

# Orientation meeting 2022 spring

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# Course director since 2018 fall

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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
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- 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)



# 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	Specialization in Structures
Discrete Element Method	Obligatory subjects
	Structures 2
	Stability of Structures
	Seismic Design
	Structural Dynamics
	Diploma Project
	Recommended elective subjects
	Applied Fracture Mechanics

Prestressing Technologies	Specialization in Geotechnics and Geology
Strengthening of Structures	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 event(#)/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	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Mar
	Holiday	National holiday					
6 #	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
						Workday (Monday)	
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	15-Apr	16-Apr	17-Apr
				Spring holiday	Good Friday		Easter
10 #	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr
	Easter	Spring holiday	Spring holiday				
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	21-May	22-May
	Study period end						
	23-May	24-May	25-May	26-May	27-May	28-May	29-May
	Repeat week						
	30-May	31-May	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun
	State Exam per. start						
	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun
	Exam per. start						
	Pentecost						
	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	28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul
	Exam per. end						
	State Exam per. end						

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 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 what is allowed and what isn't!

[https://www.kth.bme.hu/document/2500/original/BME\\_Code\\_of\\_Studies\\_2016\\_01112020\\_ENG\\_mod.pdf](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 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 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 2<sup>nd</sup> week of the semester.



# 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-semester
  - 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](http://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](http://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!