

JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA

MECHANICAL ENGG. DEPARTMENT

Name of the Faculty: S. Dwivedi,  
P. Swain

Session: 2022-23

Course code.:

Course NAME - CAD/CAM LAB

Program: Diploma

Department: Mechanical Enng. Deptt.

Semester: 5TH

Section: M1, M2

Branch: MECHANICAL ENGG

WEEK	Unit	Hours	Practicals to be Covered
1	Practical-1	6	Part modelling, Datum plane, Datum plane, constraint; dimensioning; extrude;
2	practical 2	6	revolve; sweep; protrusion, extrusion; rib; shell; hole
3	practical 3	6	round; chamfer; copy; mirror; assembly; align; orient.
4	practical 4	6	2D Drawings of Rectangle, circle, polygon and its dimensioning, 3D Drawings
5	practical 5	6	Gib and cutter joint
6	practical 6	6	Screw Jack;
7	practical 7	6	Connecting Rod; Bearing Block
8	practical 8	6	Study of CNC lathe, milling; Study of international codes; G-Codes and M-Codes
9	practical 9	6	Format –Dimensioning methods;
10	practical 10	6	Programme writing –Turning Simulator-Milling simulator IS practice-commands menus
11	practical 11	6	Editing the programme in the CNC MACHINES
12	practical 12	6	Execute the programme in the CNC machines;
13	practical 13	6	Print the programme and make the component in the CNC machine;
14	practical 14	6	Using canned cycle-create a part programme for thread cutting, grooving and produce component in the CNC Turning Machine
15	practical 15	6	Using Linear interpolation and Circular Interpolation-Create a part programme for grooving and produce component in the CNC Milling Machine



Signature of the Faculty



Signature of the HOD