

### COURSE IDENTIFICATION FORM

**Course Code and Name:** IM5041 GROUNDWATER HYDROLOGY

**Department of :** CIVIL ENGINEERING / MASTER PROGRAMME

Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective
Autumn/Spring	3	0	3	3	5	Turkish	Optional

**Prerequisite (s)**

**Instructor**

Asst. Prof. Dr.Hilal ARSLANOĞLU IŞIK

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**Course Assistant**

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**Groups / Classes**

Postgraduate (Master's Degree)

**Course Aim**

of aquifers and methods of extracting water from aquifers for water supply purposes

**Course Goals**

Formation of groundwater/Groundwater movement/ Aquifers and classification/Well hydraulics/ Aquifer tests/Groundwater law

**Course Learning Outcomes and Proficiencies**

1. They will be able to gain knowledge and skills about aquifer types, methods of taking water from aquifers , and well hydraulics.
2. Students will be able to learn hydrology topics and the equations and solutions related to them.
3. Students will be able to learn the rainfall-runoff relationship and hydrograph analysis methods.

**Course Basic and Auxiliary Contexts**

- Lecture Notes
- VT Chow , DR Maidment , LW Mays , 1988. Applied Hydrology ,
- THOMANN and MUELLER, 1987. Principles of surface water quality Modeling and control ,
- Schnoor , JL, Environmental Modeling : Fate and Transport of Pollutants in Water , Air , and Soil , Wiley-Interscience , 1996.

**Methods of Give a Lecture**

Face to face

Assessment Criteria		If Available, to Sign (x)	General Average Percentage (%) Rate
	Midterm Exam	X	50
	1. Quiz		
	2. Quiz		
	3. Quiz		
	4. Quiz		
	Oral Examination		
	Practice Examination (Laboratory, Project etc.)		
	Final Exam	X	50
Semester Course Plan			
Week	Subjects		
1	Formation of groundwater		
2	Formation of groundwater		
3	Groundwater movement		
4	Groundwater movement		
5	Aquifers and their classification		
6	Aquifers and their classification		
7	Well hydraulics		
8	Midterm Exam		
9	Well hydraulics		
10	Well hydraulics		
11	Aquifer tests		
12	Aquifer tests		
13	Groundwater law		
14	Groundwater law		