

**Specialization in Highway and Railway Engineering**

<b>Basic subjects</b>							
<b>Name</b>	<b>Code</b>	<b>Cr</b>	<b>T</b>	<b>P</b>	<b>L</b>	<b>F/V</b>	<b>S</b>
Mathematics MSc for Civil Engineers	BMETEMIMsMMATM-00	3	1	1		F	1
Methods of Engineering Analysis	BMEEOVVMsFIN01-00	3	1	1		F	1
Numerical Methods	BMEEOAFMsFAL01-00	4			3	F	1
Ecological Engineering	BMEEOVKMsFIN01-00	6	2	1		V	1
Infrastructure Works	BMEEOHSMsFIN01-00	5	2	1		V	1
Compulsory Elective 1		3					1
Compulsory Elective 2		3					1
Economic & Human Subjects 1		3					1
Design of Railway Stations	BMEEOUVMsFIN01-00	4	2			V	2
Transport Strategic Planning	BMEEOUVMsFIN02-00	4	2	1		F	2
Highway Construction and Pavement Structures	BMEEOUVMsFIN03-00	4	2			V	2
Railway Track Structures and Diagnostics	BMEEOUVMsFIN04-00	4	3			V	2
Traffic engineering	BMEEOUVMsFIN05-00	4	2			V	2
Road Safety	BMEEOUVMsFIN06-00	4	2	1		F	2
Compulsory Elective 3		3					2
Compulsory Elective 4		3					2
Elective		5					3
Economic & Human Subjects 2		5					3
Master Thesis	BMEEOUVMsFIN07-00	20		2		F	3
<b>Compulsory elective</b>							
Special Railway Systems	BMEEOUVMsFIN08-00	3	2			F	1
Railway Engineering Case Studies	BMEEOUVMsFIN09-00	3	2			F	1
Highway Infrastructure Management Systems	BMEEOUVMsFIN10-00	3	2			F	1
Economics of Civil Engineering projects	BMEEOUVMsFIN11-00	3	2			F	2
Transport Modelling	BMEEOUVMsFIN12-00	3	2			F	2
Highway Design BIM	BMEEOUVMsFIN13-00	3	2			F	2

**Specialization in Water and Hydro-Environmental Engineering**

<b>Basic subjects</b>							
<b>Name</b>	<b>Code</b>	<b>Cr</b>	<b>T</b>	<b>P</b>	<b>L</b>	<b>F/V</b>	<b>S</b>
Mathematics MSc for Civil Engineers	BMETEMIMsMMATM-00	3	1	1		F	1
Methods of Engineering Analysis	BMEEOVVMsFIN01-00	3	1	1		F	1
Numerical Methods	BMEEOAFMsFAL01-00	4			3	F	1
Ecological Engineering	BMEEOVKMsFIN01-00	6	2	1		V	1
Infrastructure Works	BMEEOHSMsFIN01-00	5	2	1		V	1
Hydroinformatics	BMEEOVVMsFIN02-00	6	1	2		V	1
Economic & Human Subjects 1		3	10				1
Design and Operation of Public Works	BMEEOVKMsFIN02-00	4	1	2		V	2
Design and operation of drinking water and wastewater tre	BMEEOVKMsFIN03-00	4	1	1		V	2
Water quality monitoring and modelling	BMEEOVKMsFIN04-00	4	1	1		F	2
Design of hydraulic structures	BMEEOVVMsFIN03-00	5	1	2		F	2
Hydromorphology	BMEEOVVMsFIN04-00	4	1	1	24f	V	2
Hydrologic modelling	BMEEOVVMsFIN05-00	3	1	1		V	2
Compulsory Elective 1		3	12				2
Compulsory Elective 2		3	12				2
Elective		5					3
Economic & Human Subjects 2		5	14				3
Master Thesis	BMEEOVVMsFIN06-00	20		2			3
Master Thesis	BMEEOVKMsFIN05-00	20		2			3
<b>Compulsory elective</b>							
Water quality management case studies	BMEEOVKMsFIN06-00	3	1	1		F	2
Drinking water and wastewater treatment case studies	BMEEOVKMsFIN07-00	3	1	1		F	2
Groundwater	BMEEOVVMsFIN07-00	3	1	1		F	2
Hydrometeorology and Climatology	BMEEOVVMsFIN08-00	3	1	1		F	2
Hydraulic measurements	BMEEOVVMsFIN09-00	3			2	F	2
Integrated water management	BMEEOVVMsFIN10-00	3	2			F	2