




Orientation meeting 2024 spring

- Dr. Nauzika Kovács
 - Vice dean for education
 - Dr. Olivér Fenyvesi
 - Course director
 - Ms. Nóra Gáspár
 - CAO admin for civil engineering students
 - program coordinator
- 

Course director since 2018 fall

Dr. Olivér 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 your scholarship administration



Vice-dean since 2022

Dr. Nauzika Kovács

kovacs.nauzika@emk.bme.hu

Room K.mf.85/21.

- Contact the Vice-dean:
 - Specific educational issues; wrt educational progress, curricula, requests if the Course Director can not help you!



BME Faculty of Civil Engineering

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

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



Pre-Engineering 2nd semester

2. semester Q3

	Mon	Tue	Wed	Thu	Fri
8-10	English	Study room (optional)	English	Study room (optional)	English
10-12	Physics/Chemistry	Physics/Chemistry	Mathematics	Engineering courses	Mathematics
12-14	Mathematics	Mathematics	Physics/Chemistry	Mathematics	Engineering courses
14-16	Engineering courses	Engineering courses	Study room (mandatory)	Study room (mandatory)	Study room (optional)

2. semester Q4

	Mon	Tue	Wed	Thu	Fri
8-10	English	Study room (optional)	English	Study room (optional)	English
10-12	Physics/Chemistry	Physics/Chemistry	Mathematics	Engineering courses	Mathematics
12-14	Mathematics	Mathematics	Mathematics	Mathematics	Engineering courses
14-16	Engineering courses	Engineering courses	Study room (mandatory)	Study room (mandatory)	Study room (optional)

BSc in Civil Engineering

2 specializations
choice by **end of
3rd semester!**

Structural engineering

<https://epito.bme.hu/sites/default/files/page/BSc%20mintatanterv%2020231221%20Eng%20structural.pdf>

Infrastructure engineering **do not start in 2024!**

https://epito.bme.hu/sites/default/files/page/BSc%20infrastructure%20engineering%20curriculum%20final_2.pdf

Technical
internship

<https://epito.bme.hu/node/17395>

Diploma
project

Preparatory Course for BSc Thesis Project (9 credits)
Bachelor Thesis Project (15 credits)

BSc program - requirements

- Pre-requisites cannot be bypassed
 - Even not by request based on equity (Faculty chance)
- ~~Accreditation only in registration period~~
- **All obligatory (not starred) subject should be passed!**
- Special rules for projectwork (6th and 7th semester) enrolment (valid also for infrastructural engineering students!)
 - <https://epito.bme.hu/node/18152>

Pre-MSc

- 1st semester

Foundation Engineering	BMEEOGMAT45	4
Steel and Composite Structures	BMEEOHSAS41	4
Reinforced concrete structures	BMEEOHSAT43	3
Engineering Works	BMEEOHS-A-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	BMEEOHS-A-A1	5
Reinforced Concrete Buildings	BMEEOHS-A-A2	5
Reinforced Concrete Bridges	BMEEOHS-A-B2	4
Structural Design Projectwork	BMEEOHS-A-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

MSc in Construction Information Technology Engineering

MSc program in Construction Information Technology Engineering										
English Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Practical	Other	Midterm***	Semester****
Core Subjects										
Numerical Methods	BMEEQAFMB51	4			2				E	1
Construction Information Technology Mathematics	BMETE90MX_63	3	2						E	1
Building Information Modelling	BMEEOFTMB51	3	2						M	1
Decision Support Methods	BMEEPEKMB51	2	2						M	1
Construction Information Technology Engineering Project	BMEEODHMB5P	6				2			M	1
BIM Modelling and Design	BMEEOFTMB52	5			4				E	2
Civil Engineering Automation, Modelling	BMEEHSMBS1	5	1	2					E	2
Construction Information Technology Programming	BMEEVIAUM_B51	6	1	4					M	2
Complex Construction IT project	BMEEODHMB5K	6				2			M	2
Argumentation, Negotiation, Presentation	BMEGT41M_B51	3	2						M	3
Technology Assessment	BMEGT41M_B52	2	2						M	3
*** Diploma Project	BMEEODHMB-D	20					1		M	3
Obligatory and recommended Elective Subjects										
1 st Obligatory Elective Subject*		8	2	4					E	1
2 nd Obligatory Elective Subject*		4	1	2					M	1
1 st Recommended Elective Subject*		4	2	1					M	2
2 nd Recommended Elective Subject*		4	2	1					M	2
Optional subjects	BMEEO	5							M	3
*Students with a BSc degree in Civil Engineering or Architecture (Student Group I)										
Obligatory Elective Subjects (at least 12 credits to complete)										
Programming	BMEEVIEEM_B-1	8	2	4					E	1
Database Systems	BMEEOFTMB-1	4	1	2					M	1
Recommended Elective Subjects (at least 8 credits to complete)										
Structural Dynamics	BMEEOTMMN-1	4	2	1					M	2
Stability of Structures	BMEEHSMT-2	4	2	1					E	2
FEM for Engineers	BMEEOTMMB-2	4	1	2					M	2
Numerical Methods in Geotechnics	BMEEOGMMB61	4	1		1				M	2
Automated Survey Systems	BMEEQAFMB61	4	1	2					M	2
Electrical Systems in Buildings	BMEEVIVEM_B61	4	2						E	2
HVAC Basics	BMEEGEEEM_B61	4	2						M	2
*Students with a BSc degree in Mechanical Engineering/ Energy Engineering/ Mechatronics Engineering/ Electrical Engineering/ Computer Science (Student Group II.)										
Obligatory Elective Subjects (at least 12 credits to complete)										
Building Constructions	BMEEOEMMB-1	8	2	4					M	1
Finite Element Modelling	BMEEOTMMB-1	4	1	2					E	1
Recommended Elective Subjects (at least 8 credits to complete)										
Construction Management	BMEEPEKMB61	4	2	1					M	2
Civil Engineering Structures and Modelling	BMEEHSMB61	4	2	1					M	2
Constructions of Buildings and Structures	BMEEOEMMB61	4	2	1					M	2
Modelling of Hydrosystems	BMEEOVVMV-1	4	2	1					M	2
Electrical Systems in Buildings	BMEEVIVEM_B61	4	2						M	2
HVAC Basics	BMEEGEEEM_B61	4	2						M	2
Optional Subjects										
** Optional subject - internship (at company)	BMEEODHMV02	5						20	M	3
<p>*The committee of the MSc program divides the students into groups according to their previous BSc studies in order to unify the output competences that are acquired with the completion of the master's program</p> <p>**Any subject from other MSc programs of the University can be chosen.</p> <p>***Taking the Diploma project subject is only possible if the student accomplished 33 credits from the mutual Core Subjects, 12 credits from the subjects of their own Student Group and at least 51 credits as a sum of the above mentioned two types of subjects.</p> <p>**** The listed numbers of the semesters present the suggested schedule according to the curriculum.</p> <p>*****Midterm grade/ Exam</p>										

MSc programmes on the Faculty of Civil Engineering

- MSc in **Structural Engineering** program:
 - https://epito.bme.hu/sites/default/files/page/MSc%20structural%20program%202020_0.pdf
- MSc in **Infrastructure Engineering** program:
 - https://epito.bme.hu/sites/default/files/page/MSc%20infrastructure%20program%202020_0.pdf
- MSc in **Land Surveying and Geoinformatics** program:
 - https://epito.bme.hu/sites/default/files/page/MSc%20geoinformatics%20program%202020_1.pdf
- MSc in **Construction Information Technology Engineering** program:
 - https://epito.bme.hu/sites/default/files/page/%C3%89p%C3%ADtm%C3%A9ny-informatikai%20MSc%20tanterv%2C%20%C3%B3rend%20v2.4-web_EN%20v3.pdf

Semester schedule

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

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

Edu week event(#)/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 Day off	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 Easter	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 Vásárheji Days	13-Apr	14-Apr
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 Day off	2-May	3-May	4-May	5-May
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 Day off	21-May	22-May	23-May	24-May	25-May	26-May
	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
	State (Final) examination period starts						
	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun
	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:

Communication – who should I contact?

Lecturer-professor

- Wrt course schedule, tests, retake/repeat, exam etc.

Course director (vice-dean)

- 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, student legal status, etc.

SH mentors

- students' personal issues, accommodation/dormitory issues, health insurance, etc.

Tempus

- Scholarship issues, changing education programs etc.

Communication – etiquette


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

Contacting professors

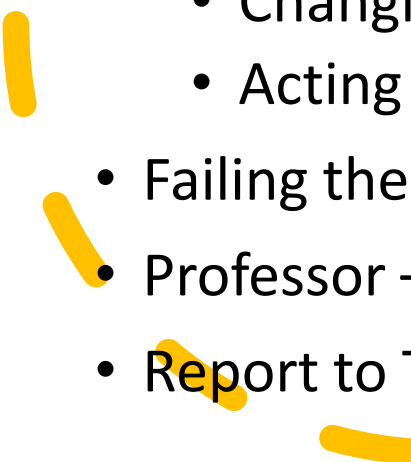
- About points/grades: there's no “please, give me one more point”!
- Professors have nothing to do with students' personal issues, health condition, scholarship status, do not refer such matters/cases!
- Professors are not obliged to reply multiple emails/requests/Teams questions.
- Professors should be 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/faculty webpage** what is allowed and what isn't!
 - <https://kth.bme.hu/en/for-students/rules-and-regulations/>

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/for-students/about-neptun/neptun-requests/>
- About Neptun requests see this webpage of CAO:
 - <https://kth.bme.hu/en/for-students/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 attempting 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 wrong answers
 - Checking IP-s during online tests
 - Plagiarism detection softwares
 - Changing course requirements – focusing on evaluations that can be controlled better
 - Motivating continuous learning during semester
 - New, creative test methods

Repeat period – 27-31st of May

- 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 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: 3rd June – 28th July

- All exams can be repeated once for free, ~~but an exam can be repeated no more than 5 times (overall 6 exams/course).~~ the law has been changed from the autumn semester of 2022!
 - 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: if min. 36 credit points in the last two active semesters (18 credits in each) is not achieved the student will be dismissed and lose the scholarship!
- For all students: min. 20 credit points in the last three active semesters is not achieved the student will be dismissed (and lose the scholarship)!
- For all students: after 2×education period No. of semesters (e.g. in BSc after 16 semesters) the student will be dismissed (and lose the scholarship) regardless the semesters were active or passive!

Subject enrolment I.

- Starts in January/August and closes at the end of the registration week (February/September). 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.
- „#” in the schedule means every even; + means every odd weeks
- 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 (in the case of examination and field courses from the 13rd week).

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!**
 - <https://epito.bme.hu/node/18089>
- 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-semester courses
 - 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 or above 3.5 GPA (submitting a Neptun request). **Should be approved by BME, not guaranteed!**
- If justified, late payment or split payment can be requested (in Neptun), 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, you will get back the tuition fee.**
- **Late passivation upon the Code of Studies Section 57. (6)!**

Practical training – technical internship

- Technical internship 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 technical internship course.
 - epito.bme.hu – education – BSc – Technical internship BMEEODHAS42 / **BMEEODHAI42 for Infrastructural engineering students**
- (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.
- **If the student failed a subject after passing it at home university, the subject can not be accredited!**
- 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 external 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
- For SH and SCYP students: submit the **extension Neptun request (E009) in time (CAO info letter)! If you miss the deadline, your status will be changed to tuition fee paying student even if you have a passive semester! Try to not slip in your final semester as the extension is not guaranteed!**

Diploma project – registration requirements

- BSc thesis
 - Min. 204 credits
 - All core subjects (English and Hungarian languages are not counted here!)
 - Min. 45 credits of branch subjects
 - Min. 17 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 (English and Hungarian languages are not counted here!)
 - Min. 8 credits of obligatory specialisation subjects

Recommendations

- Course registration
 - Do it in time!
 - Check clashing courses on Neptun!
 - 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 edu.epito.bme.hu
 - Supporting materials
 - online tests
 - Submitting home assignments
- Cheating/plagiarism is not tolerated at all!
- Sports & language



Education method in 2024 spring

- Face-to-face education
- Based on Neptun request there is an option to change to online education in serious case (health or accident, etc.)
 - on Pre-eng and BSc programs for max. 4 weeks
 - on Pre-MSc and MSc programs for max. 4 weeks
 - on PhD program for max. 4 weeks



Thank you for your kind attention!

Further information:

<http://epito.bme.hu/?language=en>