Anna University, Madras Institute of Technology campus

Department of Production Technology

Monthly report – January 2024

Research Activities

- **Dr. E. Pavithra** and **Dr. C. Arun Prakash** submitted a proposal DEVELOPMENT OF HOLLOW FIBRE MEMBRANE (HFM) BASED COOLING SYSTEM FOR HYDROGEN MOBILITY for a sum of Rs.2,47,53,336 (Rupees Two Crore Forty Seven Lakhs Fifty Three Thousand Three Hundred and Thirty Six only) to DST under Hydrogen and Fuel Cell program.
- **Dr. S. Sathish** submitted revised book chapter titled "Tribo-surface characteristics of bio implant materials" in the book "Tribo Behaviours of Biomaterials and their Applications: Fundamentals, Recent Advancements and Future Trends", Taylor and Francis.
- **Mr. A. Visagan** and **Dr. P. Ganesh** published a paper titled "A Hybrid Optimization Approach of Single Point Incremental Sheet Forming of AISI 316L Stainless Steel Using Grey Relation Analysis Coupled with Principal Component Analysis" in Journal of Wuhan University of Technology-Mater. Sci. Edition, Springer, on 17-01-2024.
- **Mr. A. Visagan** and **Dr. P. Ganesh** submitted final manuscript "Multi-Objective Optimization on Single Point Incremental Forming of Stainless Steel 316L using Grey Relational Analysis coupled with Principal Component Analysis" to Transactions of FAMENA.
- **Mr. K. Tamilarasan** under the guidance of **Dr. V. Mugendiran** completed his confirmation seminar presentation titled "Formability Analysis on AA6061 Sheet in Multi Stage Single Point Incremental Forming" on 12.01.2024.
- **Parthasarathi Roy, K. Jaithra** and **T. Mithuna** under the supervision of **Dr. E. Pavithra** submitted a paper titled "Design and Fabrication of Jal-Bot with Rocker Bogie Mechanism and Gyroscopic Principles" to National Conference on Emerging Trends in Engineering and Technology scheduled on 15.02.2024 and 16.02.2024 by NIT Puducherry.
- **R. Aasthigan, Mohamed Adnan Ahsan** and **M.S.Mohamed Mohudoom** under the supervision of **Dr. C. Arun Prakash** submitted a paper titled "Design and Trajectory Evaluation of Low Cost Quadruped Robot" to National Conference on Emerging Trends in Engineering and Technology scheduled on 15.02.2024 and 16.02.2024 by NIT Puducherry.

Academic Activities

- **Dr. E. Pavithra** and **Dr. S. Sathish** attended a two Weeks Faculty Development Program on ""Innovation & Entrepreneurship"", from 02-01-2024 to 13-01-2024 at CEG, Anna University, Chennai.
- **Dr. S. Sathish** and **Dr. V. Mugendiran** attended a Two Days Training Programme on Outcome Based Education (OBE) - Best Practices on 30-01-2024 and 31-01-2024 conducted by IQAC cell, Anna university, Chennai.
- **Mr. A. Visagan** Participated in one week Short Term Course (Hybrid Mode) on the theme "Advancements in Material Processing and Additive Manufacturing (AMPAM 2024) organized by Department of Mechanical Engineering at Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, from 08-01-2024 to 12-01-2024.
- **Mr. A. Visagan** participated in "Author workshop on Academic Publishing" jointly organised by Madras Institute of Technology, Anna University, Chennai in collaboration with "Cambridge University Press" on 30-01-2024.
- **Mr. K. Muthukumaran** attended an online Faculty Development Programme on "Intellectual Property Rights & Patent Drafting" from 04-01-2024 to 12-01-2024 conducted by AMET University, Chennai.

Departmental Activities

- MoU proposals with Precision Engineering and Technology (SPOC - **The Head, DoPT**) and with Metallic Bellows(I) Private Limited (SPOC – **Dr. E. Pavithra**) have been approved by the Syndicate.
- The Robotics Society (TRS) MIT chapter was inaugurated on 30-01-2024. The Chief Guest **Mr. J. Winston**, Scientist, Head Remote Handling and Irradiation Experiments Division, IGCAR delivered the inaugural address. The function was presided by Dr. J. Prakash, Dean MIT Campus and Registrar i/c, Anna University.
- Clarification day was conducted for the students of UG and PG programmes of the department.
- **Dr. S. Vijayakumar** and **Dr. S. Sathish** carried out the following RIPE conference works:
  "Mail communication to the authors to submit the manuscript via portal; Communication to Sadhana journal; Communication to website designer/discussion with **Dr.G.B. Bhaskar** in abstract page edition and checking, reviewer page creation, admin page creation; Communication to website designer about the errors in uploading faced by the authors; Mail communication to x.chen@ljmu.ac.uk regarding publication"
- **Mr. K. Muthukumaran** assisted **Dr.C.Nandakumar** (PG CS) for conducting PG exams Nov/Dec 2023.

- **Mr. K. Muthukumaran** assisted **Dr.N. Srirangarajalu** (Timetable Coordinator) for creating timetable slot in SEMS portal for the even semester Jan 2024- May 2024.
- **Mr. A. Visagan** accompanied students of B.E Production Engineering and B.E Mechanical Engineering to Khelo India Youth Games 2024 on 19th January 2024.
- **Mr. K. Tamilarasan** placed PO for Purchase label and Ribbon - printing Unique label for department Library for Rs. 34,414/-.
- **Dr. M. Manoj** assisted **Dr. S. Vijayakumar, Dr. V. Mugendiran** and **Dr. G. Kumaresan** in end semester Nov/Dec 2023 exam duties.
- **Mr. R. Mathiyazhagan** assisted **Dr. P. Karthikeyan** and **Dr. C. Arun Prakash** in finalizing the vendor for the purchase of equipment for electrical drives and actuators lab and started to request quote for remaining equipment for electrical drives and actuators lab.
- **Mr. R. Mathiyazhagan** received quote for servicing and calibration of CMM machine.
- **Mr. N. Arunagiri** assisted **Dr. P. Karthikeyan** in designing TRS inauguration banner.
- **Mr. N. Arunagiri** helped in adding department facility images in RIPE website and assisted **Dr. V. Mugendiran** in revising the department Information Brochure.

Other Activities

- **Dr. S. Vijayakumar, Dr. G. Kumaresan, Dr. E. Pavithra, Dr. C. Arun Prakash** and **Dr. S. Sathish** registered for examinations of 8-module MOOC course by National Institute for Technical Teachers Training (NITTT).
- **Dr. G. Kumaresan** and **Dr. M. Manoj** organized the NSS special camp at Somangalam Government School from 30-01-24 to 04-02-24.
- **Dr. E. Pavithra** and **Dr. C. Arun Prakash** received certificate of appreciation from Vice-chancellor, Anna University on 26-01-2024 for their valuable effort in facilitating Alumni registration through Alumni portal.
- **Dr. S. Sathish** attended an online DC meeting for a scholar at IFET College of Engineering on 11-01-2024.
- **Mr. N. Arunagiri** created Department Instagram account
  Link: https://www.instagram.com/hodptmit/
- **Mr. K. Muthukumaran** delivered an invited lecture through online mode on the topic "Friction and Dynamics of Particles" for Mailam Engineering College on 11-01-2024

[Events of January 2024, reported in February 2024]