OSTIM TECHNICAL UNIVERSITY
FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES
MANAGEMENT INFORMATION SYSTEMS DEPARTMENT
COURSE SYLLABUS FORM

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

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.

Learning Outcomes

The students who succeeded in this course will be able to;

- 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

investigation.

- Understand the concept and scope of work environment surveillance,
- learn by whom and how work environment surveillance is carried out,
- learn how important the working environment is in terms of occupational health and safety
- distinguish what is personal protective equipment,
- comprehend how to choose personal protective equipment in the right protection class in order to take protective measures,
- learn what to pay attention to when using personal protective equipment.
- Be able to distinguish the concepts of danger and risk,
- learn about the risk assessment process,
- 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	Defination 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	Seminer	
8	**MIDTERM EXAM**	
9	Emergency	Emergency Legislation Emergency Planning Preparation of Emergency Plan Writing Phase of the Emergency Plan Implementation of Emergency Plan

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**	

Textbook(s)/References/Materials:
Textbook: • 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.
Supplementary References:
Other Materials:

Assessment		
Studies	**Number**	**Contribution margin (%)**
Attendance		
Lab		
Class participation and performance		
Field Study		
Course-Specific Internship (if any)		
Quizzes / Studio / Critical		
Homework		
Presentation		
Projects		
Report		
Seminar		
Midterm Exam/Midterm Jury	**1**	**40**
General Exam / Final Jury	**1**	**60**
Total		**100**
Success Grade Contribution of Semester Studies		**50**
Success Grade Contribution of End of Term		**50**
Total		**100**

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Course hours (Including the exam week): 16 x totalcourse hours)	16	2	32
Laboratory			
Application			
Course-Specific Internship (if any)			
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	5	5
Preparation Period for the Final Exam / General Jury	1	10	10
Total Workload	**(68/30 = 2,26)**		**68**

Course' Contribution Level to Learning Outcomes						
Nu	**Learning Outcomes**	**Contribution Level**				
		1	**2**	**3**	**4**	**5**
LO1	To learn imporatance of Occupational Health and Safety as a nontariff barrier in international trade					X

Relationship Between Course Learning Outcomes and Program Competencies (Department of Management Information Systems)								
Nu	**Program Competencies**	**Learning Outcomes**						**Total Effect (1-5)**
		LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**
1	Recognize and distinguish the basic concepts such as data, information, and knowledge in the field of Management Information Systems and know the processes to be followed for data acquisition, storage, updating, and security.							
2	Develop and manage databases suitable for collecting, storing, and updating data.							
3	As a result of his/her ability to think algorithmically, and easily find solutions to problems concerning basic business functions.							
4	Learn programming logic, and have information about current programming languages.							
5	Be able to use up-to-date programming languages.							
6	Be able to take part in teamwork or lead a team using knowledge of project management processes.	x						**2**
7	Know ethical and legal rules, and use professional field knowledge within the scope of ethical and legal rules.	x						**5**
8	Know the fundamental areas of business administration namely management and organization, production, finance, marketing, numerical methods, accounting, etc., and have the knowledge and skills to work in-depth in at least one of them.							
9	Be able to solve the problems encountered in the field of internet programming by designing web applications.							
10	Develop and manage logistics and supply chain management activities							
11	Adapt his/her theoretical knowledge and the experience he/she will gain through practice at the departments of businesses such as information technologies, R&D, and management to real life.	x						**1**
12	Be able to develop strategies that will provide a competitive advantage with his/her advanced knowledge of management strategies and management							

	functions.								
13	Develop a business idea, commercialize the business idea, and design and manage his/her venture using entrepreneurial knowledge.								
14	By using English effectively, they can follow, read, write, speak and communicate universal information in the field of management information systems in a foreign language with professional competence.	x							**2**
Total Effect									**10**

Policies and Procedures
Web page: https://www.ostimteknik.edu.tr/management-information-systems-english-1241/915
Exams: The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real-world phenomena, through analyzing the situation, distinguishing problems, and suggesting solutions. The written exams can be of two types, ie. open-ended questions, which can also be in the form of problems or multiple-choice questions.
Assignments: Quizzes and Homework (Assignments) might be applicable. Scientific Research Ethics Rules are very important while preparing assignments. The students should be careful about citing any material used from outside sources and reference them appropriately.
Missed exams: Any student missing an exam needs to bring an official medical report to be able to take a make-up exam.
Projects: A group project with teamwork is welcome.
Attendance: Attendance requirements are announced at the beginning of the term. Studentsare usually expected to attend at least 70% of the classes during each term.
Objections: If the student observes a material error in his/her grade, he/she has the right to place an objection to the Faculty or the Department. The claim is examined and the student is notified about its outcome.