Course Title-Course Code: CE 534 DIVERSION WEIRS WITH INTAKES	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	70	76	188	3	7.5

Language	Turkish
Compulsory / Elective	Elective
Prerequisites	-
Course Contents	**Basic Equations in River Hydraulics** (Continuity, momentum ve energy, equations),**Spillways** (Overflow spillways, spillways with sluicegates), **Diversion Weirs with Sidewise Intakes** (Sill, submerged curtain, screens, fishway, stilling basin, flushing canal) **Diversion Weirs with Frontal Intakes** (Determination of overflow with orifice flow, stilling system, flushing canal or pipe)**Diversion Weirs with Bottom Intakes** (Tirol type weirs, the hypothesis of constant energy head and energy loss), **Further Applications**
Course Objectives	To improve practical solutions to the problems, which is met in diversion weirs.
Learning Outcomes and Competences	To put forward an idea on diversion weir design.
Textbook and /or References	Bollrich G., Preissler G., **Technische Hydromechanik**, Band 1, Verlag für Bauwesen, 1992. (in German) Morris H. M., Wiggert J. M., **Applied Hydraulics in Engineering**, John Wiley & Sons, New York, 1971. Naudascher E., **Hydraulik der Gerinne und Gerinnebauwerke**, Springer Verlag, 1987. (in German) Rössert R,.**Hydraulik im Wasserbau**, Oldenburg Verlag, 1988. (in German) Schröder R. C. M., **Technische Hydraulic,** SpringerVerlag, 1994. (in German) Schröder R. C., Euler G., Schneider F. K., Knauf D., **Grundlagen des Wasserbaues**, Werner Verlag, 1994. (in German) Sümer B. M., Ünsal İ., Bayazıt M., **Hydraulics**, Birsen Yayınevi, İstanbul, 1983. (in Turkish) Vischer D. L., **Dam Hydraulics**, John Willey & Sons, New York, 1992. USBR, **Design of Small Dams**, United States Bureau of Reclamation

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

Instructors	Prof. Dr. Tülay ÖZBEK