

**OSTİM TECHNICAL UNIVERSITY
COMMON COURSES DEPARTMENT
COURSE SYLLABUS FORM
2025-2026 FALL**

EHS 101 Occupational Health and Safety							
Course Name	Course Code	Period	Hours	Application	Laboratory	Credit	ECTS
Occupational Health and Safety	EHS 101	1	2	0	0	2	2

Language of Instruction	English
Course Status	Compulsory
Course Level	Bachelor
Learning and Teaching Techniques of the Course	Lecture, Discussion, Question Answer

Course Objective
<p>This course includes occupational health and safety and occupational health and safety culture, national occupational health and safety system, occupational health and safety approach and legislation, occupational health and safety services to be performed by the employer, occupational accident and occupational disease concept and costs, occupational health and will present an overview of issues such as risk factors in safety, individual and organizational factors, records to be kept in occupational health and safety. In this course, students will explore the occupational health and safety issues of various types of works.</p>

Learning Outcomes
<p>The students who succeeded in this course will be able to;</p> <ul style="list-style-type: none"> • define occupational health and safety, • explain the purpose of occupational health and safety, • reveal the historical development of occupational health and safety before, during and after the Industrial Revolution, and historical development in the pre-Republic and Republic Periods, • explain the Occupational Health and Safety Law No. 6331 • comprehend employment contract and its types, • get information about the termination methods of the employment contract, and have information about working and rest periods • understand physical, chemical, biological risk factors, • learn the details of the types of physical, chemical and biological risk factors, • explain the effects of physical, chemical and biological risk factors on humans, and learn ways to avoid those factors. • gain knowledge on occupational diseases, and protection methods from occupational diseases

- classify occupational accidents, learn the causes of accidents at work,
- know the rights of employers and prepare an accident report by doing an occupational accident
- understand the difference between risk assessment and risk analysis,
- understand when the risk assessment will be done by whom,
- see how documentation will be created in risk assessment,

Course Outline

In this course; Occupational Health and Safety Approach will be thought and students will have knowledge on historical development of Occupational Health and Safety both internationally and in Turkey. Basic concepts of Labor Law, concept and types of employment contracts, working times, right to rest and vacation will be discussed. Physical, chemical, biological risk factors will be given. Occupational diseases and accidents will also be thought. Personal protective equipments, risk assessment subjects will also be covered by the course.

Weekly Topics and Related Preparation Studies

Weeks	Topics	Preparation Studies
1	Definition and History of Occupational Health and Safety	Occupational Health and Safety Approach Historical Development of Occupational Health and Safety Historical Development of Occupational Health and Safety Historical Development of Occupational Health and Safety in Turkey
2	Labor law and regulations	Basic Concepts of Labor Law Types of Employment Contract Terms of Employment Contract Termination of Employment Contract Working Times Right to Rest and Vacation
3	Physical Risk Factors	The Effects of Physical Risk Factors on People Ways to Avoid Physical Risk Factors
4	Health and Safety Measures in Working with Chemical Substances	Employer's Liability Properties of Chemicals (Chemical Hazards) Material Safety Data Sheet Storage and Labeling of Chemical Wastes
5	Biological Risk Definition	Jobs That May Be Exposed To Biological Risks Identification and Evaluation of Risks Measures to be Taken Against Risks
6	Ergonomics	Aims of Ergonomics Scope and Goals of Ergonomics Environmental Factors Noise Vision and Lighting Vibration Climate Ventilation
7	Emergency	Emergency Legislation Emergency Planning

		Preparation of Emergency Plan Writing Phase of the Emergency Plan Implementation of Emergency Plan
8	Revision	Revision
9	Midterm Exam	Midterm Exam
10	Occupational Accidents	Classification of Accidents at Work Causes of Accidents at Work Employee's Right to Avoid Work Registration and Notification of Occupational Accidents and Diseases
11	Occupational Diseases	Definition of Occupational Diseases Historical Development of Occupational Diseases Characteristics of Occupational Diseases, Diagnostic Criteria and Prevention Methods Classification of Occupational Diseases
12	Working Environment Surveillance	Working Environment Surveillance and Scope Duties of Occupational Health and Safety Institutions Ambient Measurements Records and Statistics of Working Environment Surveillance
13	Personal Protective Equipment (PPE)	Basic Health and Safety Requirements Personal Protective Equipment List Personal Protective Equipment Selection Criteria PPE Six Selection Method Personal Protective Equipment Usage Criteria
14	Risk Assessment	Basic concepts Risk Assessment Process Risk Assessment Team and Documentation
15	Occupational Health and Safety in various works	Electrical works Construction works Mining ect.
16	Final Exam	Final Exam

Textbook(s)/References/Materials:

Tuna, M. Emin (2021), *Occupational Health and Safety For Engineers and Architects*, Tuna Kültür ve Eğitim Vakfı.
Risk Med Akademi, (2012), *Yeni Mevzuat Işığında İş Sağlığı ve Güvenliği Temel Bilgileri*, Risk Med Akademi Yayınları.
Koradecka, D., (2010), *Handbook of Occupational Safety and Health*, CRC Press: Taylor&Francis Group.
Atatürk Üniversitesi (2019), *İş Sağlığı ve Güvenliği*, Atatürk Üniversitesi Açık Öğretim Fakültesi Yayını.

Assessment

Studies	Number	Contribution margin (%)
Continuity		
Lab		
Application		
Field Study		
Course-Specific Internship (if any)		

Quizzes / Studio / Critical		
Homework		
Presentation		
Projects		
Report		
Seminar		
Midterm Exams / Midterm Jury	1	40%
General Exam / Final Jury	1	60%
	Total	100
Success Grade Contribution of Semester Studies		40
Success Grade Contribution of End of Term		60
	Total	100

Relationship Between Course Learning Outcomes and Program Competencies						
Nu	Learning Outcomes	Contribution Level				
		1	2	3	4	5
1	Upon successful completion of this course, students will be able to:					X
2	Define the fundamental concepts, principles, and terminology of occupational health and safety (OHS).					X
3	Identify the legal framework of OHS in Turkey and compare it with key international standards and conventions.					X
4	Explain employer and employee responsibilities regarding workplace safety, health, and risk prevention.					X
5	Analyse case studies of occupational accidents and diseases to determine underlying causes and consequences.					X
6	Recognize and categorize physical, chemical, biological, and psychosocial risk factors in different workplace environments.					X
7	Apply basic risk assessment methods to evaluate hazards and propose preventive measures.					X
8	Interpret workplace records, documentation, and reporting requirements related to OHS.					X
9	Evaluate safety practices and procedures across various sectors such as construction, manufacturing, and office settings.					X
10	Develop strategies for accident prevention, emergency response, and workplace safety culture promotion.					x

ECTS / Workload Table			
Activities	Number	Duration (Hours)	Total Workload
Course hours (Including the exam week: 16 x total course hours)	16	2	32
Laboratory			
Application			
Course-Specific Internship			
Field Study			
Study Time Out of Class	16	1	16

Presentation / Seminar Preparation			
Projects			
Reports			
Homework			
Quizzes / Studio Review			
Preparation Time for Midterm Exams / Midterm Jury	1	1	1
Preparation Period for the Final Exam / General Jury	1	1	1
Total Workload	(57/25 = 2,00)		50