

CIVIL ENGINEERING BSC FROM 2025											
Specialization in Structural 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	BMEEOVBsFC001-00	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	BMEEOVBsFC002-00	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 Structural Engineering											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Reinforced Concrete Structures II.	BMEEOHSBsFS001-00	4	2	1		M	5	F ~EOHSBsFC003-00	F ~EOEMBsFC002-00		
Steel Structures II.	BMEEOHSBsFS002-00	4	3			M	5	F ~EOHSBsFC002-00			
Bridges and Infrastructures	BMEEOHSBsFS003-00	4	2	1		E	5	F ~EOHSBsFC002-00	F ~EOHSBsFC003-00		
Building Constructions II.	BMEEOEMBsFS001-00	6	2	2		1 E	5	F ~EOEMBsFC002-00			
Analysis Methods of Structures	BMEEOTMBsFS001-00	6	2	2		E	5	F ~EOTMBsFC003-00	P ~EOTMBsFC004-00		
Timber and Masonry Structures	BMEEOHSBsFS004-00	3	2			M	5	F ~EOTMBsFC003-00	F ~EOHSBsFC001-00		
Construction Materials II.	BMEEOEMBsFS002-00	3	1			2 E	6	F ~EOEMBsFC003-00			
Underground Structures, Deep Found.	BMEEOGMBsFS001-00	4	2	1		M	6	A ~EOGMBsFC004-00	F ~EOGMBsFC003-00		
Building Constructions III.	BMEEOEMBsFS003-00	3	1	1		M	6	F ~EOEMBsFS001-00			
Steel Buildings	BMEEOHSBsFS005-00	6	3	1		E	6	F ~EOHSBsFS002-00			
Reinforced Concrete Buildings	BMEEOHSBsFS006-00	6	3	1		E	6	F ~EOHSBsFS001-00	F ~EOHSBsFS004-00		
Structural Design Project work	BMEEOHSBsFS009-00	4		2		M	6	F ~EOHSBsFS004-00	F ~EOHSBsFS001-00	F ~EOGMBsFC004-00	
Laboratory Practice of Testing of Structures and Materials	BMEEOHSBsFS011-00	3				2 M	7	F ~EOHSBsFC002-00	F ~EOHSBsFC003-00		
Construction Management II.	BMEEOEMBsFS004-00	5	1	2		E	7	F ~EPEKbsXKIV1-00			
Internship	BMEEOHSBsFS010-00	0				S	7	F ~EPEKbsXKIV1-00	F ~EOHSBsFS001-01	F ~EOHSBsFS002-01	
Structural Design and Technology	BMEEOHSBsFS012-00	6	3	1		M	7	F ~EOHSBsFS002-00	F ~EOHSBsFS001-00		
Compulsory Elective 1		3					7				
Project Work	BMEEOHSBsFS013-00	6		2		M	7	F ~EOHSBsFS005-00	F ~EOHSBsFS006-00	150 credits in core and specialisation subjects	
Compulsory Elective 2		3					8				
Bachelor Thesis	BMEEOHSBsFS014-00	15		1		M	8	P ~EOHSBsFS013-00	According to Dean's Order		
Compulsory Elective Subjects of the Specialization in Structural Engineering											
Subject Name	Code	Cr.	LE	SE	LA	S/M/E	Sem.	Preliminary Req. I	Preliminary Req. II	Preliminary Req. III	
Concrete Technology	BMEEOEMBsFS005-00	3	2			E		F ~EOEMBsFC003-00			
Point Cloud Technologies	BMEEOFTBsFS001-00	3	1			1 M					
Geoinformatics	BMEEOFTBsFS003-00	3	1			1 M					
Rock Mechanics	BMEEOGMBsFS004-00	3	1			1 M					
Engineering Geology	BMEEOGMBsFS008-00	3	1	1		E		F ~EOEMBsFC003-00			
Surveying Application in Civil Engineering	BMEEOAFBsFS016-00	3			24 f	M					
Fire Resistance	BMEEOEMBsFS015-00	3		2		M		F ~EOEMBsFC003-00			
Economic & Human 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.

- BMEEOTMBsFC004-01
- BMEEOHSBsFC002-01
- BMEEOHSBsFC003-01

The course 'Strength of Materials' (BMEEOTMBsFC003-00) must be completed with a grade of at least 3.

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

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