T.C. ESKİŞEHİR OSMANGAZİ UNIVERSITY
ARCHITECTURE AND ENGINEERING FACULTY
MECHANICAL ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

SEMESTER	Spring

COURSE CODE	151816359/151836359	COURSE NAME	Total Quality Management

SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAGE
6	3	0	0	3		COMPULSORY ( ) ELECTIVE (X)	Turkish

COURSE CATAGORY			
Basic Science	Basic Engineering	Mechanical Engineering Subjects [if it contains considerable design, mark with (√)]	Social Science
	x	( )	

ASSESSMENT CRITERIA			
	Evaluation Type	Quantity	%
MID-TERM	Mid-Term	1	40
	Quiz		
	Homework		
	Project		
	Report		
	Others (……)		
FINAL EXAM		1	60

PREREQUIEITE(S)	
COURSE DESCRIPTION	What is Quality, What is Total Quality Management, Philosophy of Total Quality Management, Engineering Problems of Problem-Solving Techniques Application in Total Quality Management,
COURSE OBJECTIVES	Students who will become a Mechanical Engineer, working in their lives in order to resolve the problems related to quality, to gain the necessary knowledge and skills.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Mechanical Engineering students when beginning business, will help to analyze the quality dimension of the problems encountered
COURSE OUTCOMES	Understanding the philosophy of quality management, Understand the comprehend of quality management in the production mechanisms
TEXTBOOK	Prof.Dr. Nimetullah Burnak, Toplam Kalite Yönetimi, ESOGÜ publishment
OTHER REFERENCES	Enerji Analizi ve Yönetimi, A.Ü. Publication, Publication number:2115 Enerji analizi A.Ü. Publication, Publication number:2486
TOOLS AND EQUIPMENTS REQUIRED	

COURSE SYLLABUS	
WEEK	**TOPICS**
1	What is the Quality
2	What is the Quality Control
3	What is Total Quality Management
4	Scientists working in the field of Total Quality Management: Deming, Juran et al.
5	Scientists working in the field of Total Quality Management: Crosby, Feigenbaum et al.
6	Histogram
7	Pareto Analyze
8	Mid-Term Examination
9	Mid-Term Examination
10	Stratification
11	Cause-effect diagrams
12	Student Presentations
13	Student Presentations
14	Student Presentations
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	Sufficient knowledge of engineering subjects related with mathematics, science and Mechanical engineering; an ability to apply theoretical and practical knowledge on solving and modeling of Mechanical engineering problems.			**X**
2	Ability to determine, define, formulate and solve complex Mechanical engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods.			**X**
3	Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods.			**X**
4	Ability to develop, select and use modern methods and tools required for Mechanical engineering applications; ability to effective use of information technologies.		**X**	
5	In order to investigate Mechanical engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.			**X**
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.		**X**	
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.	**X**		
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.		**X**	
9	Understanding of professional and ethical issues and taking responsibility		**X**	
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.	**X**		
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.	**X**		
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Prepared by: Prof. Dr. Haydar ARAS **Date: 13/11/2017**

Signature(s):