

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	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	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 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

* PE 1: BMEGT70BS1A; BMEGT70BS1B; BMEGT70BS1C
PE 2: BMEGT70BS2A; BMEGT70BS2B; BMEGT70BS2C

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