

School of Automobile, Mechanical & Mechatronics

Department of Mechatronics Engineering

Specializations Offered by the Department

Minor Specializations

I. Robotics and Automation

1. MC 3250 : Autonomous Robots
2. MC 3251 : Robot Path Planning and Mobile Robots
3. MC 4162 : Machine Learning
4. MC 4163 : Industrial Automation

II. Industrial IoT System

1. MC 3252 : Wireless Sensor Network
2. MC 3253 : IoT System
3. MC 4163 : Industrial Automation
4. MC 4164 : Automated Manufacturing System

Other Programme Electives

1. MC 3240 : Big Data Analytics
2. MC 3241 : Computer Architecture and Real-time Systems
3. MC 3242 : Design of Mechanical Drives
4. MC 3243 : Digital Signal Processing
5. MC 3244 : Embedded Systems Design
6. MC 3245 : Engineering Materials
7. MC 3246 : Advance Robotics
8. MC 3247 : Hybrid Vehicle Technology
9. MC 3248 : Mechanical Vibrations
10. MC 3249 : Manufacturing Process
11. MC 4140 : Industrial Instrumentation
12. MC 4141 : Micro Electro Mechanical Systems
13. MC 4142 : Micro-manufacturing Systems
14. MC 4143 : Nanotechnology
15. MC 4144 : Non-linear Control System
16. MC 4145 : Production Operations and Management
17. MC 4146 : Statistical Quality Control Methods
18. MC 4147 : Reliability Engineering
19. MC 4148 : System Modelling and Simulation
20. MC 4149 : Virtual Instrumentation
21. MC 4150 : Production Technology
22. MC 4151 : Industrial Ergonomics

23. MC 4152 : Project Management
24. MC 4153 : Information System in Manufacturing
25. MC 4154 : Artificial Intelligence
26. MC 4155 : Building Automation
27. MC 4156 : Energy Conservation, Audit and Management
28. MC 4157 : Machine Tool Technology
29. MC 4158 : Machine Vision and Image Processing
30. MC 4159 : Dynamics and Controls of Mechatronics Systems
31. MC 4160 : Electric Vehicle Machines and Drives
32. MC 4161 : Computer Networks and Communication Protocols

Open Electives

1. MC 2080 : Introduction to Robotics
2. MC 2081 : Mechatronics System
3. MC 2082 : Automation in Industrial System
4. MC 2083 : Arm Architecture Based System Design
5. MC 3080 : Hydraulic and Pneumatic Systems
6. MC 3081 : Quality Control and Management
7. MC 3082 : Reliability and Maintenance Engineering
8. MC 3083 : Biomedical Instrumentation
9. MC 3084 : Sensors & Transducers