

Department of Mechanical Engineering

Sr No	Name of Course	Duration	Learning Outcomes
1	Industrial Automation & Robotics	60 Hrs	<ol style="list-style-type: none">1. The learners will be able to design and implement automated systems using pneumatics.2. The learners will be able to provide hydraulic solutions for designing automated systems.3. The learners will be able to devise assembly automated systems using feeders, orienters and escapement devices4. The learners will be able to design and implement electro-pneumatic/hydraulic solutions for automated systems.5. The learners will be able to apply PLC programming and implement it on PLC kits.
2	Training on CATIA with Global certification (Dassault Systemem's	60 Hrs	<ol style="list-style-type: none">1.The learners will be able to solve industry specific CAD test problems.2. The learners will be able to best tool for 3d modeling3. The learners will be able to intricate & complex surfaces can be created by using Catia.4. The learners will be able to use CATIA software for preparation of drawings in the final year project.5.The learners will be able to scope of getting placement in design industries.
3	GD&T	25 Hrs	<ol style="list-style-type: none">1.The learners will be able to read industrial drawing concepts & practices.2.The learners will be able to different projection systems.3.The learners will be able to visualisation of industrial components.4.The learners will be able to understanding Functional Dimension Concept.5.The learners will be able to decision making of component size variation.6. The learners will be able to Standardization of tolerancing practices.

4	Training on CNC Programmin g	25 Hrs	<ol style="list-style-type: none">1.The learners will be able to understand fundamentals of NC/CNC2. The learners will be able to learn and write NC Part Programming3. The learners will be able to learn NC Programming through CAD/CAM4. The learners will be able to Hands –on experience on MasterCAM5. The learners will be able to learn Tooling for NC/CNC6. The learners will be able to understand machines like Chucking and Turning Centres, Machining Centres7. The learners will be able to learn Maintenance and Trouble Shooting of CNC Machine Tools
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