TOROS ÜNIVERSITESI

Institute Of Graduate Education Civil Engineering Master's Program (With Thesis)

Course Information

ADVANCED HYDROLOGY						
Code Semester		Theoretical	Practice	National Credit	ECTS Credit	
		Hour / Week				
FIM630	Spring	3	0	3	7	

Prerequisites and co- requisites	NONE
Language of instruction	Turkish
Туре	Elective
Level of Course	Master's
Lecturer	PROF.DR. AZİZ ERTUNÇ
Mode of Delivery	Face to Face
Suggested Subject	NONE
Professional practise (internship)	None
Objectives of the Course	The definition of the hydrological cycle and its elements, the definition and content of hydrology, examination of hydrological elements
Contents of the Course	Hydrological circle, rainfall, infiltration, evoporation, runoff, groundwater, hydrograph analysis

Learning Outcomes of Course

#	Learning Outcomes
1	General awareness about hydrological cycle
2	Learning the criteria of data evaluation in hydrology
3	Comprehending the importance of hydrological output by designing water constructions
4	Describing basic notions of floods

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction, Hydrological Cycle	Lecture
2	Rainfall	Lecture
3	Applications for Rainfall	Lecture
4	Evoporation and Infiltration	Lecture
5	Applications for Evoporation and Infiltration	Lecture
6	Groundwater	Lecture
7	Applications for Groundwater	Lecture
8	Runoff and Analysis of Runoff data	Lecture
9	Application for Runoff	Lecture
10	Mid-Term Exam	
11	Hydrograph analysis	Lecture
12	Application for Hydrograph analysis	Lecture
13	Statistical Methods in Hydrology	Lecture

14	Application for Statistical Methods	Lecture
15	Application for Statistical Methods	Lecture
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Hidroloji Mehmetçik Bayazıt Birsen Yayınevi		
2	Hidroloji Uygulamaları Mehmetçik Bayazıt, İlhan Avcı, Zekai Şen Birsen Yayınevi		

Method of Assessment

Ĺ	#	Weight	Work Type	Work Title	
Γ	1 4	40%	Mid-Term Exam	Mid-Term Exam	
Γ	2 (60%	Final Exam	Final Exam	

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	General awareness about hydrological cycle	2	1
2	Learning the criteria of data evaluation in hydrology	1	2
3	Comprehending the importance of hydrological output by designing water constructions	2	1
4	Describing basic notions of floods	2	1

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	3	5	15
4	Web Research, Library and Archival Work	3	5	15
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	3	5	15
8	Midterm Exam	3	3	9
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	3	3	9
14	Final Exercise	1	1	1
15	Preparation for Final Exam	3	3	9
16	Final Exam	3	3	9
	1			180