

ERGONOMICS

1	Course Title:	ERGONOMICS
2	Course Code:	ISYS001
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. EMEL SELİMOĞLU
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği Öğretim Elemanları
16	Contact information of the Course Coordinator:	Öğr. Gör.Emel SELİMOĞLU emels@uludag.edu.tr U.Ü.Sosyal Bilimler Meslek Yüksekokulu 224 2615540 -60533
17	Website:	
18	Objective of the Course:	It is the understanding of the ways of ensuring the harmonization of machinery, environment and work with the emotional-physical-rational elements of human beings in all processes, both in production, design and service sector.
19	Contribution of the Course to Professional Development:	To be able to comprehend the ergonomic effects affecting working conditions
20	Learning Outcomes:	
	1	Understanding the definitions related to ergonomics
	2	Elements of ergonomics: - Human characteristics: Cognitive, emotional, physical - Human-machine relations: Control and control mechanisms - Working conditions: Posture and movements, load and strain, work and rest, work tension and fatigue, boredom, work energy and energy of work requirements - Environmental conditions: Learning about lighting, noise, vibration, temperature, humidity, air flow, order, cleanliness, color and decoration
	3	The relationship between ergonomics and work study: Method study, work measurement, efficiency, effectiveness and efficiency.
	4	Shaping workplaces ergonomically Physiologically shaping
	5	Shaping workplaces ergonomically To be able to shape them psychologically Informational shape
	6	Shaping workplaces ergonomically Organizational shaping Shaping in terms of safety

		7	Understanding the relationship between ergonomics and job design have knowledge about job rotation, job simplification	
		8	business expansion, have information about job enrichment	
		9	Understanding the ergonomic factors affecting working conditions	
		10	Understanding the ergonomic design of workplaces	
21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Definition and importance of ergonomics			
2	What are the elements of ergonomics? Human characteristics: Cognitive, emotional, physical - Human-machine relationships: Control and control mechanisms - Working conditions: Posture and movements, load and strain, work and rest, work tension and fatigue, boredom, work energy and energy requirements of jobs - Environmental conditions : Learning about lighting, noise, vibration, temperature, humidity, air flow, order, cleanliness, color and decoration			
3	What are the elements of ergonomics? Human characteristics: Cognitive, emotional, physical - Human-machine relationships:	Human characteristics: Cognitive, emotional, physical - Human-machine relationships: Control and control mechanisms - Working conditions: Posture and		
Activities		Number	Duration (hour)	Total Work Load (hour)
Theoretical requirements of jobs - Environmental conditions : Learning about lighting, noise, vibration, temperature, humidity, air flow, order, cleanliness, color and decoration		14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self study and preparation order, cleanliness, color and decoration		6	5.00	30.00
Homeworks		0	0.00	0.00
Projects measurement, efficiency, effectiveness and		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams The relationship between ergonomics and work study: Method study, work		1	8.00	8.00
Others		0	0.00	0.00
Final Exams Shaping workplaces ergonomically		1	10.00	10.00
Total Work Load				90.00
Total work load/ 30 hr Psychological shaping				3.00
ECTS Credit of the Course Organizational shaping				3.00
8	The relationship between ergonomics and job design job rotation, job simplification	The relationship between ergonomics and job design job rotation, job simplification		
9	Business expansion			
10	Job enrichment			
11	Ergonomic factors affecting working conditions	ergonomic factors affecting working conditions		
12	Ergonomic design of the workplaces	Ergonomic design of the workplaces		
13	Ergonomic design of the workplaces	Ergonomic design of the workplaces		
14	Article review	Application of article analysis		
22	Textbooks, References and/or Other Materials:			

23	Assesment	
TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.

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	2	0	2	0	1	0	2	3	0	2	1	0	0	4	0	0
ÖK2	1	0	2	0	2	0	0	1	0	0	3	0	3	0	0	0
ÖK3	2	0	0	0	4	0	0	2	0	0	2	0	0	0	0	0
ÖK4	4	0	1	0	4	0	2	0	1	0	0	2	0	0	3	0
ÖK5	1	0	3	0	0	4	0	3	0	2	0	5	1	0	0	1
ÖK6	2	0	0	0	1	0	0	3	0	2	0	4	0	0	0	0
ÖK7	2	0	1	0	0	3	0	0	0	4	0	1	0	0	0	0
ÖK8	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0
ÖK9	0	0	0	0	4	0	0	3	0	0	0	2	0	0	0	0
ÖK10	0	5	0	3	0	0	2	0	0	0	1	0	5	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							