

Course Title-Course Code: CE 547 ADVANCED HYDROLOGY							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	42	104	188	3	7.5	
<b>Language</b>	Turkish									
<b>Compulsory / Elective</b>	Elective									
<b>Prerequisites</b>	-									
<b>Course Contents</b>	Hydrological cycle, hydrological system, hydrological parameters, probability distribution used in hydrology. Prediction methods, correlation and regression analysis statistical models in hydrology, features of models, factor analysis, non linear least square method, analysis of time series.									
<b>Course Objectives</b>	The objective of this course is provide the hydrological information & tools which are essential in the design of hydraulic structures and show the practical hydrology applications to the students.									
<b>Learning Outcomes and Competences</b>	The hydrological concepts, methodologies, applications and information are provided to assess the design data of hydraulic structures.									
<b>Textbook and /or References</b>	Mc. Cuen, R.H., 1998, Hydrologic Analysis and Design, Prentice Hall, Second Ed. USA, ISBN: 0-13-134958-9. Usul, N. Engineering Hydrology, ODTU Press 2002 Bayazıt, M., 2001,Hidroloji Uygulamaları, İstanbul Gürer, 1993, Hidroloji Ders Notları, Hacettepe Üniversitesi									
<b>Assessment Criteria</b>								<i>If any, mark as (X)</i>	<b>Percent (%)</b>	
	<i>Midterm Exams</i>							X	30	
	<b>Quizzes</b>								-	
	<b>Homeworks</b>								-	
	<b>Projects</b>								-	
	<b>Term Paper</b>							X	10	
	<b>Laboratory Work</b>								-	
	<b>Other</b>								-	
	<b>Final Exam</b>							X	60	
<b>Instructors</b>	Prof. Dr. İbrahim GÜRER									