

1. Course Description

COURSE DESCRIPTION FORM	
Course Code and Title	CHE485 QUALITY MANAGEMENT SYSTEMS
Course Semester	7
Catalog Description (Content) of the Course	Total quality management, the definition of quality, the quality management and standardization, ISO 9000, 9001, 9004, and other standard series, Application of ISO 9001 to any factory.
Main Textbook	Berry, Thomas H., Managing the Total Quality Transformation, New York, McGraw-Hill, 1991
Supporting Textbooks	• Cartin, Thomas J. ,Principles and Practices of TQM, Milwaukee, WI, ASQC Quality Press, 1993. • ISO 14001, Environmental Management Systems - Specification with guidance for use, International Standard Organization, Switzerland., 1996. • Culley, W.C., Environmental and Quality Systems Integration, CRC Press LCC, 1998.
Course Credit (ECTS)	4
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	Implementation of quality management system aimed to gain qualifications.
Learning Outcomes of the Course	Importance of quality management and systematic working capabilities will be ensured.
Mode of Delivery	The mode of delivery of this course is face to face
Weekly Schedule of the Course	1. Week Introduction: total quality management, definition of quality, what is the quality management, Development of quality management: Historical development 2. Week Introduction: total quality management, definition of quality, what is the quality management, Development of quality management: Historical development 3. Week ISO 9000 Standard Series: ISO 9001 the others 4. Week ISO 9000 Standard Series: ISO 9001 the others 5. Week ISO 9000 Standard Series: ISO 9001 the others 6. Week ISO 9000 Standard Series: ISO 9001 the others 7. Week ISO 9000 Standard Series: ISO 9001 the others 8. Week Application of ISO 9001 to any factory ,preparation of instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 9. Week Application of ISO 9001 to any factory ,preparation of instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 10. Week Application of ISO 9001 to any factory ,preparation of

	instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 11. Week Application of ISO 9001 to any factory ,preparation of instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 12. Week Application of ISO 9001 to any factory ,preparation of instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 13. Week Application of ISO 9001 to any factory ,preparation of instructions and procedures, preparation of forms and the other documents, preparation of quality handbook 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	<table><tr><td></td><td>Quantity</td><td>Total Contribution (%)</td></tr><tr><td>Midterm</td><td>2</td><td>40</td></tr><tr><td>Homework</td><td></td><td></td></tr><tr><td>Assignment</td><td></td><td></td></tr><tr><td>Projects</td><td>1</td><td>20</td></tr><tr><td>Practice</td><td></td><td></td></tr><tr><td>Quiz</td><td></td><td></td></tr><tr><td>Contribution of In-term Studies to Overall Grade</td><td></td><td>60</td></tr><tr><td>Contribution of Final Examination to Overall Grade</td><td></td><td>40</td></tr><tr><td>Attendance</td><td></td><td></td></tr></table>		Quantity	Total Contribution (%)	Midterm	2	40	Homework			Assignment			Projects	1	20	Practice			Quiz			Contribution of In-term Studies to Overall Grade		60	Contribution of Final Examination to Overall Grade		40	Attendance																																					
	Quantity	Total Contribution (%)																																																																
Midterm	2	40																																																																
Homework																																																																		
Assignment																																																																		
Projects	1	20																																																																
Practice																																																																		
Quiz																																																																		
Contribution of In-term Studies to Overall Grade		60																																																																
Contribution of Final Examination to Overall Grade		40																																																																
Attendance																																																																		
Workload of the Course	<table><tr><td></td><td>Activity</td><td>Total Week Count</td><td>Weekly Duration (in hour)</td><td>Total Workload in Semester</td></tr><tr><td></td><td>Theoretical Study Hours of Course Per Week</td><td>14</td><td>3</td><td>42</td></tr><tr><td></td><td>Practicing Hours of Course Per Week</td><td></td><td></td><td></td></tr><tr><td></td><td>Reading</td><td></td><td></td><td></td></tr><tr><td></td><td>Searching in Internet and Library</td><td>1</td><td>5</td><td>5</td></tr><tr><td></td><td>Designing and Applying Materials</td><td></td><td></td><td></td></tr><tr><td></td><td>Preparing Reports</td><td>1</td><td>5</td><td>5</td></tr><tr><td></td><td>Preparing Presentation</td><td>1</td><td>5</td><td>5</td></tr><tr><td></td><td>Presentation</td><td>1</td><td>1</td><td>1</td></tr><tr><td></td><td>Mid-Term and Studying for Mid-Term</td><td>2</td><td>15</td><td>30</td></tr><tr><td></td><td>Final and Studying for Final</td><td>1</td><td>15</td><td>15</td></tr><tr><td></td><td>Other</td><td></td><td></td><td></td></tr><tr><td></td><td>Total work load</td><td></td><td></td><td>103</td></tr></table>		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	5	5		Preparing Presentation	1	5	5		Presentation	1	1	1		Mid-Term and Studying for Mid-Term	2	15	30		Final and Studying for Final	1	15	15		Other					Total work load			103
	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	5	5																																																														
	Preparing Presentation	1	5	5																																																														
	Presentation	1	1	1																																																														
	Mid-Term and Studying for Mid-Term	2	15	30																																																														
	Final and Studying for Final	1	15	15																																																														
	Other																																																																	
	Total work load			103																																																														

	Total work load/25					4.12		
	ECTS of the course					4		
Course's Contribution To Program	No	Program Outcomes	1	2	3	4	5	
	1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.	X					
	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.	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/English, 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 management.			X			
	14	Information about awareness of entrepreneurship, innovation, and	X					

		sustainable development.					
	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. Atilla Murathan murathan@gazi.edu.tr 2. Prof.Dr. Ayşe Murathan amurathan@gazi.edu.tr					