

# GOVERNMENT POLYTECHNIC SONEPUR

## DEPARTMENT OF MECHANICAL ENGINEERING



### LESSON PLAN

FACULTY: Er PRABIR KUMAR SWAIN

ACADEMIC SESSION: 2025-26(S)

SUBJECT: COMPUTER INTEGRATED MANUFACTURING (TH-3)

SEMESTER & SECTION: 4<sup>TH</sup>

  
H.O.D (Mechanical)

Govt. Polytechnic, Sonapur

Discipline: Mechanical Engg.		Semester:4 <sup>th</sup>		Name of the Teaching Faculty: PRABIR KUMAR SWAIN Designation: Lecturer S-II(MECHANICAL)	
Subject: COMPUTER INTEGRATED MANUFACTURING (Th.3)		No. of days/week class allotted:03 (TUE, WED, FRI)		Semester From date: 22.12.2025 To date: 18.04.2026 No. of weeks: 17 Total class: 40	
Week	Class Day		Theory Topics		
1 <sup>ST</sup>	22.12.2025	1 <sup>st</sup>	Syllabus discussion and introduction to CIM		
	26.12.2025	2 <sup>nd</sup>	Concept of Computer Integrated Manufacturing (CIM), Basic components of CIM		
2 <sup>ND</sup>	29.12.2025	1 <sup>st</sup>	Distributed database system, distributed communication system		
	02.01.2026	2 <sup>nd</sup>	computer networks for manufacturing		
	03.01.2026	3 <sup>rd</sup>	future automated factory, social and economic factors.		
3 <sup>RD</sup>	05.01.2026	1 <sup>st</sup>	Class test-1		
	09.01.2026	2 <sup>nd</sup>	Computer Aided Design (CAD): CAD hardware and software		
4 <sup>TH</sup>	12.01.2026	1 <sup>st</sup>	Modeling , automatic drafting		
	16.01.2026	2 <sup>nd</sup>	engineering analysis; FEM design review and evaluation		
5 <sup>TH</sup>	17.01.2026		Group Technology Centre.		
	19.01.2026	1 <sup>st</sup>	Class test-2		
6 <sup>TH</sup>	30.01.2026	1 <sup>st</sup>	Computer Aided Manufacturing (CAM), Computer assisted NC part programming		
	31.01.2026	2 <sup>nd</sup>	programming for plain turning		
7 <sup>TH</sup>	02.02.2026	1 <sup>st</sup>	programming for plain turning		
	06.02.2026	2 <sup>nd</sup>	programming for plain turning		

	07.02.2026	3 <sup>rd</sup>	programming for step turning
8 <sup>TH</sup>	09.02.2026	1 <sup>st</sup>	programming for step turning
	13.02.2026	2 <sup>nd</sup>	programming for step turning
	16.02.2026	1 <sup>st</sup>	Computer assisted robot programming ,computer aided process
9 <sup>th</sup>	20.02.2026	2 <sup>nd</sup>	Computer assisted robot programming, computer aided process
	21.02.2026	3 <sup>rd</sup>	Computer assisted robot programming, computer aided process
	23.02.2026	1 <sup>st</sup>	planning (CAPP); computer aided material requirements planning (MRP
10 <sup>TH</sup>	27.02.2026	2 <sup>nd</sup>	planning (CAPP); computer aided material requirements planning (MRP
	02.03.2026	1 <sup>st</sup>	Class test-3
11 <sup>TH</sup>	06.03.2026		Computer aided production scheduling
	07.03.2026		computer aided inspection planning
	09.03.2026	1 <sup>st</sup>	computer aided inventory planning,
12 <sup>th</sup>	13.03.2026	2 <sup>nd</sup>	Flexible manufacturing system (FMS)
	16.03.2026	1 <sup>st</sup>	concept of flexible manufacturing.
13 <sup>TH</sup>	19.03.2026	2 <sup>nd</sup>	Integrating NC machines, robots, AGVs
	20.03.2026	3 <sup>rd</sup>	Integrating NC machines, robots, AGVs
	23.03.2026	1 <sup>st</sup>	Integrating NC machines, robots, AGVs
14 <sup>th</sup>	30.03.2026	1 <sup>st</sup>	NC equipment
15 <sup>th</sup>	04.04.2026		Computer aided quality control; business functions
	06.04.2026	1 <sup>st</sup>	Computer aided quality control; business functions

16 <sup>th</sup>	10.04.2026	2 <sup>nd</sup>	computer aided forecasting; office automation
17 <sup>th</sup>	13.04.2026	1 <sup>st</sup>	Revision
	17.04.2026	2 <sup>nd</sup>	Revision
	18.04.2026	3 <sup>rd</sup>	revision
			<b>TOTAL NO OF CLASS-40</b>

Prepared by: *Prabir Kumar Swain* 12.25

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