

Faculty of Mechanical Engineering

IMPORTANT NOTES

If for one subject you can find several different types (lecture, practice, laboratory) of courses then please choose one and only one course from each type in order to be able to perform the subject's requirements successfully. Civil Engineering courses are on the website separately. Courses chosen from the offer of Faculty of Civil Engineering will be checked and arranged individually by the departmental coordinator.

Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTBG11	Fluid Mechanics			Mid-semester mark	6
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L1	English	TUE:10:15-12:00(AE_NAGYLAB)		
Lecture	A-2025t-E	English	MON:10:15-12:00(KF87)		
Practice	A-2025t-G1	English	TUE:08:15-10:00(KF82)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TBG11 http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBG11 https://gpk.bme.hu/en/content/42					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTBG15	Technical Acoustics and Noise Control			Exam	3
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L-prs	English	TUE:16:15-18:00(AE_NAGYLAB)		
Lecture	A-2025t-E	English	THU:14:15-16:00(KF87)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TBG15&#160; http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBG15 https://gpk.bme.hu/en/content/42&#160;					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTBG36	Computational Fluid Dynamics			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L2	English	TUE:10:15-12:00(AE_CFDLAB)		
Laboratory	A-2025t-L1	English	TUE:08:15-10:00(AE_CFDLAB)		
Laboratory	A-2025t-L3	English	TUE:12:15-14:00(AE_CFDLAB)		
Lecture	A-2025t-E	English	MON:10:15-12:00(KF83)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TBG36 http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBG36 https://gpk.bme.hu/en/content/42					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTBKSD	Final Project			Mid-semester mark	15
Course type	Course code	Course language	Timetable information		
Practice	A-2025t-G	English			
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TBKSD http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBKSD https://gpk.bme.hu/en/content/42&#160;					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTN21	Open Source Computational Fluid Dynamics			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L1	English	WED:09:15-11:00(AE_CFDLAB)		
Laboratory	A-2025t-L2	English	WED:12:15-14:00(AE_CFDLAB)		
Lecture	A-2025t-E	English	MON:12:15-14:00(AE_MERLEG-T)		

Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNG22	Aero-Elasticity			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Lecture	A-2025t-E	English	WED:16:15-18:00(AE_MERLEG-T)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNG28	Gas Dynamics			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L	English	THU:12:15-14:00(AE_CFDLAB)		
Lecture	A-2025t-E	English	TUE:14:15-16:00(AE_MERLEG-T)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNKDA	Master Thesis Project A			Mid-semester mark	15
Course type	Course code	Course language	Timetable information		
Practice	A-2025t-G	English			
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNKDA&#160; ; http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNKDA https://gpk.bme.hu/en/content/42&#160; ; 					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNKDB	Master Thesis Project B			Mid-semester mark	15
Course type	Course code	Course language	Timetable information		
Practice	A-2025t-G	English			
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNKDB&#160; ; http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNKDB https://gpk.bme.hu/en/content/42&#160; ; 					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNKPR	Teamwork Project			Mid-semester mark	6
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L	English			
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNKPR&#160; ; http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNKPR https://gpk.bme.hu/en/content/42&#160; ; 					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNV35	Particle-Based Modelling of Fluid Flows			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Laboratory	A-2025t-L	English	THU:14:15-16:00(AE_CFDLAB)		
Lecture	A-2025t-E	English	TUE:10:15-12:00(AE_MERLEG-T)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNV35					
Subject code	Subject name			Requirement	ECTS credit
BMEGEÁTNW01	Advanced Fluid Mechanics			Exam	4
Course type	Course code	Course language	Timetable information		
Lecture	A-2025t-E	English	WED:12:15-15:00(KF87)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNW01&#160; ; http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNW01 https://gpk.bme.hu/en/content/42&#160;					

Subject code	Subject name		Requirement	ECTS credit
BMEGEÁTNW03	Fluid Mechanics Measurements		Mid-semester mark	5
Course type	Course code	Course language	Timetable information	
Laboratory	A-2025t-L2	English	TUE:14:15-16:00(AE_NAGYLAB)	
Laboratory	A-2025t-L1	English	TUE:08:15-10:00(AE_NAGYLAB)	
Lecture	A-2025t-E	English	MON:12:15-14:00(KF87)	

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNW03>
<http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNW03>
<https://gpk.bme.hu/en/content/42 >

Subject code	Subject name		Requirement	ECTS credit
BMEGEÁTNW21	Open Source Computational Fluid Dynamics		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Laboratory	A-2025t-L1	English	WED:09:15-11:00(AE_CFDLAB)	
Laboratory	A-2025t-L2	English	WED:12:15-14:00(AE_CFDLAB)	
Lecture	A-2025t-E	English	MON:12:15-14:00(AE_MERLEG-T)	

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNW21>
<http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNW21>
<https://gpk.bme.hu/en/content/42>

Subject code	Subject name		Requirement	ECTS credit
BMEGEÁTNW22	Aero-Elasticity		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Lecture	A-2025t-E	English	WED:16:15-18:00(AE_MERLEG-T)	

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGE%C3%81TNW22 >
<http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATNW22>
<https://gpk.bme.hu/en/content/42 >

Subject code	Subject name		Requirement	ECTS credit
BMEGEÁTOF01	Individual Project		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Laboratory	A-2025t-L-szabval	English		

Subject code	Subject name		Requirement	ECTS credit
BMEGEÉEBG61	Processes and Equipment of Chemical Industry		Exam	7
Course type	Course code	Course language	Timetable information	
Laboratory	A14	English	THU:08:15-11:00	
Lecture	A12	English	MON:12:15-15:00(D102)	
Practice	A13	English	THU:12:15-14:00(D102)	

Aim of the subject:

Theory and practice of mechanical, hydromechanical, thermal, and diffusion processes often used in chemical, food industry, biotechnology and environmental protection. Equipment, sizing and operation aspects.

Topics of the subject:

1. Size reduction, milling. Liquid mixing. Types of impellers, baffles. Power number function. Example. Non-Newtonian liquids and their mixing. Settling in gravitation. Suspension types, measurement of settling velocity. Example.
2. Settling in centrifuges, Construction and operation of cyclones. Separation efficiencies.
3. Surface filtration. Basic differential equation, solutions. Measurement of filtration parameters. Example. Liquid and gas filters.
4. Heat transfer. Calculation of heat transfer surface. Heat transfer equations for sensible and insensible heat transport.
5. Calculation of heat transfer coefficient. Influence of finned surface.
6. Heat exchanger constructions, operation aspects.
7. Concentration rise of solutions by thermal method: evaporation. Mass and enthalpy balance equations in the case of one-effect evaporator. Determination of heat transfer surface. Vapor reuses facilities. Economical aspects of multi-effect evaporators. Evaporator constructions.

8. Solid handling in dryers. Drying mechanism. Psychrometric charts and ratio. Wet bulb temperature. Use of psychrometric chart, mixing of gas flows. Drying curves, drying time. Example.

9. Absorption of gases. Application. Equilibrium curve. Material balance. Operating line. Height of packed column. Method of transfer units. Number of theoretical plates. Problem to solve for absorption. Liquid-liquid extraction. Industrial applications. Requirements for the solvent. Equilibrium conditions. Triangular diagram, bimodal solubility curve basic notions: distribution coefficient, mass ratio, liquid (solvent to feed ratio), extraction factor. Solvent recovery. Extraction methods. Single stage batch extraction. Multiple contact batch extraction. Perforation. Countercurrent extraction. Extraction calculations. Extraction equipment. Solid-liquid extraction. Steps of the process. Equipment. Factors determining the method of extraction. Factors influencing the rate of the process. Adsorption. Adsorbents and adsorption processes. Fixed-bed adsorbers. Gas drying equipment. Pressure-swing adsorption. Adsorption from liquids. Adsorption isotherms. Types of isotherms. Concentration patterns in fixed beds. Breakthrough curves. Scale up. Length of unused bed. effect of feed concentration URL:

<http://www.epget.bme.hu/hu/14-oktatas/bsc/162-processes-and-equipment-of-chemical-industry>

Subject code	Subject name	Requirement	ECTS credit
BMEGEÉEBX5A	Energy in buildings	Mid-semester mark	4

Course type	Course code	Course language	Timetable information
Lecture	A07	English	TUE:12:15-14:00(D101)
Practice	A08	English	TUE:14:15-16:00(D126)

Subject code	Subject name	Requirement	ECTS credit
BMEGEÉENÉ01	HVAC Basics	Mid-semester mark	4

Course type	Course code	Course language	Timetable information
Lecture	EN2	English	THU:12:15-14:00(K144); THU:12:15-14:00(K144)

<https://oktatas.gpk.bme.hu/tad/tantargy/BMEGEÉENÉ01>

Subject code	Subject name	Requirement	ECTS credit
BMEGEENBGHK	Heat Transfer G	Mid-semester mark	4

Course type	Course code	Course language	Timetable information
Lecture	25-2-DEU-E	German	MON:12:15-14:00(D318)
Lecture	25-2-ENG-E	English	MON:16:15-18:00(D224)
Practice	25-2-DEU-G	German	THU:14:15-16:00(D216)
Practice	25-2-ENG-G1	English	WED:10:15-12:00(D318)

Subject code	Subject name	Requirement	ECTS credit
BMEGEENBGTD	Engineering Thermodynamics G	Mid-semester mark	4

Course type	Course code	Course language	Timetable information
Lecture	25-2-ENG-E	English	THU:12:15-14:00(D211)
Practice	25-2-ENG-G	English	THU:14:15-16:00(D211)

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENBGTD>

Subject code	Subject name	Requirement	ECTS credit
BMEGEENBKSD	Final project	Mid-semester mark	15

Course type	Course code	Course language	Timetable information
Practice	25-2-ENG-G	English	

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENBKSD>

Subject code	Subject name	Requirement	ECTS credit
BMEGEENNKDA	Master Thesis Project A	Mid-semester mark	15

Course type	Course code	Course language	Timetable information
Practice	25-2-ENG-G	English	

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNKDA>

Subject code	Subject name		Requirement	ECTS credit
BMEGEENNKDB	Master Thesis Project B		Mid-semester mark	15
Course type	Course code	Course language	Timetable information	
Practice	25-2-ENG-G	English		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNKDB				

Subject code	Subject name		Requirement	ECTS credit
BMEGEENKLC	LCA of energy systems		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Laboratory	25-2-ENG-LAB	English	FRI:12:15-14:00(D216)	
Lecture	25-2-ENG-E	English	FRI:11:15-12:00(D216)	

Aim

The course aims to study the environmental impact of energy production systems. Students learn the basic concepts, standards, most commonly used types and areas of application of life cycle assessment (LCA). In their semester project assignment, students determine the environmental impact of an energy system of their choice using life cycle assessment methodology. Within the framework of their project task, they learn to use the software required for modern life cycle analysis (e.g. openLCA, GaBi, EASETECH).

Learning outcomes Competences that can be acquired by completing the course

Knowledge

The student is aware of the principles and importance of a life cycle approach. Knows the basic concepts of life cycle assessment (LCA), the most commonly used types and standards. Has comprehensive knowledge of life cycle assessment methodology. The student is informed about the environmental quantities typical of energy production and user (production) facilities. Knows the databases, models and software that can be used during life cycle assessment. Understands the dangers of shifting impacts between different environmental impact categories. The student is aware of the basic environmental mechanisms of different environmental impact categories. Understands the application areas of life cycle assessment and the specifics of each area for LCA. The student is informed about the range, types, and availability of primary and secondary data that can be used in a life cycle assessment. Understands the process of critically reviewing the results of life cycle assessment and the methods of assessing data quality.

Ability

Describes real technology systems with life cycle models. The student is able to assess environmental impacts in multiple ways. The student can identify complex environmental problems, explore, formulate and (using learned practical application) the theoretical and practical background needed to analyze them. The student solves complex, computationally intensive tasks using IT skills. The student can express his or her thoughts orally and in writing. Interprets the results of a life cycle assessment (LCA). Creates the conceptual life cycle model using the appropriate target software. Selects secondary data sources and databases for the life cycle model. Defines the life cycle boundaries of energy systems. Use the life cycle assessment results in the application areas that meet the set goals.

Attitude

The student constantly monitors his or her work, results and conclusions. The student expands his or her knowledge of energy management and sustainability through continuous learning. Open to the use of information technology tools. The student seeks to learn about and routinely use environmental tools needed to solve energy management problems. The student develops the ability to provide accurate and error-free problem solving, engineering precision and accuracy. The student applies energy efficiency, sustainability and environmental awareness in solving life cycle assessment tasks. The student monitors changes in legislation. The student publishes his or her results under professional rules. The student publishes his or her opinions and views without offending others.

Independence and responsibility

Collaborates with the instructor and fellow students to expand knowledge. Accepts well-founded professional and other critical remarks. In some situations, as part of a team, the student works with his or her fellow students to solve tasks. Based on his knowledge and analysis, the student makes a responsible, well-founded decision. The student feels responsible for energy, the problems of energy management and the sustainable use of the environment, and present and future generations. The student is committed to the principles and methods of systematic thinking and problem solving.

Teaching methodology During the teaching of the subject, the lecture and the laboratory practice are separated in terms of content and methodology. The lectures basically introduce students to the information defined by the knowledge competence elements using the technique of frontal education. Lectures include pre-published slide shows so students can add their own notes to the lecture. The lectures and the main (online) available written study materials complement each other and are insufficient to achieve adequate preparation. Independent laboratory practical sessions with a different theme from the lectures and the method of the mirrored classroom promote the application and skill-level acquisition of knowledge. During the laboratory internships, the knowledge previously acquired at home, independently, is solved partly jointly and partly individually with the help of the laboratory internship supervisor. The project task to be prepared in groups of 2-3 people also includes a presentation (life cycle model).

Subject code	Subject name		Requirement	ECTS credit
BMEGEENNWAT	Advanced Thermodynamics		Exam	4
Course type	Course code	Course language	Timetable information	
Lecture	25-2-ENG-E	English	TUE:10:15-12:00(D224)	
Practice	25-2-ENG-G1	English	THU:08:15-10:00(D224)	
Practice	25-2-ENG-G2	English	THU:08:15-10:00(D224)	

ONLY FOR MSc STUDENTS!

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNWAT>

Subject code	Subject name		Requirement	ECTS credit
BMEGEENNWCO	Combustion		Mid-semester mark	5
Course type	Course code	Course language	Timetable information	
Lecture	25-2-ENG-E	English	MON:10:15-12:00(D318)	
Practice	25-2-ENG-G	English	TUE:12:15-14:00(D318)	

Important note:

ONLY FOR MSc STUDENTS! According to the rules, any MSc student can be enrolled. However, this subject strongly builds on your existing Fluid dynamics, Thermodynamics, and Heat transfer knowledge. Completion of Heat engines is recommended.

CONTENTS:

<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNWCO>

This subject is discussing combustion from both fundamental (first half of the semester) and practical point of views (second half of the semester).

1. Introduction, administration. State-of-the-art devices and technologies. Gross reactions.
2. Flame stabilization, fluid dynamics, and non-dimensional numbers.
3. Reaction pathways and pollutant formation.
4. Fuel properties in general.
5. Gaseous, liquid, and solid fuels.
6. Fuel evaporation.
7. Midterm exam 1.
8. Combustion modes and turbulence.
9. Combustion safety and control.
10. Free jet and gas burners.
11. Atomization and liquid fuel burners.
12. Solid fuel burners.
13. Modern combustion chambers.
14. Midterm exam II.

REQUIREMENTS

2 midterm exams

1 project/homework

Subject code	Subject name		Requirement	ECTS credit
BMEGEENNWPR	Teamwork Project		Mid-semester mark	6
Course type	Course code	Course language	Timetable information	
Laboratory	25-2-ENG-LAB	English		

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<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNWPR>

Subject code	Subject name		Requirement	ECTS credit
BMEGEENNWTP	Thermal Physics		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Laboratory	25-2-ENG-LAB	English	MON:19:15-20:00(D216)	
Lecture	25-2-ENG-E	English	MON:18:15-19:00(D216)	

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<https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEENNWTP>

Subject code	Subject name			Requirement	ECTS credit
BMEGEGIBXCA	Introduction to CAD			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Laboratory	ERASMUS1	English	MON:08:15-10:00(D301)		
Laboratory	ERASMUS2	English	WED:12:15-14:00(D301)		
Lecture	A_EA	English	MON:12:15-14:00(R113)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEGIBXCA					
Subject code	Subject name			Requirement	ECTS credit
BMEGEGTAG92	Machine tools and manufacturing systems			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Lecture	1	English	THU:08:15-10:00(T47)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEGTAG92&#160;					
Subject code	Subject name			Requirement	ECTS credit
BMEGEGTBG01	Manufacturing			Exam	5
Course type	Course code	Course language	Timetable information		
Laboratory	GA3	English	FRI:12:15-14:00		
Laboratory	GA4	English	THU:16:15-18:00		
Lecture	A0	English	THU:14:15-16:00(G116)		
Practice	GA1	English	WED:14:15-16:00(G113)		
Practice	GA2	English	WED:14:15-16:00(G113)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEGTBG01&#160; 					
Subject code	Subject name			Requirement	ECTS credit
BMEGEGTNWAM	Advanced Manufacturing			Mid-semester mark	5
Course type	Course code	Course language	Timetable information		
Laboratory	A2	English	FRI:09:15-12:00(G116)		
Lecture	A1	English	FRI:08:15-09:00(G116)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEGTNWAM&#160; 					
Subject code	Subject name			Requirement	ECTS credit
BMEGEMIBXGI	Mechanical engineering informatics			Mid-semester mark	6
Course type	Course code	Course language	Timetable information		
Laboratory	25t_A_L01	English	THU:08:15-10:00(D502); FRI:08:15-10:00(D502)		
Laboratory	25t_A_L03	English	MON:14:15-16:00(D505); WED:14:15-16:00(D505)		
Laboratory	25t_A_L02	English	THU:10:15-12:00(D502); FRI:10:15-12:00(D502)		
Lecture	25t_A_E	English	MON:12:15-14:00(D401)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEMIBXGI					
Subject code	Subject name			Requirement	ECTS credit
BMEGEMIBXMT	Measurement techniques			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Laboratory	25t_A_L01	English	TUE:12:15-14:00(D532)		
Laboratory	25t_A_L02	English	TUE:12:15-14:00(D532)		
Laboratory	25t_A_L04	English	TUE:08:15-10:00(D532)		
Lecture	25t_A_E	English	TUE:10:15-12:00(D401)		
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEMIBXMT&#160;					

Subject code	Subject name			Requirement	ECTS credit
BMEGEMMBXM4	Vibrations			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Lecture	LEC	English	TUE:12:15-14:00(KF83)		
Practice	SEM1	English	TUE:14:15-15:00(KF83)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEMMNWAM	Advanced Mechanics			Exam	4
Course type	Course code	Course language	Timetable information		
Lecture	LEC	English	MON:16:15-18:00(KF81); TUE:16:15-17:00(KF87)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEMMNWEP	Elasticity and Plasticity			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Lecture	LEC	English	TUE:12:15-13:00(KF86)		
Practice	SEM	English	TUE:13:15-14:00(KF86)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEMMNWFE	Finite element analysis			Mid-semester mark	5
Course type	Course code	Course language	Timetable information		
Laboratory	LAB2	English	MON:14:15-16:00(KF85)		
Laboratory	LAB1	English	MON:14:15-16:00(KF87)		
Lecture	LEC	English	THU:10:15-12:00(MGFEA)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEMMNWMV	Machine Tool Vibration			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Lecture	LEC	English	MON:16:15-18:00(MM_I29)		
Subject code	Subject name			Requirement	ECTS credit
BMEGEPTBG01	Polymer Materials Science and Engineering			Exam	6
Course type	Course code	Course language	Timetable information		
Laboratory	LAB1	English	MON:08:15-10:00(MT_PTLAB)		
Lecture	LECT	English	WED:08:15-10:00(KF82); THU:08:15-10:00(KF82); THU:08:15-10:00(KF82)		
SUBJECT DATASHEET: https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEPTBG01					
Subject code	Subject name			Requirement	ECTS credit
BMEGEPTBGE1	Composites technology			Exam	4
Course type	Course code	Course language	Timetable information		
Laboratory	LAB1	English	MON:14:15-16:00(MT_PTLAB)		
Lecture	LECT	English	MON:10:15-12:00(T200)		
Subject datasheet: https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEPTBGE1					
Subject code	Subject name			Requirement	ECTS credit
BMEGEVGBG06	Individual project 1.			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Laboratory	EnL-ÉPGET	English			
Laboratory	EnL-ARA	English			
Laboratory	EnL-HDR	English			

Laboratory	EnL-EGR	English	
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEVGBG06 Independent Study 1 BMEGEVGBG06 One-semester long individual project work. 4 hours/4 credits.			
Subject code	Subject name		Requirement ECTS credit
BMEGEVGBV08	Individual project 2.		Mid-semester mark 3
Course type	Course code	Course language	Timetable information
Laboratory	EnL-HDR	English	
Subject code	Subject name		Requirement ECTS credit
BMEGEVGBX01	Fluid Machinery		Exam 4
Course type	Course code	Course language	Timetable information
Laboratory	EnL1	English	THU:16:15-18:00(L-HIDROLAB)
Laboratory	EnL2	English	THU:16:15-18:00(L-HIDROLAB)
Lecture	EnE	English	MON:08:15-10:00(D316A)
Practice	EnPrac1	English	MON:16:15-18:00(KF85)
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEVGBX01&#160;			
Subject code	Subject name		Requirement ECTS credit
BMEGEVGNW41	Unsteady Flow in Pipe Networks		Mid-semester mark 3
Course type	Course code	Course language	Timetable information
Laboratory	EnL	English	MON:09:15-10:00(L-HIDROLAB)
Lecture	EnE	English	MON:08:15-09:00(L-HIDROLAB)
Subject code	Subject name		Requirement ECTS credit
BMEGEVGNWPR	Teamwork Project		Mid-semester mark 6
Course type	Course code	Course language	Timetable information
Laboratory	EnL	English	
https://oktatas.gpk.bme.hu/tad/en/tantargy/BMEGEVGNWPR			
Subject code	Subject name		Requirement ECTS credit
BMEGEVGNX28	Theoretical acoustics		Mid-semester mark 3
Course type	Course code	Course language	Timetable information
Lecture	E	English	WED:12:15-14:00(D327)
Subject code	Subject name		Requirement ECTS credit
BMEGEVGNXPB	Project Work B		Mid-semester mark 3
Course type	Course code	Course language	Timetable information
Laboratory	EnL	English	