

1. Course Description

COURSE DESCRIPTION FORM	
Course Code and Title	CHE329 OCCUPATIONAL HEALTH AND SAFETY
Course Semester	5
Catalog Description (Content) of the Course	Occupational health, health hazards in the workplace. Industrial safety, accidents, fires, explosions, occupational health and safety regulations. Risk in chemical processes, risk analysis
Main Textbook	Richarson J., Risk Analysis and Saffety Monitoring, Tolley’health and Safety Wok Handbook, 1998
Supporting Textbooks	. Özdemir, NK., İş Sağlığı ve Güvenliği, İst. Barosu Yayınları, 2001. Özkılıç Ö., İş Sağlığı ve Güvenliği, Yönetim Sistemleri ve Risk Değerlendirme Metodolojileri, TİSK Yayınları, 2001. Baysal S., Boduroğlu T., Akaryakıt ve spg satış -servis istasyonlarında teknik emniyet ve güvenlik, Ankara, 1999. Metinyurt M.A., İnsan Kaynakları Yönetiminde İş Mevzuatı, Ankara,1999
Course Credit (ECTS)	3
Prerequisites of the Course (Compulsory attendance should be indicated here.)	There is no prerequisite or co-requisite for this course.
Type of the Course	Elective
Instruction Language of the Course	English
Object and Target of the Course	To teach occupational healt and safety in workplaces. To teach national and international regulations of occupational healt and safety
Learning Outcomes of the Course	• Ability to work efficiently in intra-disciplinary teams. • Ability to work individually. • Ability to communicate effectively in Turkish/English, both orally and in writing; Ability to write effective reports and comprehend written reports, make effective presentations, • Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself. • Awareness of professional and ethical responsibility. • Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety.
Mode of Delivery	The mode of delivery of this course is Face to face
Weekly Schedule of the Course	1-2. Week: Introduction: Factors effecting workers health in a workplaces. Accidents, fire and explosions in industrial plants. Occupational health and safety reg 3-7. Week: Rules of precautions. Explosive, flammable, dangerous and harmful materials in plants. Rules of heavy and dangerous works. harmful materials in plants. Rules of heavy and dangerous works. 8-9. Week: OHSAS 18000 occupational health and safety management standards 10-13. Week: Working responsibilities of administrators and inspections in workplaces. Process risks and risk analyses .in chemical industry 14. Week: Presentation

Educative Activities (Credit will be determined based on the time given for these activities. Should be filled carefully.)	Theoretical Study Hours of Course Per Week Searching in Internet and Library Preparing Reports Preparing Presentation Presentation Mid-Term and Studying for Mid-Term Final and Studying for Final									
Assessment Criteria		Quantity		Total Contribution (%)						
	Midterm	2		40						
	Homework	0		0						
	Assignment	0		0						
	Projects	1		20						
	Practice	0		0						
	Quiz	0		0						
	Contribution of In-term Studies to Overall Grade			60						
	Contribution of Final Examination to Overall Grade			40						
	Attendance									
Workload of the Course	Activity			Total Week Count		Weekly Duration (in hour)		Total Workload in Semester		
	Theoretical Study Hours of Course Per Week			14		3		42		
	Practicing Hours of Course Per Week									
	Reading									
	Searching in Internet and Library			1		5		5		
	Designing and Applying Materials									
	Preparing Reports			1		10		10		
	Preparing Presentation			1		5		5		
	Presentation			1		1		1		
	Mid-Term and Studying for Mid-Term			2		3		6		
	Final and Studying for Final			1		3		3		
	Other			1		1		1		
	Total work load							73		
	Total work load/25							2.92		
	ECTS of the course							3		
Course's Contribution To Program		Number	Program Outcomes		1	2	3	4	5	
		1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability		X					

			to use theoretical and applied information in these areas to model and solve engineering problems.						
		2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	X					
		3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose. (Realistic constraints and conditions may include factors such as economic and environmental issues, sustainability, manufacturability, ethics, health, safety issues, and social and political issues, according to the nature of the design.)	X					
		4	Ability to devise, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively.	X					

	5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems.	X					
	6	Ability to work efficiently in intra-disciplinary teams.				X		
	7	Ability to work efficiently in multi-disciplinary teams	X					
	8	Ability to work individually.				X		
	9	Ability to communicate effectively in Turkish, both orally and in writing; ability to write effective reports and comprehend written reports, make effective presentations				X		
	10	Prepare design and production reports, give and receive clear and intelligible instructions.	X					
	11	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.				X		
	12	Awareness of professional and ethical responsibility.				X		
	13	Information about business life practices such as project management, risk management, and change	X					

		management.					
	14	Information about awareness of entrepreneurship, innovation, and sustainable development.	X				
	15	Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety.				X	
	16	Knowledge about awareness of the legal consequences of engineering solutions.	X				
	17	Knowledge on standards used in engineering practice.	X				
Name of Lecturer(s) and Contact Information		1. Prof.Dr. Ayşe Murathan 2. Prof.Dr. Atilla Murathan					