

PNS SCHOOL OF ENGINEERING & TECHNOLOGY,

MARSHAGHAI,KENDRAPARA

LESSON PLAN

Discipline: MECHANICAL		Group	SEMESTER: 5TH	Name of the Teaching Faculty:Sanyasi Swain/ Prafulla kumar Nayak
Subject: CAD/CAM Lab (PR-3)			No.of Days/per week class allotted:4	Semester From date:14.07.2025 to Date :15.11.2025 , No.of weeks: 12
week		Class Day	Topics	
1st	A & B	1st	INTRODUCTION: Part modelling, Datum plane,	
	2nd	Datum plane; constraint;		
	A & B	1st	dimensioning; extrude; revolve; sweep;	
		2nd	protrusion; extrusion; rib; shell; hole;	
2nd	A & B	1st	round; chamfer; copy; mirror; assembly; align; orient.	
	2nd	EXERCISES: 2D Drawings of Rectangle, circle, polygon		
	A & B	1st	and its dimensioning	
		2nd	Command practice	
3rd	A & B	1st	3D Drawings	
	2nd	Record Verification		
	A & B	1st	1.Gib and cutter joint	
		2nd	2.Screw Jack;	
4th	A & B	1st	3.Connecting Rod;	
	2nd	4.Bearing Block.		
	A & B	1st	Print the orthographic view from the above assembled 3Ddrawing	
		2nd	Command practice	
5th	A & B	1st	Record Verification	
	2nd	CNC Programming and Machining INTRODUCTION; 1.Study of CNC lathe, milling;		
	A & B	1st	2.Study of international codes; G-Codes and M -Co	
		2nd	3.Format –Dimensioning methods;	
6th	A & B	1st	4.Programme writing –Turning Simulator-Milling simulator	
	2nd	practice-commands menus		
	A & B	1st	5.Editing the programme in the CNC MACHINES;	
		2nd	6.Execute the programme in the CNC machines;	
7th	A & B	1st	Record Verification	
	2nd	Command practice		
	A & B	1st	Exercise; 1. Print the programme and make the component in the CNC machine;	
		2nd	Record Verification	
8th	A & B	1st	2.Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine	
	2nd	Command practice		
	A & B	1st	Command practice	
		2nd	Record Verification	
	A & R	1st	Command practice	

9th	A & B	2nd	Command practice
		1st	Record Verification
		2nd	3.Using Linear interpolation and Circular
10th	A & B	1st	Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine
		2nd	Command practice
	A & B	1st	Command practice
		2nd	Record Verification
11th	A & B	1st	Command practice
		2nd	Command practice
	A & B	1st	Record Verification
		2nd	Command practice

signature of Lecturer / demonstrator

signature of HOD

signature of Principal