

LESSON PLAN

GOVT. POLYTECHNIC, NAYAGARH

DEPARTMENT OF MECHANICAL ENGINEERING

SUBJECT: CAD & CAM LAB (Pr.3)

Periods:4P/WEEK

SEMESTER:5th

NAME OF FACULTY: Mrs. Monalisa Sahoo, W/S Suptd. & HOD

ACADEMIC YEAR.2023-24

Mr. Ramya Rashmi Rout, Lect. (GF)

From date: 01/08/2023

To Date: 30/11/2023

No. of weeks: 15

Week	Class Day(3hrs./day)	Theory / Practical Topics
1 st	1 st	INTRODUCTION
	2 nd	Part Modeling, Datum Plane, Datum Plane, Constraint, Dimensioning
2 nd	1 st	Extrude, Revolve, Sweep
	2 nd	Projection, Extrusion, Rib
3 rd	1 st	Shell, Hole, Round, Chamfer
	2 nd	Copy, mirror
4 th	1 st	Assembly, Align. Orient.
	2 nd	2D Drawings of Rectangle, circle
5 th	1 st	Polygon and its dimensioning
	2 nd	Polygon and its dimensioning
6 th	1 st	3D Drawings of I.Gib and cutter joint
	2 nd	3D Drawings of I.Gib and cutter joint
7 th	1 st	2.Screw Jack
	2 nd	2.Screw Jack
8 th	1 st	3.Connecting Rod
	2 nd	3.Connecting Rod
9 th	1 st	4.Bearing Block
	2 nd	4.Bearing Block
10 th	1 st	Print the orthographic view from the above assembled 3Ddrawing
	2 nd	CNC Programming and Machining Introduction
11 th	1 st	1.Study of CNC lathe, milling
	2 nd	2.Study of international codes; G-Codes and M –Codes Machine
12 th	1 st	3.Isometric –Dimensioning methods
	2 nd	4.Program re-writing –Isometric Simulator-Milling simulator IS practice- sheet 19005 BR0001
13 th	1 st	5.Isometric drawing of the CNC MACHINES

	1 st	1. Loading the programme in the CNC machines
	12 th	1. Download 1. Print the programme and make the component in the CNC Machine
	13 th	2. Using canned cycle to create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine
	15 th	3. Using Linear Interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine
		4. CNC Programming and Machining introduction

Ramya Lashmi Kent —
31/07/2023