

### Specialization in Highway and Railway Engineering

Core and specialization subjects							
Name	Code	Cr	T	P	L	M/E	S
Mathematics MSc for Civil Engineers	BMETEMIMsMMATM-00	3	1	1		M	1
Methods of Engineering Analysis	BMEEOVVMsFIN01-00	3	1	1		M	1
Numerical Methods	BMEEOAFMsFAL01-00	4			3	M	1
Ecological Engineering	BMEEOVKMsFIN01-00	6	2	1		E	1
Infrastructure Works	BMEEOHSMsFIN01-00	5	2	1		E	1
Compulsory Elective 1		3					1
Compulsory Elective 2		3					1
Economics and Humanities Subjects 1		3					1
Design of Railway Stations	BMEEOUVMsFIN01-00	4	2			E	2
Transport Strategic Planning	BMEEOUVMsFIN02-00	4	2	1		M	2
Highway Construction and Pavement Structures	BMEEOUVMsFIN03-00	4	2			E	2
Railway Track Structures and Diagnostics	BMEEOUVMsFIN04-00	4	3			E	2
Traffic engineering	BMEEOUVMsFIN05-00	4	2			E	2
Road Safety	BMEEOUVMsFIN06-00	4	2	1		M	2
Compulsory Elective 3		3					2
Compulsory Elective 4		3					2
Elective		5					3
Economics and Humanities Subjects 2		5					3
Master Thesis	BMEEOUVMsFIN07-00	20		2		M	3
<b>Compulsory elective</b>							
Special Railway Systems	BMEEOUVMsFIN08-00	3	2			M	1
Railway Engineering Case Studies	BMEEOUVMsFIN09-00	3	2			M	1
Highway Infrastructure Management Systems	BMEEOUVMsFIN10-00	3	2			M	1
Economics of Civil Engineering projects	BMEEOUVMsFIN11-00	3	2			M	2
Transport Modelling	BMEEOUVMsFIN12-00	3	2			M	2
Highway Design BIM	BMEEOUVMsFIN13-00	3	2			M	2
<b>Economics and Humanities Subjects</b>	<b>Expected semester for courses: F: fall; S: spring; B: both</b>						
Management <sup>F</sup>	BMEGT20MW02	5	3			M	
Economic Analysis of Technology <sup>S</sup>	BMEGT30MS02	2	2			M	
Investments <sup>B</sup>	BMEGT35M004	2	2			M	
Accounting, Control, Taxation <sup>F</sup>	BMEGT35M014	2	2			M	
Corporate Finance <sup>F</sup>	BMEGT35M411	2	2			M	
Ethics for Engineers <sup>F</sup>	BMEGT41M004	2	2			M	
Argumentation, Negotiation, Presentation <sup>F</sup>	BMEGT41MB51	3	2			M	
Technology Theories <sup>F</sup>	BMEGT41MB52	2	2			M	
Environmental and Resource Management <sup>F</sup>	BMEGT42M003	2	2			M	
Economics of Sustainable Development <sup>S</sup>	BMEGT42M004	2	2			M	
Sustainable Business Model Design <sup>S</sup>	BMEGT42MN29	3	2			M	
Visual Communication <sup>F</sup>	BMEGT43M400	4	2	2		M	
Social and Visual Communication <sup>B</sup>	BMEGT43MS02	2	2			M	
Social and Visual Communication <sup>S</sup>	BMEGT43MS07	2	2			M	
Leadership and Applied Management Psychology <sup>F</sup>	BMEGT52MS01	2	2			M	
Corporate Law <sup>S</sup>	BMEGT55M002	2	2			M	
Law of the Information Society <sup>F</sup>	BMEGT55M005	2	2			M	
E-law <sup>S</sup>	BMEGT55M400	3	2			M	
Economic Law of the EU <sup>B</sup>	BMEGT55MN02	3	2			M	

Specialization in Water and Hydro-Environmental Engineering							
Core and specialization subjects							
Name	Code	Cr	T	P	L	M/E	S
Mathematics MSc for Civil Engineers	BMETEMIMsMMATM-00	3	1	1		M	1
Methods of Engineering Analysis	BMEEOVVMsFIN01-00	3	1	1		M	1
Numerical Methods	BMEEOAFMsFAL01-00	4			3	M	1
Ecological Engineering	BMEEOVKMsFIN01-00	6	2	1		E	1
Infrastructure Works	BMEEOHSMsFIN01-00	5	2	1		E	1
Hydroinformatics	BMEEOVVMsFIN02-00	6	1	2		E	1
Economics and Humanities Subjects 1		3	10				1
Design and Operation of Public Works	BMEEOVKMsFIN02-00	4	1	2		E	2
Design and operation of drinking water and wastewater tre	BMEEOVKMsFIN03-00	4	1	1		E	2
Water quality monitoring and modelling	BMEEOVKMsFIN04-00	4	1	1		M	2
Design of hydraulic structures	BMEEOVVMsFIN03-00	5	1	2		M	2
Hydromorphology	BMEEOVVMsFIN04-00	4	1	1	24f	E	2
Hydrologic modelling	BMEEOVVMsFIN05-00	3	1	1		E	2
Compulsory Elective 1		3	12				2
Compulsory Elective 2		3	12				2
Elective		5					3
Economics and Humanities Subjects 2		5	14				3
Master Thesis	BMEEOVVMsFIN06-00	20		2			3
Master Thesis	BMEEOVKMsFIN05-00	20		2			3
Compulsory elective							
Water quality management case studies	BMEEOVKMsFIN06-00	3	1	1		M	2
Drinking water and wastewater treatment case studies	BMEEOVKMsFIN07-00	3	1	1		M	2
Groundwater	BMEEOVVMsFIN07-00	3	1	1		M	2
Hydrometeorology and Climatology	BMEEOVVMsFIN08-00	3	1	1		M	2
Hydraulic measurements	BMEEOVVMsFIN09-00	3			2	M	2
Integrated water management	BMEEOVVMsFIN10-00	3	2			M	2
Economics and Humanities Subjects	Expected semester for courses: F: fall; S: spring; B: both						
Management <sup>F</sup>	BMEGT20MW02	5	3			M	
Economic Analysis of Technology <sup>S</sup>	BMEGT30MS02	2	2			M	
Investments <sup>B</sup>	BMEGT35M004	2	2			M	
Accounting, Control, Taxation <sup>F</sup>	BMEGT35M014	2	2			M	
Corporate Finance <sup>F</sup>	BMEGT35M411	2	2			M	
Ethics for Engineers <sup>F</sup>	BMEGT41M004	2	2			M	
Argumentation, Negotiation, Presentation <sup>F</sup>	BMEGT41MB51	3	2			M	
Technology Theories <sup>F</sup>	BMEGT41MB52	2	2			M	
Environmental and Resource Management <sup>F</sup>	BMEGT42M003	2	2			M	
Economics of Sustainable Development <sup>S</sup>	BMEGT42M004	2	2			M	
Sustainable Business Model Design <sup>S</sup>	BMEGT42MN29	3	2			M	
Visual Communication <sup>A<sup>F</sup></sup>	BMEGT43M400	4	2	2		M	
Social and Visual Communication <sup>B</sup>	BMEGT43MS02	2	2			M	
Social and Visual Commucation <sup>S</sup>	BMEGT43MS07	2	2			M	
Leadership and Applied Management Psychology <sup>F</sup>	BMEGT52MS01	2	2			M	
Corporate Law <sup>S</sup>	BMEGT55M002	2	2			M	
Law of the Information Society <sup>F</sup>	BMEGT55M005	2	2			M	
E-law <sup>S</sup>	BMEGT55M400	3	2			M	
Economic Law of the EU <sup>B</sup>	BMEGT55MN02	3	2			M	