

GOVERNMENT POLYTECHNIC, PANAJI

DEPARTMENT OF MECHANICAL ENGINEERING

Report on activities carried out by Department of Mechanical Engineering apart from Academic teaching /learning.

CO-CURRICULAR ACTIVITIES

- 1) Establishment of ISHRAE student chapter for 6th consecutive year since 2017-18.
- 2) Student Members participated as volunteers in the Flagship Event “**TECHFEST 2023**” held at Hotel Cida de Goa on 2nd September 2023.
- 3) Participation of students Members with Faculty in the Month of February 2024 for national event of ISHRAE **ACREX 2024** at New Delhi i.e 17th -19th February 2024. All together 8 students and HOD participated in the event.
- 4) The IMS faculty conducted Awareness Programme about benefits of Joining IMS on Wednesday 6th March 2024. About 60 students from Mechanical, Electrical and Fabrication branch attended the Talk. Many students showed interest to join the marine Engg field after completing their Diploma.

2) STUDENTS INDUSTRIAL TRAINING

- 3) Established a strong Industry Institute Interaction with local Industries for training of students and about 35 Industries have trained our students in the month of July & August 2023 for 8 weeks duration.
- 4) 3 MOU’s signed with industries for mutual cooperation.

DEVELOPMENT OF LABORATORIES

5) HYDRAULICS & FLUID MECHANICS LABORATORY

The hydraulic Bench procured for the laboratory is repaired and reconditioned owing to Mercury Leakage from the Manometers and Recalibrated & Retested by the Supplier.

6) HEAT ENGINE & AUTOMOBILE LABORATORY

For Heat Engine Laboratory the following equipments are newly procured.

- i) Automatic transmission cut section model
- ii) Torque convertor Model
- iii) Different types of Automobile Gear Boxes

7) REFRIGERATION & AIR CONDITIONING LABORATORY

For Refrigeration & Air Conditioning Laboratory the following new Equipments were procured

- i) Different types of Refrigeration Compressors (Hermetically sealed, Semi sealed & open type compressors)
- ii) Air conditioning tutor to measure C.O.P. of the Air conditioning system & obtain properties of moist air passing through Air handling unit.

The same set up (ii) has been used for PhD Research purpose of Mr. Sunil T Shetye, with minor modifications.

8) MECHATRONICS LABORATORY

Efforts are underway to set up Mechatronics Laboratory in the Department. The Equipments necessary are newly procured such as:

i) Delta PLC trainer & accessories

ii) Various kinds of Sensors

9) CAD/CAM LABORATORY

1. The non functional AC repairs and relocation of the two split Air conditioners were taken up through local service provider and also minor modifications were carried out for AC drainage pipes and the door by providing partial glass on the door.

2. Procured 10 new computers in the laboratory as the majority of the old Computers were non functional.

10) DEVELOPMENTAL ACTIVITIES

9) The following modifications and repairs are carried out through PWD:

1. Created access door through HOD cabin to the passage between Department and Annex Building.

2. Roofing repair and Water proofing of Annex building was also carried out.

3. Proper Electrification and wiring of both the buildings of Mechanical Engineering Department is still pending.

4. Efforts are underway in development of space in between Hydraulic laboratory and Heat Engine Laboratory for extending space to set up the new laboratory

11) EXTRA CURRICULAR ACTIVITIES:-

1. A talk on “**CRITICAL THINKING**” was conducted by **Shri. SUHAS MALLYA** Proprietor of **EMCO industries Ltd.** Nessai, Margao Goa for students of First and Second year students on **8th August 2023** between 2.30 pm to 4.30 pm as a part of orientation Programme.

2. A Dental Awareness talk was organized by **BILLION DOLLAR SMILE**, Panjim alongwith General Health, Wellness and Entrepreneurship on **25th October 2023** without much disturbance to the Academic Calendar to the Pre final and final year Students. **Dr. Saniya Shaikh, Dr. Vyoma Shanbag** and **Mr. Amit Sahakari** conducted the session.

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