

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
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	Turkish				
Level	Undergraduate	X	Graduate		Postgraduate
Department / Program	Energy Science and Technology				
Forms of Teaching and Learning	Face-to-face				
Course Type	Compulsory		Elective		X
Objectives	Öğrenciler, iş güvenliği ile ilgili temel gereksinimleri, mühendisin görevlerini ve operasyonel yönetimi anlatmaktadır. Bir iş güvenliği uzmanıyla iletişim kurma yeteneği verilir.				
Content	Ders, iş yerindeki iş sağlığı ve güvenliğinin pratik örneklerini tanıtmaktadır. Özellikle, aşağıdaki konular önemlidir: 1) İş güvenliği ile ilgili temel kavramlar 2) Tehlike faktörleri 3) Kazaları önleme prosedürleri 4) Sağlık koruma 5) Yangın ve patlama koruması				
Prerequisites	None				
Coordinator	Joachim Kuntze				
Lecturer(s)	Joachim Kuntze Res. Asst. Ömer Faruk Aydın				
Assistant(s)					
Work Placement	None				
Recommended or Required Reading					
Books / Lecture Notes	Yılmaz, F., "İş Sağlığı ve Güvenliği Ders Notları" Yelekçi, M., "İşçi Sağlığı-İş Güvenliği İş Emniyeti" Esin, A., ESİN "İş Sağlığı ve Güvenliği" Çelebi, U.B., "Tersanelerde İş Sağlığı ve Güvenliği Ders Notları"				
Other Sources	„Praxishandbuch Arbeitssicherheit: Rechtliche und technische Grundlagen, Praktische Umsetzung, 60 Checklisten“, Christian Mag. (FH) Bayer und Andrea Mag. Schwarz-Hausmann MBA LL.M Ders Notları				
Additional Course Material					
Documents					
Assignments	1				
Exams	1 Midterm + 1 Final				
Course Composition					
Mathematics and Basic Sciences					%
Engineering	30				%

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
COURSE SYLLABUS

Engineering Design	30	%
Social Sciences		%
Educational Sciences		%
Natural Sciences	30	%
Health Sciences		%
Expert Knowledge	10	%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	1	30
Quiz		
Assignments	1	30
Attendance		
Recitations		
Projects		
Final Exam	1	40
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

1	Students will learn the fundamental requirements of occupational safety, the engineer's responsibilities, and operational management.
2	Students will gain the ability to communicate with an occupational safety specialist.

Weekly Content

1	Fire protection.
2	Fire protection.

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGIES
COURSE SYLLABUS

3	Explosion Protection: Gas/Vapor, Dust.
4	Explosion Protection: Gas/Vapor, Dust.
5	Personal Protective Equipment.
6	Personal Protective Equipment.
7	Ladders, steps, scaffolding.
8	Midterm exam
9	Lifting equipment.
10	Precaution
11	Risk Analysis
12	Health and Safety signs.
13	Health and Safety signs.
14	Mandatory and voluntary medical examinations, first aid tips.
15	Mandatory and voluntary medical examinations, first aid tips.
16	Final exam

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

	P1	P2	P3	P4	P5	P6	P7	P8	P9
1					4	5	5		
2					4	5	5		

Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

<https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=EN&curSunit=5706>

Compiled by: Res. Asst. Anil Can Duman

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