DEPARTMENT OF CIVIL ENGINEERING
COURSE SYLLABUS

Course Details

Code	Academic Year			Semester
ISG001	4			Fall
Title	**T**	**A**	**L**	**ECTS**
Occupational Health and Safety I	2	0	0	2

Language	German					
Level	**Undergraduate**	✓	**Graduate**		**Postgraduate**	
Department / Program	Civil Engineering					
Forms of Teaching and Learning	Formal					
Course Type	**Compulsory**	✓	**Elective**			
Objectives	Basic theoretical knowledge in the field of occupational health and safety, along with the fundamental obligations outlined in the legislation, is taught. In particular, the duties, authorities, and responsibilities of the Naval Architect in the position of employer representative are comprehensively covered. The causes, consequences, and prevention of occupational accidents and diseases occurring in the shipbuilding industry are addressed in detail.					
Content	The conceptual framework of occupational health and safety (OHS), national and international standards, fundamental information on the causes, consequences, and prevention of occupational accidents and diseases are provided. Key regulations in our legislation on OHS, case studies, and Supreme Court decisions are analyzed. Additionally, occupational accidents in the shipbuilding industry are examined in detail, and necessary preventive measures are assessed.					
Prerequisites	None					
Coordinator	Dipl.-Ing. Joachim Kuntze					
Lecturer(s)	Dipl.-Ing. Joachim Kuntze					
Assistant(s)	None					
Work Placement	No					

Recommended or Required Reading

Books / Lecture Notes	Yılmaz, F., Occupational Health and Safety Textbook” Yelekçi, M., “Worker Health and Safety” Esin, A., "Occupational Health and Safety" Çelebi, U.B., "Occupational Health and Safety in Shipyard Textbook"
Other Sources	Yılmaz, F., Occupational Health and Safety Textbook” Yelekçi, M., “Worker Health and Safety” Esin, A., "Occupational Health and Safety" Çelebi, U.B., "Occupational Health and Safety in Shipyard Textbook"

Additional Course Material

Documents	
Assignments	

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Exams		

Course Composition

Mathematics und Basic Sciences		%
Engineering		%
Engineering Design		%
Social Sciences		%
Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge	100	%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz		
Assignments		
Attendance		
Recitations		
Projects		
Final Exam	1	60
	Total	**100**

ECTS Points and Work Load

Activity	Count	Duration	Work Load (Hours)
Lectures	14	2	28
Self-Study	12	2	24
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	2	2
Recitations			
Laboratory			
Projects			
Final Exam	1	2	2
		Total Work Load	**56**
		ECTS Points(Total Work Load / Hour)	**2**

Learning Outcomes

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1	Students will be able to define the basic concepts of occupational health and safety, interpret national and international regulations, and analyze the causes of occupational accidents and diseases, developing preventive measures accordingly.
2	Students will be able to analyze the causes of occupational accidents and diseases, and identify the necessary preventive measures to avoid such incidents.
3	Students will understand risk assessment, preventive measures, and safety culture, and will adopt this culture, gaining the ability to apply it in the field of occupational health and safety.
4	Students will be able to analyze the causes of occupational accidents in the shipbuilding industry and identify the necessary measures to prevent such accidents.
5	Students will understand the engineer's responsibilities in terms of occupational safety and will acquire the knowledge and skills to effectively implement these responsibilities.

Weekly Content

1	Theoretical framework, definitions and scope of occupational health and safety. Cost of occupational accidents and illnesses
2	Economical dimensions of occupational accidents and illnesses, importance of OHS for he enterprises
3	Analysis of the risky fields-sectors of Turkey in OHS
4	Causes of occupational accidents and illnesses: physical, ergonomic, chemical, biological, individual and psycho-social risks
5	Components of preventive OHS approach: Risk Assessment and Management, Ergonomic Precautions, Organizing the OHS Activities
6	Components of preventive OHS approach: OHSAS 18001 Management System, Training, Regular Sanitary Control ve Occupational Physician, OHS on employing process
7	National and international standartds and conventions in OHS. The legal arrangements concerned with OHS in Turkey: OHS in Acts
8	Midterm Exam
9	The definitions, scope and juridical results of employer, employee, employer agent, workplace, subcontractor, occupational accident, occupational illness.
10	The regulations and guidelines on OHS: Occupational Health and Safety Regulation.
11	The Regulation on Heavy and Hazardous Work, The Regulation About OHS Training, The Regulation on Workplace Health and Safety Units and Common Health and Safety Units.
12	Responsibilities of employer and employer agent (engineer-OHS expert) about occupational accidents and illnesses; case studies.
13	Analysis of the statistics on occupational accidents and illnesses, the most frequent accidents and illnesses and precautions.
14	Case studies and court decisions of Court of Appeals.
15	Case studies and court decisions of Court of Appeals.
16	Final Exam

Contribution of Learning Outcomes to Program Objectives(1-5)

	P1	P2	P3	P4	P5	P6	P7
1	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5
Contribution Level	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High						

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https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=5728	
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Date of Compilation:	27.02.2026