

COURSE TITLE : **MANUFACTURING LAB-II**
COURSE CODE : **4058**
COURSE CATEGORY : **B**
PERIODS/WEEK : **3**
PERIODS/SEMESTER : **42**
CREDITS : **2**

TIME SCHEDULE

| Module | Topic | Periods |
|--------------|-----------------------------|-----------|
| 1 | Fitting practice | 10 |
| 2 | Welding practice | 10 |
| 3 | Machine shop practice | 10 |
| 4 | Shaper and slotter practice | 12 |
| TOTAL | | 42 |

GENERAL COURSE OUTCOME

| Module | G.O | Student will be able to |
|--------|-----|--------------------------------------------------------------------------------------------------------|
| 1 | 1 | Understand the various operations to be carried out on a lathe. |
| | 2 | Carryout thread cutting and tool grinding on lathe. |
| | 3 | Understand various arc welding and gas welding techniques. |
| | 4 | Carryout various work such as single V, double V, lap joints, butt joints and T joints. |
| 2 | 1 | Understand the various operations to be carried out on shaper and slotting machine. |
| | 2 | Carryout various works such as V-cutting, dove tail cutting, indexing, cutting keyway and end splines. |

SPECIFIC COURSE OUTCOME

MODULE I

1.1.0 Carryout the Taping and dieing practice

MODULE II

2.1.0 Carryout the gas welding practice

MODULE III

3.1.0 Carryout the Thread cutting practice

3.1.1 Perform the Lathe tool grinding

MODULE IV

4.1.0 Perform V-cutting and dove- tail cutting in Shaper

4.1.1 Carryout the Indexing practice, cutting key way and end splines in Slotter

CONTENT DETAILS

MODULE I

Fitting Practice: Dove-tail, V-Joints
Taping and dieing practice.

MODULE II

Arc-Welding Practice: Single V, Double V-Butt Joints ,Lap Joints, T Joints
Gas welding practice: Oxy-Acetylene gas Welding

MODULE III

Machine shop practice:
Lathe work: Thread cutting practice. ,Lathe tool grinding practice

MODULE IV

Work on Shaper:V-cutting and dove- tail cutting
Work on Slotter: Indexing practice, cutting key way and end splines

REFERENCE:

S.K.Hajra Chaudhary - Workshop Technology-II - Media promotors and publishers pvt.Limited
K C john- Mechanical Workshop practice - PHI Learning Pvt. Ltd.