

## Department of Production Technology

Monthly report – March 2024

### Research Activities

- **Dr. G.B. Bhaskar, Mr. K.V. Amuthan, Mr. R. Arun Kumar, Ms. S. Nimishaa and Mr. V.N. Sham Prasath (Alumni (2019-2023) of B.E Production Engineering)** were granted a patent titled "Ceiling Fan Cleaner with Dust Collector" on 07.03.2024.
- **Dr. C. Nandakumar** conducted research forum sessions.
- **Dr. E. Pavithra** attended a meeting at Metallic Bellows (I) Pvt. Ltd. on 12.03.2024 regarding industrial consultancy. She performed testing of pressure gauge and submitted a report to the industry.
- **Dr. M.Manoj** is selected as a Review Member for the 13<sup>th</sup> Global Conference on Materials Science and Engineering (CMSE 2024) organised by the Faculty of Engineering and Green Technology (FEGT), Universiti Tunku Abdul Rahman, from 17.11.2024 to 20.11.2024 at Kampar, Perak, Malaysia.
- The project submitted by **Ravivarma R, Aravind MB and Veera Lingesh Kumar P** (8/8 B.E. Production Engineering) under the guidance of **Mr. N. Arunagiri** has been selected for Round 2 of Naan Mudhalvan Niral Thiruvizha.

### Academic Activities

- **Dr. M.Manoj** arranged a guest lecture for the course "HU5272 Ethics and Holistic Life" for the students of 4/8 Production Engineering on 09.03.2024. **Dr.R.Leo Bright Singh**, Department of Mechanical Engineering, Mar Ephraim College of Engineering & Technology, Marthandam delivered the lecture.
- **Dr. M.Manoj** arranged a guest lecture for the course "ME5074 Design of Jig Fixture and Press Tools" for the students of 5/8 Mechanical Engineering on 13.03.2024. **Prof.A. Jothilingam**, Former Head, Department of Production Technology, MIT campus, Anna University, delivered the lecture.
- **Dr. M. Manoj** and **Mr. N. Arunagiri** attended an one week Naan Mudhalvan FDP on Employability skills from 11.03.2024 to 16.03.2024 at CEG Campus, Anna University.
- **Mrs. U. Vishnuja** participated in the Seventh National online workshop on "Recent trends in Industrial Engineering" on 16.03.2024 and 17.03.2024 organised by Department of Mechanical Engineering ,SVNIT ,Surat.

- **Mrs. U. Vishnuja** participated in the International Conclave for Women in STEM organised by Agaram Foundation and Anna University on 18.03.2024 and 19.03.2024 at CEG Campus.
- **Mr. K. Muthukumaran** attended an one week online Faculty Development Programme on “Energizing Sustainability through Renewable Energy Systems” organised by Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur from 18.03.2024 to 22.03.2024.
- Audacious Dreams Foundation in collaboration with Anna University organised the Global Understanding of Sustainable Development – Youth Exchange and Study Programme. **M. Dwaarak Kartick, S. Giri Prakash, A. Sam Aakash, R. Sivaram** (6/8 B.E Mechanical Engineering) visited Kuala Lumpur, Malaysia to participate in the exchange program from 24.03.2024 to 31.03.2024. The students had an opportunity to interact with international youth leaders, business professionals, politicians, administrators and corporate heads.
- **Nilavan KJ, Thulasidharan CA, Athithya R, Sarankumar S** (6/8 B.E. Mechanical Engineering) and **Bharath Raj R** (6/8 B.E Production Engineering) under the guidance of **Mr. N. Arunagiri** have won first place in the National Level Competition on Finite Element Analysis – 2023 organised by SAE India.

## Departmental Activities

- The Department of Production Technology, Department of Rubber and Plastics Technology, Department of Mechanical Engineering and Department of Manufacturing Engineering, Anna University jointly signed a MoU with Precision Engineering and Technology Centre, Thirumudivakkam on 14.03.2024.
- The department organized **Prof. SRK Endowment Lecture series 2024** on 27.03.2024. **Dr. Santha Kumar Mohan**, IIT Palakkad delivered the lecture on “Recent Trends in Rehabilitation Robotics”. **Mr. R. Durairaj**, Head, AI & Space Robotics, ISRO, Trivandrum delivered a lecture on “Space robotics: Trends and Challenges”. Students and staffs of Anna University, friends and family members of Late Dr. Sivaramkrishnan attended the lecture series.
- **Pistoboltz 24**, a National level technical symposium was conducted on 16.03.2024 by The Association of Mechanical Engineers (TAME) of Department of Production Technology, MIT Campus. Technical events such as Design master, Line following robot, Mech quiz, Mech connections etc were conducted by students of the association. Industry-oriented workshops like Industrial automation using PLC, Rapid Prototyping, Robo Studio, Build your Go kart were conducted to bridge the gap between the industry and curriculum. More than 150 students from 20 colleges all over Tamil Nadu actively participated in the symposium. A rally of luxury cars and bikes known as Auto Expo was organised to ignite the spirit of auto enthusiasts.
- **Expro'24**, the Technical Symposium was conducted by The Association of Production Engineers (TAPE) on 23.03.2024. It was a dynamic event showcasing the forefront of production engineering. The symposium featured a diverse range of

technical events and workshops catering to the evolving needs of the industry. TAPE in collaboration with Defense Research and Development Organization (DRDO) and the Combat Vehicles Research and Development Establishment (CVRDE) organized a Defense Exhibition.”

- **Dr. C. Nandakumar** and **Mr. K. Tamilarasan** collected and submitted the data to the Dean office for Institute day/Alumni day/ Founder's day- 2023/2024.
- **Dr. E. Pavithra** and **Dr. C. Arun Prakash** along with 20 students from the Department of Production Technology visited “Institute Open House – Anaivarukkum IITM” at IIT Madras on 02.03.2024.
- **Dr. E. Pavithra** and **Mr. K. Tamilarasan** accompanied 57 students of 6/8 Production Engineering for industrial visit to M/S Madras Hydraulic Hose Pvt. Ltd. on 14.03.2024.
- **Mr. K. Muthukumaran** supervised mounting of UTM machine motor after rewinding and ensured that it is in working condition.
- **Mr. K. Muthukumaran** assisted **Dr. C. Nandakumar** (Chief Superintendent for PG exams) in submission of 1/4 PG students result and PG exam claim for Nov / Dec 2023 examinations.
- **Mr. K. Muthukumaran** assisted **Dr. N. Sri Rangarajalu** (Department Time Table In charge) in the preparation of 2<sup>nd</sup> & 3<sup>rd</sup> year UG revised time table for even semester January 2024 – May 2024.
- **Mr. S. Mohamed Shazuli** accompanied the students to Tamil Nadu Karting Competition (TNKC) 2024 in PPG College of Engineering, Coimbatore from 05.03.2024 to 08.03.2024. The students received Best Business Plan award.
- A guest lecture was arranged by MIT Alumni Association (MITAA) on 13.03.2024 for the students of Department of Production Technology on the topic “Getting Things Done” by **Mr. Muthu Subramaniam**, Director-Radiare.
- A guest lecture was arranged for knowledge transfer on 20.03.2024 for the students of Department of Production Technology on the topic “Optimization Techniques – An Overview”. **Prof. S. Gajendran**, Technical Advisor and Former Professor, Department of Production technology, MIT Campus, Anna University was the guest speaker.

### Other Activities

- **Dr. C. Nandakumar** acted as AUR for conducting TANCET/CEETA 2024 at Government College of Engineering, Erode.
- **Dr. C. Nandakumar** delivered an invited Lecture on “Modern Machining” at Dhanish Ahamed College of Engineering on 28.03.2024.
- **Dr. S. Vijayakumar, Dr. G. Kumaresan, Dr. E. Pavithra, Dr. C. Arun Prakash** and **Dr. S. Sathish** attended the SDG committee members meeting at CEG campus, Anna University on 21.03.2024. The committee members were asked to submit the case study for the year 2022-23.
- **Dr. S. Vijayakumar, Dr. G. Kumaresan, Dr. E. Pavithra, Dr. C. Arun Prakash** and **Dr. S. Sathish** completed the NITTTR 8 module MOOC course.

- Tamil Nadu Common Entrance Test (TANCET 2024) was conducted at MIT Campus, Anna University on 09.03.2024. **Dr. S. Vijayakumar** and **Dr. V. Mugendiran** were the Chief Superintendent and **Dr. P. Karthikeyan, Dr. G. Kumaresan** and **Dr. S. Sathish** were the Additional Chief Superintendent for TANCET 2024. **Dr. M. Manoj** assisted **Dr. S. Vijayakumar**.
- **Dr. C. Arun Prakash** was invited as Chief Guest for the event “Marketplace Maze” conducted by the Entrepreneurship Development Cell – Lakshya of Sri Sivasubramaniya Nadar College of Engineering on 07.03.2024.
- **Dr. C. Arun Prakash** delivered a lecture on “Hands-On PLC Programming for IoT and Robotic Solutions in SDG Contexts” in the pre-conference workshop of 8<sup>th</sup> International Conference on Computer, Communication and Signal Processing organised by Sri Sivasubramaniya Nadar College of Engineering on 20.03.2024.
- **Dr. C. Arun Prakash** delivered a lecture on “Industrial Automation Using PLC” at Pistoboltz 24 organised by The Association of Mechanical Engineers, Department of Production Technology, Anna University on 16.03.2023
- **Dr. E. Pavithra** delivered a lecture on “Introduction to Industrial Automation” at Pistoboltz 24 organised by The Association of Mechanical Engineers, Department of Production Technology, Anna University on 16.03.2023
- Around 50 students accompanied with one faculty from Loyola Institute of Technology visited the Department of Production Technology on 08.03.2024. The students visited Advanced Robotics Lab, Advanced Machining Lab and Siemens Centre of Excellence. **Dr. C. Arun Prakash** along with **Dr. E. Pavithra, Mr. A. Visagan, Mr. H. Sampath** and **Mr. S. Muralitharan** coordinated the visit.

[Events of March 2024, reported in April 2024]

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20/4/2024