ECTS COURSE INFORMATION FORM

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

Course Code	ECON 112			
Course Title in English	Economics for Engineering			
Course Title in Turkish	Mühendislik için Ekonomi			
Language of Instruction	English			
Type of Course	Lecture			
Level of Course	Undergraduate			
Course Category (by % of Content)	Basic Science	Basic Engineering	Engineering Design	General Education
	30	-	-	70
Semester Offered	Fall			
Contact Hours per Week	Lecture: 2 hours	Recitation: -	Lab: -	Other: -
Estimated Student Workload	131 hours per semester			
Number of Credits	5 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	-			
Expected Prior Knowledge	-			
Co-requisites	-			
Registration Restrictions	-			
Overall Educational Objective	To learn the economic system and obtain profound skills to analyze economic situations which are relevant for an engineer's professional practice.			
Course Description	The course introduces to basic concepts of economics. The course content begins with the analyses of market mechanisms, which are perceived as the elementary organization form of the economy. Subsequently, the role of governmental policies and regularizations are incorporated into the analyses. Firm behavior and the organization of the industry are described in further details. Long-run and short-run dynamics of macroeconomic variables are investigated. The analyzed theoretical concepts are critically reviewed by the help of empirical data. The course ends with applications of presented methods on selected special topics.			
Course Description in Turkish	Bu ders, ekonominin temel kavramlarını tanıtır. Dersin içeriği ekonominin asıl organizasyon biçimi olarak algılanan pazar mekanizmalarının analizleri ile başlar. Daha sonra kamu politikalarının ve düzenlemelerinin rolü analizlere dâhil edilir. Şirket davranışları ve endüstri kuruluşları ayrıntılı tanımlanır. Makro ekonomik değişkenlerin uzun ve kısa vadede dinamikleri incelenir. Analiz edilen teorik kavramlar, ampirik veri yardımıyla eleştirel olarak gözden geçirilir. Ders, seçili özel başlıklar altında sunulan yöntemlerin uygulamalarıyla sona erer.			
Course Learning Outcomes and Competences	Upon successful completion of the course, the learner is expected to: 1. analyze market mechanisms, which are perceived as the elementary organization form of the economy; 2. incorporate the role of governmental policies and regularizations into the analyses; 3. describe firm behavior and the organization of the industry; 4. use tools for better understanding of both, the potentials and the limits of economic policy; 5. use computer software to make basic calculations for analyzing economic situations.			

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			
(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			
(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	H	1, 2, 3, 4, 5	Exams, Quizzes
(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			
(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			

Prepared by and Date	Prof. Dr. Murat Donduran / June 2019	
Semester	Fall 2019-2020	
Name of Instructor	Prof. Dr. Murat Donduran	
Course Contents	Week	Topic
	1.	Introduction and Principles
	2.	Trade and Market Mechanisms
	3.	Elasticity, Market Mechanisms and Government Policies
	4.	Markets and Welfare
	5.	Economics of the Public Sector
	6.	Firm Behavior and Industrial Organization
	7.	Economics and Information
	8.	Data and Empirical Evidence
	9.	Production, Growth, Saving and Investments
	10.	Financial Economics
	11.	Monetary System
	12.	Short-Run Economic Fluctuations
	13.	International Economics and Macroeconomic Policy
	14.	Applications for International Economics
	15.	Final Exam/Project/Presentation period
	16.	Final Exam/Project/Presentation period
Required/Recommended Readings	**Required** N. Gregory Mankiw. "*Essentials of Economics*", South-Western Cengage Learning, 6th or 7th edition. Frank, Bernanke. "Principles of Economics", McGraw-Hill, 5th edition. **Recommended** Tim Harford, "*The Undercover Economist*", Random House Trade Paperbacks, 2010.	

	Miller, Benjamin, North. "*The Economics of Public Issues*", Pearson Series in Economics, 18th Edition, Paperback, 2013.
Teaching Methods	Lectures and class discussions
Homework and Projects	
Laboratory Work	-
Computer Use	-
Other Activities	-
Assessment Methods	Types of assessment — Number — Ratio (%) Midterm Exam — 2 — 40 Quizzes — 8 — 20 Final Exam — 1 — 40 Total — — 100
Course Administration	**Instructor's office and phone number:** **office hours:** **email address:** **Missing a quiz:** **Missing a midterm:** **Missing a final:** Faculty regulations. **A reminder of proper classroom behavior, code of student conduct**: YÖK Regulations **Statement on plagiarism**: YÖK Regulations

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/Flipped Classroo	14	1	3		56	A*(B+C+D)
Quizzes	8	3	1		32	A*(B+C+D)
Midterm(s)	2	10	2		24	A*(B+C+D)
Assingment, Project, Presentation					0	A*(B+C+D)
Final Examination	1	12	2		14	A*(B+C+D)
Total Workload					126	
Total Workload/25					5.04	
ECTS					**5**	