



T.C. ESKİŞEHİR OSMANGAZI UNIVERSITY  
ARCHITECTURE AND ENGINEERING FACULTY  
MECHANICAL ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

SEMESTER Spring

COURSE CODE	151816325/151836325	COURSE NAME	Ergonomics
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAG E
6	3	0	0	3	3	COMPULSORY ( ) ELECTIVE ( x )	Turkish

COURSE CATAGORY

Basic Science	Basic Engineering	Engineering Subjects [if it contains considerable design, mark with (√) ]	Social Science
	X	(X )	

ASSESSMENT CRITERIA

	Evaluation Type	Quantity	%
MID-TERM	Mid-Term	1	40
	Quiz		
	Homework		
	Project		
	Report		
	Others (.....)		
FINAL EXAM		1	60

PREREQUIEITE(S)

COURSE DESCRIPTION

Machine-human relations; biological and anthropometric characteristics of human; the appropriate machine and tool manufacturing of human characteristics; the basic rules of work regulation; working conditions

COURSE OBJECTIVES

The regulation of work place, machines, tools and devices, control and display elements; work conditions; the establishment of work organization

ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION

To ensure harmless, feasible and sufferable work conditions in working life

COURSE OUTCOMES

1. Understand the importance of ergonomics
2. Determine the appropriate machine and work tool production of human characteristics.
3. Determine the impact of environmental factors on the working life.
4. Learn the ergonomic arrangement of work places
5. Ability to design ergonomic work tools and devices.

TEXTBOOK

Mühendisler için Ergonomi İşbilim Fatih C.Babalık Nobel Yayın Dağıtım

OTHER REFERENCES

TOOLS AND EQUIPMENTS REQUIRED

COURSE SYLLABUS	
WEEK	TOPICS
1	The definition and importance of ergonomics
2	Work criterias in terms of ergonomics
3	Basic information about Anthropometry
4	Work based on energy
5	The influence of environmental factors to the work life
6	Noise and vibration
7	Lighting and stress
8	Mid-Term Examination
9	Mid-Term Examination
10	Human-machine interaction in work systems
11	Coordinate the ergonomic work and workplaces
12	Ergonomic work tools and devices
13	A variety of work arrangements
14	Work life and safety
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering problems.			X
2	Ability to determine, define, formulate and solve complex engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods.			X
3	Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods.			X
4	Ability to develop, select and use modern methods and tools required for engineering applications; ability to effective use of information technologies.	X		
5	In order to investigate engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.			X
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.	X		
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.	X		
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.	X		
9	Understanding of professional and ethical issues and taking responsibility		X	
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.	X		
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.	X		
1:None. 2:Partially contribution. 3: Completely contribution.				

Prepared by: Yrd. Doc. Dr. Çisil TİMURALP

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Signature(s):