

LESSON PLAN

SUB: CIM

BRANCH:- MECHANICAL ENGG.

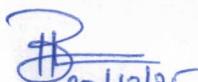
SEMESTER: 4TH

NAME OF FACULTY: KEDAR PRUSTY

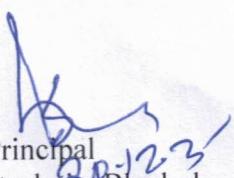


**GOVERNMENT POLYTECHNIC,
BHADRAK**

SESSION:2025-26


Hod ,Mechanical
20/12/25


Academic Co-ordinator
20/12/25


Principal
20/12/25
Govt. Polytechnic, Bhadrak

ACADEMIC LESSON PLAN FOR COMPUTER INTEGRATED MANUFACTURING(TH-3)

Discipline: MECHANICAL E NGG.	Semester: 4th	Name of the Teaching Faculty: KEDAR PRUSTY Lecturer(GF) Mechanical Engg.
Subject: COMPUTER INTEGRATED MANUFACTU RING	No. of days/per week class allotted: 03	Semester From date: 22/12/2025 To Date: 18/04/2026 No. of Weeks: 15
Week	Class Day	Theory Topics
1 ST	1 ST	Concept of Computer Integrated Manufacturing (CIM);
	2 ND	Basic components of CIM;
	3 RD	Distributed database system;
2 ND	1 ST	Distributed communication system
	2 ND	Distributed communication system
	3 RD	Computer networks for manufacturing
3 RD	1 ST	Computer networks for manufacturing
	2 ND	Future automated factory;
	3 RD	Social and economic factors
4 TH	1 ST	Revision & question discussion.
	2 ND	Computer Aided Design (CAD):
	3 RD	CAD hardware and software;
5 TH	1 ST	Product modelling,
	2 ND	Automatic drafting;
	3 RD	Automatic drafting;
6 TH	1 ST	Engineering analysis;
	2 ND	FEM design review and evaluation;
	3 RD	FEM design review and evaluation;
7 TH	1 ST	Group technology centre.
	2 ND	Revision & question discussion.
	3 RD	Computer Aided Manufacturing (CAM),
8 TH	1 ST	Computer assisted NC part programming for plain turning and step turning;
	2 ND	Computer assisted NC part programming for plain turning and step turning;
	3 RD	Computer assisted robot programming;
9 TH	1 ST	Computer assisted robot programming;
	2 ND	computer aided process planning (CAPP)

	3 RD	computer aided material requirements planning (MRP)
10 TH	1 ST	Revision & question discussion.
	2 ND	Computer aided production scheduling;
	3 RD	Computer aided production scheduling;
11 TH	1 ST	computer aided inspection planning;
	2 ND	computer aided inspection planning;
	3 RD	computer aided inventory planning,
12 TH	1 ST	computer aided inventory planning,
	2 ND	Flexible manufacturing system (FMS); concept of flexible manufacturing.
	3 RD	Flexible manufacturing system (FMS); concept of flexible manufacturing.
13 TH	1 ST	Flexible manufacturing system (FMS); concept of flexible manufacturing.
	2 ND	Revision & question discussion.
	3 RD	Integrating NC machines, robots, agvs, and other NC equipment;
14 TH	1 ST	Integrating NC machines, robots, agvs, and other NC equipment;
	2 ND	Computer aided quality control;
	3 RD	Computer aided quality control;
15 TH	1 ST	Business functions, computer aided forecasting;
	2 ND	Office automation
	3 RD	Revision & question discussion.

REFERENCES:

1. CAD, CAM, CIM by P. Radhakrishnan and S. Subramanyan, New Age International Publishers.
2. Computer Integrated Manufacturing by Paul G. Rankey, Prentice Hall.
3. Robotics Technology and Flexible Automation – S.R. Deb, TMH

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