



ECTS COURSE INFORMATION FORM

Faculty	Faculty of Engineering	
Program	B.Sc. in Civil Engineering	Required
	B.Sc. in Electrical-Electronics Engineering	Elective
	B.Sc. in Mechanical Engineering	Required
	B.Sc. in Computer Engineering	Elective
	B.Sc. in Industrial Engineering	Elective

Course Code	CHEM 101L			
Course Title in English	General Chemistry Laboratory			
Course Title in Turkish	Genel Kimya Laboratuvarı			
Language of Instruction	English			
Type of Course	Laboratory			
Level of Course	Undergraduate			
Course Category (by % of Content)	Basic Science 100	Basic Engineering -	Engineering Design -	General Education -
Semester Offered	Fall			
Contact Hours per Week	Lecture: -	Recitation: -	Lab: 2 hours	Other:-
Estimated Student Workload	32 hours			
Number of Credits	1 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	None			
Expected Prior Knowledge	None			
Co-requisites	CHEM 101 General Chemistry			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To learn the basic principles of chemistry and how to integrate these principles to everyday observations, acquire chemical knowledge to form a basis for the engineering applications, learn to apply scientific method to solve problems, and develop awareness of environmental issues.			
Course Description	In the laboratory, students will be conducting simple experiments based on the fundamental chemical principles acquired in the lectures and generate and analyse real data.			
Course Description in Turkish	Laboratuarda, öğrenciler derste edindikleri temel kimya prensiplerine dayanan deneyleri yürütecekler ve gerçek veri üretecek ve analiz edecekler.			
Course Learning Outcomes and Competences	Upon successful completion of the course, the learner is expected to: <ol style="list-style-type: none">1. apply fundamental principles acquired from the lectures and simple experiments;2. conduct experiments and prepare data sheets as a team effort;3. analyze, interpret data and report conclusions with individual effort;4. report conclusions of experiments with individual effort.			

Relationship of the Course with the Student Outcomes	Level	Learning Outcome(s)	Assessed by
Student Outcomes	N=None S=Supportive H=High		Exam, Project, HW, Experiment, Presentation, etc.
(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	H	1	Final Exam
(2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors			
(3) an ability to communicate effectively with a range of audiences	S	4	Individual Lab Report (Format and presentation)
(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts			
(5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	H	2	Data Sheet for Lab Reports (Team Effort)
(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	H	3	Individual Lab Report (Technical Content)
(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies			
Prepared by and Date	Dr. Çimen Özgüç Önal / September 2020		
Semester	Fall 2020-2021		
Name of Instructor	Dr. Çimen Özgüç Önal		
Course Contents	Week	Topic	
	1.	Introduction to General Laboratory Rules	
	2.	Laboratory Safety Demonstration	
	3.	Experiment 1	
	4.	Experiment 1	
	5.	Experiment 2	
	6.	Experiment 2	
	7.	Experiment 3	
	8.	Experiment 3	
	9.	Experiment 4	
	10.	Experiment 4	
	11.	Experiment 5	
	12.	Experiment 5	
	13.	Make-up Experiments	
	14.	Make-up Experiments	
	15.	Final Exam/Project/Presentation Period	
	16.	Final Exam/Project/Presentation Period	
Required/Recommended Readings	Laboratory booklet is available.		
Teaching Methods	100% of this course will be conducting laboratory experiments		
Homework and Projects	-		

Laboratory Work	100%												
Computer Use	-												
Other Activities	-												
Assessment Methods	<table border="1"> <thead> <tr> <th>Types of assessment</th> <th>Number</th> <th>Ratio (%)</th> </tr> </thead> <tbody> <tr> <td>Lab Reports</td> <td>5</td> <td>70 (each contributing 14%)</td> </tr> <tr> <td>Final Exam</td> <td>1</td> <td>30</td> </tr> <tr> <td>Total</td> <td></td> <td>100</td> </tr> </tbody> </table> <p><u>When Grading Lab Reports (70%):</u> Data Sheet for Lab Report 75% Individual Report based on Data Sheet 25%</p>	Types of assessment	Number	Ratio (%)	Lab Reports	5	70 (each contributing 14%)	Final Exam	1	30	Total		100
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Total		100											
Course Administration	<p>Instructor's office and phone number: A Block 3rd floor office hours: Wednesday 14.00-15.00 email address: cinars@mef.edu.tr</p> <p>Rules for attendance: 100% attendance required. Missing a final: Faculty regulations. A reminder of proper classroom behavior, code of student conduct: YÖK Regulations Statement on plagiarism: YÖK Regulations</p>												

ECTS Student Workload Estimation		No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
	Lecture/Laboratory	7	1	2	1	28	A*(B+C+D)
	Midterms					0	A*(B+C+D)
	Quizzes					0	A*(B+C+D)
	Final Exam	1	3	1		4	A*(B+C+D)
	Total Workload					32	
	Total Workload/25					1.28	
	ECTS					1	