

Devi Ahilya University, Indore, India Institute of Engineering & Technology				BE-I Year (Common to all branches) Semester- I & II			
Subject Code & Name	Instructions Hours per Week			Credits			
MER1C5: Workshop Practice	L	T	P	L	T	P	Total
Duration of Theory Paper: Only practical examination.	0	1	2	0	1	2	3

Learning Objectives:

- To develop the basic working skills with engineering tools and machines
- To develop the practical understanding of engineering materials, processes and manufacturing.

Prerequisite(s): nil

COURSE OF CONTENTS

Introduction of and practice work on the following trade shops, processes, tools, material and their application in manufacturing:

1. Smithy
2. Fitting
3. Carpentry
4. Welding
5. Foundry
6. Machine shop
7. Plumbing Shop

Learning Outcomes:

Upon Completing the Course, Student will able to:

- To prepare simple wooden joints using wood working tools
- To Produce Fitting jobs as per specified dimensions
- To prepare simple lap, butt, T-, joint and Corner joints using arc welding equipment.
- To create gating elements in foundry shop.
- Learn to the essential parts of lathe machine as well perform the basic operation on lathe machine.
- To create threading operation in plumbing shop.

BOOKS RECOMMENDED:

- [1] W. A. J. Chapman, Workshop Technology, Vol-I/II, Elsevier Butterworth Heineman, 5/e.
[2] S.K.Hajra Choudhury, Elements of Workshop Technology, Media Promoters of Publishers.