

DEPARTMENT OF MATERIALS SCIENCE AND TECHNOLOGY
COURSE SYLLABUS

Course Details				
Code	Academic Year			Semester
ISG002	4			8
Title	T	A	L	ECTS
Occupational Safety and Health II	2	0	0	2
Language	German			
Level	Undergraduate	X	Graduate	Postgraduate
Department / Program	Materials Science and Technology			
Forms of Teaching and Learning	Face to face			
Course Type	Compulsory	X	Elective	
Objectives	Teaching of basic theoretical information occupational health and safety field, basic legal arrangements on OHS law in Turkey; especially duties, competencies and responsibilities of the naval architects. To inform causes and effects of occupational accidents and illnesses and basic courses about preventive practices and basic legal arrangements in the shipyard industry.			
Content	Theoretical framework of occupational health and safety (OHS), national and international standards of the OHS; causes and effects of occupational accidents and illnesses and basic courses about preventive practices, basic legal arrangements on OHS law in Turkey, case studies and civil jurisdictions of Court of Appeals, analysis of the occupational accidents in shipyard industry.			
Prerequisites				
Coordinator				
Lecturer(s)	Mühendis Joachim Kuntze			
Assistant(s)				
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				
Exams				

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Course Composition			
Mathematics und Basic Sciences			%
Engineering			%
Engineering Design			%
Social Sciences			%
Educational Sciences			%
Natural Sciences			%
Health Sciences			%
Expert Knowledge			%
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	14	2	28
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	3	3
Recitations			
Laboratory			
Projects			
Final Exam	1	3	3
		Total Work Load	62
		ECTS Points (Total Work Load / Hours)	2
Learning Outcomes			
1	Students shall learn the basic concepts related to occupational safety and health of workers		
2	To learn the causes and measures to be taken to prevent accidents at work and occupational diseases		

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3	Students shall adopt risk, prevention, and safety culture
4	To learn the causes of work-related accidents and the measures to be taken in Ship Building Industry
5	Students shall understand Engineer's responsibility the terms of occupational safety
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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	

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

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

Compiled by:

Date of Compilation: