Orientation meeting 2022 spring

Tamás Lovas

Vice dean for education

Olivér Fenyvesi

Course director

Nóra Gáspár

CAO Admin for pre-eng and BSc students

Nikoletta Rozbora

CAO Admin for pre-MSc and MSc students

Course director since 2018 fall

Dr. Oliver Fenyvesi

fenyvesi.oliver@emk.bme.hu

Room K.I.85/9.

- Contact course director wrt all educational matters except:
  - The ones related to a particular subject (grading, retake options etc.)
  - The ones regulated in the Code of Studies
  - The ones regulated by the Faculty Study Committee (see homepage)
  - The ones related to you scholarship administration

BME Faculty of Civil Engineering

- Pre-engineering – 1 year
- BSc – 4 year
- Pre-MSc – 0.5-1 year
- MSc – 1.5 year

- Stipendium Hungaricum students
- SCYP students
- Regular students
- Erasmus students
- Other exchange students

Pre-Engineering

- 1st semester
  - Basic Mathematics I.
  - Basic Informatics
  - Engineering Sciences
  - Technical Drawing
  - Compulsory English for Pre-Eng. Students I.
- 2nd semester
  - Basic Mathematics II.
  - Basic Mechanics
  - Basic Surveying
  - Basic Hydraulics
  - Fundamental of Structures
  - Compulsory English for Pre-Eng. Students II.

BSc

- 3 specializations
  - Structural engineering
  - Infrastructure engineering (only if minimum number of students apply in November)
  - Geoinformatics engineering (only if minimum number of students apply in November)
- Technical internship
- Diploma project
  - Preparatory Course for BSc Thesis Project (9 credits)
  - Bachelor Thesis Project (15 credits)

CIVIL ENGINEERING BSC FROM 2017 - SPECIALIZATION IN STRUCTURAL ENGINEERING

Subject Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester	Semesters 1	2	3	4	5	6	7	8	Preliminary Requirement(s)		
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 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	BMEEOHSA-A1	5	3	1				E	6						X			EOHSAS47		
Reinforced Concrete Buildings	BMEEOHSA-A2	5	3	1				E	6						X			EOHSAS42	EOHSAS44	
Building Construction Methodology	BMEEOEMA-A1	2	1	1				E	7							X		EOEMAS43		
Engineering Works	BMEEOHSA-B3	3	2					E	7							X		EOHSAT43	EOHSAS43	EOGMAS42
Structural Design Projectwork	BMEEOHSA-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-PTI		
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			
Recommendeded Optional Subjects																				
Reinforced Concrete Bridges	BMEEOHSA-B2	4	2	1				E	6									EOHSAS42	EOHSAS43	EOHSAS44
Hungarian Culture Part 1	BMEGT65B363	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 semeter).
A prerequisite with '" mark indicates that it is enough to hold a signature from the pre-required subject in order to register the subject.

	Code	Credit	Lecture	Seminar	Laboratory	Conzultation	Day	M/E/S	Semester
Core Subjects									
Advanced Mathematics	BMETE90MX33	3	2	1				E	1
Physics Laboratory	BMETE11MX22	1			1			M	2
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
Decision Supporting Methods	BMEEPEKMST4	2	2					M	3
Accounting, Controlling, Taxation	BMEGT35M014	2	2					M	3
Corporate Finance	BMEGT35M411	2	2					M	3
Engineering Ethics	BMEGT41M004	2	2					M	3
Optional Subjects		5							
Specialization in Numerical Modeling									
Obligatory Subjects									
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
Recommended Elective Subjects									
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
Specialization in Structures									
Obligatory Subjects									
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
Recommended Elective Subjects									
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
Specialization in Geotechnics and Geology									
Obligatory Subjects									
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
Recommended Elective Subjects									
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

BSc program - requirements

- Pre-requisites cannot be bypassed
  - Even not by request based on equity (Faculty chance)
- Accreditation only in registration period
  - Subjects before BME can be accredited just in the 1st semester!
- Special rules for projectwork (6th and 7th semester) enrollment
  - https://epito.bme.hu/sites/default/files/page/projectwork%20enrollment%20special%20rules%202019.pdf
  - https://epito.bme.hu/sites/default/files/page/Projectwork%20in%20exam%20period%202020.pdf

Pre-MSc

- 1st semester

Foundation Engineering	BMEEOGMAT45	4
Steel and Composite Structures	BMEEOHSAS41	4
Reinforced concrete structures	BMEEOHSAT43	3
Engineering Works	BMEEOHSA-B3	3
Structural Analysis II.	BMEEOTMAS42	4
Bridges and Infrastructures	BMEEOHSAS43	3
Design of Structures Projectwork	BMEEODHAS41	6
Total number of credits		29

- 2nd semester

Rock Mechanics	BMEEOGMAS41	3
Underground Structures, Deep Found.	BMEEOGMAS42	3
3D Constructional Modelling of Structures	BMEEOHSAS45	3
Steel Buildings	BMEEOHSA-A1	5
Reinforced Concrete Buildings	BMEEOHSA-A2	5
Reinforced Concrete Bridges	BMEEOHSA-B2	4
Structural Design Projectwork	BMEEOHSA-PP	6
Total number of credits		29

- To be transferred to MSc after 1 semester:
  - All credits earned
  - At least 3.5 GPA
  - 3 and higher grades for all courses
- To be transferred to MSc after 2 semesters (or 1 extended semester):
  - 2/3 of credits

MSc Structural Eng.

- 3 specializations
  - Numerical modeling
  - Structures
  - Geotechnics and Geology

Specialization in Numerical Modeling
Obligatory subjects
Structural Dynamics
Stability of Structures
Nonlinear Mechanics
Diploma Project
Recommended elective subjects
Plasticity
Nonlinear FEM
Analysis of Rods and Frames
Discrete Element Method

Specialization in Structures
Obligatory subjects
Structures 2
Stability of Structures
Seismic Design
Structural Dynamics
Diploma Project
Recommended elective subjects
Applied Fracture Mechanics
Prestressing Technologies
Strengthening of Structures

Specialization in Geotechnics and Geology
Obligatory subjects
Engineering Geology MSc
Environmental Geology
Geotechnical Design
Earthworks of Infrastructures
Diploma Project
Recommended elective subjects
Tunneling
Hydrogeology
Numerical Methods in Geotechnics
Engineering Geology of Hungary

MSc in Infrastructural Eng.

- Specialization in Highway and Railway Engineering
- Specialization in Water and Hydro-Environmental Engineering

Transport strategic planning		BMEEOUVMU-1
Railway Station Design		BMEEOUVMU-2
infrastructure Management Systems		BMEEOUVMU-3
Project Management in Transportation		BMEEOUVMU-4
Elective Subjects 1st semester	7	
Elective Subjects 2nd semester	10	
Diploma Project BMEEODHMU-D	20	
Transportation Modeling		BMEEOUVMU61
Railway Operation		BMEEOUVMU62
Pavement Structures		BMEEOUVMU63
Railway Track Structures		BMEEOUVMU64
Intelligent Transportation Systems		BMEEOFTMF61
Transport economics		BMEEOUVMU65
CAD Software in Road and Rail Design		BMEEOUVMU66

Water and wastewater treatment II.		BMEEOVKMV-1
Water quality monitoring		BMEEOVKMV-2
Modelling of Hydrosystems		BMEEOVVMV-1
Hydromorphology		BMEEOVVMV-2
Elective Subjects 1st semester	4	
Elective Subjects 2nd semester	12	
Diploma Project		BMEEODHMV-D
Design of Water-Use Structures		BMEEOVVMV61
Design of Water Damage Prevention Structures		BMEEOVVMV62
Groundwater		BMEEOVVMV63
Hydrography and Hydroinformatics		BMEEOVVMV64
Water and wastewater treatment plants		BMEEOVKMV61
Water quality management		BMEEOVKMV62
Public water utility systems modelling		BMEEOVKMV63
Reconstruction of public water utility systems		BMEEOVKMV64

MSc in Land Surveying and Geoinformatics Engineering

Obligatory Subjects		
GNSS Theory and Applications	BMEEOAFMF-1	
Information Technologies	BMEEOFTMF-1	
Automated Surveying	BMEEOAFMF-2	
Applied Geoinformatics	BMEEOFTMF-2	
Mapping Technologies	BMEEOFTMF-3	
Elective Subjects	8	
Diploma Project	BMEEODHMF-D20	
Recommended Elective Subjects		
Physical Geodesy and Gravimetry		BMEEOAFMF61
Geodetic Networks and Projections		BMEEOAFMF62
Intelligent Transportation Systems		BMEEOFTMF61
ITS Geoinformatics		BMEEOFTMF62 2

Semester schedule

- Holidays
- University events
- Retake days
- Repeat/make-up week
- Exam period

BSc-MSc course year 2021/22 2nd semester calendar

Edu week	even(#)/odd(+)	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb
		---------- Registration week ----------						
1	+	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
		Study period start						
2	#	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb
3	+	28-Feb	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar
4	#	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar
5	+	14-Mar Holyday	15-Mar National holiday	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
6	#	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar Workday (Monday)	27-Mar
7	+	28-Mar	29-Mar	30-Mar	31-Mar	1-Apr	2-Apr	3-Apr
8	#	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr	10-Apr
9	+	11-Apr	12-Apr	13-Apr	14-Apr Spring hoiliday	15-Apr Good Friday	16-Apr	17-Apr Easter
10	#	18-Apr Easter	19-Apr Spring hoiliday	20-Apr Spring hoiliday	21-Apr	22-Apr	23-Apr	24-Apr
11	+	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr	1-May Workers' Day
12	#	2-May	3-May	4-May	5-May	6-May	7-May	8-May
13	+	9-May	10-May	11-May	12-May	13-May	14-May	15-May
14	#	16-May	17-May	18-May	19-May	20-May Study period end	21-May	22-May
		23-May	24-May	25-May	26-May	27-May	28-May	29-May
		---------- Repeat week ----------						
		30-May State Exam per. start	31-May	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun Pentecost
		Exam per. start						
		6-Jun Pentecost	7-Jun	8-Jun	9-Jun	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	24-Jun	25-Jun	26-Jun
		27-Jun Exam per. end	28-Jun	29-Jun	30-Jun	1-Jul State Exam per. end	2-Jul	3-Jul

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

Diligence period:

Repeat week: Exam period: Holiday:

Communication – who should I contact?

- Lecturer-professor
  - Wrt course schedule, tests, retake/repeat, exam etc.
- Vice-dean/course director
  - Any specific educational issues; wrt educational progress, curricula, requests
- Dean’s office
  - Only PhD students
- Central Academic Office
  - Any administrative matters; Neptun issues, scholarship issues, scholarship extension etc.
- SH mentors
  - students' personal issues, accomodation/dormitory issues
- Tempus
  - Scholarship issues, changing education programs etc.

Communication – etiquette

- **First of all check the CAO/Faculty homepage and newsletters!**
- Email
  - Addressing
  - All required data (e.g. Neptun code is necessary every time)
  - Previous actions
  - Respectful communication
- In person
  - Ask for appointment in advance
  - Contact lecturers in consultation hours
  - Respectful communication

Contacting professors

- About points/grades: there’s no “please, give me one more point”!
- Professors have nothing to do with students' personal issues, health condition, scholarship status, do not refer such matters/cases!
- Professors are not obliged to reply multiple emails/requests/Teams questions.
- Professors should by contacted in an appropriate manner – politely, respectfully
- Professors will report inappropriate student communications to the Faculty
  - Faculty reports to BME and to Tempus
- Always check subject requirements first!
- Check Code of Studies what is allowed and what isn’t!

https://www.kth.bme.hu/document/2500/original/BME_Code_of_Studies_2016_01112020_ENG_mod.pdf

General info

- Code of Studies and Exams (kth.bme.hu)
- Faculty of Civil Engineering - curriculum (epito.bme.hu)
- Education portal edu.epito.bme.hu
  - Support from lecturer/professor
  - Infosite
- Request regarding tuition fees should be only submitted through Neptun!
  - https://kth.bme.hu/en/general-information/about-neptun/

Academic honesty, sanctions against academic and exam offences

- Code of studies - Title 32
- Checking identity at exams, tests
- Academic and exam offence
  - Using aids that are not allowed
  - Requesting/accepting any assistance from other students
  - Changing (or attemptimg to change) corrected/assessed tests/assignments
  - Acting in place of another person
- Failing the course (no credit)
- Professor – Dean’s office – Disciplinary procedure
- Report to Tempus

Academic honesty, sanctions against academic and exam offences

- Cases
  - Cheating during test (from material not allowed, help from other students)
  - Submitted test/home assignment is created by an other student
  - Cheating during oral exam
- Solutions
  - Short deadline, going back in the test sheet is prohibited, minus points for wring answers
  - Checking IP-s during online tests
  - Plagiarism detection software
  - Changing course requirements – focusing on evaluations that can be controlled better
  - Motivating continuous learning during semester
  - New, creative test methods

Repeat period – May 23-27

- Missed classes and some of the failed tests (should be discussed with lecturer) can be repeated.
- Part of tests can be repeated by paying extra fee. In this case the type of test (written/oral) might change!
- Homeworks and assignments can be submitted until May 27 by paying the extra fee.
- Ask the lecturer about the repeat options!
- Pre-exams of some subjects can also be taken in the repeat period.

Exam period: May 30 – Jun 27

- All exams can be repeated once, but an exam can be repeated no more than 5 times (overall 6 exams/course).
  - A course cannot be taken/registered more than 6 times
- An exam can be cancelled without consequences a day before, until noon.
- For SH and SCYP students: min. 36 credit points in the last two active semesters is not achieved the student will lost the scholarship!

Subject enrolment I.

- Starts in January/August and closes at the end of the registration week (February/August). It's highly recommended to be registered in the very beginning! Courses with less than 6 students will be cancelled on the registration week Monday!
- Clash detection in the schedule is the students' responsibility. For 1st year students the Faculty register the subjects, in case of problem the Course Director can help.
- Having the signature of a subject, its exam course can be taken, no need to attend the classes and do the tests again.
- In case of branch and specialization courses, the signature might be sufficient to fulfil the pre-requirement.
- Courses cannot be changed from the 2nd week of the semester.

CIVIL ENGINEERING BSC FROM 2017 - SPECIALIZATION IN STRUCTURAL ENGINEERING

Subject Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester	Semesters 1	2	3	4	5	6	7	8	Preliminary Requirement(s)		
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 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	BMEEOHSA-A1	5	3	1				E	6						X			EOHSAS47		
Reinforced Concrete Buildings	BMEEOHSA-A2	5	3	1				E	6						X			EOHSAS42	EOHSAS44	
Building Construction Methodology	BMEEOEMA-A1	2	1	1				E	7							X		EOEMAS43		
Engineering Works	BMEEOHSA-B3	3	2					E	7							X		EOHSAT43	EOHSAS43	EOGMAS42
Structural Design Projectwork	BMEEOHSA-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-PTI		
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			
Recommendeded Optional Subjects																				
Reinforced Concrete Bridges	BMEEOHSA-B2	4	2	1				E	6									EOHSAS42	EOHSAS43	EOHSAS44
Hungarian Culture Part 1	BMEGT65B363	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 semeter).
A prerequisite with '" mark indicates that it is enough to hold a signature from the pre-required subject in order to register the subject.

	Code	Credit	Lecture	Seminar	Laboratory	Conzultation	Day	M/E/S	Semester
Core Subjects									
Advanced Mathematics	BMETE90MX33	3	2	1				E	1
Physics Laboratory	BMETE11MX22	1			1			M	2
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
Decision Supporting Methods	BMEEPEKMST4	2	2					M	3
Accounting, Controlling, Taxation	BMEGT35M014	2	2					M	3
Corporate Finance	BMEGT35M411	2	2					M	3
Engineering Ethics	BMEGT41M004	2	2					M	3
Optional Subjects		5							
Specialization in Numerical Modeling									
Obligatory Subjects									
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
Recommended Elective Subjects									
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
Specialization in Structures									
Obligatory Subjects									
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
Recommended Elective Subjects									
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
Specialization in Geotechnics and Geology									
Obligatory Subjects									
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
Recommended Elective Subjects									
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

Subject enrolment II.

- In case only 3-4 semesters are remaining, it's recommended to create a subject enrolment plan and check whether all subjects can be passed based on the pre-requisites and minimum requirements.
- Special rules for taking projectworks, and rules for taking thesis projects!
- Always check the updated timetable/schedule on the homepage!
- Optional subject: e.g. Reinforced concrete bridges (in the 6th semester) – always check whether it runs, in advance!
- For optional course any BME course can be selected, but BSc students can select only BSc courses, MSc students only MSc courses
- Cross-semesters
  - Faculty monitoring
  - Students' request
    - Request signed by min. 15 students *(who would slip a semester)* before the final registration period
    - Department is willing to and able to open the course
    - Faculty is able to provide room for the course

Tuition fee

- Tuition fee reduction is possible under 24 registered credits in a semester (by Neptun request). Should be approved by BME, not guaranteed!
- If justified, late payment or split payment can be requested (in Neptun), in this case please keep all the deadlines given in the Neptun!
- In case of passive semester, the transferred tuition fee can not be validated in the next semester. This regulation has been changed.

Practical training – technical internship

- Practical training accomplished at the home country can be approved based on certification that states the student worked at least 6 weeks, and the company works in the field related to civil engineering construction.
- Positions at Hungarian companies can be applied, in this case BME issues document certifying the student status and the aim of the practical training course.
  - epito.bme.hu – education – BSc – Technical internship BMEEODHAS42
- Laboratories and departments of the Faculty can also be asked whether there are a project to join for at least 6 weeks in the summer.
- Besides the certificate, a ~10 page report is to be submitted.

Accreditation, summer course etc.

- In the credit system credits from civil engineering programs from same or higher level e.g. from BSc to BSc can be accredited/approved.
- Course that are previously accepted by the BME professor of particular BME course can be approved. General rule: reasonable thematic overlap and at least the same number of credits are required.

Diploma project

- Supervisor should be found and contacted in the previous semester.
- One industrial supervisor is required (ask the BME supervisor for support)!
- Co-supervisors can be involved from other departments or even from abroad.
- BSc from 2018 spring
  - Preparatory course for BSc thesis project
  - Bachelor thesis project

Diploma project – registration requirements

- BSc thesis
  - Min. 204 credits
  - All core subjects
  - Min. 39 credits of branch subjects
  - Min. 15 credits of specialisation subjects
  - Should be taken together with Preparatory Course for Bachelor thesis project
- MSc thesis
  - Min. 54 credits
  - Min. 29 credits of core subjects
  - Min. 8 credits of obligatory specialisation subjects

Recommendations

- Course registration
  - Do it in time!
  - Check clashing courses in schedule!
  - Support only for civil engineering courses and courses from CE curricula!
- Failing tests/exams
  - Contact the lecturers, professors in time, ask for consultation!
- Rules/regulations
  - Attending classes
  - Late arrival
- Use the Faculty Educational portal oktatas.epito.bme.hu
  - Supporting materials
  - Submitting home assignments
- Cheating/plagiarism is not tolerated at all!
- Sports & language

Education method in 2022 spring

- Face-to-face education
- Potential switch to hybrid education system during the semester
  - Takes days – potential extra break in the education program
  - New timetable/schedule

Thank you for your attention!