Course Title-Co SYSTEMS ANAL		ORTATION	Name of the Programme: CIVIL ENGINEERING							
Semester	Teaching Metho				ods			C	Credits	
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit	
1-2	42	0	0	0	56	90	188	3	7.5	
Language	Turkish									
Compulsory / Elective	Elective									
Prerequisites	-									
Course Contents	Development of transportation demand and supply models. Analysis of cost functions, cost estimating methods and some general cost functions. Merging supply and demand models for network equilibration. Simulation and optimization approaches for equilibrium. Evaluation of alternative transportation systems. Transportation regulation in an inefficient or in an excessive competitive environment. Cost and demand conditions of a regulated industry									
Course Objectives	understand the role of the transportation engineer, as a principal member of a multidisciplinary team, in the solution of transportation problem acquire a basic knowledge of the principles, practice of transportation engineering and the components of the transport systems and their interactions; the relations between consumers, behavior, demand, aggregate, disaggregate predictions, system performance, vehicle cycle, cost functions, congestions, network, equilibration etc.									
Learning Outcomes and Competences	Understanding and practicing the role of professional, approaches to solve any transport problems, generating solution basket, evaluating the differences and their effects, widening the sight in problem solving and components									
Textbook and /or References	Fundamentals of Transportation Systems Analysis, Marvin, L., Manhaim, MIT Press, USA. Strategies for the Evaluation of Alternative Transportation Plans, NCHRP Report 96, 1970									
Assessment Criteria								If any,mar as (X)	k Percent (%)	
	Midterm Exams							X	30	
	Quizzes									
	Homeworks							X	20	
	Projects									
	Term Paper							X	10	
	Laboratory Work									
	Other									
	Final Exam							X	40	
Instructors	Asst.Prof. Dr. Hikmet BAYIRTEPE									