



YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES
CHEMISTRY DEPARTMENT COURSE PLAN

Course Code	Course Title	Semester	Course Type (C/E)	T+A+L (Time/Week)	Credit	ECTS	Course Language
KİM749	Standardizations and Quality		E	2+0+0	2	5	Turkish

COURSE INFORMATION

Course Catalog Description (Content)	Standardization and standard concepts, Benefits of standardization, Objectives and activities of Turkish Standards Institute, Classification and preparation of standards, Metrology and calibration, Quality and quality concepts, Total quality management, Quality assurance systems and ISO 9000 standards
The Aim of the Course	Standards and standardization, quality and total quality management, ISO 9000 series standards and their documentation and CE certification.
Course Level	Undergraduate
Course Language	Turkish
Teaching method	(X) Formal () Online (X) Mixed/Hybrid
Teaching Staff of the Course	Prof. Dr. İsmail AKDENİZ
Prerequisite Course(s) of the Course	-
Learning Outcomes from the Course	<ol style="list-style-type: none">1. Understand the concepts of standard and standardization and their contributions to the consumer, the manufacturer and the national economy.2. Metrology and calibration concepts and the authorities in our country are recognized in this regard.3. They clearly explain the concept of quality, the total quality method and the advantages of these methods over classical methods.4. TS EN ISO 9000 series standards and understand the operation of these standards.5. The CE marking signifies the meaning of the marking.

COURSE CONTENT

Week	Theory	Practice/Laboratory
1	What is the standard?	
2	Substance Standards	
3	Product Standards	
4	Crop Standards	
5	Method Standards	
6	Service Standards	
7	Optional Standards	
8	Mandatory Standards	
9	What is Procedure?	
10	What is a Procedure Document?	
11	Procedure Instruction Difference	
12	What is the Standard Operating Procedure?	

13	Procedure Examples	
14	Quality Procedure	
15	Final Exam	

Course Learning Resources

1. Türk Standardları Enstitüsü tarafından hazırlanmış kitap broşür doküman dergi ve ilgili standartlar
2. 1Ahmet KOVANCI, Toplam Kalite Yönetimi Fakat Nasıl, 3. Baskı, 2004, Sistem Yayıncılık
3. Prof. Dr. İsmail EFİL (1999) Toplam Kalite Yönetimi ve ISO 9000 Kalite Güvence Sistemi, 4. Baskı, 1999, Alfa Basım Yayım Dağıtım.

ASSESSMENT CRITERIA

Work Activities During the Semester	Number	Contribution
Homework		
Practice		
Forum/ Discussion Application		
Short Exam (Quiz)	3	100
Ratio Of Semester Studies To Semester Success (%)		50
Ratio of Final to Success (%)		50
Total		%100

COURSE WORKLOAD TABLE

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	2	28
Practice			
Forum/ Discussion Application			
Reading			
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation	14	2	28
Presentation Preparation			
Presentation			
Final Exam	1	2	2
Preparation for the Final Exam	1	10	10
Other(s) (Preparation for Quizzes and Exams)	3	10	30
Total Workload			126
Total Workload / 25 (s)			126/25
ECTS Credits of the Course			≅5
Note: The workload of the course will be determined by the instructor on a per-course basis.			

PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS

No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.				X	
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological					X

	developments, produces solutions against problems encountered in the laboratory.					
3	Calculates and processes chemical information and data.					X
4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.			X		
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.					X
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.			X		
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.		X			
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.			X		
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.	X				
10	Can use computer software and information and communication technologies at the level required by the field.	X				
11	Adapts and transfers the knowledge gained in the field to secondary education.				X	
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.			X		
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.			X		
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.				X	
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.				X	

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