

MM 569 Computer Integrated Manufacturing				MECHANICAL ENGINEERING DEPARTMENT					
Semester	Methods of Education							Credits	
	Lecture	Recit.	Lab.	Project/Field Study	Homework	Other	Total	Credit	ECTS credit
1,2	32	10			20	126	188	3	7.5
Language	Turkish								
Compulsory / Elective	Optional								
Prerequisites	-								
Course Contents	Manufacturing stages of a product by using computer-aided design and manufacturing (CAD/CAM) systems, the scope of computer-integrated manufacturing (CIM), fundamentals of computer-aided design (CAD), group technology, computer aided process (production) planning (CAPP), integrated manufacturing planning and control, manufacturing control (computer control and numerical control), developing a CIM strategy (technology issues, fundamentals of networking, development of a successful strategy).								
Course Objectives	To teach computer integrated manufacturing principles and to introduce new approaches applied to manufacturing systems to obtain better performance measures								
Learning Outcomes and Competences	To be familiar with the trends in computer integrated manufacturing and basics of machine-computer interfaces								
Textbook and /or Reference	M. P. Groover, Automation, production Systems and Computer Integrated Manufacturing, Prentice Hall, 1987, ISBN: 0-13-054610-0 T. C. Chang, R. A. Wysk and H. P. Wang, Computer Aided Manufacturing, Prentice Hall, 1991, ISBN: 0-13-161571-8.								
Assessment Criteria					If any, mark as (X)		Percentage (%)		
	Midterm Exams				X		40		
	Quizzes								
	Homeworks								
	Projects								
	Term Paper				X		20		
	Laboratory Work								
	Other								
	Final Exam				X		40		
Instructors									
Week	Subject								
1	Manufacturing stages of a product by using computer-aided design and manufacturing (CAD/CAM) systems,								
2	The scope of computer-integrated manufacturing (CIM),								
3	Fundamentals of computer-aided design (CAD)								
4	Group technology								
5	Group technology								
6	Group technology								
7	Computer aided process (production) planning (CAPP)								
8	Computer aided process (production) planning (CAPP)								
9	Integrated manufacturing planning and control, manufacturing control (computer control and numerical control),								
10	Developing a CIM strategy, technology issues,								
11	Fundamentals of networking, development of a successful strategy								
12	Fundamentals of networking, development of a successful strategy								
13	Fundamentals of networking, development of a successful strategy								
14	Fundamentals of networking, development of a successful strategy								