

1 SURVEYING AND GEOINFORMATICS ENGINEERING PROGRAMME

Advanced Mathematics in Geodesy and Surveying

Korszerű matematikai módszerek a geodéziában

Code: **BMEEOAFDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Tóth Gyula

Further lecturers: -

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: basic subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester

Advanced Physical Geodesy

Fizikai és elméleti geodézia

Code: **BMEEOAFDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Völgyesi Lajos

Further lecturers: Tóth Gyula

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: basic subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester

Geoscientific Foundations of Geodesy

Geodézia földtudományi alapjai

Code: **BMEEOAFDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Völgyesi Lajos

Further lecturers: -

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester (only in odd calendar years)

Space Geodesy

Kozmikus geodézia

Code: **BMEEOAFDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Ádám József

Further lecturers: Tóth Gyula

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester (only in odd calendar years)

Integrated Sensor Systems in Geodesy and Surveying

Integrált geodéziai mérőrendszerek

Code: **BMEEOAFDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Takács Bence

Further lecturers: Siki Zoltán

Rózsa Szabolcs

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester

Geoscientific and Navigation Applications of GNSS and InSAR

GNSS és műholdradar rendszerek földtudományi és navigációs alkalmazásai

Code: **BMEEOAFDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Rózsa Szabolcs

Further lecturers: Takács Bence

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester

Spatial Temporal Databases

Tér-idő adatmodellek és adatbázisok

Code: **BMEEOAFDT85**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Siki Zoltán

Further lecturers: -

Department managing the subject: Geodesy and Surveying (geod.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester (only in even calendar years)

Image processing

Képfeldolgozás

Code: **BMEEOFTDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Barsi Árpád

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: basic subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester

Geoinformatical systems

Geoinformációs rendszerek

Code: **BMEEOFTDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szabó György

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: basic subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester

Laser scanning

Lézerszkennelés

Code: **BMEEOFTDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Lovas Tamás

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester

Satellite remote sensing

Műholdas távérzékelés

Code: **BMEEOFTDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Kugler Zsófia

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester

Digital surface modeling

Digitális felületmodellezés

Code: **BMEEOFTDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Juhász Attila

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: spring semester

Close-range photogrammetry

Közelfotogrammetria

Code: **BMEEOFTDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Molnár Bence

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester

Artificial intelligence

Mesterséges intelligencia

Code: **BMEEOFTDT85**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Paláncz Béla

Further lecturers: -

Department managing the subject: Photogrammetry and Geoinformatics (fmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Surveying and Geoinformatics Engineering PhD programme

Semester: fall semester (only in odd calendar years)

2 STRUCTURAL CIVIL ENGINEERING PROGRAMME

Force transfer in concrete

Erőátadódás betonban

Code: **BMEEOEMDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Balázs L. György

Further lecturers: -

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in even calendar years)

Materials of environmentally compatible construction

Környezetkímélő építés anyagai

Code: **BMEEOEMDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Fenyvesi Olivér

Further lecturers: Nemes Rita

Szalay Zsuzsa

Józsa Zsuzsanna

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in odd calendar years)

Durability of construction materials

Építőanyagok tartóssága

Code: **BMEEOEMDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Balázs L. György

Further lecturers: Kopecskó Katalin

Salem G. Nehme

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Relationship between structure and behaviour of concrete

A beton struktúrájának és tulajdonságainak összefüggése

Code: **BMEEOEMDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Salem G. Nehme

Further lecturers: Kopecskó Katalin

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in even calendar years)

Advanced construction materials

Különleges építőanyagok

Code: **BMEEOEMDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Balázs L. György

Further lecturers: Salem G. Nehme

Erdélyi Attila

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Rheological and temperature dependent material properties

Reológiai és hőmérsékletfüggő anyagtulajdonságok

Code: **BMEEOEMDT85**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Lublós Éva

Further lecturers: Balázs L. György

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Expertise in building design

Épületszerkezeti konstruktóri ismeretek

Code: **BMEEOEMDT86**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Stocker György

Further lecturers: Halász György

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall and spring semester

Building energy modelling (BEM)

Épületenergetikai modellezés (BEM)

Code: **BMEEOEMDT87**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szalay Zsuzsa

Further lecturers: Medgyasszay Péter

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Design Theories and Concepts

Tervezéselmélet

Code: **BMEEOEMDT88**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Patonai Dénes

Further lecturers: Lipták-Váradí Júlia

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Technical value analysis

Műszaki értékelemzés

Code: **BMEEOEMDT89**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Dudás Annamária

Further lecturers: Horn Valéria

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in odd calendar years)

Alkali activated materials in civil engineering

Alkáli aktivált anyagok építőmérnöki alkalmazásai

Code: **BMEEOEMDTV1**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Kopecskó Katalin

Further lecturers: -

Department managing the subject: Department of Construction Materials and Technologies (em.bme.hu)

Role of the subject in the academic plan: elective subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in even calendar years)

Rock mechanical modelling

Kőzetmechanikai modellezés

Code: **BMEEOGMDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Vásárhelyi Balázs

Further lecturers: Görög Péter

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Special geotechnical tests

Speciális geotechnikai vizsgálatok

Code: **BMEEOGMDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Móczár Balázs

Further lecturers: Szendefy János

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Hydrogeology of subsurface water

Felszínalatti vizek teleptana

Code: **BMEEOGMDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Görög Péter

Further lecturers: Hajnal Géza

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Stone in structures

Kőzetek szerkezeti alkalmazása

Code: **BMEEOGMDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Török Ákos

Further lecturers: Görög Péter

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Geotechnical finite element analysis

Geotechnikai véges elemes analízis

Code: **BMEEOGMDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Mahler András

Further lecturers: -

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Engineering geological risk assessment

Mérnökgeológiai kockázatelemzés

Code: **BMEEOGMDTV1**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Török Ákos

Further lecturers: Rozgonyi-Boissinot Nikolett

Department managing the subject: Department of Engineering Geology and Geotechnics (gmt.bme.hu)

Role of the subject in the academic plan: elective subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Fragility assessment

Sérülékenységanalízis

Code: **BMEEOHSDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Vigh László Gergely

Further lecturers: -

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: fall and spring semester

Reinforced concrete modelling

A vasbeton modellezése

Code: **BMEEOHSDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Sajtos István

Further lecturers: -

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Mechanics of composites

Kompozitok mechanikája

Code: **BMEEOHSDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Kollár László P.

Further lecturers: -

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Shell structures

Héjszerkezetek

Code: **BMEEOHSDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Hegedűs István

Further lecturers: -

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall and spring semester

Plates and sandwich structures

Lemezek és szendvicsszerkezetek

Code: **BMEEOHSDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Hegedűs István

Further lecturers: -

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall and spring semester

Computational analysis and design

Numerikus analízis és méretezés

Code: **BMEEOHSDT85**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Dunai László

Further lecturers: Kövesdi Balázs

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Seismic design principles

Szeizmikus tervezési elvek

Code: **BMEEOHSDT86**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Kollár László P.

Further lecturers: Dunai László

Department managing the subject: Department of Structural Engineering (hsz.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Functional Analysis

Funkcionálanalízis

Code: **BMEEOTMDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Kovács Flórián

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Material Models in Mechanics

Mechanikai anyagmodellek

Code: **BMEEOTMDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Bojtár Imre

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Numerical Methods

Numerikus módszerek

Code: **BMEEOTMDT73**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Németh Róbert

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: basic subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Mechanics of Masonry Structures

Falazott szerkezetek mechanikája

Code: **BMEEOTMDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Bagi Katalin

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: fall semester

Thin Walled Steel Structures

Vékonyfalú acélszerkezetek

Code: **BMEEOTMDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Ádány Sándor

Further lecturers: Dunai László

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester (only in odd calendar years)

Structural Optimization

Szerkezetek optimalása

Code: **BMEEOTMDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Lógó János

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Structural Civil Engineering PhD programme

Semester: spring semester

Cable and Tensile Membrane Structures

Kábel- és ponyvaszerkezetek

Code: **BMEEOTMDTV1**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Hincz Krisztián

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: elective subject in the Structural Civil Engineering PhD programme

Semester: fall semester (only in odd calendar years)

Fracture Mechanics

Törésmechanika

Code: **BMEEOTMDTV2**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Bojtár Imre

Further lecturers: -

Department managing the subject: Department of Structural Mechanics (me.bme.hu)

Role of the subject in the academic plan: elective subject in the Structural Civil Engineering PhD programme

Semester: spring semester

3 INFRASTRUCTURE CIVIL ENGINEERING PROGRAMME

Pavement analysis and design

Út pályaszervezet diagnosztika és méretezés

Code: **BMEEOUVDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Tóth Csaba

Further lecturers: -

Department managing the subject: Department of Highway and Railway Engineering
(uvt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Railway Track Geometry

Vasúti pályageometria

Code: **BMEEOUVDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Liegner Nándor

Further lecturers: -

Department managing the subject: Department of Highway and Railway Engineering
(uvt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Modelling of railway tracks

Vasúti pályaszervezetek modellezése

Code: **BMEEOUVDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Liegner Nándor

Further lecturers: Bocz Péter

Department managing the subject: Department of Highway and Railway Engineering
(uvt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Ecology

Ökológia

Code: **BMEEOVKDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szilágyi Ferenc

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering (vkkt.bme.hu)

Role of the subject in the academic plan: basic subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Aquatic chemistry

Vízkémia

Code: **BMEEOVKDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Licskó István

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering (vkkt.bme.hu)

Role of the subject in the academic plan: basic subject in the Infrastructure Civil Engineering PhD programme

Semester: fall and spring semester

Water quality in drinking water networks

Ivóvízellátó hálózatok és vízminőségi problémák

Code: **BMEEOVKDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Fülöp Roland

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering (vkkt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Water quality classification

Vízminősítés

Code: **BMEEOVKDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Licskó István

Further lecturers: Szilágyi Ferenc

Department managing the subject: Department of Sanitary and Environmental Engineering
(vkkt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Natural wastewater treatment

Természet-közeli szennyvíztisztítás

Code: **BMEEOVKDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szilágyi Ferenc

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering
(vkkt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Drinking water treatment technologies and health aspects of water supply

Az ivóvíztisztítás technológiái és az ivóvízellátás közegészségügyi vonatkozásai

Code: **BMEEOVKDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Laky Dóra

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering (vkkt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

State of the art wastewater treatment

Korszerű szennyvíztisztítás

Code: **BMEEOVKDT85**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Patziger Miklós

Further lecturers: -

Department managing the subject: Department of Sanitary and Environmental Engineering (vkkt.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Theoretical hydrodynamics

Elméleti hidrodinamika

Code: **BMEEOVVDT71**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szabó K. Gábor

Further lecturers: -

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: basic subject in the Infrastructure Civil Engineering PhD programme

Semester: fall and spring semester

Computational hydraulics

Numerikus hidraulika

Code: **BMEEOVVDT72**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Krámer Tamás

Further lecturers: -

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: basic subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Seepage and groundwater hydraulics

Szivárgás- és talajvízhydraulika

Code: **BMEEOVVDT81**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Csoma Rózsa

Further lecturers: -

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester (only in even calendar years)

Hydrological modelling and forecasting

Hidrológiai modellezés és előrejelzés

Code: **BMEEOVVDT82**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Szilágyi József

Further lecturers: Honti Márk

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Sediment transport modelling

Hordaléktranszport modellezése

Code: **BMEEOVVDT83**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Baranya Sándor

Further lecturers: -

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Limnology

Limnológia

Code: **BMEEOVVDT84**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Józsa János

Further lecturers: Krámer Tamás

Department managing the subject: Department of Hydraulic and Water Resources Engineering (vit.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Transportation Economics 1

Közlekedésgazdaságtan I.

Code: **BMEKOKGD006**

Lectures: 0 hours per week (theory)

Performance evaluation: exam

Credits: 0

Course coordinator and main lecturer: Tánczos Lászlóné

Further lecturers: -

Department managing the subject: Department of Transport Technology and Economics (kukg.bme.hu)

Role of the subject in the academic plan: basic subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Transport Technology

Közlekedési technológia

Code: **BMEKOKUD003**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Dr. Mándoki Péter

Further lecturers: -

Department managing the subject: Department of Transport Technology and Economics (kukg.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester

Traffic Technology (Models)

Közlekedési hálózattervezés (modellek)

Code: **BMEKOKUD008**

Lectures: 2 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Dr. Juhász János

Further lecturers: Dr. Tóth János

Department managing the subject: Department of Transport Technology and Economics (kukg.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: fall semester

Passenger Transport Systems

Személyközlekedési rendszerek

Code: **BMEKOKUD021**

Lectures: 4 hours per week (theory)

Performance evaluation: exam

Credits: 3

Course coordinator and main lecturer: Dr. Csiszár Csaba

Further lecturers: Csonka Bálint, Földes Dávid

Department managing the subject: Department of Transport Technology and Economics (kukg.bme.hu)

Role of the subject in the academic plan: specialisation subject in the Infrastructure Civil Engineering PhD programme

Semester: spring semester