

**Nirma University
Institute of Technology
Bachelor of Technology
(A.Y. 2018 – 19)**

L	T	P	C
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Course Code	ME104
Course Title	Mechanical Workshop

Course Learning Outcomes (CLO):

After successful completion of the course, students will be able to-

1. explain the safety measures required while working in the mechanical workshop,
2. interpret an engineering drawing for the given practice job,
3. select and make use of proper hand tools for a given job,
4. develop an understanding of various workshop practices.

Course Outline:

- (a) Instruction / demonstration shall be given for each of the following shops/trades with regards to the materials, tools and equipment used: **10 hours**

1. Introduction to Mechanical Workshop Practice
2. Joining process
3. Plumbing
4. Fitting
5. Sheet metal work
6. Carpentry
7. Black smithy
8. Use of conventional and CNC machines

- (b) Exercise and Term work: Each student is required to prepare a job in the following trades: **20 hours**

1. Arc Welding
2. Fitting
3. Carpentry
4. Black smithy

Suggested Readings:

1. H S Bawa, Workshop Practice -I and II by, TMH Publication.
2. K C John, Mechanical Workshop Practice by, PHI Publications.

L = Lecture, T = Tutorial, P = Practical, C = Credit