

CNC TURNING SYLLABUS

PART 1

★ INTRODUCTION OF CNC MACHINES

○ VIDEOS

○ ANATOMY OF MACHINES

○ AXIS NOMENCLATURE

○ WORKING METHODS

○ CLAMPING METHODS

○ TOOLS & TOOL HOLDERS

★ BASIC 2D & 3D DRAWINGS

★ TOOLS AND TOOL HOLDERS SELECTION

★ FEED/SPEED CALCULATIONS

★ INTRODUCTION OF M-CODES & G-CODES

★ INTRODUCTION OF PART PROGRAMMING

PART - II

★ FACING

○ EXERCISE

★ TURNING

○ EXERCISE

★ STEP TURNING

○ EXERCISE

★ CHAMFERING & TAPER TURNING

○ EXERCISE

★ CHAMFERING ANGLE METHOD

○ EXERCISE

★ RADIUS USING G02/G03

○ EXERCISE

★ COMBINATION ALL TYPE OF DRAWINGS

○ EXERCISE

PART – III
★ BORING
○ EXCERCISE
★ STEP BORING
○ EXCERCISE
★ GROOVING OD
○ EXCERCISE
★ GROOVING ID
○ EXCERCISE
★ TNRC LEFT & RIGHT & CANCEL G40,G41,G42
○ EXCERCISE
★ TNRC USING OD
○ EXCERCISE
★ TNRC USING GROOVING ID & OD
○ EXCERCISE
PART - IV
★ CANNED CYCLE INTRODUCTION
★ TURNING CYCLE G71
○ EXCERCISE
★ FACING CYCLE G72
○ EXCERCISE
★ FINISHING CYCLE G70
○ EXCERCISE
★ PATTERN REPEATING CYCLE G74
○ EXCERCISE
★ PECK DRILLING CYCLE G74
○ EXCERCISE

★ GROOVING CYCLE G75
○ EXCERCISE

★ THREAD CUTTING CYCLE G76
○ EXCERCISE

★ BOX TURNING G77
○ EXCERCISE

★ THREADING CYCLE G78
○ EXCERCISE

★ BOX FACING CYCLE G79
○ EXCERCISE

PART – V

★ REMAINING M-CODES & G-CODES
<input type="checkbox"/>

★ PROFILE CALCULATION
○ USING PYTHAGORAS THEROM

★ PROBLEM SOLVING TECHNIQUES
