Orientation meeting 2024 autumn for freshman students

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

Vice-dean since 2022

Dr. Nauzika Kovács

kovacs.nauzika@emk.bme.hu

Room K.mf.85/21.

- Contact the Vice-dean:
  - if the Course Director cannot help you in specific educational issues; wrt educational progress, curricula, requests!

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

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

BSc in **Civil Engineering**

2 specializations choice by **end of 3rd semester!**	Structural engineering https://epito.bme.hu/sites/default/files/page/angol%20regul%C3%A1ris%202024%20%C5%91sz.pdf Infrastructure engineering 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)

Semester schedule

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

Year 2024/25 1st semester calendar

week	study week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
0		26-Aug State (Final) examination period start	27-Aug Registration week	28-Aug	29-Aug	30-Aug Opening ceremon	31-Aug	1-Sep
1	+	2-Sep Study period start	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep
2	#	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
3	+	16-Sep	17-Sep Sport day	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep
4	#	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep State Exam per. end	28-Sep	29-Sep
5	+	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
6	#	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct
7	+	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct
8	#	21-Oct	22-Oct	23-Oct National Holiday	24-Oct	25-Oct	26-Oct	27-Oct
9	+	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov All Saints day	2-Nov	3-Nov
10	#	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov
11	+	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov
12	#	18-Nov	19-Nov	20-Nov	21-Nov Student Scientific Conference	22-Nov	23-Nov	24-Nov
13	+	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov Open day	30-Nov	1-Dec
14	#	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec Study period end	7-Dec	8-Dec
	+	9-Dec	10-Dec	11-Dec Repeat week	12-Dec	13-Dec	14-Dec	15-Dec
	#	16-Dec Exam per. start	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
	+	23-Dec	24-Dec	25-Dec Christmas	26-Dec Christmas	27-Dec winter holiday	28-Dec	29-Dec
	#	30-Dec winter holiday	31-Dec	1-Jan New Year	2-Jan winter holiday	3-Jan	4-Jan	5-Jan
	+	6-Jan State (Final) examination period starts	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan
	#	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan
	+	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan Exam per. end	25-Jan	26-Jan
	#	27-Jan	28-Jan grade registration end until 14:00	29-Jan	30-Jan	31-Jan State Exam per. end	1-Feb	2-Feb

Study period

Repeat week

Exam period

Holiday

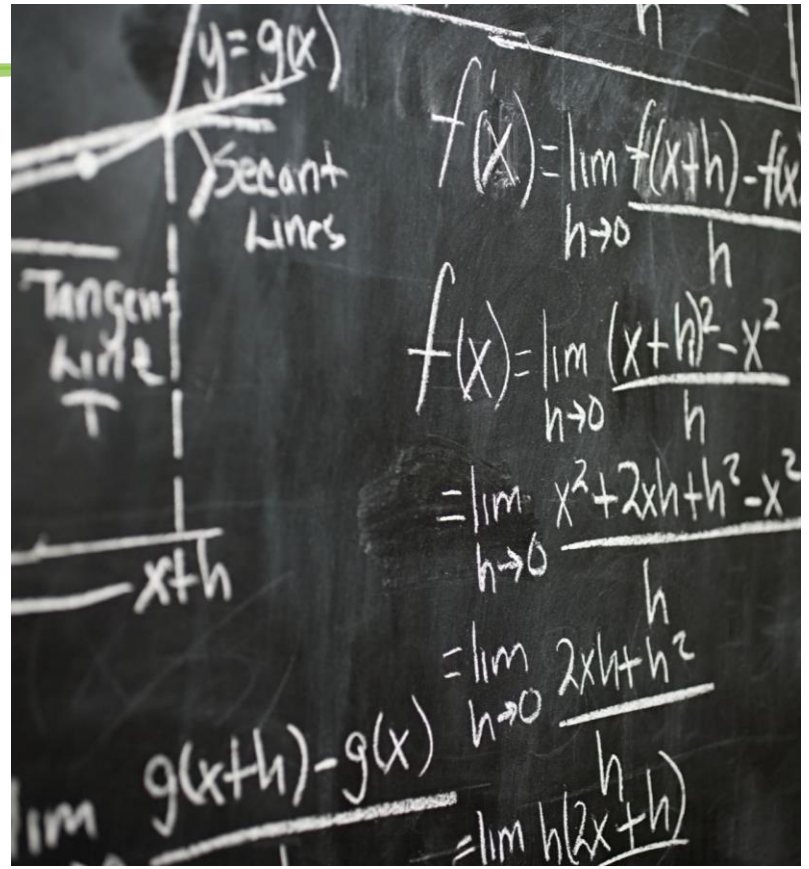
Repeat period – 9-13th of December

- 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: 16th December – 24th January

- 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 which the accredited credits do not count) in the last two active semesters (18 credits in each) is not achieved the student will lose the scholarship (and can continue as tuition fee paying student)!
- 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 regardless the semesters were active or passive!

BSc program - requirements



- Course types:
  - lecture
  - seminar
  - laboratory seminar
  - consultation
- Final requirement of subjects:
  - examination
  - midterm grade
  - signature
- Cross-semester course = running both semesters
- Pre-requisites cannot be bypassed
  - Even not by request based on equity (Faculty chance)
- ~~Accreditation only in registration period~~
- Special rules for projectwork (6th and 7th semester) enrolment (valid also for infrastructural engineering students!)
  - https://epito.bme.hu/node/18152

Important to do in the 1st semester

- Welcome:
  - https://epito.bme.hu/worth-to-be-a-civil-engineer?language=en
- Onramp for first-year students:
  - https://epito.bme.hu/onramp?language=en#oktatas
- Education Chart:
  - https://epito.bme.hu/education-chart?language=en
- News:
  - https://epito.bme.hu/hirek?language=en
- Phonebook and e-mail addresses of BME staff:
  - https://telefon.eik.bme.hu/
  - https://www.bme.hu/en/faculties

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 **Construction Information Technology** Engineering

MSc program in Construction Information Technology Engineering

	English Name	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E*****	Semester****
Core Subjects										
	Numerical Methods	BMEEOAFMB51	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 Projec	BMEEODHMB5P	6				2		M	1
	BIM Modelling and Design	BMEEOFTMB52	5			4			E	2
	Civil Engineering Automation, Modelling	BMEEOHSMB51	5	1	2				E	2
	Construction Information Technology Programming	BMEVIAUM___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										
	1st Obligatory Elective Subject*		8	2	4				E	1
	2nd Obligatory Elective Subject*		4	1	2				M	1
	1st Recommended Elective Subject*		4	2	1				M	2
	2nd 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	BMEVIEEM___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	BMEEOHSMT-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	BMEEOAFMB61	4	1	2				M	2
	Electrical Systems in Buildings	BMEVIVEM___B61	4	2					E	2
	HVAC Basics	BMEGEÉEM___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	BMEEOHSMB61	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	BMEVIVEM___B61	4	2					M	2
	HVAC Basics	BMEGEÉEM___B61	4	2					M	2

Optional Subjects

**	Optional subject - internship (at company)	BMEEODHMV02	5					20	M	3

*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

**Any subject from other MSc programs of the University can be chosen.

***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.

**** The listed numbers of the semesters present the suggested schedule according to the curriculum.

*****Midterm grade/ Exam

A30:N64A

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 Eng**ineering 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%B3rarend%20v2.4-web_EN%20v3.pdf

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.
International mentors	• students' personal issues, accommodation/dormitory issues
Tempus	• Scholarship issues, changing education programs etc.
Faculty mentors	• students' personal issues, how to be a student, help by studying

Communication – etiquette

- **First of all, check the CAO/Faculty/Tempus/Hungary Helps homepage 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 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!
  - https://edu.epito.bme.hu/mod/emktad/list.php
- Check Code of Studies 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: https://edu.epito.bme.hu/
  - Support from lecturer/professor
  - Infosite: https://epito.bme.hu/node/16120?language=en
- Request regarding tuition fees should be only submitted through Neptun!
  - https://kth.bme.hu/en/for-students/about-neptun/
- About Neptun requests see this webpage of CAO:
  - https://kth.bme.hu/en/for-students/about-neptun/neptun-requests/

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

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).

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 – 022 Neptun request
- 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 fall semester

- Face-to-face education
- Based on Neptun request there is an option to change to online education is serious case (health or accident, etc.) with 022 Neptun request
  - on Pre-Eng and BSc programs for max. 2 weeks
  - on Pre-MSc and MSc programs for max. 3 weeks
  - on PhD program for max. 4 weeks

Thank you for your kind attention!

Further information:
http://epito.bme.hu/?language=en