Study plan

Name of study plan: Financial management, AR 22/23, prezen ní forma

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Innovation Project Management

Type of study: Follow-up master full-time

Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 81

The role of the block: Z

Code of the group: FINM P 1S 22/23 PV

Name of the group: Povinné p edm ty, Financial management, AR 22/23, prezen ní forma

Requirement credits in the group: In this group you have to gain at least 24 credits

Requirement courses in the group: In this group you have to complete at least 4 courses

Credits in the group: 24 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
G16E1401	Marketing Innovations Marek Jemala	Z,ZK	6	2P+2C	Z	Z
G16C1401	Innovation Marketing Tomáš Sadílek	Z,ZK	6	2P+2C		Z
G16C1201	Project Management Petr Fanta	Z,ZK	6	2P+2C		Z
G63C1301	Corporate Financial Management	Z,ZK	6	2P+2C		Z
G63C1102	Statistical Analysis Ji í Zmatlík	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=FINM P 1S 22/23 PV Name=Povinné p edm ty, Financial management , AR 22/23, prezen ní forma

G16E1401 | Marketing Innovations | Z,ZK | 6 The primary role of innovation in marketing is to gain new customers, improve goodwill, increase sales and profitability of the company. At the beginning of the innovation process, innovative marketing should help identify new market opportunities and risks and improve the research of customer needs. During developing a new product, innovation marketing is to ensure the constant involvement of customers and users in this process. And at the end of the innovation process, innovation marketing ensures the successful introduction of a new product, technology, and service to the target audience. Innovation marketing should therefore be present at all stages of the innovation process to ensure that customer and market orientation is in line with advances in products and technologies, which often lead to the application of new marketing approaches. We address these main aspects in this subject.

G16C1401	Innovation Marketing	Z,ZK	6
G16C1201	Project Management	Z,ZK	6
G63C1301	Corporate Financial Management	7 7K	6

The course provides a comprehensive view of building the essential aspects of financial management of business processes and projects. Students have the opportunity to understand the main concepts, tools and methods of financial management of processes and projects and their use in decision-making practice. Substantial emphasis is placed on evaluating the financial performance of the company, evaluation and valuation of tangible and financial investment projects, working capital management, methods of financing the company, project financing, methods of financial planning and forecasting, and valuation techniques.

G63C1102	Statistical Analysis	Z,ZK	6
The course builds on the	e introductory courses of statistics and prefaces slightly advanced statistical analysis methods.		•

Code of the group: FINM P 2S 22/23 PV

Name of the group: Povinné p edm ty, Financial management, prezen ní forma, AR 22/23

Requirement credits in the group: In this group you have to gain at least 18 credits

Requirement courses in the group: In this group you have to complete at least 5 courses

Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
G63C2301	Controlling Arnošt Klesla Theodor Beran	Z,ZK	6	2P+2C	L	Z
G63C2302	Financial Law	ZK	3	2P+0C		Z
G63C2201	Microeconomic Theory František H ebík, Petr Makovský Petr Makovský (Gar.)	ZK	3	2P+0C	*	Z
G00C3101	Diploma Thesis Project Petr Vym tal Petr Vym tal	Z	0	1P+0C		Z
G16C2501	HR Management Systems Martin Šiký	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=FINM P 2S 22/23 PV Name=Povinné p edm ty, Financial management, prezen ní forma, AR 22/23

G63C2301	Controlling	Z,ZK	6					
Controlling methods are	Controlling methods are presented from the initial detection of deviations to advanced models of managerial decision support in strategic horizons in the context and against the							
background of the mana	gement of basic business processes with an emphasis on the processes determining the effect of added value in the company'	s activities. The ta	sks of controlling					
are systematically expla	ined according to the time perspective in the scope of corporate strategies and operational management, including the role	of the controller in	the individual					
phases of management	from analysis to reporting. The content of the course is also focused on the presentation of methods and management tools	that can be used	to manage					
individual components (entities) in mutual interaction, especially in the area of cost management. Examples of models and case studies and tasks are	used to present the	he key principles					
of controlling in the com	pany.							
G63C2302	Financial Law	ZK	3					
G63C2201	Microeconomic Theory	ZK	3					
The course introduces t	he analysis of the theory of consumer, the theory of firm, and the market interactions of consumers and firms.							
G00C3101	Diploma Thesis Project	Z	0					
G16C2501	HR Management Systems	Z,ZK	6					
The course is focused on the development of managerial skills in managing people in the organization. Through lectures and seminars, students will learn effective strategies, policies								
and practices for efficient people management in the organization and the main tasks of managers in various activities of people management in the organization.								

Code of the group: FINM P 3S 22/23 PV

Name of the group: Povinné p edm ty, Financial management, prezen ní forma, AR 22/23

Requirement credits in the group: In this group you have to gain at least 21 credits

Requirement courses in the group: In this group you have to complete at least 4 courses

Credits in the group: 21

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
32MC-P-MACT-01	Macroeconomic Theory František H ebík, Theodor Beran Theodor Beran (Gar.)	ZK	3	2P+0C		Z
G63C3201	Theodor Beran	ZK	3	2P+0C	Z	Z
32MC-P-ROAN-01	Decision Analysis Ji í Zmatlík Ji í Zmatlík (Gar.)	Z,ZK	6	2P+2C		Z
G16C3103	Lucie Plzáková	Z,ZK	6	2P+2C		Z
G16C3102	Innovation Management and Innovation Project Dagmar Skokanová	Z,ZK	6	2P+2C		Z
32MC-P-RIIP-01	Innovation Management and Innovation Project Dagmar Skokanová, Petra Jílková Dagmar Skokanová Dagmar Skokanová (Gar.)	Z,ZK	6	2P+2C		Z
G16C3101	Dana Zadražilová	Z,ZK	6	2P+2C	Z	Z
32MC-P-STRR-01	Strategic Management Dana Zadražilová, Vladimíra Šilhánková, Tomáš Sadílek Vladimíra Šilhánková Dana Zadražilová (Gar.)	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=FINM P 3S 22/23 PV Name=Povinné p edm ty, Financial management, prezen ní forma, AR 22/23

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32MC-P-MACT-01	Macroeconomic Theory	ZK	3				
G63C3201		ZK	3				
32MC-P-ROAN-01	Decision Analysis	Z,ZK	6				
The aim of the subject Decision Analysis is to acquaint students with the basic methods of decision-making in technical and economic, to use appropriate tools within decision-making							
processes.							
G16C3103		Z,ZK	6				

G16C3102 Innovation Management and Innovation Project

Concepts of innovation process innovation project inn

Concepts of innovation, prerequisites and barriers to innovation, sources of innovation, strategic considerations of innovation, process innovation, product innovation, service innovation, a macroeconomic view of the role of innovation, organizational support and management of innovation, soft methods and techniques of innovation, systematic-analytical methods and techniques of innovation, economic aspects of innovation, intellectual property of innovation and legal aspects.

32MC-P-RIIP-01 | Innovation Management and Innovation Project

Z,ZK

6

Concepts of innovation, prerequisites and barriers to innovation, sources of innovation, strategic considerations of innovation, process innovation, product innovation, service innovation, a macroeconomic view of the role of innovation, organizational support and management of innovation, soft methods and techniques of innovation, systematic-analytical methods and techniques of innovation, economic aspects of innovation, intellectual property of innovation and legal aspects.

 G16C3101
 Z,ZK
 6

 32MC-P-STRR-01 Strategic Management
 Z,ZK
 6

The subject is focused on strategic planning and management, including the necessary contexts and links, as one of the main tools for long-term planning and direction of the organization as a whole or part of it (enterprise or institution of any type or even municipality, region or state). As part of teaching the subject, relevant case studies from practice will be used. In the center of attention are questions of competitiveness, competitive advantages, changes in the configuration of business processes and their influence on the process of integration of the Czech economy and Czech companies into global trade.

Code of the group: FINM P 4S 22/23 PV

Name of the group: Povinné p edm ty, Financial Management, prezen í forma, AR 22/23

Requirement credits in the group: In this group you have to gain at least 18 credits

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
G00C4102	Diploma Thesis Petr Vym tal	Z	12			Z
32MC-P-DIPR-01	Diploma Thesis Arnošt Klesla, František H ebík, Petr Makovský, Petr Vym tal, Theodor Beran, Ji í Zmatlík, Dagmar Skokanová, Petra Jílková, Dana Zadražilová,	Z	12			Z
G63C4401	Information System Design Ji í Kaiser	Z,ZK	6	2P+2C		Z
32MC-P-PRIS-01	Information System Design Ji í Kaiser Ji í Kaiser Ji í Kaiser (Gar.)	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=FINM P 4S 22/23 PV Name=Povinné p edm ty, Financial Management, prezen í forma, AR 22/23

G00C4102	Diploma Thesis	Z	12
32MC-P-DIPR-01	Diploma Thesis	Z	12
G63C4401	Information System Design	Z.ZK	6

Fundamental terms, information systems architecture, basic types of software applications for information system of enterprise, information system lifecycle, approaches to information system development, management information systems, web audit, business process modeling using BPMN, UML and others, information system modeling - UML and data modeling using ER diagrams

32MC-P-PRIS-01 Information System Design

Z,ZK

Fundamental terms, information systems architecture, basic types of software applications for information system of enterprise, information system lifecycle, approaches to information system development, management information systems, web audit, business process modeling using BPMN, UML and others, information system modeling - UML and data modeling using ER diagrams

Name of the block: Povinné p edm ty zam eni

Minimal number of credits of the block: 18

The role of the block: PZ

Code of the group: FINM P 22/23 SP

Name of the group: Specializa ní p edm ty, Financial management, prezen ní forma, AR 22/23

Requirement credits in the group: In this group you have to gain at least 18 credits

Requirement courses in the group:

Credits in the group: 18

Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
32ME-P-EFNM-01	Economic and Financial Management Ji í Zmatlík Ji í Zmatlík Ji í Zmatlík (Gar.)	KZ	3	0P+2C		PZ
G63E3301	Economic and Financial Modelling	KZ	3	0P+2C		PZ

G63E2301	Financial Markets and Risk Management Helmuth Yesid Arias Gomez	Z,ZK	6	2P+2C	L	PZ
G63E1302	International Financial Management Aliya Algozhina	Z,ZK	6	2P+2C		PZ
32ME-P-MEPO-01	Monetary Economics and Policy Aliya Algozhina Aliya Algozhina (Gar.)	Z,ZK	6	2P+2C		PZ
G63E4201	Monetary Economics and Policy	Z,ZK	6	2P+2C		PZ

Characteristics of the courses of this group of Study Plan: Code=FINM P 22/23 SP Name=Specializa ní p edm ty, Financial management, prezen ní forma, AR 22/23

32ME-P-EFNM-01	32ME-P-EFNM-01 Economic and Financial Management						
The course is organized in 2 seminars weekly, 3 credits. Analyzing and solving models of optimal allocation of assets, management of risk, and Portfolio allocation							
G63E3301	KZ	3					
The course is organize	The course is organized in 2 seminars weekly, 3 credits. Analyzing and solving models of optimal allocation of assets, management of risk, and Portfolio allocation						
G63E2301 Financial Markets and Risk Management			6				

The analysis of the management of financial risk recently tends towards strategies for hedging the portfolio, and for designing an investment strategy based on diversification. The course spans broad sections implementing the principles of variable income and fixed income. The Financial Models evolved rapidly from the inception of the Modern Theory of Portfolio. The original Mean - Variance analysis, the CAPM, The Black-Litterman model, the disruptive framework implicit in the Black Scholes model for pricing options and the Bob Merton's contribution, all of them represent theoretical breakthroughs in the field of finance. When tackling this study, solid statistical basis and advanced skills in Excel are required. The analysis of risk relies on Many of the models based on important benchmarks rooted in Merton's options theoretic approach and explains default in structural terms related to the market value of the firm's assets as compared to its debt obligations. Other model statistically decomposes observed risky debt prices into default risk premiums. The set of models pretends to measure the credit risk of a loan or a portfolio of loans. In this vein, the curse pursuits to simplify the technical details and analytics surrounding these models, while concentrating on their underlying economics and economic intuition. They learn to use market instruments and market analyses to design efficient investment and hedging strategies and methods for the company capital management hurled to financial markets.

G63E1302 International Financial Management

This course provides concepts related to financial management of any multinational company functioning in several countries and thus dealing with exchange rate and interest rate risks. The hedging strategies against those risks are covered via money market and financial derivatives such as forwards, futures, options, and swaps. Profitable situations in the foreign exchange market are also described using locational arbitrage, triangle arbitrage, and covered interest arbitrage. Operational aspects of managing financially a multinational company are presented as well. The main textbook is Eun, Resnick, and Chuluun (2021), yet Madura and Fox (2020) can be also read for this course. There will be lectures and exercise sessions, where different problem sets based on lecture materials are solved together in class.

Z,ZK

6

32ME-P-MEPO-01 Monetary Economics and Policy

This course provides basic concepts from monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of three major parts. The first part starts with the definition of money, its functions, and its measures in the form of monetary aggregates' statistics compiled by central banks. It leads then to the inner workings of financial markets, particularly the interest rate dynamics of bonds and stocks. The second part focuses on the practical conduct of monetary policy: how money supply is created, what tools of monetary policy are used to affect the market interest rate, and how central banks can intervene in the foreign exchange market to regulate the exchange rate. The third part sheds light on the theoretical frameworks of money, aggregate demand-supply analysis based on the monetary policy curve, and channels through which the changes in policy interest rate transmit to the aggregate output and inflation in the economy. The special case of nonconventional monetary policy adopted during the global financial crisis 2007-2009 when countries reached their zero lower bound of interest rates is demonstrated too. The leading textbook is Mishkin (2022) listed with other optional readings below. There are lectures and exercise sessions, where different problem sets based on lecture materials are solved together in class. A guest speaker from the Czech National Bank will be invited for one lecture.

G63E4201 | Monetary Economics and Policy

This course covers basic concepts from monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of two major parts. The first one starts with the definition of money, its functions, and monetary aggregates and leads to the inner workings of financial markets, particularly interest rate dynamics. The second one combines the practical conduct of monetary policy by central banks with the theoretical frameworks of what explains inflation in the long run and how monetary policy can stabilize the economy and inflation. The leading textbook is Mishkin (2022) listed with other optional readings below. There will be lectures and exercise sessions, where different problem sets based on lecture materials are solved together in class.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 21

The role of the block: PV

Code of the group: FINM P 22/23 PVP

Name of the group: Povinn volitelné p edm ty, Financial management, prezen ní foma, AR 22/23

Requirement credits in the group: In this group you have to gain at least 12 credits

Requirement courses in the group:

Credits in the group: 12

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
32ME-P-ADFM-01	Advanced Topics in Financial Management Helmuth Yesid Arias Gomez Helmuth Yesid Arias Gomez Helmuth Yesid Arias Gomez (Gar.)	Z,ZK	3	0P+2C		PV
32ME-P-AGBC-01	Agile BootCamp Dagmar Skokanová, Petra Jílková, Petr Fanta, Libor Cupal Dagmar Skokanová Dagmar Skokanová (Gar.)	KZ	3	24B		PV
G16E0201	Agile BootCamp Dagmar Skokanová	KZ	3	0P+2C		PV
G16C0101	Balanced Scorecard	Z,ZK	6	2P+2C	Z,L	PV

G16E2302	Business Process Management Petra Šeráková	Z,ZK	6	2P+2C		PV
32ME-P-BPMN-01	Business Process Management Petra Šeráková Petra Šeráková Petra Šeráková (Gar.)	Z,ZK	6	2P+2C		PV
32ME-P-CHIN-01	China's Innovations and Global Influence Jan Švec Jan Švec (Gar.)	ZK	3	2P+0C		PV
127CP11	City Planning 11 Ji í Kugl, Ivan Horký, Václav Jetel, Ji í Kupka Ji í Kugl Ji í Kugl (Gar.)	ZK	2	2P	Z,L	PV
32ME-P-CLCH-01	Climate Change Causalities Michael Pond lí ek Michael Pond lí ek (Gar.)	Z,ZK	6	3P+1C		PV
32MC-P-VLAD-01	Public Sector Governance Radim Bureš Radim Bureš (Gar.)	Z	3	0P+2C		PV
G63E0201	Economics of Climate Change Ond ej Kolínský	Z,ZK	6	2P+2C		PV
G04E0201	English for Intercultural Communication Ond ej Galuška	Z,ZK	6	0P+4C	Z,L	PV
32ME-P-ENIC-01	English for Intercultural Communication Ond ej Galuška, Kryštof Beták Eva Císlerová Ond ej Galuška (Gar.)	Z,ZK	6	0P+4C		PV
32MC-P-ENAR-01	Environmental Aspects of Regional Development Michael Pond Ii ek Michael Pond Ii ek Michael Pond Ii ek (Gar.)	ZK	3	2P+0C		PV
G65C0202	Environmental Aspects of Regional Development Michael Pond Ii ek	ZK	3	2P+0C		PV
32ME-P-EUPO-01	European Union and Regional Policy Petr Fanta Petr Fanta (Gar.)	ZK	3	2P+0C		PV
G65E4101	European Union and Regional Policy	ZK	3	2P+0C		PV
G63E0202	Green Transition Ond ej Kolínský	Z,ZK	6	2P+2C		PV
32ME-P-PIMN-01	Innovation Project Management Marek Jemala Marek Jemala (Gar.)	Z,ZK	6	2P+2C		PV
127XKRS	Landscape and Settlements Ji í Kupka, Zuzana Pešková Ji í Kupka Ji í Kupka (Gar.)	Z	2	2P	L	PV
32ME-P-MINE-01	Management in International Environment Vincent Blaise Montenero Vincent Blaise Montenero Vincent Blaise Montenero (Gar.)	Z,ZK	3	1P+1C		PV
G16E0102	Managing in an International Environment Vincent Blaise Montenero	Z,ZK	3	1P+1C		PV
G04E0202	Meetings and Negotiations in English Dagmar Skokanová	Z,ZK	6	0P+4C	L	PV
32ME-P-MNEN-01	Meetings and Negotiations in English Dagmar Skokanová Dagmar Skokanová (Gar.)	Z,ZK	6	0P+4C		PV
G16E2201	Modern Approaches in Project Management Old ich Bronec	Z,ZK	6	2P+2C	L	PV
32ME-P-MAPM-01	Modern Approaches in Project Management Old ich Bronec Old ich Bronec (Gar.)	Z,ZK	3	2P+1C		PV
G66C0101	Reflections of Technical Innovations in Culture	ZK	3	2P+0C	L	PV
32MC-P-OTIK-01	Reflections of Technical Innovations in Culture Kate ina Tomešková Kate ina Tomešková (Gar.)	ZK	3	2P+0C		PV
32MC-P-PRX1-01	Internship Libor Cupal, So a Cupalová So a Cupalová So a Cupalová (Gar.)	Z	6	180XH		PV
G00C4104	Practice So a Cupalová	Z	6	180XH		PV
G16C0301	Lean Management Practice Tomáš Sadílek	ZK	3	0P+2C		PV
G16E0203	Project Innovation Management Marek Jemala	Z,ZK	6	2P+2C		PV
32ME-P-PTMN-01	Project Technology Management Marek Jemala Marek Jemala (Gar.)	Z,ZK	6	2P+2C		PV
G16E0202	Project Technology Management Marek Jemala	Z,ZK	6	2P+2C		PV
G65C0103		Z,ZK	3	1P+1C		PV
G65E2301	Regional Development and Planning Lucia Dobrucká	Z,ZK	6	2P+2C	Z,L	PV
32ME-P-RDPL-01	Regional Development and Planning Lucia Dobrucká Lucia Dobrucká (Gar.)	Z,ZK	6	2P+2C		PV
32MC-P-RGIS-01	Regional Studies Vladimíra Šilhánková Vladimíra Šilhánková (Gar.)	ZK	3	2P+0C		PV
G16C0104	Solving Real World Problems Tomáš Sadílek	ZK	3	0P+2C		PV
G16C0201	Service Design Petra Jílková	Z,ZK	3	0P+2C		PV
32MC-P-SDES-01	Service design Petra Jílková Petra Jílková (Gar.)	Z,ZK	3	0P+2C		PV

G65E1301	Smart Cities and Regions Martin Maštálka	Z,ZK	6	2P+2C	PV
32ME-P-SMCR-01	Smart Cities and Regions Martin Maštálka Martin Maštálka (Gar.)	Z,ZK	6	2P+2C	PV
32ME-P-SCOM-01	Social Competences in Project and Process Management Petr Fanta, Martin Šiký Martin Šiký Petr Fanta (Gar.)	Z	3	0P+2C	PV
G16E0501	Social Competences in Project and Process Management Martin Šiký	Z	3	0P+2C	PV
32MC-P-SVRG-01	Social Relations in the Regions Lucie Plzáková Lucie Plzáková (Gar.)	Z,ZK	3	1P+1C	PV
32MC-P-SPOL-01	Public and Private Sector Collaboration Libor Cupal, Radim Bureš Radim Bureš Radim Bureš (Gar.)	Z,ZK	3	1P+1C	PV
32ME-P-SENM-01	Strategies of Entering New Markets Vincent Blaise Montenero Vincent Blaise Montenero Vincent Blaise Montenero (Gar.)	Z,ZK	3	1P+1C	PV
G16E0401	Strategies of Entering New Markets Vincent Blaise Montenero	Z,ZK	3	1P+1C	PV
TUMQTECH	Tech Challenge (Technical University of Munich, DEU)	ZK	6		PV
G65C0201	Territorial Management Planning Vladimíra Šilhánková	ZK	3	2P+0C	PV
32MC-P-UZMN-01	Territorial Management Planning Vladimíra Šilhánková Vladimíra Šilhánková (Gar.)	ZK	3	2P+0C	PV

Characteristics of the courses of this group of Study Plan: Code=FINM P 22/23 PVP Name=Povinn volitelné p edm ty, Financial management, prezen ní foma, AR 22/23

32ME-P-ADFM-01 Advanced Topics in Financial Management Z,ZK 3
During the course will be studied the strategies for recognizing the financial performance of firms. The market information drawn from the transactions performed at the financial markets

will be combined with the internal corporative sources. Several approaches and indicators will be applied to assess the evolution of companies. The course aims at overhaul the path research of the portfolio theory and recognize the main financial models intended to manage the assets. The exercises and theoretical perspective deal with a diversity of strategies developed for assigning a portfolio of investment, combining assets of different degree of risk, underpining the position with the diversification principle. The overview starts with the pioneering Markowitz contribution; the course analyzes also the Merton Miller model of irrelevance of the equity-debt composition for the corporative structure of capital. The analysis includes also the Sharpe CAPM model. But previously, the student must be aware of all statistical concepts dealing with uncertainty, probability distributions, confidence intervals and probability of default. With the conducing background the course enters in the definition of VaR applications, in order to quantify the amounts of loses based on the probability distribution, based on the Gaussian statistical theory. The estimation of measures of risk conveyed by each individual asset is run by econometric methods.

32ME-P-AGBC-01 Agile BootCamp

KZ 3

Agile Bootcamp course teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods that work well together within the same cross-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process.

G16E0201 Agile BootCamp

KZ | 3

Agile Bootcamp course teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods that work well together within the same cross-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process. Teaching mode: completely online or hybrid, at a specific time/week during the semester.

G16C0101	Balanced Scorecard	Z,ZK	6
G16E2302	Business Process Management	Z,ZK	6
32ME-P-BPMN-01	Business Process Management	Z,ZK	6
32ME-P-CHIN-01	China's Innovations and Global Influence	ZK	3

The course provides an exploration of China's ability to combine dictatorship with technology innovations, and it's growing global role including an impact on Europe. We will start with an introduction to China's political and economic system. That would give us the important basis for understanding China's technological innovations and rising global influence. We will discuss the role of technology in everyday life in China, how it impacts economy, but also how the government abuses technology to control people. In further detail, we will cover China's global role and how dependence on China might impact Europe. Last but not least, we will hypothesize on China's future development and its obstacles.

127CP11 City Planning 11

K

Concepts in urban space design in history, form of the city, typology of urban space, philosophies behind, practices of urban space design in European cultural context, land-use, planning controle, preservation of cities, urban ecology, trends and policies in urban planning and regional development.

32ME-P-CLCH-01 Climate Change Causalities

Z,ZK

The course gives the students an overview of the links and relationships between adaptation, resiliency, and mitigation. In the field of state administration and self-government, industry and development, and the environment and processes associated with the preparation of investments, the students will be able to identify and evaluate appropriate basic measures and estimate the main adaptation processes and their difficulty for a given settlement or area. Students will get clear information about the processes and activities associated with the planning and implementation of adaptations and mitigations on a living basis, but also at the regional, national, and European level. The course focuses, among other things, on students' practical knowledge of the effects of climate change, so managers from practice will be invited to lessons or seminars.

32MC-P-VLAD-01	Public Sector Governance	Z	3
G63E0201	Economics of Climate Change	Z,ZK	6
G04E0201	English for Intercultural Communication	Z.ZK	6

The seminar will focus on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences influencing communication, and examine the role of language means in intercultural negotiations. Outline of the subject: Approaches to culture. Cultural and language context in communication. Intercultural theories and their influence on behaviour and language expression. International English as lingua franca. The most common mistakes as a cause of misunderstanding. Language practice and activities. Case studies on individual topics Language level: CEFR B2

32ME-P-ENIC-01 | English for Intercultural Communication

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The seminar will focus on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences influencing communication, and examine the role of language means in intercultural negotiations. Outline of the subject: Approaches to culture. Cultural and language context in communication. Intercultural theories and their influence on behaviour and language expression. International English as lingua franca. The most common mistakes as a cause of misunderstanding. Language practice and activities. Case studies on individual topics Language level: CEFR B2

32MC-P-ENAR-01	Environmental Aspects of Regional Development	ZK	3
G65C0202	Environmental Aspects of Regional Development	ZK	3

32ME-P-EUPO-01 European Union and Regional Policy	ZK	3
The course discusses developments in the EU and in the EU Regional Policy from the end of the Cold War until today. It focuses on relevant issues	of the integration r	process. It is
based on lectures, class discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of	the course are to e	explain a modern
development of the EU, analyse key points in particular areas of integration and practise argumentation skills.		
G65E4101 European Union and Regional Policy	ZK	3
The course discusses developments in the EU and in the EU Regional Policy from the end of the Cold War until today. It focuses on relevant issues based on lectures, class discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of		
development of the EU, analyse key points in particular areas of integration and practise argumentation skills.	the course are to e	xpiaiii a iiiodeiii
G63E0202 Green Transition	Z,ZK	6
Green transition is sometimes imagined as a technical question involving mostly energy production and industrial processes. Nonetheless, wider socie	1 '	-
are indispensable to successful transformation. The course introduces different transition approaches focusing on such wider frameworks and stres	-	
politics, markets, industry, and social changes. Theoretical concepts of transformation will then be linked to current reality in specific regions (with e	mphasis on but no	t limited to the
EU).		
32ME-P-PIMN-01 Innovation Project Management	Z,ZK	6
Successful innovation requires much more than the management of individual aspects of the innovation process within the institution; it also require		
deals with the interactions between various stakeholders, their goals, objectives, markets, and organizations. Traditional innovation management usua		
for innovation planning, usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that control within the past of the institution. In a past in a within the past of the institution of the institution. It is a past in a within the past of the institution of		
working only within the set of rules and measures of the institution. However, most innovation projects require an individual approach so that projec Innovative, and creative. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a supp		
the socio-ecological goals of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate	•	
the basic prerequisites for an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Ir		
implementation and commercialization of innovations, and related intellectual property protection. After completing the course, the student should a	enswer the following	g framework
topics: how to identify and manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, c	reate a project bud	lget, define and
allocate resources for innovation, manage project development, identify and manage innovation risks, and understand the sourcing process for the		
intellectual property and how to implement and commercialise innovations. The course includes approaches, experience, and examples of the best	 	
127XKRS Landscape and Settlements	Z	2
The optional course presents selected chapters on landscape architecture and urbanism, focusing on two thematic blocks - garden art and settlemen the series of compulsory and optional courses at Bachelor and Master level in Environmental Engineering and Architecture and Civil Engineering v		
and complementary topics that were not covered in the compulsory and optional courses.	nin various aspecis	s, perspectives
32ME-P-MINE-01 Management in International Environment	Z,ZK	3
G16E0102 Managing in an International Environment	Z,ZK	3
The preparatory phase. Implementation: knowledge transfer and possible adaptations. Strategic partnership and consequences on the cooperation	1 '	-
stakeholders. The DFI and its constraints. Parent company versus locals. Managing multi-cultural teams. Remote management. Expatriation. Managing multi-cultural teams.		- 1
Knowing oneself and developing ones competences.		
G04E0202 Meetings and Negotiations in English	Z,ZK	6
English for Meetings and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for	students at the up	per intermediate
evel. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations.	_	
focused on confrontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing a situations. The course is based on the modern, increasingly widespread model of "International English", ie international English understood as ling		
with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English.	ua Italica. Listeriiri	g materials work
32ME-P-MNEN-01 Meetings and Negotiations in English	Z,ZK	6
English for Meetings and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for	1	-
evel. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations.		
focused on confrontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing a	and coping with cor	nfrontational
situations. The course is based on the modern, increasingly widespread model of "International English", ie international English understood as ling	ua franca. Listenin	g materials work
with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English.		
G16E2201 Modern Approaches in Project Management	Z,ZK	6
32ME-P-MAPM-01 Modern Approaches in Project Management	Z,ZK	3
G66C0101 Reflections of Technical Innovations in Culture	ZK	3
The subject is intended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide rar		rom the field of
nnovation processes, for the understanding and internalization of which a deep understanding of the connections between science and culture is a	, , , , , , , , , , , , , , , , , , , 	0
32MC-P-OTIK-01 Reflections of Technical Innovations in Culture The course is intended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide rar	ZK	3 om the field of
nnovation processes, for the understanding and internalization of which a deep understanding of the connections between science and culture is a		om the neta of
32MC-P-PRX1-01 Internship	Z	6
The classification of the subject of professional practice is based on the decision of the MÚVS VUT during their studies to give students the oppo		
experience. MÚVS supports the establishment of a relationship between students and companies and emphasizes their mutual cooperation Part of		
professional internship of a pilot nature.		
G00C4104 Practice	Z	6
The classification of the subject of professional practice is based on the decision of the MÚVS VUT during their studies to give students the oppo		
experience. MÜVS supports the establishment of a relationship between students and companies and emphasizes their mutual cooperation Part of	the study plans is	short-term
professional internship of a pilot nature.	71/	0
G16C0301 Lean Management Practice The aim of the course is to apply knowledge from the field of lean management and lean manufacturing acquired during the study to solve real pro	ZK	3 nic practice
rne aim of the course is to apply knowledge from the field of lean management and lean manufacturing acquired during the study to solve real pro According to the client's assignment, student teams solve the problem with the support of teachers who become their mentors.	Jones Hom econom	nio practice.
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G16E0203	Project Innovation Management	Z,ZK	6
Successful innovation re	quires much more than the management of individual aspects of the innovation process within the institution; it also requires	a systemic project	ct approach that
	s between various stakeholders, their goals, objectives, markets, and organizations. Traditional innovation management usually	•	
	usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that can		
	et of rules and measures of the institution. However, most innovation projects require an individual approach so that project t Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a suppor		
	ls of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate m		
	or an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Innovation		
	mercialization of innovations, and related intellectual property protection. After completing the course, the student should an	_	
topics: how to identify ar	d manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, cre	ate a project bud	get, define and
	novation, manage project development, identify and manage innovation risks, and understand the sourcing process for the process.	-	
<u>'''</u>	how to implement and commercialise innovations. The course includes approaches, experience, and examples of the best ir		
· ·	Project Technology Management	Z,ZK	6
	agement means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Tec		
· ·	ied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is nece	=	
•	nmercial activities of technology management in a more comprehensive form. Technology project management is more goal- ructure and budget. After completing the course, students should answer the following framework topics: define the nature, in		
· · ·	gement with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology asses	-	-
· ·	t to the development of the product, production, and service technologies. Characterize the process of technological forecas	· ·	
ŭ	e company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protect		
property and the need to	commercialize their own technologies at the level of industry, region, or state.		
G16E0202	Project Technology Management	Z,ZK	6
	agement means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Tec	-	
· ·	ied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is nece	=	
	nmercial activities of technology management in a more comprehensive form. Technology project management is more goal-	*	
· · ·	ructure and budget. After completing the course, students should answer the following framework topics: define the nature, in gement with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology asses	-	-
· ·	t to the development of the product, production, and service technologies. Characterize the process of technological forecas	· ·	
•	e company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protect		
property and the need to	commercialize their own technologies at the level of industry, region, or state.		
G65C0103		Z,ZK	3
G65E2301	Regional Development and Planning	Z,ZK	6
he goal is to understand	the reason, mission and specifics of regional and municipal development in the context of European Union as well as Czech	Republic, and of	planning as a
•	dents should know the core European concepts of regional and municipal development. A particular attention will be paid to	•	ean planning
	tem, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students shoul	d nerceive develo	
· · ·		a perceive acvero	pment from the
	stakeholders and professions, and understand the need of cooperation, participation and democracy in practice.	·	
una goal is to understan	Regional Development and Planning	Z,ZK	6
_	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz	Z,ZK eech Republic, and	6 d of planning as
a tool of development. S	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz tudents should get familiar with the core European concepts of regional and municipal development; particular attention will be	Z,ZK eech Republic, and be paid to the Mid	6 d of planning as dle-European
a tool of development. S planning culture rooted i	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz	Z,ZK eech Republic, and be paid to the Mid	6 d of planning as dle-European
a tool of development. S planning culture rooted i	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz tudents should get familiar with the core European concepts of regional and municipal development; particular attention will be the mutual interactions between spatial, urban, strategic and environmental planning. Students should perceive development sions, and understand the need of cooperation, participation and democracy in practice.	Z,ZK eech Republic, and be paid to the Mid	6 d of planning as dle-European
a tool of development. S planning culture rooted i stakeholders and profes	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz tudents should get familiar with the core European concepts of regional and municipal development; particular attention will be the mutual interactions between spatial, urban, strategic and environmental planning. Students should perceive development sions, and understand the need of cooperation, participation and democracy in practice.	Z,ZK eech Republic, and be paid to the Mid from the perspec	6 d of planning as dle-European tives of different
a tool of development. S planning culture rooted i stakeholders and profes 32MC-P-RGIS-01 G16C0104	Regional Development and Planning d the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Cz tudents should get familiar with the core European concepts of regional and municipal development; particular attention will to the mutual interactions between spatial, urban, strategic and environmental planning. Students should perceive development sions, and understand the need of cooperation, participation and democracy in practice. Regional Studies	Z,ZK eech Republic, and be paid to the Mid from the perspective ZK	6 d of planning as dle-European tives of different 3 3
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Code of the group: FINM P 22/23 PVT

32MC-P-UZMN-01 Territorial Management Planning

Tech Challenge (Technical University of Munich, DEU)

Territorial Management Planning

TUMQTECH

G65C0201

Name of the group: Povinn volitelné technické p edm ty, Financial management, prezen ní forma, AR 22/23

ZK

ZK

ZK

6

3

3

Requirement credits in the group: In this group you have to gain at least 9 credits

Requirement courses in the group:

Credits in the group: 9

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
32MC-P-HVVT-01	Technology Assessment Karel Mrá ek Karel Mrá ek (Gar.)	ZK	3	2P+0C		PV
G77C0001	Technology Assessment Karel Mrá ek	ZK	3	2P+0C	Z,L	PV
G77C0007	Communication Systems and Networks Dušan Maga	ZK	3	2P+0C		PV
32MC-P-KSYS-01	Telecommunication Systems and Technologies Dušan Maga Dušan Maga Dušan Maga (Gar.)	ZK	3	2P+0C		PV
127LAHE	Landscape Heritage Ji í Kugl, Ji í Kupka, Pavel Holubec, Jan Hendrych Ji í Kupka Jan Hendrych (Gar.)	ZK	4	3C	Z,L	PV
32ME-P-MNAI-01	Management in the Automotive Industry Old ich Bronec Old ich Bronec (Gar.)	Z,ZK	6	2P+2C		PV
G16E0103	Management in the Automotive Industry Old ich Bronec	Z,ZK	6	2P+2C		PV
32MC-P-PJVS-01	Production Systems Design Old ich Bronec Old ich Bronec (Gar.)	Z,ZK	6	2P+2C		PV
G16C1302	Old ich Bronec	Z,ZK	6	2P+2C		PV
32MC-P-PRDO-01	Transportation Engineering Projects Helena Bínová Helena Bínová (Gar.)	ZK	3	2P+0C		PV
G77C0003	Transportation Engineering Projects Helena Bínová	ZK	3	2P+0C	Z,L	PV
32MC-P-IND4-01	Industry 4.0 Jan Mládek Jan Mládek (Gar.)	Z,ZK	3	1P+1C		PV
G77C2011	Industry 4.0 Jan Mládek	Z,ZK	3	1P+1C		PV
G51C0401		Z	3	2P+0C		PV
32MC-P-ROBO-01	Robotics Jaroslav Cibulka, Olga Št pánková Olga Št pánková Olga Št pánková (Gar.)	ZK	6	2P+2C		PV
G77C0008	Robotics Olga Št pánková	Z,ZK	6	2P+2C		PV
32MC-P-SMCI-01	Smart Cities Technologies Vladimíra Šilhánková, Martin Maštálka Vladimíra Šilhánková	ZK	3	2P+0C		PV
G77C0004	Smart Cities Technologies Martin Maštálka	ZK	3	2P+0C	Z,L	PV
127UKKO	Urban and Landscape Design Ji í Kupka, Zuzana Pešková, Ivan Vorel Ji í Kupka Zuzana Pešková (Gar.)	ZK	3	2P	L	PV
127USRM	Urban Structures and Urban Development Ji í Kugl, Ji í Kupka, Jan Mužík Jan Mužík Jan Mužík (Gar.)	ZK	5	4P	Z	PV
G77C0009	Information Security Management and Implementation Jaroslav Bur ík	ZK	3	2P+0C		PV
32MC-P-ZRIB-01	Information Security Management and Implementation Jaroslav Bur ik Jaroslav Bur ik (Gar.)	ZK	3	2P+0C		PV

Characteristics of the courses of this group of Study Plan: Code=FINM P 22/23 PVT Name=Povinn volitelné technické p edm ty, Financial management, prezen ní forma, AR 22/23

32MC-P-HVVT-01	Technology Assessment	ZK	3
G77C0001	Technology Assessment	ZK	3
G77C0007	Communication Systems and Networks	ZK	3

Telecommunications: What does it all mean? We look into history and the future. We'll try it wired and wireless, even at the speed of light (or almost...), on land, underwater, and in space. For example: • How is electric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. • Do you know a Twisted Pair? How a landline works. • How the telephone network becomes the Internet.... • Light and dark. Transmission of information by light. • Why are networks "mobile"? 1G, 2G, 3G, 4G, 5G, etc.... The more G, the better. How here and how elsewhere? • Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? Does navigation know about me? We will walk around akovice. • How television (including Internet) works. A football match and a drastic Clash of the Titans. • WiFi not working? What now... • Why the Internet is not for people but for things. • The biggest mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relationships (however, it does not always succeed...) - the keywords are principles and clarity.

32MC-P-KSYS-01 Telecommunication Systems and Technologies

Telecommunications: What does it all mean? We look into history and the future. We'll try it wired and wireless, even at the speed of light (or almost...), on land, underwater, and in space. For example: • How is electric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. • Do you know a Twisted Pair? How a landline works. • How the telephone network becomes the Internet.... • Light and dark. Transmission of information by light. • Why are networks "mobile"? 1G, 2G, 3G, 4G, 5G, etc.... The more G, the better. How here and how elsewhere? • Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? Does navigation know about me? We will walk around akovice. • How television (including Internet) works. A football match and a drastic Clash of the Titans. • WiFi not working? What now... • Why the Internet is not

for people but for things. • The biggest mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relationships (however, it does not always succeed...) - the keywords are principles and clarity.

127LAHE	Landscape Heritage	ZK	4
	ral, and ecological processes traditionally shape the human environment, our shared cultural landscape heritage. The course v	vill reveal intrinsic v	alues, functions,
	appropriate conservation techniques and strategies for urban landscape heritage protection.		
	Management in the Automotive Industry	Z,ZK	6
	arching course in management in the automotive industry, which creates a framework for further managerial and technical of	courses focused on	automotive
industry.			
G16E0103	Management in the Automotive Industry	Z,ZK	6
32MC-P-PJVS-01	Production Systems Design	Z,ZK	6
The purpose of the cour	se is to become familiar with: • Basic concepts of production and operational management • Significant sectors of industrial pr	roduction and opera	ation of comple
technological systems •	The nature, construction and design of industrial products and the function of complex technological systems • The role of h	uman and technolo	gical resource
	ion • The issue of material flows and logistics • By managing supply purchasing and supply chains • Supporting processes in pr	="	
	ent • Production or operation management: planning, organizing, securing resources, leading, controlling • Design, innovation a		
•	and processes • The issue of production, or operational economics and economic metrics, the KPI system • The issue of some		
	on, internetization, artificial intelligence, personalization, internationalization, localization • The issue of complex systems of respectively.	-	
-	m, Lean Management and others • Issues of quality management, environmental protection, environmental, material and ene	rgy sustainability, ci	rcular economy
	al safety, social responsibility in production • Issues of change production and operational management		
G16C1302		Z,ZK	6
32MC-P-PRDO-01	Transportation Engineering Projects	ZK	3
G77C0003	Transportation Engineering Projects	ZK	3
32MC-P-IND4-01	Industry 4.0	Z,ZK	3
	t "Industry 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It dea	1 ' 1	of industrial
-	ds as well as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0"	-	
whole. Last but not leas	t, it deals with the role of the state in the creation of economic and industrial policy, the need for which is generated by "Indu	stry 4.0".	-
G77C2011	Industry 4.0	Z.ZK	3
I. Annotation The subject	ct "Industry 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It dea	1 , 1	_
-	ds as well as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0"		
	t, it deals with the role of the state in the creation of economic and industrial policy, the need for which is generated by "Indu	•	,
G51C0401		Z	3
32MC-P-ROBO-01	Robotics	ZK	6
G77C0008	Robotics	Z,ZK	6
	Smart Cities Technologies	ZK	3
G77C0004	Smart Cities Technologies	ZK	3
The subject Technology	for Smart Cities introduces students to the interdisciplinary problematics of smart cities and places it in the context of the te	echnological, social	and economic
development of society.			
127UKKO	Urban and Landscape Design	ZK	3
The course introduces s	elected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape de	sign (city image, ci	ty environment
perception, landscape of	omposition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The ain	n of the course is a	comprehensiv
view of urban and lands	cape design as a creation of the environment. A theoretical basis and a sound analysis of existing towns and landscapes ar	re subsequently a p	rerequisite for
successful practical des	ign. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are compli	emented by examp	les from histor
and examples of various	s urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), a	spects of their plan	ning (regulator
commissions) and some	e specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited exter	nal speakers.	
127USRM	Urban Structures and Urban Development	ZK	5
The course deals with t	ne characteristic features of the city structure of the Czech Republic, individual types of human settlements, their importance	e in the structure a	nd their urban
structure and form. Stud	lents will learn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial str	ucture, functional c	omposition and
	s. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid		= -
•	wth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public a		
-	e protection of historical, cultural and urban values.		•
G77C0009	Information Security Management and Implementation	ZK	3
0.70000	mornation cooding management and implementation	<u>-1\</u>	

List of courses of this pass:

32MC-P-ZRIB-01 Information Security Management and Implementation

ZK

Code	Name of the course	Completion	Credits
127CP11	City Planning 11	ZK	2
Concepts in urba	n cultural context,	land-use,	
	planning controle, preservation of cities, urban ecology, trends and policies in urban planning and regional development.		
127LAHE	Landscape Heritage	ZK	4
Cultural, historical,	natural, and ecological processes traditionally shape the human environment, our shared cultural landscape heritage. The course will re	veal intrinsic value	s, functions
	and character, and the appropriate conservation techniques and strategies for urban landscape heritage protection.		
127UKKO	Urban and Landscape Design	ZK	3
The course introdu	ces selected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape design	(city image, city e	nvironment,
	ape composition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The aim of the province and landscapes are supplying analysis of existing towns and landscapes are supplying the province and landscapes are supplying the provinc		•

The course introduces selected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape design (city image, city environment, perception, landscape composition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The aim of the course is a comprehensive view of urban and landscape design as a creation of the environment. A theoretical basis and a sound analysis of existing towns and landscapes are subsequently a prerequisite for successful practical design. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are complemented by examples from history and examples of various urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), aspects of their planning (regulatory commissions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited external speakers.

127USRM	Urban Structures and Urban Development	ZK	5
· ·	orban Structures and orban bevelopment steristic features of the city structure of the Czech Republic, individual types of human settlements, their importance	1 1	
	earn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial struc		
perational relationships. Analyze	their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid to	the forms of urban de	evelopmen
e. both their overall growth and th	ne regeneration or transformation of their existing parts. It also deals with the structure and composition of public are	eas of cities and lands	capes, the
407)///D0	transformations, and the protection of historical, cultural and urban values.		
127XKRS	Landscape and Settlements	Z	2
	cted chapters on landscape architecture and urbanism, focusing on two thematic blocks - garden art and settlements ional courses at Bachelor and Master level in Environmental Engineering and Architecture and Civil Engineering wi		-
ine series of compulsory and opti	and complementary topics that were not covered in the compulsory and optional courses.	iii vailous aspecis, pe	sispectives
32MC-P-DIPR-01	Diploma Thesis	Z	12
32MC-P-ENAR-01	Environmental Aspects of Regional Development	ZK	3
32MC-P-HVVT-01	Technology Assessment	ZK	3
2MC-P-IND4-01	Industry 4.0	Z,ZK	3
	try 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It de		
	l as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0" of		
whole. Last but not le	ast, it deals with the role of the state in the creation of economic and industrial policy, the need for which is generate	ed by "Industry 4.0".	
2MCP-KSYS-01	Telecommunication Systems and Technologies	ZK	3
	it all mean? We look into history and the future. We'll try it wired and wireless, even at the speed of light (or almost		
	ectric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. • Do you know a		
•	rk becomes the Internet • Light and dark. Transmission of information by light. • Why are networks "mobile"? 1G, is also where 2 a Satellite systems (L. Konlar, J. A. C. Clarke, J. F. Myels). What do Satura and Farth house is common 2. D		
	elsewhere? • Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? D low television (including Internet) works. A football match and a drastic Clash of the Titans. • WiFi not working? Wha	-	
	gest mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relations	· · · · · · · · · · · · · · · · · · ·	
Fookio parioi amido The pidi	succeed) - the keywords are principles and clarity.		aiway
2MC-P-MACT-01	Macroeconomic Theory	ZK	3
32MC-P-OTIK-01	Reflections of Technical Innovations in Culture	ZK	3
	nts of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide rang		-
innovation processes, for	the understanding and internalization of which a deep understanding of the connections between science and cult	ure is an absolutely k	ey.
2MC-P-PJVS-01	Production Systems Design	Z,ZK	6
he purpose of the course is to be	come familiar with: • Basic concepts of production and operational management • Significant sectors of industrial pro	duction and operation	of comple
echnological systems • The nature	e, construction and design of industrial products and the function of complex technological systems • The role of hui	man and technologica	al resource
	ssue of material flows and logistics • By managing supply purchasing and supply chains • Supporting processes in proc	duction or operation in	naintenanc
		· ·	
of machines and equipment • Produ	uction or operation management: planning, organizing, securing resources, leading, controlling • Design, innovation and	d re-engineering of ma	anufacturin
of machines and equipment • Produ or operational systems and proces	uction or operation management: planning, organizing, securing resources, leading, controlling • Design, innovation and ses • The issue of production, or operational economics and economic metrics, the KPI system • The issue of some cu	d re-engineering of ma urrent trends, such as	anufacturin automatior
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32ME-P-ADFM-01 Advanced Topics in Financial Management Z,ZK 3 During the course will be studied the strategies for recognizing the financial performance of firms. The market information drawn from the transactions performed at the financial markets will be combined with the internal corporative sources. Several approaches and indicators will be applied to assess the evolution of companies. The course aims at overhaul the path research of the portfolio theory and recognize the main financial models intended to manage the assets. The exercises and theoretical perspective deal with a diversity of strategies developed for assigning a portfolio of investment, combining assets of different degree of risk, underpining the position with the diversification principle. The overview starts with the pioneering Markowitz contribution; the course analyzes also the Merton Miller model of irrelevance of the equity-debt composition for the corporative structure of capital. The analysis includes also the Sharpe CAPM model. But previously, the student must be aware of all statistical concepts dealing with uncertainty, probability distributions, confidence intervals and probability of default. With the conducing background the course enters in the definition of VaR applications, in order to quantify the amounts of loses based on the probability distribution, based on the Gaussian statistical theory. The estimation of measures of risk conveyed by each individual asset is run by econometric methods. 32ME-P-AGBC-01 Agile BootCamp Agile Bootcamp course teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods that work well together within the same cross-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process. 32ME-P-BPMN-01 **Business Process Management** 6 32ME-P-CHIN-01 China's Innovations and Global Influence The course provides an exploration of China's ability to combine dictatorship with technology innovations, and it's growing global role including an impact on Europe. We will start with an introduction to China's political and economic system. That would give us the important basis for understanding China's technological innovations and rising global influence. We will discuss the role of technology in everyday life in China, how it impacts economy, but also how the government abuses technology to control people. In further detail, we will cover China's global role and how dependence on China might impact Europe. Last but not least, we will hypothesize on China's future development and its obstacles. 32ME-P-CLCH-01 Climate Change Causalities Z,ZK 6 The course gives the students an overview of the links and relationships between adaptation, resiliency, and mitigation. In the field of state administration and self-government, industry and development, and the environment and processes associated with the preparation of investments, the students will be able to identify and evaluate appropriate basic measures and estimate the main adaptation processes and their difficulty for a given settlement or area. Students will get clear information about the processes and activities associated with the planning and implementation of adaptations and mitigations on a living basis, but also at the regional, national, and European level. The course focuses, among other things, on students' practical knowledge of the effects of climate change, so managers from practice will be invited to lessons or seminars. 32ME-P-FFNM:01 **Economic and Financial Management** K7 3 The course is organized in 2 seminars weekly, 3 credits. Analyzing and solving models of optimal allocation of assets, management of risk, and Portfolio allocation 32ME-P-FNIC-01 English for Intercultural Communication 7 7K 6 The seminar will focus on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences influencing communication, and examine the role of language means in intercultural negotiations. Outline of the subject: . Approaches to culture . Cultural and language context in communication . Intercultural theories and their influence on behaviour and language expression . International English as lingua franca . The most common mistakes as a cause of misunderstanding . Language practice and activities . Case studies on individual topics Language level: CEFR B2 32ME-P-EUPO-01 European Union and Regional Policy ZK 3 The course discusses developments in the EU and in the EU Regional Policy from the end of the Cold War until today. It focuses on relevant issues of the integration process. It is based on lectures, class discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of the course are to explain a modern development of the EU, analyse key points in particular areas of integration and practise argumentation skills. 32ME-P-MAPM01 Modern Approaches in Project Management Z,ZK 3 32ME-P-MEPO01 Monetary Economics and Policy Z,ZK This course provides basic concepts from monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of three major parts. The first part starts with the definition of money, its functions, and its measures in the form of monetary aggregates' statistics compiled by central banks. It leads then to the inner workings of financial markets, particularly the interest rate dynamics of bonds and stocks. The second part focuses on the practical conduct of monetary policy: how money supply is created, what tools of monetary policy are used to affect the market interest rate, and how central banks can intervene in the foreign exchange market to regulate the exchange rate. The third part sheds light on the theoretical frameworks of money, aggregate demand-supply analysis based on the monetary policy curve, and channels through which the changes in policy interest rate transmit to the aggregate output and inflation in the economy. The special case of nonconventional monetary policy adopted during the global financial crisis 2007-2009 when countries reached their zero lower bound of interest rates is demonstrated too. The leading textbook is Mishkin (2022) listed with other optional readings below. There are lectures and exercise sessions, where different problem sets based on lecture materials are solved together in class. A guest speaker from the Czech National Bank will be invited for one lecture. 32ME-P-MINE-01 Management in International Environment Z,ZK 3 32ME-P-MNAI-01 Management in the Automotive Industry Z,ZK 6 This is a basic and overarching course in management in the automotive industry, which creates a framework for further managerial and technical courses focused on automotive industry. 32ME-P-MNEN-01 Meetings and Negotiations in English English for Meetings and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for students at the upper intermediate level. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations. Although the course is not primarily focused on confrontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing and coping with confrontational situations. The course is based on the modern, increasingly widespread model of "International English", ie international English understood as lingua franca. Listening materials work with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English. 32ME-P-PIMN-01 **Innovation Project Management** Successful innovation requires much more than the management of individual aspects of the innovation process within the institution; it also requires a systemic project approach that deals with the interactions between various stakeholders, their goals, objectives, markets, and organizations. Traditional innovation management usually focuses on goals and procedures for innovation planning, usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that can limit project team members to working only within the set of rules and measures of the institution. However, most innovation projects require an individual approach so that project team members are highly flexible, innovative, and creative. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a supportive corporate culture, a focus on the socio-ecological goals of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate motivation for innovation are often the basic prerequisites for an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Innovation management, the implementation and commercialization of innovations, and related intellectual property protection. After completing the course, the student should answer the following framework topics: how to identify and manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, create a project budget, define and allocate resources for innovation, manage project development, identify and manage innovation risks, and understand the sourcing process for the project. How to adequately protect intellectual property and how to implement and commercialise innovations. The course includes approaches, experience, and examples of the best innovative companies. 32ME-P-PTMN-01 **Project Technology Management** Technology project management means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Technological innovations, especially

in production, have long tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is necessary to examine the preparatory, implementation, and commercial activities of technology management in a more comprehensive form. Technology project management is more goal-oriented, time-bound, and has a

project organizational structure and budget. After completing the course, students should answer the following framework topics: define the nature, importance, and key functions of project technology management with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology assessment. Explain the relationships of business management to the development of the product, production, and service technologies. Characterize the process of technological forecasts, foresight, and creation of the technology strategy of the company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protection of technological intellectual property and the need to commercialize their own technologies at the level of industry, region, or state. 32ME-P-RDPL-01 Regional Development and Planning The goal is to understand the reasons, missions and specifics of regional and municipal development in the context of European Union as well as Czech Republic, and of planning as a tool of development. Students should get familiar with the core European concepts of regional and municipal development; particular attention will be paid to the Middle-European planning culture rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should perceive development from the perspectives of different stakeholders and professions, and understand the need of cooperation, participation and democracy in practice. 32ME-P-SCOM01 Social Competences in Project and Process Management 7 3 The course is focused on the development of skills in managing projects, processes, and people in the organization. 32ME-P-SENIM-01 Strategies of Entering New Markets Z.ZK 3 The choice to internationalize; the various entry modes; impact of international activity on the business plan; the export plan; the marketing plan; the implementation; relations with partners; follow up and the results. 32ME-P-SMCR-01 Z,ZK **Smart Cities and Regions** 6 Smart Cities and Smart Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and indicators. G00C3101 Diploma Thesis Project 0 G00C4102 Diploma Thesis 12 G00C4104 Practice 6 The classification of the subject of professional practice is based on the decision of the MÚVS VUT during their studies to give students the opportunity to acquire quality skills and experience. MÚVS supports the establishment of a relationship between students and companies and emphasizes their mutual cooperation Part of the study plans is short-term professional internship of a pilot nature. G04E0201 English for Intercultural Communication Z.ZK 6 The seminar will focus on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences influencing communication, and examine the role of language means in intercultural negotiations. Outline of the subject: . Approaches to culture . Cultural and language context in communication . Intercultural theories and their influence on behaviour and language expression . International English as lingua franca . The most common mistakes as a cause of misunderstanding . Language practice and activities . Case studies on individual topics Language level: CEFR B2 G04E0202 Meetings and Negotiations in English English for Meetings and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for students at the upper intermediate level. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations. Although the course is not primarily focused on confrontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing and coping with confrontational situations. The course is based on the modern, increasingly widespread model of "International English", ie international English understood as lingua franca. Listening materials work with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English. G16C0101 Z.ZK **Balanced Scorecard** 6 Solving Real World Problems ZK G16C0104 3 The aim of the course is to apply knowledge from the field of economics and management acquired during the study to solve real problems from economic practice. According to the client's assignment, students solve the problem with the support of teachers who become their mentors. G16C0201 Z.ZK Service Design 3 G16C0301 3 Lean Management Practice The aim of the course is to apply knowledge from the field of lean management and lean manufacturing acquired during the study to solve real problems from economic practice. According to the client's assignment, student teams solve the problem with the support of teachers who become their mentors. G16C1201 **Project Management** Z.ZK 6 G16C1302 Z.ZK 6 G16C1401 Innovation Marketing Z.ZK 6 HR Management Systems G16C2501 Z.ZK 6 The course is focused on the development of managerial skills in managing people in the organization. Through lectures and seminars, students will learn effective strategies, policies and practices for efficient people management in the organization and the main tasks of managers in various activities of people management in the organization. G16C3101 Z,ZK 6 G16C3102 Innovation Management and Innovation Project Concepts of innovation, prerequisites and barriers to innovation, sources of innovation, strategic considerations of innovation, process innovation, product innovation, service innovation, a macroeconomic view of the role of innovation, organizational support and management of innovation, soft methods and techniques of innovation, systematic-analytical methods and techniques of innovation, economic aspects of innovation, intellectual property of innovation and legal aspects. G16C3103 Z,ZK 6 G16E0102 Managing in an International Environment Z.ZK 3 The preparatory phase. Implementation: knowledge transfer and possible adaptations. Strategic partnership and consequences on the cooperation. Relations with other foreign stakeholders. The DFI and its constraints. Parent company versus locals. Managing multi-cultural teams. Remote management. Expatriation. Managerial skills and competences. Knowing oneself and developing ones competences. G16E0103 Z.ZK Management in the Automotive Industry 6 Agile BootCamp Agile Bootcamp course teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods that work well together within the same cross-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process. Teaching mode: completely online or hybrid, at a specific time/week during the semester. **Project Technology Management** Technology project management means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Technological innovations, especially in production, have long tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is necessary to examine the preparatory, implementation, and commercial activities of technology management in a more comprehensive form. Technology project management is more goal-oriented, time-bound, and has a project organizational structure and budget. After completing the course, students should answer the following framework topics: define the nature, importance, and key functions of project technology management with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology assessment. Explain the relationships of business management to the development of the product, production, and service technologies. Characterize the process of technological forecasts, foresight, and creation of the

technology strategy of the company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protection of technological intellectual property and the need to commercialize their own technologies at the level of industry, region, or state. G16E0203 **Project Innovation Management** Z.ZK 6 Successful innovation requires much more than the management of individual aspects of the innovation process within the institution; it also requires a systemic project approach that deals with the interactions between various stakeholders, their goals, objectives, markets, and organizations. Traditional innovation management usually focuses on goals and procedures for innovation planning, usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that can limit project team members to working only within the set of rules and measures of the institution. However, most innovation projects require an individual approach so that project team members are highly flexible, innovative, and creative. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a supportive corporate culture, a focus on the socio-ecological goals of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate motivation for innovation are often the basic prerequisites for an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Innovation management, the implementation and commercialization of innovations, and related intellectual property protection. After completing the course, the student should answer the following framework topics: how to identify and manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, create a project budget, define and allocate resources for innovation, manage project development, identify and manage innovation risks, and understand the sourcing process for the project. How to adequately protect intellectual property and how to implement and commercialise innovations. The course includes approaches, experience, and examples of the best innovative companies. Strategies of Entering New Markets 3 The choice to internationalize; the various entry modes; impact of international activity on the business plan; the export plan; the marketing plan; the implementation; relations with partners; follow up and the results. G16E0501 Social Competences in Project and Process Management Ζ 3 G16E1401 Marketing Innovations Z.ZK 6 The primary role of innovation in marketing is to gain new customers, improve goodwill, increase sales and profitability of the company. At the beginning of the innovation process, innovative marketing should help identify new market opportunities and risks and improve the research of customer needs. During developing a new product, innovation marketing is to ensure the constant involvement of customers and users in this process. And at the end of the innovation process, innovation marketing ensures the successful introduction of a new product, technology, and service to the target audience. Innovation marketing should therefore be present at all stages of the innovation process to ensure that customer and market orientation is in line with advances in products and technologies, which often lead to the application of new marketing approaches. We address these main aspects in this subject. G16E2201 Modern Approaches in Project Management Z,ZK 6 G16E2302 **Business Process Management** Z,ZK 6 G51C0401 3 Ζ G63C1102 Statistical Analysis Z,ZK 6 The course builds on the introductory courses of statistics and prefaces slightly advanced statistical analysis methods. G63C1301 Corporate Financial Management Z,ZK 6 The course provides a comprehensive view of building the essential aspects of financial management of business processes and projects. Students have the opportunity to understand the main concepts, tools and methods of financial management of processes and projects and their use in decision-making practice. Substantial emphasis is placed on evaluating the financial performance of the company, evaluation and valuation of tangible and financial investment projects, working capital management, methods of financing the company, project financing, methods of financial planning and forecasting, and valuation techniques. G63C2201 Microeconomic Theory ZK The course introduces the analysis of the theory of consumer, the theory of firm, and the market interactions of consumers and firms. G63C2301 Controlling Z.ZK Controlling methods are presented from the initial detection of deviations to advanced models of managerial decision support in strategic horizons in the context and against the background of the management of basic business processes with an emphasis on the processes determining the effect of added value in the company's activities. The tasks of controlling are systematically explained according to the time perspective in the scope of corporate strategies and operational management, including the role of the controller in the individual phases of management from analysis to reporting. The content of the course is also focused on the presentation of methods and management tools that can be used to manage individual components (entities) in mutual interaction, especially in the area of cost management. Examples of models and case studies and tasks are used to present the key principles of controlling in the company. ZK G63C2302 Financial Law 3 G63C3201 ZK 3 G63C4401 Information System Design Fundamental terms, information systems architecture, basic types of software applications for information system of enterprise, information system lifecycle, approaches to information system development, management information systems, web audit, business process modeling using BPMN, UML and others, information system modeling - UML and data modeling using ER diagrams G63E0201 **Economics of Climate Change** Z,ZK 6 G63E0202 Green Transition Z,ZK 6 Green transition is sometimes imagined as a technical question involving mostly energy production and industrial processes. Nonetheless, wider societal, economic and political contexts are indispensable to successful transformation. The course introduces different transition approaches focusing on such wider frameworks and stressing the interconnections between politics, markets, industry, and social changes. Theoretical concepts of transformation will then be linked to current reality in specific regions (with emphasis on but not limited to the EU). G63E1302 International Financial Management This course provides concepts related to financial management of any multinational company functioning in several countries and thus dealing with exchange rate and interest rate risks. The hedging strategies against those risks are covered via money market and financial derivatives such as forwards, futures, options, and swaps. Profitable situations in the foreign exchange market are also described using locational arbitrage, triangle arbitrage, and covered interest arbitrage. Operational aspects of managing financially a multinational company are presented as well. The main textbook is Eun, Resnick, and Chuluun (2021), yet Madura and Fox (2020) can be also read for this course. There will be lectures and exercise sessions, where different problem sets based on lecture materials are solved together in class. G63F2301 Financial Markets and Risk Management The analysis of the management of financial risk recently tends towards strategies for hedging the portfolio, and for designing an investment strategy based on diversification. The course spans broad sections implementing the principles of variable income and fixed income. The Financial Models evolved rapidly from the inception of the Modern Theory of Portfolio. The original Mean - Variance analysis, the CAPM, The Black-Litterman model, the disruptive framework implicit in the Black Scholes model for pricing options and the Bob Merton's contribution, all of them represent theoretical breakthroughs in the field of finance. When tackling this study, solid statistical basis and advanced skills in Excel are required. The analysis of risk relies on Many of the models based on important benchmarks rooted in Merton's options theoretic approach and explains default in structural terms related to the market value of the firm's assets as compared to its debt obligations. Other model statistically decomposes observed risky debt prices into default risk premiums. The set of models pretends to measure the credit risk of a loan or a portfolio of loans. In this vein, the curse pursuits to simplify the technical details and analytics surrounding these models, while concentrating on their underlying economics and economic intuition. They learn to use market instruments and market analyses to design efficient investment and hedging strategies and methods for the company capital management hurled to financial markets.

G63E3301	Economic and Financial Modelling	KZ	3
The cour	'se is organized in 2 seminars weekly, 3 credits. Analyzing and solving models of optimal allocation of assets, management of risk, ar	d Portfolio allocation	on
G63E4201	Monetary Economics and Policy	Z,ZK	6
This course cover	s basic concepts from monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of two m	ajor parts. The first	one starts
with the definition	of money, its functions, and monetary aggregates and leads to the inner workings of financial markets, particularly interest rate dynam	ics. The second on	e combines
the practical condu	ict of monetary policy by central banks with the theoretical frameworks of what explains inflation in the long run and how monetary po	olicy can stabilize th	ne economy
and inflation. The	e leading textbook is Mishkin (2022) listed with other optional readings below. There will be lectures and exercise sessions, where diff	erent problem sets	based on
	lecture materials are solved together in class.		
G65C0103		Z,ZK	3
G65C0201	Territorial Management Planning	ZK	3
G65C0202	Environmental Aspects of Regional Development	ZK	3
G65E1301	Smart Cities and Regions	Z,ZK	6
Smar	t Cities and Smart Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning	ng and indicators.	
G65E2301	Regional Development and Planning	Z,ZK	6
	rstand the reason, mission and specifics of regional and municipal development in the context of European Union as well as Czech F	₹epublic, and of pla	nning as a
tool of developme	ent. Students should know the core European concepts of regional and municipal development. A particular attention will be paid to the	ne Middle-Europear	n planning
culture and planni	ng system, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should r	erceive developme	ent from the
	perspectives of different stakeholders and professions, and understand the need of cooperation, participation and democracy in p	oractice.	
G65E4101	European Union and Regional Policy	ZK	3
The course disc	usses developments in the EU and in the EU Regional Policy from the end of the Cold War until today. It focuses on relevant issues of	the integration pro	cess. It is
based on lectures,	class discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of the	course are to expla	in a moderr
	development of the EU, analyse key points in particular areas of integration and practise argumentation skills.		
G66C0101	Reflections of Technical Innovations in Culture	ZK	3
•	ended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide range	•	
innovatio	n processes, for the understanding and internalization of which a deep understanding of the connections between science and culture	is an absolutely k	ey.
G77C0001	Technology Assessment	ZK	3
G77C0003	Transportation Engineering Projects	ZK	3
G77C0004	Smart Cities Technologies	ZK	3
The subject Techn	ology for Smart Cities introduces students to the interdisciplinary problematics of smart cities and places it in the context of the techr	iological, social and	d economic
	development of society.		
G77C0007	Communication Systems and Networks	ZK	3
Telecommunicati	ons: What does it all mean? We look into history and the future. We'll try it wired and wireless, even at the speed of light (or almost)	, on land, underwa	ter, and in
space. For exan	nple: • How is electric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. • Do you know a T	wisted Pair? How a	a landline
works. • How the te	elephone network becomes the Internet • Light and dark. Transmission of information by light. • Why are networks "mobile"? 1G, 2G	, 3G, 4G, 5G, etc	The more
G, the better. Hov	v here and how elsewhere? • Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? Doe	s navigation know	about me?
We will walk arour	ad akovice. • How television (including Internet) works. A football match and a drastic Clash of the Titans. • WiFi not working? What r	now • Why the Int	ternet is no
for people but for t	hings. • The biggest mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relationship	s (however, it does	not always
	succeed) - the keywords are principles and clarity.		
G77C0008	Robotics	Z,ZK	6
G77C0009	Information Security Management and Implementation	ZK	3
G77C2011	Industry 4.0	Z,ZK	3
	subject "Industry 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It deals	1 ' 1	industrial
revolutions, currer	nt trends as well as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0" on	the economy and s	ociety as a
whole	. Last but not least, it deals with the role of the state in the creation of economic and industrial policy, the need for which is generated	by "Industry 4.0".	
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Tech Challenge (Technical University of Munich, DEU)

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-20, time 02:22.

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