

Name of the Institute:	R.K. INSTITUTE OF ENGG. & TECH.	
Department:	Mechanical Engineering	
Semester:	4 th SEM.	
Subject Name with code:	COMPUTER-INTEGRATED MANUFACTURING TH:3	
Total No. of Class (Required):	45	FROM-22/12/2025 TO-18/04/2026
Faculty Name:	Mr. DEBASIS DASH	

Class No.	Brief Description of the Topic/Chapter to be taught	Remarks
1	Concept of Computer Integrated Manufacturing (CIM);	
2	Basic components of CIM; Distributed database system;	
3	Basic components of CIM; Distributed database system;	
4	distributed communication system, computer networks for manufacturing;	
5	distributed communication system, computer networks for manufacturing;	
6	future automated factory;	
7	future automated factory;	
8	social and economic factors.	
9	social and economic factors.	
10	Revision	
11	Computer Aided Design (CAD):	
12	CAD hardware and software;	
13	product modelling, automatic drafting;	
14	product modelling, automatic drafting;	
15	engineering analysis;	
16	engineering analysis;	
17	FEM design review and evaluation;	
18	FEM design review and evaluation;	
19	Group Technology Centre.	
20	Group Technology Centre.	
21	Computer Aided Manufacturing (CAM)	
22	Computer assisted NC part programming for plain turning and step turning;	
23	Computer assisted NC part programming for plain turning and step turning;	
24	computer assisted robot programming;	
25	computer aided process planning (CAPP);	
26	computer aided process planning (CAPP);	

27	computer aided material requirements planning (MRP)	
28	computer aided material requirements planning (MRP)	
29	Computer aided production scheduling;	
30	computer aided inspection planning;	
31	computer aided inspection planning;	
32	computer aided inventory planning, Flexible manufacturing system (FMS);	
33	computer aided inventory planning, Flexible manufacturing system (FMS);	
34	concept of flexible manufacturing.	
35	concept of flexible manufacturing.	
36	Revision	
37	Integrating NC machines, robots, AGVs, and other NC equipment;	
38	Integrating NC machines, robots, AGVs, and other NC equipment;	
39	Computer aided quality control;	
40	Computer aided quality control;	
41	business functions, computer aided forecasting;	
42	business functions, computer aided forecasting;	
43	office automation	
44	Revision	
45	Revision	

D. S. S. S.
HOD
MECHANICAL

T. Dash
SUBJECT
EXPERT