

SYNERGY SCHOOL OF ENGINEERING, DHENKANAL



Name of the Faculty: SOMANATH SETHY

Discipline : Mechanical Engineering

Semester :4th Summer-2026

Subject: Computer Int.Manufacturing (CIM)-TH3

Starting Date :22/12/25 End Date:18/04/26

No of days per Week-03 Total No Of Period-45

Lesson Plan

Week	Theory	
	Lecture Day	Topic (Including assessment/test)
1 st	1 st	Concept of Computer Integrated Manufacturing (CIM).
	2 nd	Basic components of CIM.
	3 rd	Distributed database system. Distributed communication system,
2 nd	1 st	Computer networks for manufacturing.
	2 nd	Future automated factory. Social and economic Factor.
	3 rd	CLASS TEST-I
3 rd	1 st	Computer Aided Design (CAD)
	2 nd	CAD hardware and software.
	3 rd	Automatic drafting, Engineering analysis.
4 th	1 st	FEM design review and evaluation.
	2 nd	FEM design review and evaluation.

	3 rd	Hardware and software design review and evaluation
5 th	1 st	CLASS TEST-II
	2 nd	Computer Aided Manufacturing (CAM),
	3 rd	Computer assisted NC part programming
6 th	1 st	NC part programming for plain turning
	2 nd	NC part programming for step turning
	3 rd	computer aided process planning (CAPP)
7 th	1 st	Computer assisted robot programming;
	2 nd	Plain turning and step turning;
	3 rd	Computer aided material requirements planning (MRP)
8 th	1 st	CLASS TEST-III
	2 nd	Hardware and software .
	3 rd	Design review and evaluation.
9 th	1 st	Computer Aided Manufacturing (CAM).
	2 nd	Computer assisted NC part programming.
	3 rd	NC part programming for plain turning.
10 th	1 st	NC part programming for step turning.

	2 nd	Plain turning and step turning.
	3 rd	CLASS TEST-IV
11 th	1 st	Introduction of NC Machine.
	2 nd	Integrating NC machines, robots
	3 rd	Explain of AGVs
12 th	1 st	NC equipment and Describe of NC.
	2 nd	Explain different types of NC.
	3 rd	Intoduction of Quality control
13 th	1 st	Computer aided quality control.
	2 nd	Business functions.
	3 rd	Explain different types of business function.
14 th	1 st	Introduction of fore casting.
	2 nd	Computer aided forecasting.
	3 rd	Office Automation.
15 th	1 st	Integrating NC machines,
	2 nd	Robots and Robotics.
	3 rd	CLASS TEST-V

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Verified by HOD

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SOMANATH SETHY

Lect., Mechanical Engg.