

# 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	6

<b>Prerequisites and co-requisites</b>	
<b>Language of instruction</b>	English
<b>Type</b>	Required
<b>Level of Course</b>	Bachelor's
<b>Lecturer</b>	Asst. Prof. 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>	1. Introduction to Human Factors and Ergonomics 2. Definition of the person in terms of ergonomics 3. Human and performance 4.Physical work - Static work - Dynamic work 5.Human and energy requirements 6.Body position - energy relation Ventilation 10. Noise 11. Mechanical vibrations 12. Hazardous substances and other environmental effects in the working environment 13. Removal - Handling - Force and moment application

## 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	2	28
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	9	9
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

