

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
1st	1 st	INTRODUCTION
	2 nd	Part Modelling, Datum Plane, Datum Plane, Constraint, Dimensioning
2 nd	1 st	Extrude, Revolve, Sweep
	2 nd	Protrusion, 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 1.Gib and cutter joint
	2 nd	3D Drawings of 1.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.Format –Dimensioning methods
	2 nd	4.Programme writing –Turning Simulator-Milling simulator IS practice- commands menus
13 th	1 st	5.Editing the programme in the CNC MACHINES

	2 nd	6. Execute the programme in the CNC machines
14 th	1 st	Exercise; 1. Print the programme and make the component in the CNC machine
	2 nd	2. Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine
15 th	1 st	3. Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling
	2 nd	CNC Programming and Machining introduction

Ramya Lashmi Reddy —
31/07/2023