

# TOROS ÜNİVERSİTESİ

Faculty Of Engineering  
Industrial Engineering (English)

## Course Information

ERGONOMICS					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
INE203	Fall	2	2	3	5

<b>Prerequisites and co-requisites</b>	NONE
<b>Language of instruction</b>	English
<b>Type</b>	Required
<b>Level of Course</b>	Bachelor's
<b>Lecturer</b>	Yrd. Doç. Dr. Fikri EGE
<b>Mode of Delivery</b>	Face to Face
<b>Suggested Subject</b>	NONE
<b>Professional practise ( internship )</b>	None
<b>Objectives of the Course</b>	Teaching fundamental issues of ergonomics
<b>Contents of the Course</b>	Identify sources of adverse effects on health and environment, control OHSE risks to health or environment in organisations, understand concepts of physical ergonomics, concepts of cognitive ergonomics and human factors. Interpret ergonomics data. Prepare technical reports. Anticipate potential hazards to people, property and the environment. Apply concepts and theories from cognitive psychology to the study of work.

## Learning Outcomes of Course

#	Learning Outcomes
1	Student can develop the idea of ergonomics for interface design.
2	Student can evaluate the human factors for the design of 3 dimensional interactive mechanisms
3	Student can create applications and projects based on analogue interactions
4	Student can evaluate relevant resources

## Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to Human Factors and Ergonomics	Lecturing
2	Definition of human in terms of ergonomics	Lecturing
3	Human and performance	Lecturing
4	Physical work - Static work - Dynamic work	Lecturing
5	Human and energy requirement	Lecturing
6	Position of the body - energy relationship	Lecturing
7	Midterm	Exam
8	Mental Activities	Lecturing
9	Breaks	Lecturing
10	Air Conditioning	Lecturing
11	Noise	Lecturing

12	Mechanical vibrations	Lecturing
13	Hazardous substances and other environmental affects in the working environment	Lecturing
14	Lifting - Handling - Application of force and moment	Lecturing
15	Review	Lecturing
16	Final Exam	

## Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Human Factors in Engineering and Design, Mark S. Sanders, Ernest J. McCormick, McGraw Hill 7th Edition		

## 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 develop the idea of ergonomics for interface design.	4	1,2
2	Student can evaluate the human factors for the design of 3 dimensional interactive mechanisms	2	1,2
3	Student can create applications and projects based on analogue interactions	1	1,2
4	Studentan evaluate relevant resources	9	1,2

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	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	1	14
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	14	3	42
7	Preparation for Midterm Exam	1	1	1
8	Midterm Exam	1	2	2
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	1	10	10
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	1	1
16	Final Exam	1	2	2

