

CIVIL ENGINEERING BSC FROM 2025											
Specialization in Infrastructure Engineering											
Core subjects											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Mathematics Support Course	BMETEMIBsMMAT0-00	3		2		M	1				
Mathematics A1	BMETEMIBsMMAT1-00	6	4	1		E	1				
Statics Support Course	BMEEOTMBsFC001-00	3		2		M	1				
Statics	BMEEOTMBsFC002-00	5	1	4		E	1				
Civil Engineering Representation and Drawing	BMEEOEMBsfC001-00	3		2		M	1				
Geology	BMEEOGMBsFC001-00	3	1		2	E	1				
Surveying I.	BMEEOAFBsfC001-00	4	1		2	E	1				
Programming Basics	BMEEOFTBsfC001-00	3			2	M	1				
Civil Engineering Orientation	BMEEODHBsfC001-00	0	1	1		S	1				
Mathematics A2	BMETEMIBsMMAT2-00	6	4	1		E	2	F ~TEMIBsMMAT1-00			
Strength of Materials	BMEEOTMBsFC003-00	5	1	3		E	2	A ~EOTMBsFC002-00	F ~EOTMBsFC001-00		
Environmental Protection	BMEEOVKBsfC001-00	4	2	1		M	2				
Building Constructions I.	BMEEOEMBsfC002-00	5	2	1	2	M	2	F ~EOEMBsfC001-00			
Soil Mechanics	BMEEOGMBsFC002-00	4	2	2		E	2	F ~EOTMBsFC002-00	F ~EOGMBsFC001-00		
Surveying II.	BMEEOAFBsfC002-00	4	1		2	E	2	A ~EOAFBsfC001-00			
Surveying Field Course	BMEEOAFBsfC003-00	2			48 f	M	2	P ~EOAFBsfC002-00			
PE 1*		0				S	2				
Mathematics A3	BMETEMIBsMMAT3-00	3	1	2		M	3				
Civil Engineering Mechanics	BMEEOTMBsFC004-00	3	2			M	3	F ~EOTMBsFC002-00	A ~EOTMBsFC003-00		
Basis of Design	BMEEOHSBsfC001-00	3	2			M	3	F ~EOTMBsFC002-00			
Earthworks	BMEEOGMBsFC003-00	3	1	1		E	3	A ~EOGMBsFC002-00			
Construction Materials and Civil Engineering Chemistry	BMEEOEMBsfC003-00	6	3		2	E	3	A ~EOTMBsFC002-00			
Roads	BMEEOUVBsfC001-00	4	2	1		E	3				
Hydraulics	BMEEOVVBsfC001-00	3	1	1		E	3				
AEC Digitalization	BMEEOFTBsfC002-00	5	2		1	M	3	F ~EOFTBsfC001-00			
PE 2*		0				S	3				
Role of Civil Engineers in Sustainability	BMEEOEMBsfC004-00	3	1	1		M	4	F ~EOVKBsfC001-00			
Steel Structures I.	BMEEOHSBsfC002-00	3	2	1		M	4	F ~EOTMBsFC003-00	F ~EOTMBsFC004-00	F ~EOHSBsfC001-00	
Reinforced Concrete Structures I.	BMEEOHSBsfC003-00	3	2	1		M	4	F ~EOTMBsFC003-00	F ~EOTMBsFC004-00	F ~EOHSBsfC001-00	
Public Works	BMEEOVKBsfC002-00	3	2			E	4				
Railway Tracks	BMEEOUVBsfC002-00	4	2	1		E	4				
Construction Management I.	BMEEPEKBsXKIV1-00	4	2	1		M	4	F ~EOEMBsfC002-00	F ~EOGMBsFC002-00		
Basics of Hydraulic Engineering	BMEEOVVBsfC002-00	6	2	2		E	4				
Foundation Engineering	BMEEOGMBsFC004-00	4	1	2		E	4	F ~EOGMBsFC002-00	A ~EOGMBsFC003-00	A ~EOTMBsFC003-00	
Economics and Humanities Subjects											
Economics and Humanities Subject(s) 01		3					5				
Economics and Humanities Subject(s) 02		3					6				
Economics and Humanities Subject(s) 03		5					7				
Economics and Humanities Subject(s) 04		3					8				
English courses											
English for Civil Engineering 1.	BMEGT60LNGKA03-00	4					1				
English for Civil Engineering 2.	BMEGT60LNGKA04-00	4					2				
Elective subject		4					7				
Specialization in Infrastructure Engineering											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Pavement Structures of Roads	BMEEOUVBsfS018-00	3	2			E	5	F ~EOUVBsfC001-00			
Railway Track Superstructure	BMEEOUVBsfS019-00	3	2			M	5	F ~EOUVBsfC002-00			
Hydrology	BMEEOVVBsfS002-00	6	2	2		E	5	F ~EOVBsfC002-00			
Public Works Design and Operation	BMEEOVKBsfS003-00	6	3	1		E	5	F ~EOVKBsfC002-00			
Basics of Environmental Modeling	BMEEOVKBsfS002-00	3	1	1		M	5	F ~EOVKBsfC001-00			
Water Quality Management	BMEEOVKBsfS005-00	3	2	1		M	5	F ~EOVKBsfC001-00			
Compulsory Elective 1		3					5				
Urban Transport and Development	BMEEOUVBsfS020-00	4	2			E	6	F ~EOUVBsfC001-00			
Urban Rail Transit Systems	BMEEOUVBsfS021-00	5	2	1		E	6	F ~EOUVBsfC002-00	F ~EOUVBsfS019-00		
Drinking Water and Wastewater Treatment	BMEEOVKBsfS006-00	6	3	1		E	6	P ~EOVKBsfS005-00			
Hydraulic Design	BMEEOVVBsfS001-00	6	2	2		E	6	F ~EOVBsfC001-00			
Hydrometric Field Course	BMEEOVVBsfS006-00	2			24f	M	6	F ~EOVBsfC002-00			
Compulsory Elective 2		3					6				
Design of Railroads	BMEEOUVBsfS022-00	3	2			E	7	F ~EOUVBsfC002-00			
Highway Design	BMEEOUVBsfS023-00	3	2			E	7	F ~EOUVBsfC001-00			
River and Lake Management	BMEEOVVBsfS008-00	5	1	2		M	7	F ~EOVBsfS001-00			
Nature-based Solutions in Water Management	BMEEOVKBsfS007-00	6	2	2		E	7	F ~EOVBsfS002-00	F ~EOVKBsfS002-00		
Internship ^a	BMEEOVVBsfS007-00	0				S	7	F ~EPEKBsXKIV1-00	F ~EOVBsfS001-00	F ~EOVKBsfS003-00	
Internship ^b	BMEEOUVBsfS024-00	0				S	7	F ~EPEKBsXKIV1-00	F ~EOUVBsfS018-00	F ~EOUVBsfS019-00	
Compulsory Elective 3		3					7				
Project work	BMEEOVVBsfS014-00	6	2			M	7	150 credits in core and specialisation subjects			
Project work	BMEEOVKBsfS015-00	6	2			M	7	150 credits in core and specialisation subjects			
Project work	BMEEOUVBsfS025-00	6	2			M	7	150 credits in core and specialisation subjects			
Bachelor Thesis	BMEEOVVBsfS015-00	15		1		M	8	P ~EOVBsfS014-00	According to Dean's Order		
Bachelor Thesis	BMEEOVKBsfS016-00	15		1		M	8	P ~EOVKBsfS015-00	According to Dean's Order		
Bachelor Thesis	BMEEOUVBsfS026-00	15		1		M	8	P ~EOUVBsfS025-00	According to Dean's Order		
Compulsory Elective Subjects of the Specialization in Infrastructure Engineering											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Earthworks and Drainage of Transportation Infrastructure	BMEEOGMBsfS011-00	3	2			M		F ~EOGMBsfC003-00	F ~EOVBsfC002-00		
Point Cloud Technologies	BMEEOFTBsfS001-00	3	1		1	M					
Geoinformatics	BMEEOFTBsfS003-00	3	1		1	M					
Engineering Geology	BMEEOGMBsfS008-00	3	1	1		E		F ~EOGMBsfC001-00			
Blue-green Infrastructure	BMEEOVKBsfS012-00	3	1	1		M		F ~EOVKBsfC001-00			
Hydraulic Structures	BMEEOVVBsfS012-00	3	1	1		M		F ~EOVBsfC002-00			
Economics and Humanities Subjects**											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Transversal skills development subjects - Career support											
Argumentation and Logic	BMEGT41BX4K000-00	3	2			M					
Communication Skills	BMEGT43BX4K000-00	3		2		M					
Making a Presentation	BMEGT51BX4K001-00	3		3		M					
Psychology of Becoming a Leader	BMEGT52BX4K000-00	3	2			M					
Workplace Success and Intrapersonal Skills	BMEGT52BX4K002-00	3		2		M					
Transversal skill development subjects - Social integration											
Ethical Decision and Action	BMEGT41BX4T001-00	3	2			M					
Social Challenges of Climate Change	BMEGT42BX4T000-00	3	2			M					
Law in the Economy	BMEGT55BX4T000-00	3	2			M					
Legal Basics	BMEGT55BX4T002-00	3	3			M					
Create Smart! - IP Basics in Practice	BMEGT55BX4T004-00	3	2			M					
Transversal skill development subjects - Business subject group											
Introduction to Management Decisions	BMEGT20BX4U000-00	3	1	1		M					
Economic Analysis of Technology	BMEGT30BX4U000-00	3	2			M					
Finance	BMEGT35BX4U000-00	3	2			M					
Accounting	BMEGT35BX4U001-00	3	2			M					
Economics of Sustainable Development	BMEGT42BX4U000-00	3	2			M					
Circular Economy	BMEGT42BX4U001-00	3	2			M					

These are the courses that must be completed in advance (marked in green) in order to enter the specialisation, with an average grade of 3.0.

- Roads BMEEOUVBsfC001-00
- Public Works BMEEOVKBsfC002-00
- Basics of Hydraulic Engineering BMEEOVVBsfC002-00

Mobility window semesters: 5th and 8th semesters. In the case of mobility, a preliminary credit recognition procedure must be initiated at the KKB.

Prerequisites: A: weak prerequisite; F: strong prerequisite; P: parallel prerequisite

* PE 1: BMEGT70BS1A; BMEGT70BS1B; BMEGT70BS1C

PE 2: BMEGT70BS2A; BMEGT70BS2B; BMEGT70BS2C

** At least 3 credits must be completed from each of the three course groups.