

TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Industrial Engineering (English)

Course Information

MANUFACTURING PROCESS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
INE312	Spring	3	0	3	4

Prerequisites and co-requisites	None
Language of instruction	English
Type	Elective
Level of Course	Bachelor's
Lecturer	Prof. Dr. Yusuf ZEREN
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	Introduce to students production systems in a structure that combines theory and practice to teach the basic subjects.
Contents of the Course	Introduce Production Systems, Modern Manufacturing Systems, Transfer line, NC, CNC, DNC, AC Machining tools, machinin centers, CAD-CAM, Industrial Robots, material handling systems, Flexible manufacturing systems, group technology and cellular manufacturing

Learning Outcomes of Course

#	Learning Outcomes
1	Student knows basic concepts of production systems.
2	Student gains the ability of thinking on the basic concepts of production systems.
3	Student knows the conceps about production systems in enterprises.
4	

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to production systems	Lecturing
2	Modern manufacturing systems	Lecturing
3	Transfer Lines	Lecturing
4	NC, CNC, DNC, AC machines	Lecturing
5	Machining centers	Lecturing
6	CAD-CAM	Lecturing
7	Midterm	Exam
8	Industrial robots	Lecturing
9	Material handling and storage	Lecturing
10	Flexible manufacturing systems	Lecturing
11	Group technology and cellular manufacturing	Lecturing
12	Seminar on issues	Lecturing

13	Seminar on issues	Lecturing
14	Seminar on issues	Lecturing
15	Seminar on issues	Lecturing
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Groover, P.M., 'Automation, production systems, and computer integrated manufacturing', Prentice-Hall Inc. 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 knows basic concepts of production systems.	4	1,2
2	Student gains the ability of thinking on the basic concepts of production systems.	4	1,2
3	Student knows the concepts about production systems in enterprises.	4	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	0	0	0
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	1	6	6
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

