COURS	E DESCRIPTION F	ÖRM				
Course Code and Title	CE478 WATER RESOURCES ENGINEERING II					
Semester	8					
Catalog description	Dam reservoirs and capacity determination, types of dams, dan					
Cutation description	control structures, water intake from dams, hydroelectric power					
	water supply and distribution, wastewater collection and removal, design of stable channels					
	Temoval, design of stable channels					
Required reading	"Water resources engineering" Erkek and Ağıralioğlu and lecture					
And an end a country	notes prepared from various publications					
Recommended reading						
ECTS	5					
Prerequisites and co-requisites	-	CE376 HYDROME	CHANICS			
rerequisites and co-requisites	Prerequisite Course: <b>CE376 HYDROMECHANICS</b> Required attendance to lectures is at least 70% of total term					
	hours.					
Compulsory/Elective	Compulsory					
Language of instruction	English					
Aim of course	Basics principles of d	ams and water supply	v are taught			
Learning outcomes of the course unit						
Learning outcomes of the course unit	<ol> <li>Determination of dam reservoir capacity</li> <li>Types, design criteria and stability analysis of dams</li> </ol>					
		3) Dam control structures				
	<ul><li>4) Hydroelectric power</li><li>5) Water supply and distribution</li></ul>					
Mode of delivery			to face			
Mode of delivery Course content	The mode of delivery of this course is face to face.					
Course content	1. Dam reservoirs and determination of reservoir capacity					
	2. Types of dams					
	3. Types of dams					
	4. Dam control structures					
	5. Dam control structures and water intake					
	6. Water Intake 7. 1. Midterm					
	<ol> <li>8. Hydroelectric power plant</li> <li>9. Hydroelectric power plant</li> </ol>					
	10. Water supply and distribution					
	11. Water supply and distribution					
	12. Wastewater collection and removal					
	12. wastewater collection and removal 13. Stable channel design					
	14. 2. Midterm, Irrigation					
	15. Irrigation					
Planned learning activities and teaching	3 lecture hours per week (3+0)					
methods	Web search and librar					
	Reading	.,				
	Midterm exam and re	auired works				
	Final exam and requir					
Assessment methods and criteria		Quantity	Percentage (%)			
	Mid-terms	2	60			
	Assignment	-				
	Exercises	_	-			
	Projects		-			
	Practice	-				
	Quiz	-	-			
	Contribution of	-	60			
	In-term Studies to		00			
	Overall Grade %		1			

	Con	tribution of				40		T
		al Examination				10		
		Overall Grade						
	(%)							
		endance						
Workload		Work activity	Total Week Count	Weekly Duration (in hour)		Total Workload in Semester		_
		oretical Study Hours o rse Per Week	f 14	3		42		
	Pract Per V	ticing Hours of Cours Week	e 14	0	0		0	
		ling	14	1		14		
		ching in Internet and ary	14	2	2		28	
	Mate		14	0		0		
		aring Reports	14	0			0	
		aring Presentation	14	0			0 0	_
		Term and Studying for		10		20		
	Mid-	Term						
		and Studying for Fin		20			20	_
	Othe	r l Workload:	0	0			0 124	
		Workload / 25:					4.96	
	ECT						5	
Course's contribution to program	No 1	Program Learning O Adequate knowledg		1	2	3	4 5 X	
		areas in complex en Ability to identify, t complex civil engin to select and apply p modeling methods f Ability to design a d device or product u and conditions, in s desired result; ability methods for this pun Ability to devise, se techniques and tool: and solving comple in civil engineering employ information at least one compute effectively.	ied knowledge in thes gineering problems. formulate, and solve eering problems; abili proper analysis and for this purpose. complex system, proce- nder realistic constrain uch a way as to meet t y to apply modern des rpose. elect, and use modern s needed for analyzing x problems encounter	ty sss, he sign x ad se age s, X		X	X	
	6	investigating compl problems or discipli questions. Ability to work efficiency	ex civil engineering ine specific research			X		
	7	Ability to work indi	vidually.			Х		_
	8		cate effectively in and in writing; ability rts and comprehend	v to X				-
	9	Knowledge of Engl to <u>Common Europe</u> <u>Reference</u> .						
	10		production reports, ma ons, and give and rece e instructions.					

	11	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	Х			
	12	Consciousness to behave according to ethical principles and professional and ethical responsibility.	Х			
	13	Knowledge on standards used in civil engineering practice.			Х	
	14	Knowledge about business life practices such as project management, risk management, and change management.	Х			
	15	Awareness in entrepreneurship, innovation; knowledge about sustainable development.	Х			
	16	Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering.	X			
	17	Awareness of the legal consequences of engineering solutions.	Х			
Name of lecturer(s) and contact	Prof.	Dr. Osman Nuri Özdemir, <u>ozdemir@ga</u>	zi.edu.	tr		
information		Assoc. Prof. Dr. Nihat Eroğlu, <u>enihat@gazi.edu.tr</u> Assist. Prof. Dr. Müsteyde Baduna Koçyiğit, <u>baduna@gazi.edu.tr</u>				