

Faculty of Economic and Social Sciences

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
BMEGT20A001	Management and Business Economics			Mid-semester mark	4
Course type	Course code	Course language	Timetable information		
Lecture	ER	English	TUE:08:15-10:00(QA202); THU:08:15-10:00(QA202);		
<p>The course introduces the essentials of management as they apply within the contemporary work environment and gives a conceptual understanding of the role of management in the decision making process. Particular attention is paid to management theories: principles of management, marketing management, quality management, production and project management. For problem formulation, both the managerial interpretation and the mathematical techniques are applied. Budapest University of Technology and Economics Faculty of Economic and Social Sciences Course Syllabus and Requirements Management and Business Economics 2. Course code Semester Hours per week (Theory/Practice) ECTS credits Language of Instruction Level (BSc/BA/MSc/MA) BMEGT20A001 fall/spring 4/0 4 Hungarian BSc/BA 3. Course supervisor (name, title, department): János Kövesi, dr. Habil, Professor, Department of Management and Business Economics 4. Lecturers: Name: Position: Department/Institute/availability (Room, e-mail address): Szilvia Bíró-Szigeti, PhD Associate Professor Dept. of Management and Business Economics, QB305, szigetisz@mvt.bme.hu János Kövesi Professor Dept. of Management and Business Economics, QA315, kovesi@mvt.bme.hu Noémi Kalló, PhD Associate Professor Dept. of Management and Business Economics, QA308, kallo@mvt.bme.hu Tibor Szabó, PhD Assistant Professor Dept. of Management and Business Economics, QA317, tiborszabo@mvt.bme.hu 5. Preliminary knowledge required: Basic concept of companies and their operation. 6. Academic prerequisites: - 7. Objectives and description of the course: The course introduces the essentials of management as they apply within the contemporary work environment and gives a conceptual understanding of the role of management in the decision making process. Particular attention is paid to management theories: principles of management, marketing management, quality management, production and project management. For problem formulation, both the managerial interpretation and the mathematical techniques are applied. 8. Teaching methods: Lectures. 9. Requirements and assessment: 4 midterm exams have to be taken during the semester. The grade will be determined by the sum of the midterm exams (4x25=100 %), there are no minimum requirements for the individual exams. 10. Exams, make-up duties and make-up exams: Maximum 3 of the 4 midterm exams can be repeated or make up at the end of the semester. There are no final make-up exams in this course. 11. Office hours: By making appointment with the lecturers. 12. Course material, compulsory and recommended readings: Materials provided by the lecturers: www.mvt.bme.hu/segedanyagok 13. Workload and detailed class schedule: Topics to be discussed, readings required for the class, other assignments Week 1 Marketing management: Creating Customer Value and Engagement Week 2 Consumer behaviour, Analyzing the Marketing Environment Week 3 Market research, Product and brand management Week 4 Service management, Promotion management Week 5 Communication management, Online marketing Week 6 Quality management: Principles of quality management, the brief history of quality management systems Week 7 Overview of quality assurance systems based on ISO 9001:2000 Quality Management System. Week 8 Overview of quality assurance systems based on Total Quality Management System. Week 9 Production-economics: production systems, manufacturing models, product-process matrix. Week 10 Inventories, inventory control systems, costs of carrying stocks Week 11 Principles of management: Resources of a firm, firm as an organization. Week 12 Functions of managerial processes Week 13 Corporates strategies, Team work, communication in an organization. Week 14 Repeat of midterms</p>					
Subject code	Subject name			Requirement	ECTS credit
BMEGT20A048	Marketing			Exam	5
Course type	Course code	Course language	Timetable information		
Lecture	ER-I	English	THU:14:15-16:00(QA202);		
Practice	ER-p	English	THU:16:15-18:00(QA202);		
<p>After the course the students understand the role of marketing in an organization. Students get familiar with the marketing tasks, tools and strategies. Through the practical work the student is able to elaborate certain marketing topic using the knowledge acquired on lectures. Content: Introduction to marketing. The marketing environment. Strategic marketing planning. Marketing information and marketing research. Market segmentation and targeting. Positioning. Consumer buyer behaviour. Business-to-business marketing. Product strategy. New product development. Marketing services. Pricing strategies. Marketing channels. Advertising, sales promotion and PR.</p>					

Direct marketing and personal selling. Budapest University of Technology and Economics Faculty of Economic and Social Sciences Course Syllabus and requirements Marketing 2. Course code Semester Hours per week (Theory/Practice) ECTS credits Language of Instruction Level (BSc/BA/MSc/MA) BMEGT20A048 fall 3/1/0 5 English BSc/BA 3. Course supervisor (name, title, department): Zsuzsanna Szalkai, PhD, Associate Professor, Department of Management and Business Economics 4. Lecturers: Name: Position: Department/Institute/availability(Room, e-mail address): Zsuzsanna Szalkai, PhD Associate Professor Department of Management and Business Economics, szakaizs@mvt.bme.hu, Room QB304 5. Preliminary knowledge required: - 6. Academic prerequisites: - 7. Objectives and description of the course: After the course the students understand the role of marketing in an organization. Students get familiar with the marketing tasks, tools and strategies. Through the practical work the student is able to elaborate certain marketing topic using the knowledge acquired on lectures. 8. Teaching methods: Lectures and seminars 9. Requirements and assessment: Team project: 20% Presentation: 10% Exercises on Seminars: 10% Team project has two parts: written report and presentation. Students will work in a maximum of 5-member group on a selected market and company. 10. Exams, make-up duties and make-up exams: Exam: 60% Final exam in the exam period. Exam can be repeated in the exam period. Overall assessment: 87-100%:excellent 75-86%: good 63-74%: satisfactory 50-62%: passed 0-49%: failed 11. Office hours: Wednesday 10.00-12.00 Bld. Q Room B 304 12. Course material, compulsory and recommended readings: Ph. Kotler, G. Armstrong, J. (2016): Principles of Marketing. 16th Ed. Pearson Lecture slides Handouts 13. Workload and detailed class schedule: Topics to be discussed, readings required for the class, other assignments Week 1 Introduction to Marketing. Creating Customer Value Week 2 Analyzing the Marketing Environment. Marketing strategy Week 3 Marketing Information and Customer Insight Week 4 Market Segmentation, Targeting and Positioning. Competitive Advantage Week 5 Consumer Markets and Buyer Behavior Week 6 Business Markets and Business Buyer Behavior Week 7 Product Strategy and New Product Development Week 8 Marketing services Week 9 Marketing Channels: Delivering Customer Value Week 10 Understanding and Capturing Customer Value. Pricing Strategies Week 11 Integrated marketing communication part I: advertising, sales promotion Week 12 Integrated marketing communication part II: PR, direct marketing and personal selling. Week 13 Team presentations Week 14 Team presentations

Subject code	Subject name	Requirement	ECTS credit
BMEGT20M002	Quality Management	Mid-semester mark	2

Course type	Course code	Course language	Timetable information
Lecture	ER	English	MON:10:15-12:00(QA202);

\:.* {behavior:url(#default#VML);} o\:.* {behavior:url(#default#VML);} w\:.* {behavior:url(#default#VML);} .shape {behavior:url(#default#VML);} /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman"; mso-ansi-language:#0400; mso-fareast-language:#0400; mso-bidi-language:#0400;} The primary goal is to get the students acquainted with the current issues and methods of quality improvement. Students are given an overall picture of quality philosophies applied in both productive and non-productive industries, the basics of quality management related standards, total quality management, and of the various soft and hard methods of quality management. Budapest University of Technology and Economics Faculty of Economic and Social Sciences Course Syllabus and requirements Quality Management 2. Course code Semester Hours per week (Theory/Practice) ECTS credits Language of Instruction Level (BSc/BA/MSc/MA) BMEGT20M002 spring 2/0 2 English MSc/MA 3. Course supervisor (name, title, department): János Kövesi, dr. Habil, Professor, Department of Management and Business Economics 4. Lecturers: Name: Position: Department/Institute/availability (Room, e-mail address): Gábor Árva assistant lecturer Department of Management and Business Economics, arva@mvt.bme.hu, Room QB303a Vivien Surman assistant lecturer Department of Management and Business Economics, surman@mvt.bme.hu, Room QB303a 5. Preliminary knowledge required: Basic concepts of management and statistics. 6. Academic prerequisites: - 7. Objectives and description of the course: The primary goal is to get the students acquainted with the current issues and methods of quality improvement. Students are given an overall picture of quality philosophies applied in both productive and non-productive industries, the basics of quality management related standards, total quality management, and of the various soft and hard methods of quality management. 8. Teaching methods: Lectures and practices. 9. Requirements and assessment: 1 midterm exam has to be taken during the semester. There is compulsory presence at practices (min. 70%). The grade will be determined by the sum of the practice points (50 points) and the midterm exam points (50 points), 50% (25 points) from the midterm exam is minimum requirement, and to get a grade 50 points have to be received from the midterm and the practices together. 10. Exams, make-up duties and make-up exams: The midterm exam can be repeated once at the end of the semester. The practices cannot be replaced. There are no final make-up exams in this course. 11. Office hours: Thursday, 16:00-17:00, Building Q Room QB303a 12. Course material, compulsory and recommended readings: Compulsory: Lecture and practice materials Recommended readings: Evans, J. R., Lindsay, W. M. (2017, 2014): Managing for Quality and Performance Excellence, 10e, Cengage Learning Goetsch, D. L., Davis, S. B. (2016): Quality Management for Organizational Excellence Introduction to Total Quality, Pearson Education, Inc. Montgomery, D. C. (2009): Introduction to Statistical Quality Control, 6e, John Wiley amp; Sons, Inc. Sower, V. E. (2011): Essentials of Quality With Cases and Experimental Exercises, John Wiley amp; Sons, Inc. Tenner, A., DeToro, I. (1992), Total Quality Management: Three Steps to Continuous Improvement, Addison-Wesley, Reading, MA. 13. Workload and detailed class schedule: Topics to be discussed, readings required for the class, other assignments Week 1 Introduction to quality management, definition of quality, evolution of quality management

Week 2 Quality Management Systems, ISO 9000 family of standards, ISO 9001 requirements Week 3 Practice
 Week 4 Introduction to TQM, customer focus Week 5 Practice Week 6 Process Improvement Week 7 {Holiday}
 Week 8 Practice Week 9 Quality Management tools Week 10 Practice Week 11 Statistical Process Control - practice
 Week 12 {Holiday} Week 13 Statistical Process Control - practice Week 14 Midterm exam Week 15 Repeat of the
 midterm exam

Subject code	Subject name	Requirement	ECTS credit
BMEGT301004	Economics I.	Mid-semester mark	2

Course type	Course code	Course language	Timetable information
Lecture	EN26	English	THU:10:15-12:00(K392);

Objectives and description of the course: The aim is to allow students to understand today's economic environment. After having finished the course, students should understand the key concepts of microeconomics (e.g. opportunity cost, supply and demand, market equilibrium, prices, cost functions, profit, competition and monopoly), master a basic set of tools of economic analysis and demonstrate the ability to apply them to simple practical problems. This course is primarily designed as an introduction to microeconomic theory for undergraduate students pursuing a bachelor's degree in engineering. Both the course and the recommended textbook are accessible to students without a strong math background. Integral calculus is not used and the most important ideas are also demonstrated in graphs.

Subject code	Subject name	Requirement	ECTS credit
BMEGT30A001	Micro- and Macroeconomics	Exam	4

Course type	Course code	Course language	Timetable information
Lecture	F13	French	
Lecture	A27	English	WED:08:15-10:00(KF88); THU:12:15-14:00(K389);

Selected topics and analytical techniques in micro- and macroeconomics tailored for engineering students. Introduction to microeconomics. Some basic economic concepts and analytical tools. Scarcity: source of eternal struggle or the foundation of all economic systems? How does it determine everyday life, and what role does it play in the operation of businesses? Opportunity cost, sunk cost, normal profit. How does the product market work? Consumer choice: what are the options on the demand side, what are the goals of the consumer and how they are achieved? The forms and aims of businesses. Basics of accounting and finance. Cost and profit analysis. Competition and market systems. Introduction to macroeconomics. How does government policy interact with the decisions, profitability and life cycle of businesses? The main issues of macroeconomic study: gross domestic product, changes in the price level, unemployment ratio. Governmental policies: tools and effects. Fiscal policy: direct intervention to the life of the households and firms. Monetary policy: changes in the regulations, workings and major indicators of the financial market, and their effect on the households and firms. Economic growth and productivity. Issues of international trade: exchange rate and exchange rate policy.

Subject code	Subject name	Requirement	ECTS credit
BMEGT30MS07	Economic Analysis of Technology	Exam	2

Course type	Course code	Course language	Timetable information
Lecture	EN07	English	TUE:08:15-10:00(Q épület Tanszék);

Objectives and description of the course: Recently the education in different fields of engineering does not contain only the traditional topics of technology, but also elements from economic sciences. Thus engineers will be engaged to understand economic consequences of their decisions. The aim of the present subject is to give an introduction into this field based on empirical investigations as well as on theoretical approaches. After a short introduction it will be shown how basic categories could be used to describe the situation being under consideration. It follows the detailed investigation of the special relationship between technology and costs, again based on empirics and on traditional models. The next block contains questions dealing with the economic consequences of technological decisions, e. g. exhausting of natural resources, transport problem, environmental decisions, choosing production places, etc. Finally, problems of market structure (free competition, monopoly, monopolistic competition, oligopoly, etc.) caused by technology will be analyzed.

Subject code	Subject name	Requirement	ECTS credit
BMEGT30N002	Industrial Organization	Exam	6

Course type	Course code	Course language	Timetable information
Lecture	EN10	English	TUE:10:15-12:00; FRI:10:15-12:00;

This course is about different theoretical approaches to the organization and institutions of a market economy. The of the course is to get students acquainted with the most recent theories of different market structures and to their potential applications to practical problems related to market strategy and market regulation. After having finished the course, students should understand the key concepts of monopolistic and oligopolistic markets, the ways companies play their strategic games under different market conditions and the role a government can and should play in correcting market failures. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm;

mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman",serif;}				
Subject code	Subject name		Requirement	ECTS credit
BMEGT418959	Techniques of argumentation		Mid-semester mark	2
Course type	Course code	Course language	Timetable information	
Lecture	ER	English	WED:10:15-12:00(E203);	
<p>The undergraduate course offers a basic introduction to the everyday issues and scientific use of arguments with an introduction to formal and informal methods of analysing argumentations. It examines case studies taken from realistic scenarios and surveys a variety of topics from standard logic, argumentation and critical thinking. The course discusses issues from the point of view of argumentation and formal analysis in various fields as well as from the point of view of rhetoric and critical thinking. The topics covered give an introduction to core concepts and connect recent contributions that explore contemporary approaches to analysing everyday discourses and theoretical works. Apart from familiarizing the student with the established theories and key concepts in logic and argumentation theory, the course also provides practical training that enables students to analyse complex arguments with the help of various different tools. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman",serif;}</p>				
Subject code	Subject name		Requirement	ECTS credit
BMEGT41M410	Epistemology		Exam	3
Course type	Course code	Course language	Timetable information	
Lecture	EN	English	WED:14:15-16:00(E203);	
Subject code	Subject name		Requirement	ECTS credit
BMEGT42A003	Environmental Management Systems		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Lecture	27 EN	English		
<p>The course covers the topics relevant to the protection of environmental compartments, environmental pressures and pollution in a global context. The course introduces the concepts, indicators and tools of environmental protection, and the environmental management systems (EMS) at enterprises and other organizations. EMS topics include the assessment of environmental aspects and impacts, environmental audits, reporting, environmental performance evaluation, life cycle assessment.</p>				
Subject code	Subject name		Requirement	ECTS credit
BMEGT42A022	Risk Evaluation and Risk Management		Exam	3
Course type	Course code	Course language	Timetable information	
Lecture	20 EN	English	TUE:10:15-12:00(QB104);	
<p>Monetary valuation of natural capital and the concept of sustainable development (weak and strong sustainability). The necessity to value natural resources: the problem of public goods and free goods, discounting (social discount rate) and externalities. The areas of application and methodological basics of environmental valuation. The concept and elements of Total Economic Value. A detailed overview of the methods of environmental valuation: cost-based methods, productivity approach, revealed preference methods (hedonic pricing and travel cost method), stated preference or hypothetical methods and benefit transfer. An introduction to risk management: definition and approaches of risk, corporate risk management techniques, corporate social responsibility. Cost-benefit and cost-effectiveness analysis, case studies.</p>				
Subject code	Subject name		Requirement	ECTS credit
BMEGT42MN01	Regional Economics		Exam	3
Course type	Course code	Course language	Timetable information	
Lecture	13 EN	English	TUE:14:15-16:00(QB104);	
Subject code	Subject name		Requirement	ECTS credit
BMEGT42MN03	Sustainable Environmental and Natural Resource Economics		Exam	6
Course type	Course code	Course language	Timetable information	
Lecture	16 EN	English	MON:16:15-19:00(QB104);	
Practice	G17 EN	English	MON:19:15-20:00(QB104);	
<p>The course unit aims to achieve two main goals. Firstly, to teach students the economic theory governing the</p>				

efficient allocation of environmental and natural resources, based on their scarcity and renewability. Secondly, to offer an insight into the practical use-related questions of the various types of environmental and natural resources, with an overview of best practices currently available.

Subject code	Subject name		Requirement	ECTS credit
BMEGT42MN05	Environmental Economics		Exam	5
Course type	Course code	Course language	Timetable information	
Lecture	13 EN	English	WED:14:15-16:00(QA240);	
The course unit aims to introduce the natural and socio-economic causes of the problems investigated by environmental economics. It introduces the fundamental interrelations between development, economic growth, progress and economic performance with sustainable development, and the global conflicts and responses that stem out of these. It also introduces the concept of externalities, and problems originating in imperfect ownership regimes. It explores the problem of valuing nature, and the concept of total economic value. Finally, it analyses the most widely-used methods and means of environmental regulations, through theoretical analysis and real-life examples.				
Subject code	Subject name		Requirement	ECTS credit
BMEGT42MN06	Environmental and Regional Politics of the EU		Mid-semester mark	6
Course type	Course code	Course language	Timetable information	
Lecture	15 EN	English	MON:14:15-16:00(QB104);	
This course unit aims to introduce the evolution of environmental and regional policies, their strategic elements and changing tools, and their contemporary practices and key policy areas in the European Union. The course will introduce the basics of regional policy; its goals and interrelations with environmental policy, and the practical implications on Europe. It will highlight the development stages of regional policy in Europe, focusing on the key milestones and reform efforts in an expanding European Union. During the latter part of the semester, the course will introduce students to the fundamental concepts of environmental policy: its origins, nature and key stages of development. It will also focus on the EU's Environmental Action Plans, and the Sustainable Development Strategies. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman",serif;}				
Subject code	Subject name		Requirement	ECTS credit
BMEGT42MN22	Thesis Project		Mid-semester mark	30
Course type	Course code	Course language	Timetable information	
Lecture	16EN	English		
Subject code	Subject name		Requirement	ECTS credit
BMEGT42N000	Theory and Practice of Environmental Economics		Exam	4
Course type	Course code	Course language	Timetable information	
Lecture	18 EN	English	WED:14:15-16:00(QB105);	
The subject is to present the most important principles of environmental economics, environmental policy and sustainability as well as to show some practical applications. The topics included: systems and relations of economy, the society and the environment, a historical overview of environmental economics, the concept, levels and different interpretations of sustainable development. Environmental policy from an economic perspective is also discussed: its definition and types, economic and regulatory instruments in environmental protection, their advantages and limitations. Theoretical approaches include the theory of externalities, internalisation of externalities, Pigovian taxation, the Coase theorem, environmental economics in a macroeconomic context, alternative, 'green' macro-indicators (NEW, ISEW, GPI), monetary environmental valuation, the concept of total economic value and environmental valuation methods (cost-based methods, hedonic pricing, travel cost method, contingent valuation, benefit transfer). Environmental Policy in Hungary. Introduction to environmental economics. Nature conservation and natural parks. Energy policy: providing a safe and sustainable development strategy. European and Hungarian Sustainable Development Strategy. Sustainable consumption. Corporate Social Responsibility.				
Subject code	Subject name		Requirement	ECTS credit
BMEGT42N002	Regional Economics		Mid-semester mark	2
Course type	Course code	Course language	Timetable information	
Lecture	11 EN	English	TUE:14:15-16:00(QB104);	
The aim of the subject is to introduce basic, actual regional economics and spatial planning theory as well as the EU and Hungarian practice. The topics of the subject include the roots of spatial planning in economic theory, including the theories of Thunissen, Weber and Lusch, the theory of central places, growth poles and growth centres and territorial division of labour (Ricardo, Ohlin). The structural funds of the EU are introduced in detail. Further topics include the types and history of regions in Western, Central and Eastern Europe, regionalisation, decentralisation				

and regionalism, rural development, the effect of agricultural policy on rural development and rural development in Hungary, urban development, historical overview, differences between Western and Eastern Europe. The main characteristics of infrastructure development are also introduced, as well as the types of borders, the significance of borders in regional development and cross-border regional co-operations. Finally, the financial instruments of regional development, advantages and disadvantages of various instruments, Hungarian practice, distribution of resources among regions, institutional background and the system, management and financing of Hungarian municipalities are presented.

Subject code	Subject name	Requirement	ECTS credit
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BMEGT42N003	Environmental Management of Energy	Mid-semester mark	2
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Course type	Course code	Course language	Timetable information
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Lecture	11 EN	English	THU:10:15-12:00(QA228);
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The aim of the subject is to introduce and expand the scope of sustainable energy and resource management both on a domestic, EU and global scale, primarily from the corporate and policy aspects. The course will give an overview of the energetic status and trends in the EU and the world. It will give an introduction to Energetic Life Cycle Analysis. Business model of energetics and energy enterprises. EU energy policy, environmental and sustainability strategies. Energy strategies and energy-saving programmes. A Sustainability analysis of the environmental effects of the different kinds of sources of energy. Energetic interrelations in climate protection. Pollutions from energetic sources in Hungary and the EU. State institutions of energy and environmental protection policy. Summary and future perspectives.

Subject code	Subject name	Requirement	ECTS credit
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BMEGT42N004	Sectoral Sustainability Studies	Mid-semester mark	5
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Course type	Course code	Course language	Timetable information
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Lecture	08 EN	English	MON:10:15-14:00(QB104);
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The course unit aims to give an overview of the sectoral aspects and particularities of the transition to sustainable development. Students will be given an insight into the current trends and practices in the various sectors of the economy. Students are introduced to the concept sustainable development and the basics of environmental evaluations. They are then introduced to the horizontal strategies and policies of sustainable development. To conclude, students will learn about the sustainability strategies in various economic sectors. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman",serif;}

Subject code	Subject name	Requirement	ECTS credit
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BMEGT431143	Sociology of Culture	Mid-semester mark	2
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Course type	Course code	Course language	Timetable information
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Lecture	ENG	English	WED:16:15-18:00(E301);
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SOCIOLOGY OF CULTURE The course introduces basic theories of the Sociology of Culture relating to identity, subcultures, cultural differences and ethnicity, as well as presenting and discussing their practical relevance. Throughout the term, we will critically examine the concepts of high, mass and subculture, as well as those of nation, tradition, and community. The aim of this critical inquiry is not the relativisation of the mentioned concepts, but the introduction of those processes of social construction that lead to the emergence, consolidation and at times (re) negotiation of these categories and the related values and emotions. Through such inquiry, we are aiming towards a more nuanced understanding of the social- cultural conflicts of today's globalised society by the end of the term. Beyond presenting relevant theories and literature, the goal is to discuss the practical relevance and applicability of the observations through examples taken from across the globe.

Subject code	Subject name	Requirement	ECTS credit
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BMEGT43A002	Sociology	Mid-semester mark	2
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Course type	Course code	Course language	Timetable information
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Lecture	Eras1	English	TUE:12:15-14:00(E201);
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This course will give students an introduction to sociology by discussing a subject that concerns all of us: the global financial crisis and the ensuing Great Recession (or Slump) whose dire consequences continue to affect the world economy to this day. The objective is to equip students with the tools required to make sense of this crisis in its complexity. A further consideration, specific to engineering and economics students is that a sociological study of the Great Recession provides valuable insights into the social determinants of innovations, most prominently technological and financial. Learning about these issues will also help them develop a basic understanding of late capitalism. They will find that the major subjects in sociology like power, cultural values, violence, symbolic goods, anomie, collective action, etc. touch upon things that profoundly impact our lives without us being aware of their implications. The craft of sociology is to depart from conventional notions by asking hard questions about these things using the methods of rational inquiry.

Subject code	Subject name			Requirement	ECTS credit
BMEGT43A044	Sociology for Architects			Mid-semester mark	2
Course type	Course code	Course language	Timetable information		
Lecture	EN0	English	WED:12:15-14:00(E201);		
<p>The course will be presented for foreign students of the Faculty of Architecture. The aim of course is to analyse the social context of urban development and social problems of spatial problems. We will treat with main problems of urban sociology: e.g. architecture of cities, traffic, congestion, experience of urban life, the behaviour of inhabitants, housing, planning of cities, etc. Urban sociology studies social aspects of urban life: planning improvement of life in cities, urban forms and structures, histories of urban growth, biological or ecological basis of urban behaviour, quality of the urban experience, etc. We will analyse the anonymity, unpredictability and uncertainty of events, senses of possibility and danger induced by cities. Some of the main questions are: How urban life is affected by the features of local social structure? How informal social bonds develop? How to explain the history of urbanisation? What are the basic features of the spatial structure of cities? During this semester we will analyse the interacting mechanisms of capitalism and modernity constitute differential urban experiences. We provide a brief history of urban sociology, mostly focusing on the results of Chicago Schools. In the meantime exploring other economic and sociological theories of urban development and declination. It is important to study processes which produce inequalities within cities, e.g.: gentrification, suburbanisation, and household division. We should like focus directly onto the city and modernity. We consider Georg Simmel and Louis Wirth classic works dealing with a „generic“ urban culture. The urban ways of life could be contrasted with rural ways of life. We state (after Walter Benjamin) that no account of urban culture is adequate unless it takes seriously personal, unique, experiences of urban life, in the context of broader cultural forces. Finally, we analyse urban politics, changing political agendas, local economic policy, urban protest, urban planning, etc.</p>					
Subject code	Subject name			Requirement	ECTS credit
BMEGT43A066	The Cultural History of Recorded Music			Mid-semester mark	2
Course type	Course code	Course language	Timetable information		
Lecture	ENG	English	WED:14:15-16:00(E301);		
<p>Technology for recording, processing, storing and distributing information does not only influence access to cultural products (price, circulation, distribution channels). It also fundamentally impacts upon the formation on cultural canons and, on an individual level, the reception, interpretation and social use of cultural products. However, it would be wrong to assume a one-sided determinism, as neither the direction of technological development nor the speed of the spreading of new technology are independent from the cultural needs of a given society, or its economic and political conditions. The history of sound recording, encompassing more than one hundred years, illustrates this dynamics well. The theoretical perspective of the course draws on Cultural Studies, Media Theory, the Sociology of cultural production and consumption, as well as Popular Music Studies. Besides the technological history of sound recording, we will also look at the history and logic of the music industry, primary areas of sound archiving and collecting, and further cultural use relating to recorded music. We pay particular attention to avant-garde/experimental music that makes use of recorded music; digital pop music and DJ culture; as well as copyright debates relating to sampling and remixing.</p>					
Subject code	Subject name			Requirement	ECTS credit
BMEGT43A186	Philosophy of Art			Exam	5
Course type	Course code	Course language	Timetable information		
Lecture	Eng1	English	THU:16:15-18:00(E203);		
Practice	Eng2	English	THU:18:15-20:00(E203);		
<p>The course will introduce students to some major issues and problems in aesthetics and the philosophy of art. We will study a number of philosophical questions about the nature, the production, the interpretation and the appreciation of works of art. After studying the basic philosophical categories concerning art and artworks we will concentrate on specific aspects of the creation and appreciation of paintings, drawings, photographs, moving images, digital images, fictions, music etc. For instance, we will consider questions and arguments about „realism“ with respect to pictorial works of art, about literature and fictional works, and about the understanding and appreciation of music. Although most of the course will be devoted to the analytic philosophy art, we will also examine issues concerning design practices and products.</p>					
Subject code	Subject name			Requirement	ECTS credit
BMEGT43MN20	European Politics			Mid-semester mark	3
Course type	Course code	Course language	Timetable information		
Lecture	English_theor y	English	TUE:08:15-09:00(E203);		
Practice	English_pract ice	English	TUE:09:15-10:00(E203);		
<p>The aim of the course is to introduce students into the theoretical background and development of the European politics and the EU, then a more detailed examination of the particular EU policies. In the first part of the course, we</p>					

clarify the most important theoretical terms, like politics, nation state, democracy, power, international economic order, globalization and regionalization, international governmental and non-governmental organizations, etc., necessary for the understanding of the complex system of international political and economic order developed after WWII, in which the EU is embedded. Then we deal quite detailed with the historical background, foundation, development of the integration process and institutional set-up of the EU with a special attention to the recent changes, problems and challenges. In the last section students will have the opportunity to examine the most essential EU policy areas, like the finance and budget, agriculture amp; food, regional and local development, international economic relations, environment and energy, social policy amp; employment, culture and education.

Subject code	Subject name		Requirement	ECTS credit
BMEGT43MS07	Social and Visual Commucation		Mid-semester mark	2
Course type	Course code	Course language	Timetable information	
Lecture	ENG	English	WED:12:15-14:00(E704);	

Subject code	Subject name		Requirement	ECTS credit
BMEGT51A001	Pedagogy (Digital Pedagogy)		Mid-semester mark	2
Course type	Course code	Course language	Timetable information	
Lecture	angol 2	English	WED:10:15-12:00(QA127);	
Lecture	angol 1	English	TUE:10:15-12:00(QA127);	

Pedagogy BMEGT51A001 Pedagogical terms. The structure of teaching and learning processes. self-regulated learning and learning motivation. New possibilities for teaching and learning in the information technology age. The educational application of networks in vocational education and training. Efficient methods of learning. The possibilities of study management. Concepts of learning from ancient times ti our days. Prevailing trends in pedagogy. Alternative possibilities. New developments in educational technology, modern media as technological support of effective presentation. The tendencies of formal and non-formal education. The relationship of public education, vocational education and training, and the world of work.

Subject code	Subject name		Requirement	ECTS credit
BMEGT51A014	Pedagogy		Mid-semester mark	3
Course type	Course code	Course language	Timetable information	
Lecture	angol 2	English	WED:10:15-12:00(QA127);	
Lecture	angol 1	English	TUE:10:15-12:00(QA127);	

Pedagogy BMEGT51A014 Pedagogical terms. The structure of teaching and learning processes. self-regulated learning and learning motivation. New possibilities for teaching and learning in the information technology age. The educational application of networks in vocational education and training. Efficient methods of learning. The possibilities of study management. Concepts of learning from ancient times ti our days. Prevailing trends in pedagogy. Alternative possibilities. New developments in educational technology, modern media as technological support of effective presentation. The tendencies of formal and non-formal education. The relationship of public education, vocational education and training, and the world of work.

Subject code	Subject name		Requirement	ECTS credit
BMEGT51A017	History of Education and Technologies of Communication		Mid-semester mark	2
Course type	Course code	Course language	Timetable information	
Lecture	angol	English	THU:10:15-12:00(QA127);	

This course introduces students to communication technologies and their influence on learning from a historical, theoretical and practical perspective. As the forms of and technologies of communication are constantly changing, their impact on society, on education, on our perception of time and space is too. The lecture will emphasize the theoretical models that are essential to new communication technology as well as the practical applications and implications of new communication technology on education. Starting from the pre-history and non-verbal communication, a number of new communication technology areas such as computer-mediated communication, Web 2.0, mobile society and gamification will be explored. Topics: (Visual, auditory and ancillary methods (non-electrical) Pre-history: the language of gestures; the culture of primary orality. Symbols: cave paintings; pictograms, writing The Greek origins of Western education: alphabetic literacy and the philosophy of Plato. Medieval culture: the decline and rebirth of literacy; religious orders; universities in the Middle Ages. A social history of timekeeping: from natural time to the mechanical clock. Image and word: woodcuts, etchings, paintings, photography. Gutenberg galaxy: the impact of the printing press; early-modern school systems; the new concept of childhood; modern science and modern libraries. (Advanced electrical and electronic signals) Telegraphy, telephony, radio broadcasting: the beginnings of secondary orality. Comics: a new integration of image and word. The epistemology and pedagogy of film: new iconic culture. The end of the Gutenberg Galaxy: McLuhan and the idea of a global village. (The digital signals) The internet: Licklider and Kleinrock. Secondary literacy: e-mail and web-based communication. Digital vs. analog paradigm. The World Wide Web: Berners-Lee. One-to-one, one-to-many, many-to-many communication Education and learning in the Information Society: networked knowledge, e-learning. Web 2.0. The altered producer-

user paradigm. The rise of the prosumer. Blogs, social networking sites, video sharing sites. New media in education. Big data and crowdsourcing. Gamification The Mobile Information Society. M-learning. U-learning.

Subject code	Subject name	Requirement	ECTS credit
BMEGT51A020	(Lifelong) Learning and Working Life	Mid-semester mark	2

Course type	Course code	Course language	Timetable information
Lecture	angol	English	WED:14:15-16:00(QA121);

Emphasizing the development of independent problem-identifying and problem-solving skills by analyzing Hungarian and European labour market challenges. In the framework of optional exercises and self-controlled learning processes and by acquiring the steps of program planning concentrating on the field of technology, training orientation possibilities are granted to participants on their fields of interest. During the training period we try to present the practical applicability and large scale practice orientation through theoretical knowledge, wide-range technological examples, case-studies and the analysis of changes. The participants of this course will gain the necessary knowledge and competences for understanding the importance of sustaining the lifelong competitive knowledge by making individual job and scope of activities analysis based on their own learning competences and methods. They will understand the problems of learning skills as life skills, a new type of human capital, networking, teamwork and working methods in the context of lifelong learning. What does it mean not only surviving but being successful in the dynamically changing professional and global environment today? The development of modern, modular and competence-based methods and curriculum, elaboration of methods, curriculum and programs that allow individual and open learning ways. The thorough modernization of the system of trainers'squo; training for allowing educators to learn the skills, competences, methodological and practical knowledge which enables them the successful transmission of knowledge.

Subject code	Subject name	Requirement	ECTS credit
BMEGT52A001	Ergonomics	Mid-semester mark	2

Course type	Course code	Course language	Timetable information
Lecture	82e	English	

Concept of Ergonomics: Man-machine systems, levels of compatibility, characteristics of the human and the technical subsystems, significance and quality of user interface. Workplace design: Basic ergonomic principles and design guidelines for different working environments: workshops in mechanical industry, traditional and open room offices as well as other working places with VDUs, control rooms in the process industry, client service workplaces (governmental organizations, banks and ICT companies). Human factors of safety. Human-computer interaction: Analytical (cognitive walkthrough, guideline review and heuristic) and empirical methods of assessing usability of software and other smart products. Website quality, web-mining. Industrial case studies with the INTERFACE research and assessment workstation.

Subject code	Subject name	Requirement	ECTS credit
BMEGT52V100	Fashion and the Psychology of Advertising	Mid-semester mark	2

Course type	Course code	Course language	Timetable information
Lecture	27e	English	

The course aims to have a look behind the scenes of the colorful and glamorous world of fashion and advertising. What we see at first glance is a huge industry where millions of professionals are pushing the machinery to play upon our instincts. We shall study the methods, reviewing the role of public relations, sales promotion, the role of the brands, and the templates and stereotypes used in the different media. The vast amount of knowledge piled up by behavioral sciences will help us answer the question why our basic instincts to imitate can be used and abused. Why is it that we are ready to spend billions on shampoo, new clothes, junk food, gadgets ... etc. hoping to buy identity. We will also reveal that the very nature of the social animal - the group - plays an even more decisive role in our preferences and purchases – introducing a variety of approaches from the basic theories of fashion (trickle down, cascade, herd behavior) to network theories. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Normál táblázat"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0cm 5.4pt 0cm 5.4pt; mso-para-margin:0cm; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-family:"Times New Roman",serif;}