



ECTS COURSE INFORMATION FORM

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 492			
Course Title in English	Senior Design Project II			
Course Title in Turkish	Tasarım Projesi II			
Language of Instruction	English			
Type of Course	Flipped Classroom			
Level of Course	Undergraduate			
Course Category (by % of Content)	Basic Science	Basic Engineering	Engineering Design	General Education
	0	0	100	0
Semester Offered	Fall			
Contact Hours per Week	Lecture: -	Recitation: 8 hours	Lab: -	Other: -
Estimated Student Workload	182 hours			
Number of Credits	7 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	COMP 491 Senior Design Project I			
Expected Prior Knowledge	To be a senior student.			
Co-requisites	None			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To design a system, components or a process to meet desired needs, to learn to identify a problem, and develop a solution to this problem by using appropriate methods, modern engineering tools and skills for engineering practice.			
Course Description	This non-lecture course is the successor of COMP 491 Senior Design Project I and provides a comprehensive design process. The following tasks are carried out by student taking this course: literature survey, comparison of solution methods and selecting a solution, analysis, design, development and test of project. Preparing the project report and giving presentation at the end of the semester.			
Course Description in Turkish	Bu ders kapsamlı bir tasarım dersi olup, ders konuları anlatılmaz. Dersi alan öğrencilerin aşağıdaki etkinliklerde bulunmaları beklenir: literatür tarama, çözüm yöntemlerinin belirlenmesi, karşılaştırılması, çözüm yönteminin analiz edilmesi, tasarımı, gerçekleşmesi ve test edilmesi, proje raporunun teslimi ve projenin sunumu.			
Course Learning Outcomes and Competences	Upon successful completion of the course, the learner is expected to: 1. identify, formulate, and solve engineering problems; 2. design a system, component, or process to meet desired needs; 3. communicate effectively verbally with a range of audiences; 4. communicate effectively by preparing a well-organized project report; 5. recognize professional and ethical responsibilities by considering the impact of engineering solutions in global, economic, environmental, and societal contexts; 6. function effectively on a team; 7. analyze and interpret data, and use engineering judgment to draw conclusions; 8. 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	S	1	Project
(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	Project
(3) an ability to communicate effectively with a range of audiences	H	3,4	Project
(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	S	5	Project
(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	6	Project
(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	H	7	Project
(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies	H	8	Project
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.	Problem Identification	
	2.	Group Formation	
	3.	Project planning	
	4.	Literature survey	
	5.	Literature survey	
	6.	Analysis	
	7.	Design	
	8.	Progress report and presentation	
	9.	Development	
	10.	Development	
	11.	Development	
	12.	Test	
	13.	Report	
	14.	Presentation	
	15.	Final Exam/Project/Presentation	
	16.	Final Exam/Project/Presentation	
Required/Recommended Readings	-		
Teaching Methods	No-Lecturing. Weekly meeting with advisor. Project will be carried out by students.		
Homework and Projects	Project		
Laboratory Work	Project work at Laboratory		
Computer Use	For Programming		
Other Activities			

Assessment Methods	Project Proposal:4 % Progress Report: 5 % Progress Presentation: 5 % Final Project Report: 40 % Project Presentation:40 % Team work / Meeting Minutes: 6 %
Course Administration	Instructor's office and phone number, office hours, email address: To be announced -Office: 5th Floor, #18 -Phone number: 0 212 395 36 26 - Email address: gokmenm@mef.edu.tr Rules for attendance: Minimum of 70% attendance required. 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. 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. Missing a final: Faculty regulations. A reminder of proper classroom behavior, code of student conduct: YÖK Regulations Statement on plagiarism: YÖK Regulations http://3fcampus.mef.edu.tr/uploads/cms/webadmin.mef.edu.tr/4833_2.pdf

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)		
	Weekly meeting with advisor	14	3	1	3	98	A*(B+C+D)
	Proposal	1	10	0		10	
	Progress report and presentation	1	26	1		27	A*(B+C+D)
	Final report	1	25	0		25	A*(B+C+D)
	Final presentation	1	15	1		16	A*(B+C+D)
	Meeting minutes	6		1		6	
	Total Workload					182	
	Total Workload/25					7.28	
ECTS					7		