TOROS ÜNİVERSİTESİ

Faculty Of Engıneerıng
Industrıal Engıneerıng (Englısh)

Course Information

ERGONOMICS					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
INE203	Fall	2	2	3	6

Prerequisites and co-requisites	NONE
Language of instruction	English
Type	Required
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	Teaching fundamental issues of ergonomics
Contents of the Course	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	Studentan evaluate relevant resources

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to Human Factors and Ergonomics	Synchronous
2	Human Physiology	Synchronous
3	Anthropometry	Synchronous
4	Visual Environment and Lighting	Synchronous
5	Auditory Environment and Noise	Synchronous
6	Auditory Environment and Noise	Synchronous
7	Midterm	Exam
8	Heat Stress	Synchronous
9	Human Information Processing Model	Synchronous
10	Perception	Synchronous
11	Memory	Synchronous

12	Response Selection	Synchronous
13	Decision Making	Synchronous
14	Problem Solving	Synchronous
15	Summary and Examples	Synchronous
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

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