

HUMAN FACTORS ENGINEERING

1	Course Title:	HUMAN FACTORS ENGINEERING	
2	Course Code:	END5532	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	7.50	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. TÜLİN GÜNDÜZ	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	tozalp@uludag.edu.tr, 0-224-2942090, Endüstri Müh. Bölümü Oda No:302 Görükle Bursa	
17	Website:	http://www20.uludag.edu.tr/~tozalp	
18	Objective of the Course:	The aim of the course, starting from the knowledge of human factors and system design of the workplace, make students aware of issues such as environmental factors, anthropometry and workplace design.	
19	Contribution of the Course to Professional Development:	Gain knowledge and skills which are necessary to become scientist-practitioners of ergonomics and workplace ergonomics	
20	Learning Outcomes:		
		1	Be aware of process of technology transfer within the organization.
		2	Knowledge of general business functions.
		3	Efficient use of manufacturing technology knowledge within the enterprise.
		4	Knowledge of general engineering functions.
		5	Having the capability of working across functional borders.
		6	Capable of implementing analytical decision-making techniques.
		7	Having the ability to apply theoretical knowledge.
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		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Human Factors and System.		
2	Data entry and processing.		
3	Text, graphics, symbols, and codes. Visual Representation of dynamic information.		

4	Visual, Auditory Display. Linguistic Communication. Physical Work and Physical Material Handling.	
5	Motor Skills System Control.	
6	Controls and data entry equipment.	
7	Hand Tools and Equipment. Applied Anthropometry.	
8	Workplace design and living. Layout of the components in the physical space.	
9	Interpersonal Aspects of Workplace Design. Environmental Factors: Lighting, Air Conditions.	
10	Noise and motion.	
11	Management of work-study, work-study techniques.	
12	Selection and measurement of the work.	
13	Determination of standard time.	
14	Human movement and motion information in the workplace	

22	Textbooks, References and/or Other Materials:	1. Human factors in engineering and design (7th ed.)Sanders, M. S. , & McCormick, E. J, New York: McGraw-Hill. , 1993.
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Activites		Number	Duration (hour)	Total Work Load (hour)
23	Assessment Theoretical	14	3.00	42.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Practicals/Labs		0	0.00	0.00
Self study and preparation		1	20.00	70.00
Homeworks		1	10.00	10.00
Project work-project		1	50.00	100.00
Field Studies		0	0.00	0.00
Midterm exams		3	10.00	1.50
Others		0	0.00	0.00
Success Grade Final Exams		1	1.50	1.50
Total Work Load				225.00
Total work load/ 30 hr		100.00		7.50
ECTS Credit of the Course				7.50

Course the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.

24	ECTS / WORK LOAD TABLE
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	1	2	3	2	3	1	1	0	0	0	0	0	0	0	0
ÖK2	1	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0
ÖK3	2	2	3	2	2	2	2	2	0	0	0	0	0	0	0	0

ÖK4	1	1	1	3	1	1	2	4	0	0	0	0	0	0	0	0
ÖK5	2	2	2	2	0	2	1	2	0	0	0	0	0	0	0	0
ÖK6	1	2	2	3	0	2	1	2	0	0	0	0	0	0	0	0
ÖK7	2	2	2	2	2	2	4	2	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			