

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

Course Code	COMP 204			
Course Title in English	Programming Studio			
Course Title in Turkish	Programlama Atölyesi			
Language of Instruction	English			
Type of Course	Flipped Classroom/Laboratory			
Level of Course	Undergraduate			
Course Category (by % of Content)	Basic Science	Basic Engineering	Engineering Design	General Education
	0	10	80	10
Semester Offered	Fall			
Contact Hours per Week	Lecture: 2 hours	Recitation: -	Lab: 2 hours	Other: -
Estimated Student Workload	156 hours			
Number of Credits	6 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	COMP 109			
Expected Prior Knowledge	Object Oriented Programming, Data Structures			
Co-requisites	None			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To improve one's problem solving skills by means of computer programming projects.			
Course Description	<p>This course aims for students to improve their problem solving skills by means of computer programming. Given a problem, students are expected to produce a solution by using appropriate methods and tools, to plan the project in which they analyze, design, implement and test the software they produce. The course activities will help students to improve their team work and presentation skills</p> <p>After forming teams, students will work on at least 3 different projects. Each team determines and applies appropriate methods and tools to successfully complete the project. After the completion of each project, they will submit a report, including all documentations they produce, and give a presentation in the class.</p>			
Course Description in Turkish	<p>Proje gruplarının oluşturulmasından sonra, en az 3 farklı proje üzerinde çalışılacaktır. Her grup, projeyi başarıyla bitirmelerini sağlayacak uygun yöntemleri ve araçları kendisi belirleyecektir. Proje sonunda, gruplar ürettikleri dokümanları içeren bir rapor teslim edecekler ve sınıfta sunum yapacaklardır.</p>			
Course Learning Outcomes and Competences	<p>Upon successful completion of the course, the learner is expected to:</p> <ol style="list-style-type: none"> 1. plan a project, analyze and model the software to solve a given problem; 2. design the software to meet requirements; 3. implement the code using appropriate tools and test it; 4. communicate effectively by writing project report and giving presentation; 5. function effectively on a team; 6. acquire and apply new knowledge as needed using appropriate learning strategies. 			

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	Projects
(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	H	2,3	Projects
(3) an ability to communicate effectively with a range of audiences	S	4	Reports Presentations
(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			Reports, Projects, Presentations
(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	S	5	Projects, Reports, Presentations
(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions			
(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies	S	6	Projects
Prepared by and Date	Prof. Dr. Muhittin Gökmen / December 2019		
Semester	Spring 2019-2020		
Name of Instructor	Prof. Dr. Muhittin Gökmen		
Course Contents	Week	Topic	
	1.	Introduction to the course, general principles	
	2.	Assignment of the first project and planning workshop	
	3.	Review of work products and workshop	
	4.	Review of work products and workshop	
	5.	Final report and Presentation of the first project	
	6.	Assignment of the second project and planning workshop	
	7.	Review of work products and workshop	
	8.	Review of work products and workshop	
	9.	Review of work products and workshop	
	10.	Final report and Presentation of the second project	
	11.	Assignment of the third project and planning workshop	
	12.	Review of work products and workshop	
	13.	Review of work products and workshop	
	14.	Final report and Presentation of the third project	
	15.	Final Exam/Project/Presentation Period	
	16.	Final Exam/Project/Presentation Period	
Required/Recommended Readings	Java: How to Program, Tenth edition, P.J. Deitel H.M.Deitel, 2014. Software Engineering : A Practitioner's Approach, Eight Edition, Roger S. Pressman, Bruce Maxim Mcgraw-Hill Education, 2014		
Teaching Methods	Lecturing in the class. Students work as teams on assigned projects		
Homework and Projects	3 Projects		
Laboratory Work	Programming in the computer lab		
Computer Use	For Programming with OOP		
Other Activities	Presentation and report for each project		

Assessment Methods	Students will be assessed based on the project, report and presentation.
Course Administration	<p>Instructor's office and phone number, office hours, email address: To be announced</p> <p>-Office: 5th Floor, #18</p> <p>-Phone number: 0 212 395 36 26</p> <p>- Email address: gokmenm@mef.edu.tr</p> <p>Rules for attendance: Minimum of 70% attendance required.</p> <p>Missing a quiz: Provided that proper documents of excuse are presented, each missed quiz by the student will be given a grade which is equal to the average of all of the other quizzes. No make-up will be given.</p> <p>Missing a midterm: Provided that proper documents of excuse are presented, each missed midterm by the student will be given the grade of the final exam. No make-up will be given.</p> <p>Missing a final: Faculty regulations.</p> <p>A reminder of proper classroom behavior, code of student conduct: YÖK Regulations</p> <p>Statement on plagiarism: YÖK Regulations</p> <p>http://3fcampus.mef.edu.tr/uploads/cms/webadmin.mef.edu.tr/4833_2.pdf</p>

ECTS Student Workload Estimation	Activity	No/Weeks	Hours			Calculation	Explanation
		No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
	Lecture	3	0	3	0	9	A*(B+C+D)
	Project	3	12	12	11	105	A*(B+C+D)
	Presentation	3	6	1	0	21	
	Report	3	7	0	0	21	A*(B+C+D)
	Total Workload					156	
	Total Workload/25					6.24	
	ECTS					6	