

4057 - AUTOMOBILE WORKSHOP PRACTICE - I									
Teaching Schedule Per Week			Progressive Assessment	Examination Schedule (Marks)					
Lectures	Practical	Credits		Theory		Practical Ex.		Total	
-	4	4	-	50	-	-	-	50	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
Nil		AUT		-	-	-	50	50	100

COURSE CONTENTS

Hrs Mks

1. WELDING

1

Elementary Knowledge of different types of electric welding like CO2 welding, TIG welding, MIG welding.
Principles of electric resistance welding; Knowledge of Gas welding, gas cutting, soldering and brazing; Knowledge of various welding defects and testing of welded joints; General safety precautions.
Perform simple exercises given below: 1) Metal arc welding (T-joint); 2) Gas welding / Brazing / Soldering involving sheet metal work.; 3) Demonstration on use of MIG/TIG welding machines; 4) Demonstration of pipe welding by manual metal arc welding and gas cutting.

2. LATHE WORK AND MACHINING

Knowledge of various machine tools used in a workshop such as drilling machine, surface grinder and cylindrical grinding machine and center lathe. Knowledge of main parts, working and nature of work done on machine mentioned above.
Knowledge of cutting tools and coolant: General safety precautions while working on machine tools.
Perform simple exercises involving drilling and turning operation. Simple jobs involving turning operations- plain turning, step turning, facing center drilling and taper turning. Demonstration on milling, shaping and grinding machines.

Total

REFERENCE BOOKS:

1. Welding Technology by O. P. Khanna
2. Elements of Workshop Technology vol 2 (Machine tools) by S. K. Hajara Choudhury, S. K. Bhose & A. K. Hajara Choudhury
3. Workshop Practice Manual by V. K. Kapoor

