

LESSON PLAN (Summer-2026)

VENUS GROUP OF EDUCATIONAL & RESEARCH INSTITUTES, BAHANAGA, BALASORE-756042

Discipline: Mechanical Engg.	Semester: 4th	Name of the Teaching Faculty: MANORANJAN PATRA
Subject: Computer integrated manufacturing	No. of days per week class allotted: 5	Semester From date: 22.12.2025 To date: 18.04.2026 No. of Weeks: 15
Week No.	Class Day	Theory/Practical Topics
1st	1st	Concept of Computer Integrated Manufacturing (CIM)
	2nd	Basic components of CIM
	3rd	Basic components of CIM
2nd	1st	Distributed database system
	2nd	distributed communication system
	3rd	computer networks for manufacturing
3rd	1st	future automated factory
	2nd	social and economic factors
	3rd	CAD hardware and software
4th	1st	product
	2nd	modelling, automatic drafting
	3rd	engineering analysis
5th	1st	FEM design review and evaluation
	2nd	FEM design review and evaluation;
	3rd	Group Technology Centre
6th	1st	Group Technology Centre
	2nd	Computer Aided Manufacturing (CAM)
	3rd	Computer Aided Manufacturing (CAM)

7th	1st	Computer assisted NC part programming for plain turning and step turning
	2nd	Computer assisted NC part programming for plain turning and step turning
	3rd	Computer assisted robot programming
8th	1st	computer aided process planning (CAPP)
	2nd	computer aided process planning (CAPP)
	3rd	computer aided material requirements planning (MRP)
9th	1st	computer aided material requirements planning (MRP)
	2nd	Computer aided production scheduling
	3rd	Computer aided production scheduling
10th	1st	computer aided inspection planning
	2nd	computer aided inspection planning
	3rd	computer aided inventory planning, Flexible manufacturing system (FMS
11th	1st	computer aided inventory planning, Flexible manufacturing system (FMS
	2nd	concept of flexible manufacturing
	3rd	concept of flexible manufacturing
12th	1st	Integrating NC machines, robots, AGVs, and other NC equipment
	2nd	Integrating NC machines, robots, AGVs, and other NC equipment
	3rd	Computer aided quality control
13th	1st	Computer aided quality control
	2nd	business functions, computer aided forecasting
	3rd	Business functions, computer aided forecasting
14th	1st	Office automation
	2nd	Office automation
	3rd	REVISION 1st & 2nd module
15th	1st	Revision 3rd & 4th module
	2nd	Revision 5th module
	3rd	Class test