



# YANTRA

Newsletter-2021-22, Vol V, Issue II  
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 organized Two day Skill development program on "Joining Processes and Basics of Automotive " from 10th February to 11th February 2022 at Automotive learning Factory and NMAMIT-Fronius Center for welding technology.



Department of Mechanical Engineering organized Technical Talk on "Design Innovation for Successful Career in the Field of Aeronautics and Defence for Mechanical Engineers" on 29/04/22. Mr. Danish Abdul Khader Space System Engineer, SS Technologies was the resource person. All the faculty members of the mechanical department and 6th semester students were present.



Department of Mechanical Engineering in association with METALLONS organized a two day workshop on “Introduction to MATLAB and Simulink”. The inaugural session was held on 20/06/2022. Prof Vani R, Asst. Professor, Department of Mechanical Engineering and Prof Padmanabha Kamath, Asst. Professor, Department of Mathematics, YIT were the resource persons. Workshop was inaugurated by the resource persons. All the faculty members of the department and 6<sup>th</sup> semester students were present. Dinol Montero of 6<sup>th</sup> semester was the master of ceremony for the event.

“YENMANTHAN” final year project exhibition was held on 28/05/2022 .The Programme was inaugurated by Dr.Shashikanth, Senior Assistant professor, Department of mechanical engineering MITE Moodbidri & Dr.Sathisha N HOD Department of Mechanical Engineering ,YIT . Prof. Vani R welcomed the gathering and introduced the Judge. Dr.Shashikanth & Prof.Anfas Mukram evaluated the final year student projects of different streams like thermal engineering, production engineering and composites.



The 2nd International Conference on Frontiers in Engineering Science & Technology (ICFEST-2022) was organized by Yenepoya Institute of Technology on May 27th 2022. Mr. Yenepoya Abdulla Javeed, Director Operations, Yenepoya Group was the chief guest and inaugurated the Conference. Dr. Neyara Radwan, Associate Professor, Quality assurance officer, Ph.D Program KAU, Saudi Arabia was the Special Keynote Speaker for the program. Dr. Sathisha N, HOD, Department of Mechanical Engineering was the Convener. Principal Dr. R. G.D’Souza and Campus Administrator Mr. Mohammed Shahid were present for the inauguration.





## FACULTY ACHIEVEMENTS

- ✚ 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 a book chapter in Electro Machining and Microfabrication Principles and Research Advances published by Apple academic press.
- ✚ Mr. Anfas Mukram T published paper entitled “Microencapsulated PCM in the cement brick cavity: analysis of melting and solidification behaviour”, International Journal of Ambient Energy, July 2022,  
<https://doi.org/10.1080/01430750.2022.2102073>
- ✚ Sujaykumar was a resource person for a three days workshop on "Ideation, prototyping and testing" organized by Atal tinkering lab, Mindtree School, Ambala, Haryana from July 22, 2022 to July 24,2022
- ✚ G Sujaykumar has applied for a patent titled “Artificial Intelligence and Medical Device Framework for Diagnosing COVID-19”(Patent

Number: 202241009537) in February 2022.

- ✚ G Sujaykumar has applied for a patent titled "A System and method for multipurpose gloves”(Patent Number: 202241016730) in March 2022
- ✚ G Sujaykumar got seed funding of Rs.2, 00,000 from Yenepoya Incubation for a proposal on “Smart Defecation System for elderly people and patients” as a coinvestigator.
- ✚ Under the guidance of G Sujaykumar, project titled "Multipurpose gloves " got seed money funding of 1,00,000 from SAP, UNDP in collaboration with Government of Karnataka
- ✚ G Sujaykumar recognised as reviewer for two international journals. 1. Journal of Energy Research and Reviews. 2. Journal of Scientific Research and Reports
- ✚ Mr. Anfas Mukram T recognized as a Reviewer for international journals-Energy and Environment, Building and Energy
- ✚ G Jaganesh Chengappa of Yenepoya Institute of technology, Moodabidri has attended one week faculty development programme on "Current Trends in manufacturing" organized by department of Mechanical engineering & IQAC SJMIT from 13/06/2022 to 17/06/2022
- ✚ 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.

## 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