COURSE TITLE : ADVANCED MACHINE TOOL LAB

COURSE CODE : 6029
COURSE CATEGORY : A
PERIODS/ WEEK : 3
PERIODS/ SEMESTER : 45
CREDIT : 2

# **TIME SCHEDULE**

MODULE	TOPIC	PERIODS
1	Lathe work	10
2	Shaping and milling practice	12
3	Slotting, planning and grinding	10
4	CNC Machining and programming	13
TOTAL		45

#### **COURSE OUTCOME**:

sl.no.	sub	student will be able to	
	1	Perform various operations on machine tools.	
	2	Carryout special turning operations to produce machine handle, eccentric turning.	
1 3	3	Carryout practice on shaper, milling machine and planning machine.	
	4	Perform key way cutting, T slot cutting, gear cutting, spline cutting.	
	5	Carryout practice on CNC programming and CNC machines.	

### **CONTENT DETAILS**

#### **MODULE I**

Lathe Work

Advanced lathe operations such as machine handle manufacturing- male and female assembly etc.

### **MODULE II**

Shaping & Milling Practice-V -Blocks, Key- way cutting T- Slot Cutting, Gear cutting.

### **MODULE III**

Grinding- Planning-& Slotting practice-Practice on grinding- planning & slotting machines

# **MODULE IV**

**CNC Programming Practice-machining** 

# **TEXT BOOKS**

- 1. Mechanical Workshop Practice By K. C. John (PHI Learning Private Limited)
- 2. Mechanical Workshop & Laboratory Manual By K. C. John

# REFERENCE

- 1. Workshop Technology Vol. I by S K Hajra Choudhary
- 2. Workshop Technology Vol. II by S K Hajra Choudhary