Course Title-Course Code: CE 579 HYDROPOWER	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

Language	Turkish
Compulsory / Elective	Elective
Prerequisites	-
Course Contents	Introduction, potential of electrical energy production and its value in economy, general principles of hydro-electrical energy and related definitions. Planning of hydro-electrical energy projects, dams, hydro-electric energy production dams and additional structures for energy production. Hydraulic power houses, turbines and related structures, change in operational program of turbines and their problems
Course Objectives	To give the basic concepts of hydropower energy and hydropower plant design as civil engineer
Learning Outcomes and Competences	The main hydopower energy concepts, methodologies and information are provided to assess the design hydropower energy plant
Textbook and /or References	1) Yıldız K.,1992, Hidroelektrik Santrallar Hesap Esasları ve Projelendirilmesi, DS.İ Matbaası, Ankara. 2) Balman, V., Güven, Ş.,1972, Su Kuvvetleri Mühendisliğine Giriş, Ankara Basım ve Ciltevi, Ankara. 3) Başeşme, H.,1980, Hidroelektrik Santraller ve Hidroelektrik Santral Tesisleri, TEK Eğitim Dairesi Yayınları, Ankara. 4) Desmukh M. M.,1978,"Water Power Engıneerıng", Sharma Printers, New Delhi

Assessment Criteria		*If any,mark as (X)*	Percent (%)
	Midterm Exams	X	30
	Quizzes		-
	Homeworks		
	Projects		-
	Term Paper	X	10
	Laboratory Work		-
	Other		-
	Final Exam	X	60

Instructors	Prof. Dr. İbrahim GÜRER