

## INFRASTRUCTURE ENGINEERING MSC PROGRAM

		Code	Credit	Lecture	Seminar	Laboratory	Day	M/E/S	Semester
<b>Core Subjects</b>									
Advanced Mathematics	BMETE90MX33	3	2	1				E	1
Physics Laboratory	BMETE11MX22	1				1		M	2
Methods of Engineering Analysis	BMEEOHSMK51	3	1	1				M	1
Numerical Methods	BMEEOFTMK51	4				3		M	1
Database Systems	BMEEOFTMI51	3		2				M	2
Environmental systems	BMEEOVKMI51	4	3					E	1
Ecology	BMEEOVKMI52	3	2					M	1
Infrastructure work	BMEEOHSMI51	3	2					E	2
Dewatering	BMEEOVKMI53	3	2					M	2
Environmental economics	BMEGT42M400	2	2					M	3
Decision Supporting Methods	BMEEPEKMST4	2	2					M	3
Accounting, Controlling, Taxation	BMEGT35M014	2	2					M	3
Corporate Finance	BMEGT35M411	2	2					M	3
Engineering Ethics	BMEGT41M004	2	2					M	3
Optional Subjects		5							
<b>Specialization in Highway and Railway Engineering</b>									
<b>Obligatory Subjects</b>									
Transport strategic planning	BMEEOUVMU-1	4	2	1				M	1
Railway Station Design	BMEEOUVMU-2	4	2	1				E	2
infrastructure Management Systems	BMEEOUVMU-3	3	2					E	2
Project Management in Transportation	BMEEOUVMU-4	2	2					M	1
Elective Subjects 1st semester		7							1
Elective Subjects 2nd semester		10							1
Diploma Project	BMEEODHMU-D	20						M	3
<b>Recommended Elective Subjects</b>									
Transportation Modeling	BMEEOUVMU61	2	2					M	1
Railway Operation	BMEEOUVMU62	2	2					M	1
Pavement Structures	BMEEOUVMU63	5	4					E	2
Railway Track Structures	BMEEOUVMU64	5	4					E	1
Intelligent Transportation Systems	BMEEOFTMF61	3	1	1				M	2
Transport economics	BMEEOUVMU65	3	2					M	2
CAD Software in Road and Rail Design	BMEEOUVMU66	3	3					M	1
<b>Specialization in Water and Hydro-Environmental Engineering</b>									
<b>Obligatory Subjects</b>									
Water and wastewater treatment II.	BMEEOVKMV-1	4	3					E	1
Water quality monitoring	BMEEOVKMV-2	2	2					M	1
Modelling of Hydrosystems	BMEEOVVMV-1	4	2	1				E	1
Hydromorphology	BMEEOVVMV-2	4	2			3		E	2
Elective Subjects 1st semester		4							1
Elective Subjects 2nd semester		12							2
Diploma Project	BMEEODHMV-D	20						M	3
<b>Recommended Elective Subjects</b>									
Design of Water-Use Structures	BMEEOVVMV61	4	2	1				M	2
Design of Water Damage Prevention Structures	BMEEOVVMV62	4	2	1				M	1
Groundwater	BMEEOVVMV63	3	2					M	2
Hydrography and Hydroinformatics	BMEEOVVMV64	5	2	2				M	2
Water and wastewater treatment plants	BMEEOVKMV61	3	2	1				M	2
Water quality management	BMEEOVKMV62	2	1	1				M	2
Public water utility systems modelling	BMEEOVKMV63	4	2	1				M	2
Reconstruction of public water utility systems	BMEEOVKMV64	3	2					M	1