

COURSE TITLE : ADVANCED MACHINE TOOL LABORATORY
COURSE CODE : 429
COURSE CATEGORY : A
PERIODS/WEEK : 4
PERIODS/SEMESTER : 72
CREDITS : 2

TIME SCHEDULE

<u>MODULE</u>	<u>TOPIC</u>	<u>PERIODS</u>
1.	Lathe Work	16
2.	Shaping & Milling Practices	20
3.	Slotting ,Planing and Grinding Practices	12
4.	CNC Machining & Programming	24

Total 72

OBJECTIVES

Perform the various operations on Machine tools
Perform special turning operation to produce machine handle, eccentric turning, male & female fit assembly.
Practice the various operation on shaper , milling machine and a planer.
Perform key way-cutting , T – Slot cutting , gear cutting , spline cutting etc.
Practice work on CNC Programming and machining
Recondition the machine parts, if needed.

CONTENT OUTLINE

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, Planing & Slotting practice

Practice on grinding, planing & slotting machines.

MODULE IV

Practice on CNC Programming and machining