

GANPAT UNIVERSITY									
FACULTY OF ENGINEERING AND TECHNOLOGY (DIPLOMA PROGRAMMES)									
Programme	Diploma Engineering				Branch/Spec.	Automobile Engineering			
Semester	I				Version	1.0.0.0			
Effective from Academic Year	2018-19				Effective for the batch Admitted in	June 2018			
Subject code	1ES116		Subject Name		Automobile Trade Practice				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	0	0	2	0	2	Theory	00	00	00
Hours	0	0	4	0	4	Practical	60	40	100
Pre-requisites:									
None									
Learning Outcome:									
After completion of this course, student will be able to									
<ul style="list-style-type: none"> <li>▪ Prepare modern garage layout by following preliminary safety rules</li> <li>▪ Select appropriate hand tool or power tool for required application.</li> <li>▪ Use appropriate testing and servicing tools or instruments for given situation</li> </ul>									
Practical syllabus									
Unit	Content								Hrs
1	<b>Introduction To Automobile Garage:</b> Garage layout, Importance of various sections in garage, Types of job done in various sections, General safety rules while working in garage								15
2	<b>Automobile Tools, Measuring And Testing Instruments :</b> Application of various hand & power tools used in garage Application of special purpose tools used in garage, Use of various measuring & testing instruments like Vernier callipers, Dial gauge, micrometer, thickness gauge, wire gauge, pressure gauge etc. Various engines testing equipment. Various transmission systems testing equipment. A.C System & electrical system testing equipment								15
3	<b>Servicing &amp; Maintenance:</b> Role of service advisor & service executive. Prepare a job card, Over view of car inspection, exterior inspection, interior inspection, inspecting engine components, inspecting trunk, inspecting bottom. Service equipments. Servicing of vehicle								15
4	<b>Major Operation And Inspection Methodology:</b> Introduction to major operation, engine operation, transmission operation, wheel operation, steering operation diagnose various problem on road and off road.								15
Practical content									
1 Prepare a layout of a modern Garage for given vehicle.									
2 Demonstrate use of safety equipments and procedures in garage.									
3 Demonstrate use and care of hand tools.									
4 Demonstrate features and use of instruments, power tools, special purpose tools.									
5 Demonstrate features and use of various types of measuring instruments.									
6 Demonstrate features and use of various types of testing instruments and equipment.									
7 Carryout maintenance of bearing and bushes.									
8 Demonstrate features and use of servicing equipment.									
9 Perform role of service advisor, service executive, job card preparation and customer care.									

10 Demonstrate Procedure for Servicing of two wheeler/four wheeler.

11. Demonstrate one hour basic Training Module Provided by any automobile manufacturing company.

**Text Books**

1 Automobile engines Vol-1 by Kripal sinh, standard publication.

**Reference Books**

1 Automobile Engineering by R.B. gupta , Satya Prakasan, New Delhi

2 Automotive Mechanics by W.H.Crouse & D.L. Anglin ,Tata Mc-Graw Hill Publishing Co. Ltd.-New Delhi

3 Automotive Service ,Inspection, Maintenance, Repair by Tim Gills, Cengage Learning, 2011

4 Total Automotive Technology by Anthony E. Schwaller, Cengage Learning, 2004

5 Automobile engine Vol-2 by Anil Chikara,Satya Prakasan