

Year

Occupational Health and Safety Department / Occupational Health and Safety Department /

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
ISG 505	ERGONOMICS AND ENGINEERING	3.00	0.00	0.00	3.00	5.00
Course Detail						
Course Language	: Turkish					
Qualification Degree	: MasterWithoutThesis					
Course Type	: Optional					
Preconditions	: Not					
Objectives of the Course	: It is about understanding the ways to ensure that machinery, the environment, and the emotional, physical, and intellectual elements of work are harmonized in all processes, whether in production, design, or the service sector.					
Course Contents	: Definition of ergonomics, its importance, human factors and work efficiency, the relationship between ergonomics and occupational safety, ergonomic design of workplaces, ergonomic assessment in workplaces, industrial society and ergonomics, human-machine systems, ergonomics of humans, human work and characteristics, work organization, noise and vibration, climate, lighting, dust, workplace and its arrangement.					
Recommended or Required Reading	: Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.					
Planned Learning Activities and Teaching Methods	: Presentation, Speech, Q&A					
Recommended Optional Programme Components	:					
Instructors	: Inst. Dr. Yunus Kara					
Instructor's Assistants	:					
Presentation Of Course	: Distance Learning					
Update Date	: 2/6/2026 11:40:30 AM					
Dosya İndirilme Tarihi	: 2/6/2026					

Course Outcomes

Upon the completion of this course a student :

- 1 Can learn about ergonomic arrangements in the workplace in terms of work efficiency.
- 2 Can create ergonomic designs for different environments in terms of occupational safety and worker health.
- 3 Understand the importance of ergonomics for human health

Pre / Side Conditions

Course Code	Course Name	Condition	Teorical	Practice	Laboratory	Credits	ECTS
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Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*The Historical Development of Ergonomics, Ergonomics in the World and in Turkey			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.P:4-25	*Presentation, Speech, Q&A	Ö.Ç.3 Ö.Ç.3 Ö.Ç.3
2.Week	*Basic Concepts in Ergonomics			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.P:26-47	*Presentation, Speech, Q&A	Ö.Ç.3 Ö.Ç.3 Ö.Ç.3
3.Week	*Anatomy and Physiology of the Human Body			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.P:48-74	*Presentation, Speech, Q&A	Ö.Ç.2 Ö.Ç.3 Ö.Ç.2 Ö.Ç.3 Ö.Ç.2 Ö.Ç.3
4.Week	*Ergonomic Arrangement of the Workplace			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.P:75-102	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
5.Week	*Anthropometric Workplace Design			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayinevi.P:103-130	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
6.Week	*Ergonomic Workplace Design (Working Postures)			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:131-160	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
7.Week	*Physical Workplace Organization: Noise			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:161-189	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
8.Week	*ARA SINAV					
9.Week	*Physical Workplace Arrangement: Lighting			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.S:190-217	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
10.Week	*Physical Workplace Arrangement: Climate Control			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:218-245	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
11.Week	*Psychological Workplace Design			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:246-273	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
12.Week	*Knowledge-Based Workplace Organization			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:274-299	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
13.Week	*Security-Based Workplace Organization			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:300-327	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
14.Week	*Ergonomics in Occupational Diseases			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:328-353	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
15.Week	*Ergonomics in Work Organization			*Kaya, M. D. (2024). Ergonomi. Atatürk Üniversitesi Yayınevi.P:354-375	*Presentation, Speech, Q&A	Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3

Assesment Methods %
1 Ara Sınav (Bütünlemede Kullanılan) : 40.000
2 Final : 60.000

ECTS Workload			
Activities	Count	Time(Hour)	Sum of Workload
Vize	1	2.00	2.00
Final	1	2.00	2.00
Derse Katılım	14	3.00	42.00
Ders Öncesi Bireysel Çalışma	14	2.50	35.00
Ders Sonrası Bireysel Çalışma	14	3.00	42.00
Ara Sınav Hazırlık	1	7.00	7.00
Final Sınavı Hazırlık	1	9.00	9.00
Tartışmalı Ders	14	1.00	14.00
Teorik Ders Anlatım	14	1.00	14.00
			Total : 167.00
			Sum of Workload / 30 (Hour) : 6
			ECTS : 5.00

Ders/Program Çıktıları İlişkisi

BEWARE OF PLAGIARISM! Please pay attention to proper academic citation rules and avoid plagiarism, an unethical and academically fraudulent behavior, when completing reports, assignments, or other academic works, and it is treated with the same disciplinary action as cheating in a classroom setting. It is imperative to refrain from presenting another person's ideas, language, expressions, or any other form of intellectual property as your own. Regardless of quality, your assignments/projects/research should reflect your original work. Perfection is not a requirement, and in case of any uncertainties regarding academic writing guidelines, you may seek clarification from your course instructor.

Engel Durumu/Uyarlama Talebi : Engel durumuna ilişkin herhangi bir uyarılama talebinde bulunmak isteyen öğrenciler, dersin öğretim elemanı ya da Nevşehir Engelli Öğrenci Birimi ile en kısa sürede iletişime geçmelidir.