

Batch_2024-28_Sem_4

B.Tech in ME

Real - Time Research Project/Field Based Project

Sub-Code MEC223

Choose any one of the following 30 Project Topic

A. Mechanical System Field Projects

1. Pump Performance Analysis in Water Supply System
2. Compressor Efficiency Study
3. Vibration Analysis of Rotating Machinery
4. Belt Conveyor Performance Study
5. Industrial Lubrication System Study
6. Noise Level Study in Mechanical Workshops

B. Industrial & Production Field Projects

7. Study of Preventive Maintenance in Small Industries
8. Machine Utilization Study in Workshop/Industry
9. Production Line Efficiency Analysis
10. Study of Material Handling Systems in Industry
11. Time and Motion Study in Manufacturing Process
12. Productivity Improvement Study in Workshop

C. Thermal Engineering Field Projects

13. Boiler Efficiency Analysis in Industry
14. Heat Loss Study in Industrial Boilers
15. Performance Study of Air Conditioning System
16. Refrigeration System Performance Analysis
17. Cooling Tower Performance Study
18. Energy Efficiency Study of HVAC System

D. Automobile Engineering Field Projects

19. Fuel Efficiency Study of Different Vehicles
20. Vehicle Emission Analysis and Control Study
21. Maintenance Study of Automobile Workshop
22. Electric Vehicle Performance Study
23. Brake System Performance Study
24. Engine Performance Monitoring Study

E. Renewable Energy & Sustainability Projects

25. Solar Water Heater Performance Study
26. Wind Energy Potential Study in Local Area
27. Solar Dryer Performance Analysis
28. Biogas Plant Performance Study
29. Waste Heat Recovery Study
30. Solar Powered Air Cooling System Study