.

Prof Anfas Mukram attended five days FDP on electric vehicle: challenges in charging & their impact on power grid from 06/09/2021 to 10/09/2021 organized by College of Engineering Thalasseri.

Prof Anfas Mukram attended five days FDP on Avenues for Energy Conservation in Thermal

Power Plants from 07/02/2022 to 11/02/2022 organized by Anna University, Chennai.

- ✚ Prof Vani R attended five days FDP on Basics of Electric Vehicles from 10/09/2021 to 14/09/2021 organized by Thapar Institute of Engineering & Technology.
- ✚ Prof Vani R, Prof L S Prasad and Prof Harikanth S attended five days FDP on Applications of 3D Printing Technology in Engineering Education from 20/09/2021 to 24/09/2021 organized by Dayananda Sagar College of Engineering.
- ✚ Prof Vani R and Prof Harikanth S attended five days FDP on Design Thinking and Creativity for Educators from 27/09/2021 to 01/10/2021 organized by VELS Institute of science Technology and advanced studies.
- ✚ Prof Vani R attended five days AICTE – VTU Joint Teachers Training Programme on An Overview of Teaching Techniques in Innovation & Design Thinking from 27/12/2021 to 31/12/2021 organized by VTU Human Resource Development Centre (VTU -HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur.
- ✚ Prof Ravindra Naik attended five days FDP on “Advances in Materials & Manufacturing” from 12-07-2021 to 16-07-2021 organized by Ajaykumar Garga College of Engineering, Ghaziabad.
- ✚ Prof Raghavendra Baliga B attended five days FDP on Feature Based Product Design, Digital Manufacturing from 20-09-2021 to 24-09-2021 organized by Manipal University, Jaipur.
- ✚ Prof Raghavendra Baliga B attended five days FDP on Robotics: Exploring Technology of Tomorrow from 14-09-2021 to 18-09-2021 organized by Institute of Engineering and Technology, Devi Ahilya University.

Prof Prasanna S R, Prof Sudesha Shetty M and G Jaganesh Chengappa attended five days FDP on Electric Vehicles from 04-10-2021 to 08-10-2021 organized by Mangalore Institute of Technology and Engineering.

- ✚ Prof Prasanna S R attended five days FDP Recent Trends in Renewable energy from 20-09-2021 to 24-09-2021 organized by Rajiv Gandhi Technical University.
- Prof Prasanna S R attended five days FDP Exposure on preparation and characterization of nanofluid from 25-10-2021 to 29-10-2021 organized by National Institute of Technology, Jemshedpur.
- ✚ Prof L S Prasad attended five days FDP Industrial robots for Future Factories from 13/09/21 to 17/09/21 organized by NIT, Puducherry.
- ✚ Prof Sudesha Shetty M attended five days FDP on Finite Element Method and Analysis from 25-01-2022 to 31-01-2022 organized by BGS Institute of Technology, Mandya, Karnataka.
- ✚ Prof Sudesha Shetty M attended five days FDP on Management of Hydrocarbon Exploration and Production Waste from 07-02-2022 to 11-02-2022 organized by Dibrugarh University, Assam.
- ✚ G Jaganesh Chengappa attended five days FDP on Recent Development in renewable energy Technology for Sustainable Energy from 12/07/2021 to 16/07/2021 organized by A.J.Institute of Engineering and Technology, Mangaluru

## STUDENT'S ACHIEVEMENTS

- ✚ Mr. Chethan B (III year) participated in the VTU Weight lifting Competition organised by Jyothy Institute of Technology, Bangalore for the Academic year 2021-2022 and won bronze medal in 66 kg category.
- ✚ Mr. Abhimanyu (III year) participated in the VTU Weight lifting Competition organised by Jyothy Institute of Technology, Bangalore for the Academic year 2021-2022 and won bronze medal in 61 kg category



- ✚ Ms. Kathyayini Anil Nath Singh (Final year) participated in the VTU Zone Weight lifting Competition held on 20-12-2021 to 21-12-2021 at NMMAIT Nitte Mangalore Karnataka and won silver medal.

## Placement details

Following students of final year placed in Rinex Technologies Pvt Ltd.

1. Charan Acharya
2. Kathyayini Anil Nath Singh
3. Preethesh Adappa
4. Shubhakara Nayak

Following students of final year placed in Windcare Pvt Ltd.

1. Ashuthosh Acharya
2. Manikanta
3. Mohammed Naufal

Following students of final year placed in Healthians

1. Kathyayini Anil Nath Singh
2. Preethesh Adappa

## EXTRACURRICULAR ACTIVITIES



- ✚ Yenepoya Premier League (YPL) season 4 was held on the greens of Yenepoya Institute of Technology on 29th and 30th January 2022. The matches were held for 2 days with 12 league matches between 8 teams, 2 qualifiers, eliminator and final match.
- ✚ Man of the match was bagged by Mr Yogeesh of VII Sem ME and the trophy was awarded by Mr. Lokesh, PED of YIT.
- ✚ Man of the series Mr. Yogeesh of Yen Super kings was awarded by Principal, YIT. Orange cap (Highest Run scorer) to Mr. Yogeesh of Yen Super kings was awarded by Prof. Shrinivas and Purple cap (Highest wicket taker) to Mr. Eihab of yen Super Kings was awarded by Prof. Puneeth H S. Best batsman of YPL 2022 Mr. Sainikethan of Yen Power hitters awarded by Prof. L S Prasad. Gold and silver medals to winners and Runners were awarded by Prof. Anfas Mukram. Prof. Raghavendra Baliga, Prof. Abdul Rahiman, Prof. Venkatesh Rao and Prof. Prasanna Shankara. The winner's trophy was awarded to the winning team Yen Super kings by Principal Dr. R. G. D'Souza.