



Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	P	OJT		Theory		Tutorial/ Practical		
			C	University exams (ESE)	Progressive Assessment (PA)	External Practical /viva Exam (ESE)	Internal evaluation Practical /viva Exam (PA)	
-	2	-	2	-	-	20	30	50

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Course Content

Unit No.	Content	Hours
1.	CARPENTRY SHOP WORK: (EX-1) Planing and sawing practice (EX-2) Making of lap joint (EX-3) Making of mortise and tanon joint	06
2.	PAINTING AND POLISHING: (EX-1) To prepare a wooden surface for painting apply primer on one side and to paint the same side. To prepare french polish for wooden surface and Polish the other side. (EX-2) To prepare metal surface for painting, apply primer and paint the same. (EX-3) To prepare a metal surface for spray painting, first spray primer and paint the same by spray painting gun and compressor system. The sequence of polishing will be as below- (i) Abrasive cutting by leather wheel. (ii) Polishing with hard cotton wheel and with polishing material. (iii) Buffing with cotton wheel or buff wheel.	06
3.	SHEET METAL WORKING AND SOLDERING: (EX-1) Cutting, shearing and bending of sheet. (EX-2) To prepare a soap case by the metal sheet (EX-3) To make a funnel with thin sheet and to solder the seam of the same (EX-4) To make a cylinder and to solder the same	06
4.	FITTING SHOP WORK: (EX-1) Hack sawing and chipping of M.S. flat (EX-2) Filing and squaring of chipped M.S. job (EX-3) Filing on square of rectangular M.S. Plate	06
5.	PLUMBING SHOP WORK: (EX-1) Cutting and threading practice for using socket, elbow and tee etc and to fit it on wooden practice board.	06
6.	SMITHY SHOP WORK: (EX-1) To prepare square angular piece by M.S. rod (EX-2) To Braze M.S. flat/Tipped tool on M.S. shank (EX-3) To make a screw driver with metallic handle	06
7.	WELDING SHOP WORK: (EX-1) Welding practice gas & electric (EX-2) Welding for lap joint after preparing the edge (EX-3) Welding Butt joint after preparing the edge	06
Total Hours		42



GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Diploma in Vocation (D.Voc), 3rd Semester

Branch: Automobile Servicing

Subject Name: Mechanical Workshop Practice-I

Subject Code: 1230105

**With effective
from academic
year 2018-19**

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	20	15	5	5

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate and above Levels (Bloom's Taxonomy)

Reference Books:

1. Workshop Technology, Vol. I: Hazra & Chaudhry