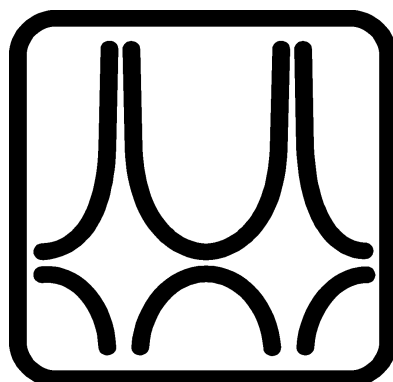




**Budapest University of Technology and Economics**

# Timetable

**International part time students  
Year 2023/24 - Spring Semester**



**Faculty of Civil Engineering**

BSc-MSc course year 2023/24 2nd semester calendar

Edu week	even(#)/odd(+)	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
----- Registration week -----								
1	+	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
2	#	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
3	+	26-Feb	27-Feb	28-Feb	29-Feb	1-Mar	2-Mar	3-Mar
4	#	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar
5	+	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar
6	#	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar
7	+	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar
8		1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr
----- Spring break -----								
9	#	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr
						Vásárhelyi Days		
10	+	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr
11	#	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
12	+	29-Apr	30-Apr	1-May	2-May	3-May	4-May	5-May
				Day off				
13	#	6-May	7-May	8-May	9-May	10-May	11-May	12-May
14	+	13-May	14-May	15-May	16-May	17-May	18-May	19-May
15	#	20-May	21-May	22-May	23-May	24-May	25-May	26-May
		Day off						
		27-May	28-May	29-May	30-May	31-May	1-Jun	2-Jun
----- Repeat week -----								
		3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun
		Exam per. start						
		10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun
		17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun
		State (Final) examination period starts						
		24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun
						Exam per. end		
		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul
			grade registration end until 14:00		State Exam per. end			

The last examination day of the subjects taught by the Faculty of Civil Engineering in the BSc program is 1st of July because of the Field courses.

Study period:

Repeat week:

Exam period:

Holiday:

**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	
<b>Core subjects</b>																		
Surveying I.	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								
Geology	BMEEOGMAT41	3	1	2				E	1	X								
Basis of Statics and Dynamics	BMEEOTMAT41	6		5				E	1	X								
Surveying II.	BMEEOFAT42	4	2	2				E	2		X							EOAFAT41~/EOAFAT45~
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							
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						
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
Foundation Engineering	BMEEOGMAT45	4	3					E	5					X				EOGMAT43
Construction Management	BMEEPEKAT41	3	2	1				M	6						X			EOEMAT44 EOGMAT42
Urban and Regional Development	BMEEOUVAT43	3	2					M	7							X		
<b>Branch Subjects</b>																		
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
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	BMEEOFAS42	1				2		M	7						X			EOAFAT43 EOEMAT44
Dynamics of Structures	BMEEOTMAS43	3	2					M	7							X		EOTMAT43 TE90AX02
<b>Specialization in Structural Engineering</b>																		
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 EOHSAS-A1 EOHSAS-A2
Preparatory Course for BSc Thesis Project	BMEEODHA-PT	9						M	8							X		EOHSAS-PP
Bachelor Thesis Project	BMEEODHA-PS	15						M	8							X		EODHA-PT!
<b>Total number of credits</b>		240									32	36	33	27	32	32	25	24
<b>Total number of classes</b>		184									31	33	28	25	28	22	16	0
<b>Number of exams</b>		23									3	4	4	4	4	3	1	0
<b>Recommended Optional Subjects</b>																		
Reinforced Concrete Bridges	BMEEOHSAS-B2	4	2	1				E	6									EOHSAS42 EOHSAS43 EOHSAS44
<b>Cross semesters: EMAT44, EMAS42, HSAT42, HSAT43, HSAS-A1, HSAS-A2, TMAT42, TMAS41, UVAT42, VVAT42, DHAS41, EKAT41</b>																		

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.

**CIVIL ENGINEERING BSC FROM 2019 - SPECIALIZATION IN INFRASTRUCTURE ENGINEERING**

Subject name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/F/S	Semester	Semesters								Preliminary requirement(s)
										1	2	3	4	5	6	7	8	
<b>Core subjects</b>																		
Surveying I.	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					-			
Geology	BMEEOGMAT41	3	1	2				E	1	X					-			
Basis of Statics and Dynamics	BMEEOTMAT41	6		5				E	1	X					-			
Surveying II.	BMEEOFAT42	4	2	2				E	2		X				EOAFAT41~/EOAFAT45~			
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				-			
Soil Mechanics	BMEEOGMAT42	4	2	2				M	3			X			EOGMAT41	EOTMAT42		
Geoinformatics	BMEEOFTAT43	3	2	1				M	3			X			EOTMAT41			
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			-			
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		
Foundation Engineering	BMEEOGMAT45	4	3					E	5					X	EOGMAT43			
Construction Management	BMEEPEKAT41	3	2	1				M	6					X	EOEMAT44	EOGMAT42		
Urban and Regional Development	BMEEOUVAT43	3	2					M	7						X	-		
<b>Branch Subjects</b>																		
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	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			
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	
<b>Proposed Optional Branch Subjects</b>																		
* 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			
<b>Specialization in Infrastructure Engineering</b>																		
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	EOVKA144			
** 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						X	EODHA-QT!		
<b>Total number of credits</b>		240																
<b>Total number of classes</b>		184																
<b>Number of exams</b>		23																

<b>Recommended Optional Subjects</b>																	
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		

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

\* 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

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.

2023/24 2nd Semester		BSc Civil Engineering 1st year			students
Monday		Tuesday	Wednesday	Thursday	Friday
8:15-10:00			EN2 Surveying II.	EN1 Constr. Mat. I. MM.L2 EN2 Constr. Mat. I. MM.L3 EN3 Constr. Mat. I. MM.L4 EN4 Constr. Mat. I. MM.P	EN5 Surveying II.
		EN4 CE Informatics			
10:15-12:00	EN2 B. Const. Study EN1 Basis of Stat.&Dyn.	Hydraulics I. K.f10	Constr. Materials I. K.f88	Surveying II. K.f88	EN6 Surveying II. EN2 CAD for Civil E. #Building Con. St.
	EN1 Intr.to Str. of M. EN2 Intr.to Str. of M. EN1 CAD for Civil E.	Civil Eng. Representation EN1 Basis of Stat.&Dyn.	+EN1 Intr. to Str. K.mf78 #EN2 Intr. to Str. K.mf78 #EN1 Hydraulics I. K.371 +EN1 Hydraulics I. K.371	CE Informatics K.f88	EN3 CE Informatics K.142a #EN1 Basis of Stat.&Dyn.
14:15-16:00	EN1 CE Informatics	EN1 Surveying II.	EN1 B. Const. Study K.183 EN2 CE Informatics K.142a	EN3/EN4 Surveying II.	EN1 Intr. to Str. of M. K.373 EN2 Intr. to Str. of M. K.mf78
		EN1 Civil Eng. Representation			
16:15-18:00					

2023/24 2nd Semester		BSc Civil Engineering 2nd year			students
Monday		Tuesday	Wednesday	Thursday	Friday
8:15-10:00	EN1 Building Const.I. K.183	#Reinf. Concr. Str. K.f12 K.f12	Reinf. Concrete Str. K.f12	Hydr. Eng. & Water Man. K.174	EN1 Soil Mechanics K.374
		#Building Constr.I.	+EN1 Hydr.Eng.&Water Man K.f10	Steel Structures	Hydraulics 2 K.f88
10:15-12:00	+ Hydrology I # Hydrology I	+Building Constr.II.	+EN2 Hydr.Eng.&Water Man K.f10		01 Hydraulics 2 K.f88
	+ Steel Structures	Structural Analysis I. K.mf78	Earthworks EA Soil Mechanics K.mf21	Timber Structures Legal Aspects of Water and Environment	
14:15-16:00	Roads EN1 Building Const.II. K.144 Railway Tracks K.373 14:15-17:00	EN1 Infrastr. CAD Course	+EN1 Earthworks #EN2 Earthworks #EN1 Public Works +EN1 Hydrology I.	Water Chem. & Hydrob. EA K.mf31 Strength of Materials K.389	Water Chem. & Hydrob. EN1 laboratory 14-18 2 * 4 hours laboratory
	Basics of Env. Eng. K.mf31	EN2 Infrastr. CAD Course 16-18	Public Works I. K.mf31	Structural Analysis I. K.372	
16:15-18:00					
18:15-19:00					

2023/24 2nd Semester		BSc Branch of Structural Engineering 3rd year			students
Monday		Tuesday	Wednesday	Thursday	Friday
8:15-10:00		Reinf. Concr. Buildings Water Resources Management BMEEOVVAI43		+Reinf. Concr. Buildings EL111 #EN1 Reinf. Concr. Build. EL111	Underground Str. BMEEOGMAS42 Highway&Railway Lab. Pr. BMEEOUVAI44
	Bridges and Infrastr. K.f12	EN1 Structural Design Projektwork K.f12 EN1 Design of Structures Projektwork Infrastructure Study Project BMEEODHAI41	EN1 3D Constr. Mod. of Str. Foundation Engineering	+Steel Buildings EL111 #EN1 Steel Buildings EL111	#EN1 Underground Str. Highway&Railway Lab. Pr. 9-12
12:15-14:00	Steel and Composite Str. Drinking Wat.&Waste. Treat. BMEEOVKA-H1 12-15	Steel Buildings BMEEOHSA-A1 Transportation Networks BMEEOUVAI42	Constr. Management K.f88 #Foundation Engineering		Reinf. Concr. Bridges K.f12 Water Util., Mater Dam.Prev. BMEEOVVA-F1
	Steel and Comp.Str. 14-15	+ Rock Mechanics #EN1/2 Rock Mechanics Water Util., Mater Dam.Prev. BMEEOVVA-F1	Engineering Works	+EN1 Constr. Management K.389 #EN2 Rock Mechanics K.136	EN1 Reinf. Concr. Bridges K.f12 14-15
16:15-18:00				Hydraulic Engineering FC BMEEOVVAI44 17-20	
Civil Engineering		Structural Engineering	Infrastructural Engineering	Bsc elective	Cross semesters

# STRUCTURAL ENGINEERING MSC PROGRAM

FROM 2017

		Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester
<b>Core Subjects</b>										
	Methods of Engineering Analysis	BMEEOHSMK51	3	1	1				M	1
	Numerical Methods	BMEEOFTMK51	4			3			M	1
	Geodynamics	BMEEOGMMS51	3	2					M	2
	FEM for Civil Engineers	BMEEOTMMS51	5	2	2				E	1
	Soil-Structure Interaction	BMEEOGMMS52	5	3	1				M	1
	Structures 1	BMEEOHSMS51	5	3	1				E	1
<b>Specialization in Numerical Modeling</b>										
<b>Obligatory Subjects</b>										
	Numerical modeling project	BMEEOTMMS5P	5				2		M	2
	Structural Dynamics	BMEEOTMMN-1	4	2	1				M	2
	Stability of Structures	BMEEOHSMT-2	4	2	1				E	2
	Nonlinear Mechanics	BMEEOTMMN-2	4	2	1				E	1
	Elective Subjects		11							
	Diploma Project	BMEEODHMN-D	20						M	3
<b>Recommended Elective Subjects</b>										
	Plasticity	BMEEOTMMN61	3	1	1				M	2
	Nonlinear FEM	BMEEOTMMN62	3	2					M	2
	Analysis of Rods and Frames	BMEEOTMMN63	3	1	1				M	2
	Discrete Element Method	BMEEOTMMN64	3	1	1				M	2
<b>Specialization in Structures</b>										
<b>Obligatory Subjects</b>										
	Structures project	BMEEOHSMS5P	5				2		M	2
	Structures 2	BMEEOHSMT-1	4	2	1				E	2
	Stability of Structures	BMEEOHSMT-2	4	2	1				E	2
	Seismic Design	BMEEOHSMT-3	4	2	1				M	2
	Structural Dynamics	BMEEOTMMN-1	4	2	1				M	2
	Elective Subjects		7							
	Diploma Project	BMEEODHMT-D	20						M	3
<b>Recommended Elective Subjects</b>										
	Applied Fracture Mechanics	BMEEOHSMT61	4	2	1				M	2
	Prestressing Technologies	BMEEOHSMT62	3	1	1				M	2
	Strengthening of Structures	BMEEOHSMT63	3	1	1				M	2
<b>Specialization in Geotechnics and Geology</b>										
<b>Obligatory Subjects</b>										
	Geotechnics and engineering geology project	BMEEOGMMS5P	5				2		F	2
	Engineering Geology MSc	BMEEOGMMG-1	4	2	1				V	2
	Environmental Geology	BMEEOGMMG-2	4	2	1				F	1
	Geotechnical Design	BMEEOGMMG-3	4	2	1				F	2
	Earthworks of Infrastructures	BMEEOGMMG-4	4	2	1				F	2
	Elective Subjects		7							
	Diploma Project	BMEEODHMG-D	20						F	3
<b>Recommended Elective Subjects</b>										
	Tunneling	BMEEOGMMG61	3	2					F	2
	Hydrogeology	BMEEOGMMG62	3	2					F	2
	Numerical Methods of Geotechnics	BMEEOGMMG63	3	1		1			F	1
	Engineering Geology of Hungary	BMEEOGMMG64	3	2					F	2

# Infrastructural Engineering Program

FROM 2021

	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester
<b>Core Subjects</b>									
Methods of Engineering Analysis	BMEEOHSMK51	3	1	1				M	1
Numerical Methods	BMEEOFTMK51	4			3			M	1
Database Systems	BMEEOFTMI51	3		2				M	2
Environmental systems	BMEEOVKMI51	4	3					E	1
Ecology	BMEEOVKMI52	3	2					M	1
Engineering works of infrastructure	BMEEOHSMI51	3	2					E	2
Dewatering	BMEEOVKMI53	3	2					M	2
<b>Specialization in Highway and Railway Engineering</b>									
<b>Obligatory Subjects</b>									
Transport strategic planning	BMEEOUVMU-1	4	2	1				M	1
Railway Station Design	BMEEOUVMU-2	4	2	1				E	2
infrastructure Management Systems	BMEEOUVMU-3	3	2					E	2
Project Management in Transportation	BMEEOUVMU-4	2	2					M	1
Elective Subjects		17							
Diploma Project	BMEEODHMU-D	20						M	3
<b>Recommended Elective Subjects</b>									
Transportation Modeling	BMEEOUVMU61	2	2					M	1
Railway Operation	BMEEOUVMU62	2	2					M	1
Pavement Structures	BMEEOUVMU63	5	4					E	2
Railway Track Structures	BMEEOUVMU64	5	2					E	1
Intelligent Transportation Systems	BMEEOFTMF61	3	1	1				M	2
Economics of Civil Engineering Projects	BMEEOUVMU65	3	2					M	2
CAD Software in Road and Rail Design	BMEEOUVMU66	3	3					M	1
<b>Specialization in Water and Hydro-Environmental Engineering</b>									
<b>Obligatory Subjects</b>									
Water and wastewater treatment II.	BMEEOVKMV-1	4	3					E	1
Water quality monitoring	BMEEOVKMV-2	2	2					M	1
Modelling of Hydrosystems	BMEEOVVMV-1	4	2	1				E	1
Hydromorphology	BMEEOVVMV-2	4	2				3	E	2
Elective Subjects		16							
Diploma Project	BMEEODHMF-D	20						M	3
<b>Recommended Elective Subjects</b>									
Design of Water-Use Structures	BMEEOVVMV61	4	2	1				M	2
Design of Water Damage Prevention Structures	BMEEOVVMV62	4	2	1				M	1
Groundwater	BMEEOVVMV63	3	2					M	2
Hydrography and Hydroinformatics	BMEEOVVMV64	5	2	2				M	2
Water and wastewater treatment plants	BMEEOVKMV61	3	2	1				M	2
Water quality management	BMEEOVKMV62	2	1	1				M	2
Public water utility systems modelling	BMEEOVKMV63	4	2	1				M	2
Reconstruction of public water utility systems	BMEEOVKMV64	3	2					M	1

**Land Surveying and Geoinformatics Program**

**FROM 2021**

		Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester
<b>Core Subjects</b>										
	Methods of Engineering Analysis	BMEEOHSMK51	3	1	1				M	1
	Numerical Methods	BMEEOFTMK51	4			3			M	1
	Geophysics	BMEEOAFMF51	3	2					M	1
	Land Management	BMEEOAFMF52	3	2					M	1
	Adjustment calculations (MSc)	BMEEOAFMF53	4	2	1				E	1
	Digital Earth	BMEEOFTMF51	5	2	1				E	1
<b>Specialization in Land Surveying and Geoinformatics</b>										
<b>Obligatory Subjects</b>										
	GNSS Theory and Applications	BMEEOAFMF-1	5	2	1				E	2
	Information Technologies	BMEEOFTMF-1	5	1	2				M	1
	Automated Surveying	BMEEOAFMF-2	5	1	2				E	2
	Applied Geoinformatics	BMEEOFTMF-2	5	1	2				M	2
	Mapping Technologies	BMEEOFTMF-3	5	1	2				E	2
	Recommended elective subjects		8	3	2					
	Diploma project	BMEEODHMF-D	20							3
<b>Recommended Elective Subjects</b>										
	Physical Geodesy and Gravimetry	BMEEOAFMF61	4	2	1				M	1
	Geodetic Networks and Projections	BMEEOAFMF62	3	2					E	2
	Intelligent Transportation Systems	BMEEOFTMF61	3	1	1				M	2
	ITS Geoinformatics	BMEEOFTMF62	2				2		M	2



2023/24 2nd Semester		MSc Specialization in Structural Engineering Fall Semester				
		Monday	Tuesday	Wednesday	Thursday	Friday
8:15-9:00	<b>Structures II.</b> BMEEOHSMT-1 EA	<b>Seismic Design</b> BMEEOHSMT-3 EA	<b>Strengthening of Str.</b> BMEEOHSMT63	EN1 Numerical Methods	*+Meth. of Eng. Analysis BMEEOHSMK51 EA, K.f12	
9:15-10:00					#EN1 Meth. of Eng. An.	
10:15-11:00	<b>EN1 Structures II.</b>	EN1 Seismic Design 10-11	EN1 Structures Project BMEEOHSMS5P		<b>Prestressing Tech.</b> BMEEOHSMT62, K.f12	
11:15-12:00	<b>Structural Dynamics</b> BMEEOTMMN-1 EA		EN2 Numerical Methods		EN1 Prestressing Tech.	
12:15-13:00			<b>Geodynamics</b> BMEEOGMMS52 EA		<b>Stability of Structures</b> BMEEOHSMT-2 EA	+EN1 Numerical Meth.
13:15-14:00	EN1 Structural Dynamics					+EN2 Numerical Meth.
14:15-15:00	<b>Applied Fracture Mech.</b> BMEEOHSMT61 EA				EN1 Stability of Str. 14-15	
15:15-16:00						
16:15-17:00	01 Appl. Fracture Mech. 16-17					
17:15-18:00	EN3 Numerical Methods					
18:00-19:00	16-19					

2023/24 2nd Semester		MSc Specialization in Numerical Modelling Fall Semester					
		Monday	Tuesday	Wednesday	Thursday	Friday	
8:15-9:00	<b>Stability of Structures</b> BMEEOHSMT-2 EA				EN1 Numerical Mod. Pr. BMEEOTMMS5P K.mf78	*+Meth. of Eng. Analysis BMEEOHSMK51 EA, K.f12	
9:15-10:00					#EN1 Meth. of Eng. An.		
10:15-11:00	EN1 Stability of Structures 10-11		EN2 Numerical Meth.	<b>An. of Rods&amp;Frames</b> BMEEOTMMN63	EN1 An. of Rods&Frames		
11:15-12:00	<b>Structural Dynamics</b> BMEEOTMMN-1 EA	<b>Nonlinear FEM</b> BMEEOTMMN62 EA				+EN1 Numerical Meth.	
12:15-13:00				<b>Geodynamics</b> BMEEOGMMS52 EA K.389		+EN2 Numerical Meth.	
13:15-14:00	EN1 Structural Dynamics						
14:15-15:00				<b>Plasticity</b> BMEEOTMMN61 EA			
15:15-16:00					EN1 Plasticity		
16:15-17:00	EN3 Numerical Methods						
17:15-18:00	16-19						
18:00-19:00							

2023/24 2nd Semester		MSc Specialization in Geotechnics and Geology Fall Semester					
		Monday	Tuesday	Wednesday	Thursday	Friday	
8:15-9:00	<b>Eng. Geology MSc</b> BMEEOGMMG-1 EA			<b>Hydrogeology</b> BMEEOGMMG62 EA	EN1 Numerical Methods	*+Meth. of Eng. Analysis BMEEOHSMK51 EA, K.f12	
9:15-10:00						#EN1 Meth. of Eng. An.	
10:15-11:00	EN1 Eng. Geology MSc		EN2 Numerical Meth.			+EN1 Numerical Meth.	
11:15-12:00	<b>Earthworks of Infrastr.</b> BMEEOGMMG-4 EA	<b>Eng. Geology of HU</b> BMEEOGMMG64 EA				<b>Geodynamics</b> BMEEOGMMS51 EA	EN1 Geotech. projekt BMEEOGMMS5P
12:15-13:00							
13:15-14:00	EN1 Earthw. of Infrastr.						
14:15-15:00	<b>Tunneling</b> BMEEOGMMG61 EA			<b>Geotechnical Design</b> BMEEOGMMG-3 EA			
15:15-16:00							
16:15-17:00	EN3 Numerical Methods			EN1 Geotech. Design			
17:15-18:00	16-19						

Core Subjects	Structural Engineering	Numerical Modelling	Geotechnics&Geology	Electiv
		Cross Semester		

2023/24 2nd Semester		MSc Specialization in Highway and Railway Engineering Power Plants Fall Semester				
Monday		Tuesday	Wednesday	Thursday	Friday	
8:15-9:00	<b>Railway Station Des.</b> BMEEOUVMU-2 EA	<b>Int. Transp. Syst.</b> BMEEOFTMF61 EA	EN1 Database Systems	EN1 Numerical Methods	<b>Pavement Structures</b> BMEEOUVMU63 EA	
9:15-10:00		EN1 Intellig. Transp.Syst.				
10:15-11:00	<b>01 Railway Station Des.</b>	<b>Transport economics</b> BMEEOUVMU65 EA	EN2 Numerical Methods	<b>Pavement Structures</b> BMEEOUVMU63 EA	+EN1 Numerical Meth.	
11:15-12:00						
12:15-13:00	<b>Dewatering</b> BMEEOVKMI53 EA K.mf79	<b>Infrastr. Manag. Syst.</b> BMEEOUVMU-3 EA	EN2 Database Systems		+EN2 Numerical Meth.	
13:15-14:00						
14:15-15:00				<b>Engin. works of infrastr.</b> BMEEOHSMI51 EA		
15:15-16:00						
16:15-17:00						
17:15-18:00						
18-19						
19-20						

2023/24 2nd Semester		MSc Specialization in Water and Hydro-Environmental Engineering Fall Semester				
Monday		Tuesday	Wednesday	Thursday	Friday	
8:15-9:00	<b>Groundwater</b> BMEEOVVMV63 EA	<b>Pub. water ut.Syst.Mod.</b> BMEEOVKMV63 EA	EN1 Database Systems	EN1 Numerical Methods	<b>Desg.of Water-Use Str.</b> BMEEOVVMV61 EA K.371	
9:15-10:00				<b>Hydrogr. &amp; Hydroinf.</b> BMEEOVVMV64 EA		
10:15-11:00	<b>Water quality manag.</b> BMEEOVKMV62 EA	EN1 Pub. water ut.Syst.Mod.	EN2 Numerical Methods	EN1 Hydrogr. & Hydroinf.	EN1 Desg.of W.Use Str.	
11:15-12:00	EN1 Water quality manag.	<b>Water&amp;wastw.Treat.plan.</b> BMEEOVKMV61 EA			+EN1 Numerical Meth.	
12:15-13:00	<b>Dewatering</b> BMEEOVKMI53 EA K.mf79		EN2 Database Systems	<b>Hydromorphology</b> BMEEOVVMV-2 EA	+EN2 Numerical Meth.	
13:15-14:00		Water&wastw.Treat.plan. EN1				
14:15-15:00				<b>Engin. works of infrastr.</b> BMEEOHSMI51 EA		
15:15-16:00						
16:15-17:00	EN3 Numerical Methods					
17:15-18:00	16-19					
18-19						
19-20						

2023/24 2nd Semester		MSc Specialization in Land Surveying and Geoinformatics Fall Semester				
Monday		Tuesday	Wednesday	Thursday	Friday	
8:15-9:00	<b>GNSS Theory &amp; App.</b> BMEEOAFMF-1 EA K.f27a	<b>Intelligent Transp. Syst.</b> BMEEOFTMF61		EN1 Numerical Methods		
9:15-10:00		EN1 Intellig. Transp.Syst.				
10:15-11:00	+EN1 GNSS Theory&App. K.f27a	EN1 ITS Geoinformatics K.142b	EN2 Numerical Methods	EN1 Automated Surveying K.f27c	+EN1 Numerical Meth.	
11:15-12:00						
12:15-13:00		<b>Applied Geoinformatics</b> BMEEOFTMF-2		<b>#Automated Surveying</b> BMEEOAFMF-2 EA K.f27c	+EN2 Numerical Meth.	
13:15-14:00		EN1 Applied Geoinfor. K.142b				
14:15-15:00						
15:15-16:00		<b>Mapping Techn.</b> BMEEOFTMF-3				
16:15-17:00	EN3 Numerical Methods	EN1 Mapping Techn. K.142b				
17:15-18:00	16-19					
18-19						
19-20						

A mintaórárendben használt jelölések:

Core Sbjcts	Infrastructural Eng.	Highway and Railway Engineering
Land Surveying and Geoinformatics		Water and Hydro-Environmental Engineering