

GOVT. POLYTECHNIC KANDHAMAL, PHULBANI
 At- Salunki, PO- Phulbani, Pin- 762001, website- gpkandhmal.org
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

Discipline: Mechanical	Semester: 4th	Name of the Teaching faculty: Manas Kumar Mishra		
Subject: Computer Intergrated Manufacturing (TH3)	No of Days/Week class allotted: 3	Semester from Date: 22/12/25 No of weeks: 15	To Date: 18/04/26	
Week	Class Day	Topics		
1st	1st	Syllabus, Cos, Lesson plan, Internals, Exams Concept of Computer Integrated Manufacturing (CIM)		
		Basic components of CIM		
	2nd	3rd	Distributed database system; distributed communication system	
2nd	1st	Distributed database system; distributed communication system		
	2nd	3rd	Computer networks for manufacturing	
	3rd	1st	Computer networks for manufacturing	
3rd	1st	Future automated factory		
	2nd	3rd	Future automated factory	
	4th	1st	Social and economic factors.	
4th	2nd	Social and economic factors.		
	3rd	1st	Computer Aided Design (CAD): CAD hardware and software	
	5th	2nd	Computer Aided Design (CAD): CAD hardware and software	
5th	1st	Product modelling		
	2nd	3rd	Automatic drafting	
	6th	1st	Engineering analysis	
6th	2nd	Engineering analysis		
	3rd	1st	FEM design review and evaluation	
	7th	2nd	FEM design review and evaluation	
7th	1st	Group Technology Centre.		
	2nd	3rd	Group Technology Centre.	
	8th	1st	Computer Aided Manufacturing (CAM)	
8th	2nd	Computer assisted NC part programming for plain turning and step turning		
	3rd	1st	Computer assisted NC part programming for plain turning and step turning	
	9th	2nd	Computer assisted NC part programming for plain turning and step turning	
9th	1st	Computer assisted robot programming;		
	2nd	3rd	Computer assisted robot programming;	
	3rd	1st	Computer aided process planning (CAPP)	

10th	1st	Computer aided material requirements planning (MRP)
	2nd	Computer aided production scheduling
	3rd	Computer aided production scheduling
11th	1st	Computer aided inspection planning
	2nd	Computer aided inspection planning
	3rd	Computer aided inventory planning
12th	1st	Computer aided inventory planning
	2nd	Flexible manufacturing system (FMS)
	3rd	Flexible manufacturing system (FMS)
13th	1st	Concept of flexible manufacturing
	2nd	Concept of flexible manufacturing
	3rd	Integrating NC machines, robots
14th	1st	AGVs, and other NC equipment
	2nd	Computer aided quality control
	3rd	Computer aided quality control
15th	1st	Business functions
	2nd	Computer aided forecasting
	3rd	Office automation

Mr. Shw
22.12.25

signature of faculty