Curriculum
Master Program in Civil Engineering

First Semester			
Code	Name of the lesson	Required/Elective	Credit
	Seminar	Required Courses	6
İNŞ554	International Construction Project Management	Required Courses	6
İNŞ571	Geotechnical Engineering and Computer Applications	Required Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
Second Semester			
Code	Name of the lesson	Required/Elective	Credit
İNŞ555	Advanced Concrete Technology	Required Courses	6
İNŞ547	Urban Hydrology and Hydraulics	Required Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
	Elective Courses	Required Courses	6
Third Semester			
Code	Name of the lesson	Required/Elective	Credit
MET-B01	Individual work	Required Courses	30
MET-B02	Thesis	Required Courses	30

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Elective Courses				
Code	Name of the lesson	Required/Elective	Credit	
İNŞ503	Advanced Foundation Engineering	Elective Courses		
İNŞ504	Soil Modeling	Elective Courses		
İNŞ509	River Hydraulics	Elective Courses		
İNŞ513	Dams	Elective Courses		
İNŞ531	Contract and Cost Management	Elective Courses		
İNŞ547	Urban Hydrology and Hydraulics	Elective Courses		
İNŞ554	International Construction Project Management	Elective Courses		
İNŞ555	Advanced Concrete Technology	Elective Courses		
İNŞ563	Advances in Sediment Transport Research	Elective Courses		
İNŞ565	Cold-Formed Steel Structures	Elective Courses		
İNŞ571	Geotechnical Engineering and Computer Applications	Elective Courses		
MEK501	Advanced Soil Mechanics	Elective Courses		

Access to Further Studies

May apply to doctorate programmes in any field or proficiency in fine arts programmes.

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Field Qualifications

1	Have access to advanced knowledge in the field of engineering through scientific research; evaluate, interpret and apply knowledge.
2	Complete and apply knowledge based on limited or deficient data through scientific methods; integrate knowledge from different disciplines.
3	Define problems related with engineering; and develop methods for their solution, and use innovative methods in problem solving.
4	Generate new and/or original ideas and methods; and develop innovative solutions in system, component or process designs.
5	Have extensive knowledge on recent techniques and methods used in engineering, and the constraints of these techniques and methods.
6	Design and conduct analytical, modeling and experiment-based research; solve and interpret complex problems encountered in this process.
7	Define information and data to be needed, access and use them.
8	Assume the leadership role in multi-disciplinary teams; produce solutions in complicated situations and take responsibility.
9	Establish oral and written communication in a foreign language at minimum B2 level, as defined by the European Language Portfolio.
10	Report systematically and clearly in written or oral form the processes and results of their research/work in national and international settings.
11	Comply with social, scientific and ethical values in the process of collecting, interpreting and reporting data, and in all professional activities.
12	Are aware of new and developing applications in the profession; examine and learn these applications, when required.
13	Describe social and environmental aspects of engineering applications.