

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Industrial Engineering (English)

Course Information

COMPUTER INTEGRATED PRODUCT DESIGN					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
INE313	Fall	3	0	3	4

Prerequisites and co-requisites	none
Language of instruction	English
Type	Elective
Level of Course	Bachelor's
Lecturer	Asst. Prof. Fikri EGE
Mode of Delivery	Face to Face
Suggested Subject	none
Professional practise (internship)	None
Objectives of the Course	To transfer the theoretical and practical knowledge about the computer integrated manufacturing systems to the students. To explain the main knowledges in the computer integrated manufacturing systems.
Contents of the Course	Introduction to Computer Integrated manufacturing (CIM), Computer Aided Data Base Systems, Network Topologies, Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), CAD-CAM Systems, Flexible Manufacturing Systems, Material Handling Systems in CIM, Computer Aided Inspection and Test, Automatic Storage and Retrieval Systems.

Learning Outcomes of Course

#	Learning Outcomes
1	Student can have ability to apply theoretical and practical knowledge of mathematics, science and industrial engineering in order to solve industrial engineering problems.
2	Student have ability to analyze, design, and interpretation of integrating systems that includes men, machine, material, knowledge and energy.
3	Student can have ability to function effectively in single- disciplinary and multi-disciplinary teams.
4	

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to CIM	Lecturing
2	Introduction to CIM	Lecturing
3	CAD-CAM Systems	Lecturing
4	CAD-CAM Systems	Lecturing
5	CAD softwares	Lecturing
6	CAD softwares	Lecturing
7	CAD softwares	Lecturing
8	Midterm	Exam
9	CAM	Lecturing
10	CAM	Lecturing

11	CAM	Lecturing
12	CAM	Lecturing
13	Material Handling in CIM	Lecturing
14	Material Handling in CIM	Lecturing
15	Material Handling in CIM	Lecturing
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	BEDWORTH, D.D., HENDERSON, M.R., WOLFE, P.M., Computer-Integrated Design and Manufacturing, McGraw-Hill, 1991. GROOVER, M.P., Automation, Production Systems and CIM, Prentice-HALL, 1987.		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Student can have ability to apply theoretical and practical knowledge of mathematics, science and industrial engineering in order to solve industrial engineering problems.	1	1,2
2	Student have ability to analyze, design, and interpretation of integrating systems that includes men, machine, material, knowledge and energy.	2	1,2
3	Student can have ability to function effectively in single- disciplinary and multi-disciplinary teams.	3	1,2
4			

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	3	42
3	Presentation and Seminar Preparation	1	6	6
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	0	0	0
8	Midterm Exam	0	0	0
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0

13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	0	0	0
16	Final Exam	0	0	0
				90