

**COURSE IDENTIFICATION FORM**

**Course Code and Name:** IM5025 Irrigation Technique

**Department of :** CIVIL ENGINEERING /  
DEPARTMENT OF CIVIL ENGINEERING /  
DEPARTMENT OF CIVIL ENGINEERING THESIS  
MASTER'S DEGREE PROGRAM

Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective
Fall	3	0	3	3	5	Turkish	Optional
Prerequisite (s)		-					
Instructor		Asst. Prof. Dr. Yusuf DOGAN				Mail : ydogan@munzur.edu.tr Web :	
Course Assistant						Mail : Web :	
Groups / Classes							
Course Aim		To be able to use irrigation systems more effectively, To teach irrigation techniques and characteristics, To learn how to control irrigation systems, To be able to design irrigation systems with minimum loss, To teach maintenance, operation and economy in irrigation.					
Course Goals		Irrigation technique factors, Methods used to determine irrigation water requirement, Water resources and irrigation water quality, Formation of irrigation network, Water losses in irrigation, Irrigation module, Irrigation time and irrigation interval, Irrigation systems, Rotation irrigation, Irrigation types (wild flooding, underground irrigation, furrow irrigation, etc.), Sprinkler irrigation, Irrigation in saline and alkaline soils, Maintenance, operation and economy in irrigation.					
Course Learning Outs and Proficiencies		<ul style="list-style-type: none"><li>• Determining the most suitable irrigation system</li><li>• Learning irrigation efficiency</li><li>• Planning irrigation systems</li></ul>					
Course Basic and Auxiliary Contexts		Berkün, M., Su Kaynakları Mühendisliği, 2005. Doç. Dr. Nihat KAYA – Sulama Tekniği Ders Notları Erkek, C., Ağırlioğlu N., Su Kaynakları Mühendisliği, 2010. Kızılkaya, T., Sulama ve Drenaj, 1988 Acatay, S.T., Sulama Mühendisliği, 1996					
Methods of Give a Lecture		Face to face					

<b>Assessment Criteria</b>		<b>If Available, to Sign (x)</b>	<b>General Average Percentage (%) Rate</b>
	<b>1. Quiz</b>	<b>X</b>	<b>50</b>
	<b>2. Quiz</b>		
	<b>3. Quiz</b>		
	<b>4. Quiz</b>		
	<b>5. Quiz</b>		
	<b>Oral Examination</b>		
	<b>Practice Examination (Laboratory, Project etc.)</b>		
	<b>Final Exam</b>	<b>X</b>	<b>50</b>
<b>Semester Course Plan</b>			
<b>Week</b>	<b>Subjects</b>		
<b>1</b>	Irrigation technique factors		
<b>2</b>	Methods used to determine irrigation water requirements		
<b>3</b>	Water resources and irrigation water quality		
<b>4</b>	Irrigation network		
<b>5</b>	Irrigation losses		
<b>6</b>	Irrigation module		
<b>7</b>	Frequency and duration of irrigation		
<b>8</b>	Mid-term exam		
<b>9</b>	Translation structures		
<b>10</b>	Types of irrigation		
<b>11</b>	Rain irrigation		
<b>12</b>	Irrigation in saline and alkaline soils		
<b>13</b>	Maintenance, operation and economy in irrigation		
<b>14</b>	Maintenance, operation and economy in irrigation		