

CIVIL ENGINEERING BSC - SPECIALIZATION IN INFRASTRUCTURE ENGINEERING

Subject Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semesters								Preliminary Requirement(s)	
									Semester	1	2	3	4	5	6	7		8
Core subjects																		
English for Civil Engineering 1.	BMEGT63A2E1	4	4					M	1	X								
Surveying I.	BMEEOAFAT41	3	1	2				M	1	X								
Chemistry of Construction Materials	BMEEOEMAT41	2	2					M	1	X								
Civil Engineering Representation and Drawing	BMEEOEMAT42	4	2	2				M	1	X								
CAD for Civil Engineers	BMEEOFTAT41	2	2					M	1	X								
Geology	BMEEOGMAT41	3	1	2				E	1	X								
Basis of Statics and Dynamics	BMEEOTMAT41	6	5					E	1	X								
Mathematics A1a - Calculus	BMETE90AX00	6	4	2				E	1	X								
Physics for Civil Engineers	BMETE11AX13	2	2					M	1	X								
English for Civil Engineering 2.	BMEGT63A2E2	4	4					M	2		X							
Surveying II.	BMEEOAFAT42	4	2	2				E	2		X				EOAFAT41	EOFTAT41		
Construction Materials I.	BMEEOEMAT43	5	2		2			E	2		X				EOEMAT41			
Civil Engineering Informatics	BMEEOFTAT42	5	2	2				M	2		X							
Building Construction Study	BMEEOEMAT44	3	1	2				M	2		X				EOEMAT42			
Introduction to Strength of Materials	BMEEOTMAT42	6	5					M	2		X				EOTMAT41	TE90AX00*		
Hydraulics I.	BMEEOVVAT42	3	2	1				E	2		X							
Mathematics A2a - Vector Functions	BMETE90AX02	6	4	2				E	2		X				TE90AX00			
Surveying Field Course	BMEEOAFAT43	3					9	M	3			X			EOAFAT42~			
Soil Mechanics	BMEEOGMAT42	4	2	2				M	3			X			EOGMAT41	EOTMAT42		
Geoinformatics	BMEEOFTAT43	3	2	1				M	3			X						
Basis of Design	BMEEOHSAT41	3	2					M	3			X			EOTMAT41			
Structural Analysis I.	BMEEOTMAT43	4	4					E	3			X			EOTMAT42	TE90AX00		
Railway Tracks	BMEEOUVAT41	3	3					E	3			X						
Basics of Environmental Engineering	BMEEOVKAT41	3	2					M	3			X						
Public Works I.	BMEEOVKAT42	3	2	1				E	3			X			EOVVAT42			
Hydrology I.	BMEEOVVAT41	3	2	1				M	3			X						
Mathematics A3 for Civil Engineers	BMETE90AX07	4	2	2				E	3			X			TE90AX02			
Earthworks	BMEEOGMAT43	3	2	1				E	4				X		EOGMAT42			
Steel Structures	BMEEOHSAT42	3	3					M	4				X		EOTMAT42	EOEMAT43~	EOHSAT41	
Reinforced Concrete Structures	BMEEOHSAT43	3	3					M	4				X		EOTMAT42	EOEMAT43~	EOHSAT41	
Roads	BMEEOUVAT42	2	2					M	4				X		EOUVAT41			
Hydraulic Engineering, Water Manag.	BMEEOVVAT43	3	2	1				E	4				X		EOVVAT41	EOVVAT42		
Communication Skills for Civil Engineers	BMEGT60A6EO	2	2					M	4				X					
Business Law	BMEGT55A001	2	2					M	4				X					
Foundation Engineering	BMEEOGMAT45	4	3					E	5				X		EOGMAT43			
Management and Enterprise	BMEGT20A001	4	4					M	5				X					
Micro- and Macroeconomics	BMEGT30A001	4	4					E	6					X				
Construction Management	BMEEPEKAT41	3	2	1				M	6					X	EOEMAT44	EOGMAT42		
Urban and Regional Development	BMEEOUVAT43	3	2					M	7						X			
Optional subjects		4	4					M	7							X		
Branch Subjects																		
Infrastructure CAD Course	BMEEOUVAI45	1			2			M	4				X		EOUVAT41	EOFTAT41		
Water Chemistry and Hydrobiology	BMEEOVKAI43	3	2		1			E	4				X					
Legal Aspects of Water and Environment	BMEEOVKAI45	2	2					M	4				X					
Hydraulics 2	BMEEOVVAI42	3	2	1				E	4				X		EOVVAT42			
Highway and Railway Structures	BMEEOUVAI41	5	4					E	5				X		EOUVAT42			
Highway and Railway Design	BMEEOUVAI43	5	3	2				E	5				X		EOUVAT42			
Public Works 2	BMEEOVKAI41	5	2	2				E	5				X		EOVKAT42			
Urban Environment	BMEEOVKAI42	3	2			1		M	5				X		EOVKAT41			
Water Quality Management	BMEEOVKAI44	3	2	1				M	5				X		EOVKAI43			
Hydrology 2	BMEEOVVAI41	3	2	1				M	5				X		EOVVAT41			
Transportation Networks	BMEEOUVAI42	3	2					M	6					X	EOUVAT42			
Highway and Railway Laboratory Course	BMEEOUVAI44	1			3			M	6					X	EOUVAI41			
Water Resources Management	BMEEOVVAI43	3	2					E	6				X		EOVVAT43			
Hydraulic Engineering Field Course	BMEEOVVAI44	2					6	M	6				X		EOVVAI41	EOVVAI42~		
Infrastructure Design Project	BMEEODHAI41	6				2		M	6				X		EOVVAT43	EOUVAI43	EOVKAI41	
Public Administration and Land Registry	BMEEOUVAT44	3	2					M	7					X				
Earthworks and Drainage of Transportation Infra	BMEEOGMAI41	3	3					E	7					X	EOGMAT43			
Technical Internship	BMEEODHAI42	0					20	S	7						EOVVAT43	EOUVAI43	EOVKAI41	
Specialization in Infrastructure Engineering																		
Highway Planning and Design	BMEEOUVA-E1	3	2					E	7						X	EOUVAI43		
Water Damage Prevention and Water Use	BMEEOVVA-F1	5	4					E	6					X	EOVVAT43	EOVVAI41	EOVVAI42	
Drinking Water and Wastewater Treatment	BMEEOVKA-H1	4	3					E	6					X	EOVKAI41			
Railway Planning and Design	BMEEOUVA-E2	3	2					E	7					X	EOUVAI43			
River Basin Management	BMEEOVVA-F2	3	2					E	7					X	EOVVAI43	EOVKAI44		
Environmental Impact Assessment	BMEEOVKA-H3	3	3					E	7					X	EOVKAI42	EOVKAI44	EOVKAI45	
Transportation Facility Design Project	BMEEOUVA-QP	6				2		M	7					X	EODHAI41	EOUVAI44	EOUVA-E2!	
Hydraulic Engineering Design Project	BMEEOVVA-QP	6				2		M	7					X	EODHAI41	EOVVA-F1	EOVVA-F2!	
Urban Water Infrastructure Design Project	BMEEOVKA-QP	6				2		M	7					X	EODHAI41	EOVKA-H1	EOVKA-H3!	
Preparatory Course for BSc Thesis Project	BMEEODHA-QT	9						M	8						X	*EOUVA-QP	*EOVVA-QP	
Bachelor Thesis Project	BMEEODHA-QS	15						M	8						X	EODHA-QT!		
Total number of credits		240																
Total number of classes		184																
Number of exams		23																

Recommended Optional Subjects																		
Bridges and Infrastructures	BMEEOHSAS43	3	2					E	5					X	EOHSAT42	EOHSAT43		
Field Course of Structural Geodesy	BMEEOAFAS42	1			2			M	7						X	EOAFAT43	EOHSAT42	EOHSAT43
Hungarian Culture Part 1	BMEGT658363	4	4					M										

Cross semesters: EMAT44, EMAS42, HSAT42, HSAT43, HSAS-A1, HSAS-A2, TMAT42, TMAS41, UVAT42, VVAT42, DHAS41, EKAT41

A prerequisite with '!' mark indicates that the subject and the pre-required subject can be registered parallel (in the same semester).

A prerequisite with '~' mark indicates that it is enough to hold a signature from the pre-required subject in order to register the subject.