Course Title-Course Code: CE 607 WATER RESOURCES SYSTEM ENGINEERING							Name of the Programme:CIVIL ENGINEERING		

Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	84	62	188	3	7.5

Language	Turkish
Compulsory / Elective	Elective
Prerequisites	-
Course Contents	Introduction to system and water resources system engineering, mathematical models, linear programming, simplex algorithm, dynamic programming, non-linear programming; direct-indirect methods, search techniques.
Course Objectives	Teaching systems engineering theory and methods and applying these methods for optimum development and use of water resources projects.
Learning Outcomes and Competences	Learning the idea behind the system engineering and getting the optimum solution of real engineering problems.
Textbook and /or References	Taha Hamdy A., Operations Research MacMillan Publishing Co. FitzGerald Jerry, FitzGerald Ardra, Fundamentals of System Analysis, Hiller Frederick S. Lieberman Gerald Introduction to Operations Research, Mc Graw Hill.

Assessment Criteria		If any,mark as (X)	Percent (%)
	Midterm Exams	X	40
	Quizzes		-
	Homeworks	X	20
	Projects		-
	Term Paper		-
	Laboratory Work		-
	Other		-
	Final Exam	X	40
Instructors	Assoc.Prof. Dr. Osman N. ÖZDEMİR		