



Diploma branch in which subject is offered: - Automobile Engineering

Objective: The diploma engineers are required to undergo training in industry related to automotive parts manufacturing and testing of automotive component, repairing/maintenance workshops. Diagnose center, finished/Finished Products, and in foundries, heat treatment shops, steel making shops etc for problems and technical resolutions. The students need to have industry and workshop exposure, where they can experience real life equipment, materials, instruments and various kinds of Automotive system and related equipments. This course has been designed for the students to have real life experiences to help them prepare for their career. The modern automotive sector needs skilled and managerial personnel who have technical expertise as well as entrepreneurial qualities to manage the growing industry.

Credits Earned: 8

Course Outcomes:

Students undergone training in the industry/laboratories as trainees so that they are able to acquire different learning out comes to demonstrate following course outcomes. (Students should be able to demonstrate these skills on the type of metallurgical process or parameters affecting, the following list is suggestive only, some more skills may be acquired by student depending upon the opportunities they get and in some cases some of the following skills may not be applicable on which they have undergone training)

- Apply knowledge of mathematics, science, and engineering with applied engineering procedures, and processes, to the solution of engineering broadly defined problems of automotive vehicle repair and maintenance
- Apply ethical principles and commit to responsibilities and norms of engineering practice.
- Explain various automotive components and working methodology and fault diagnosis or the production methodology of the component. Analyse the problem pertaining to smooth/efficient running of vehicle using modern tools.
- Use the knowledge of various testing process, their output analysis and finding route cause and suggest parameters for preventive maintenance.
- Preventive maintenance scheduling methodology and its output effect.

Pre-requisite of course: Nil



Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term work	
0	0	0	8	0	0	0	50	50	100