

CIVIL ENGINEERING BSC FROM 2017 - SPECIALIZATION IN STRUCTURAL ENGINEERING

Subject Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester	Semesters								Preliminary Requirement(s)		
										1	2	3	4	5	6	7	8			
Core subjects																				
English for Civil Engineering 1.	BMEGT60Z911	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.	BMEGT60Z912	4		4				M	2		X							-		
Surveying II.	BMEEOAFAT42	4	2	2				E	2		X							EOAFAT41~		
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	BMEGT60Z913	2		2				M	4				X					-		
Business Law	BMEGT55A001	2	2					M	4				X					-		
Foundation Engineering	BMEEOGMAT45	4	3					E	5					X				EOGMAT43		
Management and Business Economics	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																				
Building Construction I.	BMEEOEMAS42	3	1	2				E	4				X					EOEMAT44		
Timber Structures	BMEEOHSAS44	3	2					M	4				X					EOTMAT42	EOHSAT41	
Strength of Materials	BMEEOTMAS41	3	2					E	4				X					EOTMAT43		
Construction Materials II.	BMEEOEMAS41	3	1		2			E	5					X				EOEMAT43		
Building Construction II.	BMEEOEMAS43	3	1	2				E	5					X				EOEMAS42		
Steel and Composite Structures	BMEEOHSAS47	4	3					M	5					X				EOHSAT42	EOHSAT43	
RC and Masonry Structures	BMEEOHSAS42	4	2	1				M	5					X				EOHSAT43	EOEMAS42	
Bridges and Infrastructures	BMEEOHSAS43	3	2					E	5					X				EOHSAT42	EOHSAT43	
Laboratory Practice of Testing of Structures and	BMEEOHSAS46	2			4			M	5					X				EOHSAT42	EOHSAT43	
Structural Analysis II.	BMEEOTMAS42	4	3	1				M	5					X				EOTMAS41	TE90AX07	
Rock Mechanics	BMEEOGMAS41	3	1	1				M	6						X			EOGMAT41		
Underground Structures, Deep Found.	BMEEOGMAS42	3	2	1				M	6						X			EOGMAT45		
3D Constructional Modelling of Structures	BMEEOHSAS45	3	2					M	6						X			EOHSAT42	EOHSAT43	
Design of Structures Projectwork	BMEEODHAS41	6				2		M	6						X			EOHSAS47	EOHSAS42	EOGMAT45
Public Administration and Land Registry	BMEEOUVAT44	3	2					M	7							X				
Field Course of Structural Geodesy	BMEEOAFAS42	1			2			M	7							X		EOAFAT43!	EOEMAT44	
Dynamics of Structures	BMEEOTMAS43	3	2					M	7							X		EOTMAT43	TE90AX02	
Technical Internship	BMEEODHAS42	0					20	S	7							X		EOHSAS47	EOHSAS42	
Specialization in Structural Engineering																				
Steel Buildings	BMEEOHSAS-A1	5	3	1				E	6						X			EOHSAS47		
Reinforced Concrete Buildings	BMEEOHSAS-A2	5	3	1				E	6						X			EOHSAS42	EOHSAS44	
Building Construction Methodology	BMEEOEMA-A1	2	1	1				E	7							X		EOEMAS43		
Engineering Works	BMEEOHSAS-B3	3	2					E	7							X		EOHSAT43	EOHSAS43	EOGMAS42
Structural Design Projectwork	BMEEOHSAS-PP	6				2		M	7							X		EODHAS41	EOHSA-A1	EOHSA-A2
Preparatory Course for BSc Thesis Project	BMEEODHA-PT	9						M	8								X	EOHSA-PP		
Bachelor Thesis Project	BMEEODHA-PS	15						M	8								X	EODHA-PT!		
Total number of credits	240									32	36	33	27	32	32	25	24			
Total number of classes	184									31	33	28	25	28	22	16	0			
Number of exams	23									3	4	4	4	4	3	1	0			
Recommended Optional Subjects																				
Reinforced Concrete Bridges	BMEEOHSAS-B2	4	2	1				E	6						X			EOHSAS42	EOHSAS43	EOHSAS44
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.

Mobility window is the 8. semester.

CIVIL ENGINEERING BSC FROM 2019 - SPECIALIZATION IN INFRASTRUCTURE ENGINEERING

Subject Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester	Semesters								Preliminary Requirement(s)		
										1	2	3	4	5	6	7	8			
Core subjects																				
English for Civil Engineering 1	BMEGT60Z911	4		4				M	1	X								-		
Surveying 1	BMEEOFAT41	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	BMEGT60Z912	4		4				M	2		X							-		
Surveying 2	BMEEOFAT42	4	2	2				E	2		X							EOAFAT41~		
Construction Materials 1	BMEEOEMAT43	5	2		2			E	2		X							EOEMAT41		
Civil Engineering Informatics	BMEEOFTAT42	5	2		2			M	2		X							EOFTAT41		
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 1	BMEEOVVAT42	3	2	1				E	2		X							-		
Mathematics A2a - Vector Functions	BMETE90AX02	6	4	2				E	2		X							TE90AX00		
Surveying Field Course	BMEEOFAT43	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						EOAFAT42		
Basis of Design	BMEEOHSAT41	3	2					M	3			X						EOTMAT41		
Structural Analysis 1	BMEEOTMAT43	4	4					E	3			X						EOTMAT42	TE90AX00	
Railway Tracks	BMEEOUVAT41	3	3					E	3			X						EOAFAT41		
Basics of Environmental Engineering	BMEEOVKAT41	3	2					M	3			X						-		
Public Works 1	BMEEOVKAT42	3	2	1				E	3			X						EOVVAT42		
Hydrology 1	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	
Construction Management	BMEEPekAT41	3	2	1				M	4				X					EOEMAT44	EOGMAT42	
Business Law	BMEGT55A001	2	2					M	4				X					-		
Foundation Engineering	BMEEOGMAT45	4	3	0				E	5					X				EOGMAT43		
Management and Business Economics	BMEGT20A001	4	4					M	5					X				-		
Micro- and Macroeconomics	BMEGT30A001	4	4					E	6						X			-		
Communication Skills for Civil Engineers	BMEGT60Z913	2		2				M	6						X			-		
Urban and Regional Development	BMEEOUVAT43	3	2					M	7							X		-		
Elective subject		4	4					M	7							X				
Branch Subjects																				
Infrastructure CAD Course	BMEEOUVAI45	1			2			M	4				X					EOUVAT41	EOVKAT42	EOFTAT42
Water Chemistry and Hydrobiology	BMEEOVKAI43	3	2		1			E	4				X					EOVKAT41		
* 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				EOUVAT41	EOUVAT42	
Highway and Railway Design	BMEEOUVAI43	5	3	2				E	5					X				EOUVAT41	EOUVAT42	EOAFAT43
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	EOVVAI42	
Hydrology 2	BMEEOVVAI41	3	2	1				M	5					X				EOVVAT41		
* Transportation Networks	BMEEOUVAI42	3	2					M	6						X			EOUVAT42		
* Highway and Railway Laboratory Practice	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 Study Project	BMEEODHAI41	6				2		M	6						X			EOVVAT43	EOUVAI43	EOVKAI41
Public Administration and Land Registry	BMEEOUVAT44	3	2					M	7							X		GT55A001		
Earthworks and Drainage of Transportation Infra	BMEEOGMAI41	3	3					E	7								X	EOGMAT43	EOVVAT41	
Technical Internship	BMEEODHAI42	0					20	S	7								X	EOVVAT43	EOUVAI43	EOVKAI41
Proposed Optional Branch Subjects																				
* Building Construction I.	BMEEOEMAS42	3	1	2				E	4					X				EOEMAT44		
* Timber Structures	BMEEOHSAS44	3	2					M	4					X				EOTMAT42	EOEMAT43	
* Construction Materials II.	BMEEOEMAS41	3	1		2			E	5						X			EOEMAT43		
* Bridges and Infrastructures	BMEEOHSAS43	3	2					E	5						X			EOHSAT42	EOHSAT43	
* Rock Mechanics	BMEEOGMAS41	3	1	1				M	6							X		EOGMAT41		
* Underground Structures, Deep Found.	BMEEOGMAS42	3	2	1				M	6							X		EOGMAT45		
Specialization in Infrastructure Engineering																				
Road 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		EOVKAI44		
** Railway 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
** Transport Infrastructure Design Project	BMEEOUVA-QP	6				2		M	7							X		EODHAI41	EOUVAI42	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	*EOVKA-QP
Bachelor Thesis Project	BMEEODHA-QS	15						M	8									EODHA-QT!		
Total number of credits	240									32	37	32	28	32	30	25	24			
Total number of classes	184									31	34	27	29	28	20	15	0			
Number of exams	23									3	4	4	4	4	4	3	0			

Recommended Optional Subjects																				
Field Course of Structural Geodesy	BMEEOAFAS42	1			2			M	7							X		EOAFAT43	EOHSAT42	EOHSAT43
Satellite Positioning	BMEEOAFAG45	3	2					E	5					X				EOAFAT43		
The Digital Earth	BMEEOFTAG41	3	2	1				M	5					X				EOFTAT43		
Hungarian Language and Culture for SH Students	BMEGT60Z9H1	2		4				M		X								-		
Hungarian Language and Culture for SH Students	BMEGT60Z9H2	2		4				E			X							-		

* Note: Credits of the starred(*) Branch Subjects can be substituted by the credits of the Proposed Optional Branch Subjects as long as the preliminary requirements of the prospective specialisation subjects are fulfilled.

** Taking one project subject (UVA-QP or VVA-QP or VKA-QP) and its pre-requisites is mandatory in the specialization

Mobility window is the 8. semester.