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	Z,ZK	6	2P+2C	Z	Z
G16C1401	Innovation Marketing Tomáš Sadílek	Z,ZK	6	2P+2C		Z
G16C1201	Project Management	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	∠,∠K	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 she	ould help identify new market opportunities and risks and improve the research of customer needs. During developing a new	product, innovati	on marketing is					
to ensure the constant in	nvolvement of customers and users in this process. And at the end of the innovation process, innovation marketing ensures	he successful into	roduction of a					
new product, technology	, and service to the target audience. Innovation marketing should therefore be present at all stages of the innovation proces	s to ensure that c	ustomer and					
market orientation is in I	ine with advances in products and technologies, which often lead to the application of new marketing approaches. We addre	ss these main as	pects in this					
subject.								

•			
G16C1401	Innovation Marketing	Z,ZK	6
G16C1201	Project Management	Z,ZK	6
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.

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	Z,ZK	6	2P+2C	L	Z
G63C2302	Financial Law	ZK	3	2P+0C		Z
G63C2201	Microeconomic Theory	ZK	3	2P+0C	*	Z
G00C3101	Diploma Thesis Project	Z	0	1P+0C		Z
G16C2501	HR Management Systems	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 a	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 ma	nagement 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 exp	plained 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 manageme	nt 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	s (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 co	ompany.						
G63C2302	Financial Law	ZK	3				
G63C2201	Microeconomic Theory	ZK	3				
The course introduces	s the 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	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						

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

and practices for efficient people management in the organization and the main tasks of managers in various activities of people management in the organization.

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	ZK	3	2P+0C		Z
G63C3201		ZK	3	2P+0C	Z	Z
32MC-P-ROAN-01	Decision Analysis Ji í Zmatlík	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	Z,ZK	6	2P+2C		Z
G16C3101		Z,ZK	6	2P+2C	Z	Z
32MC-P-STRR-01	Strategic Management Tomáš Sadílek, Vladimíra Šilhánková, Št pán Chalupa Vladimíra Šilhánková Tomáš Sadílek (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-0	1 Macroeconomic Theory	ZK	3			
G63C3201		ZK	3			
32MC-P-ROAN-0	Z,ZK	6				
The aim of the subject	t Decision Analysis is to acquaint students with the basic methods of decision-making in technical and economic, to use approp	priate tools within	decision-making			
processes.						
G16C3103		Z,ZK	6			
G16C3102	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,						

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.

32MC-P-STRR-01 Strategic Management

Z,ZK Z.ZK

K 6 K 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	Z	12			Z
32MC-P-DIPR-01	Diploma Thesis	Z	12			Z
G63C4401	Information System Design	Z,ZK	6	2P+2C		Z
32MC-P-PRIS-01	Information System Design	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

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

Name of the block: Povinné p edm ty zam ení

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:

vote 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-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 Ji í Zmatlík	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 Aliya Algozhina (Gar.)	Z,ZK	6	2P+2C		PZ
G63E4201	Monetary Economics and Policy Aliya Algozhina	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	KZ	3				
The course is organized	folio allocation					
G63E3301	Economic and Financial Modelling	KZ	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						
G63E2301	Financial Markets and Risk Management	Z,ZK	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 Mertons options theoretic approach and explains default in structural terms related to the market value of the firms 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

Z,ZK

6

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.

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

Z.ZK

6

This course provides the main concepts of monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of three major parts. The first part starts with a definition of money, its functions, and its measures in a 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 a practical conduct of monetary policy. How money supply is created, what monetary policy tools 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 a monetary policy curve, and channels through which the changes in policy interest rate transmit to the aggregate output and inflation. Nonconventional monetary policy during the global financial crisis of 2007-2009 when countries reached their zero-lower bound of interest rates is demonstrated too. For the case of Czech monetary policy, a guest speaker from the Czech National Bank will be invited to give his/her presentation and answer any specific questions, which may interest students in practice.

G63E4201 | Monetary Economics and Policy

Z,ZK

6

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:

9						
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 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	Z,ZK	6	2P+2C		PV
32ME-P-BPMN-01	Business Process Management	Z,ZK	6	2P+2C		PV
32ME-P-CHIN-01	China's Innovations and Global Influence	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 Ií ek Michael Pond Ií 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	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 Eva Císlerová Eva Císlerová (Gar.)	Z,ZK	6	0P+4C		PV
32MC-P-ENAR-01	Environmental Aspects of Regional Development Michael Pond li ek	ZK	3	2P+0C		PV
G65C0202	Environmental Aspects of Regional Development Michael Pond li ek	ZK	3	2P+0C		PV
32ME-P-EUPO-01	European Union and Regional Policy	ZK	3	2P+0C		PV
G65E4101	European Union and Regional Policy	ZK	3	2P+0C		PV
G63E0202	Green Transition	Z,ZK	6	2P+2C		PV
32ME-P-PIMN-01	Innovation Project Management	Z,ZK	6	2P+2C		PV
127XKRS	Landscape and Settlements Ji í Kupka	Z	2	2P	L	PV
32ME-P-MINE-01	Management in International Environment 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 Gene Maurice Prior Eva Císlerová Eva Císlerová (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 Kate ina Tomešková	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	Z	6	180XH		PV
G00C4104	Practice	Z	6	180XH		PV
G16C0301	Lean Management Practice Tomáš Sadilek	ZK	3	0P+2C		PV
G16E0203	Project Innovation Management	Z,ZK	6	2P+2C		PV
32ME-P-PTMN-01	Project Technology Management	Z,ZK	6	2P+2C		PV
G16E0202	Project Technology Management	Z,ZK	6	2P+2C		PV
G65C0103	, ,	Z,ZK	3	1P+1C		PV
G65E2301	Regional Development and Planning	Z,ZK	6	2P+2C	Z,L	PV
32ME-P-RDPL-01	Regional Development and Planning	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	Z,ZK	3	0P+2C		PV
32MC-P-SDES-01	Service design	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	Z	3	0P+2C		PV
G16E0501	Social Competences in Project and Process Management	Z	3	0P+2C		PV
32MC-P-SVRG-01	Social Relations in the Regions Petr Studni ka, Lucie Plzáková Petr Studni ka Lucie Plzáková (Gar.)	Z,ZK	3	1P+1C		PV
32MC-P-SPOL-01	Public and Private Sector Collaboration Radim Bureš, Libor Cupal 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

65C0201	Territorial Management Planning Vladimíra Šilhánková	ZK	3	2P+0C		PV
2MC-P-UZMN-0	Territorial Management Planning	ZK	3	2P+0C		PV
	Vladimíra Šilhánková Vladimíra Šilhánková Vladimíra Šilhánková (Gar.)					
	the courses of this group of Study Plan: Code=FINM P 22/23 PVF	P Name=Povi	nn volit	elné p edm	ty, Fir	nancial
	Advanced Topics in Financial Management			Z,Zł	〈	3
	course equips students with the main valuation models that are crucial tools for financial a	analysts. Key topic	s include rea	ading and using	financia	l statements
	ultiple techniques, and presenting financial market research. The course evolves from con					
	on models through problem sets and then apply these models in real-world scenarios using	ng business case :	studies. Thro	oughout the sem	ester, w	e will discuss
<u> </u>	inancial and economic news.					
	Agile BootCamp			KZ	I .	3
	teaches students the fundamentals of Design Thinking and other agile innovation principle					
	nal team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will of	fer the right tools	and techniqu	ues for the desig	n and in	nplementatio
	ding a practical test of the entire process.			1.77		
316E0201	Agile BootCamp			KZ	Į.	
	teaches students the fundamentals of Design Thinking and other agile innovation principle					-
	nal team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will of ding a practical test of the entire process. Teaching mode: completely online or hybrid, at a	_		_	n and in	npiementatio
		specific time/wee	K during the		/	6
316C0101	Balanced Scorecard			Z,Zł		6
316E2302	Business Process Management			Z,Zł		6
2ME-P-BPMN-0°	Business Process Management			Z,Zł		6
	China's Innovations and Global Influence			ZK		3
-	n exploration of China's ability to combine dictatorship with technology innovations, and its		_			
	a's political and economic system. That would give us the important basis for understanding	J	Ü	0	•	
	echnology in everyday life in China, how it impacts economy, but also how the governmen					, we will cov
	how dependence on China might impact Europe. Last but not least, we will hypothesize or	1 Chinas future de	velopment a			
27CP11	City Planning 11			ZK		2
						1
	the design in history, form of the city, typology of urban space, philosophies behind, practice	•	design in E	uropean cultural	context,	land-use,
anning controle, pres	ervation of cities, urban ecology, trends and policies in urban planning and regional develo	•	design in E			
anning controle, pres 2ME-P-CLCH-0	ervation of cities, urban ecology, trends and policies in urban planning and regional develor Climate Change Causalities	pment.		Z,Zł	<	6
anning controle, pres 2ME-P-CLCH-0 he course gives the s	ervation of cities, urban ecology, trends and policies in urban planning and regional develor Climate Change Causalities udents an overview of the links and relationships between adaptation, resiliency, and mitigate	pment.	f state admir	Z,Zł	K If-govern	6 nment, indus
anning controle, pres 2ME-P-CLCH-0 ne course gives the s nd development, and	ervation of cities, urban ecology, trends and policies in urban planning and regional develor Climate Change Causalities udents an overview of the links and relationships between adaptation, resiliency, and mitigathe environment and processes associated with the preparation of investments, the students	pment. ation. In the field of	f state admir	Z,Zł nistration and sel evaluate appropr	K If-govern	6 nment, indus sic measures
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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).

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 usuall for innovation planning, usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that cannot be a supplementation and control within the institution.		-
working only within the set of rules and measures of the institution. However, most innovation projects require an individual approach so that project		
innovative, and creative. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a support		
the socio-ecological goals of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate	motivation for inno	vation 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, In	-	
implementation and commercialization of innovations, and related intellectual property protection. After completing the course, the student should all	-	=
topics: how to identify and manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, or 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	7	2
The optional course presents selected chapters on landscape architecture and urbanism, focusing on two thematic blocks - garden art and settlement	s (urban and rural)	
the series of compulsory and optional courses at Bachelor and Master level in Environmental Engineering and Architecture and Civil Engineering w	ith various aspects	s, perspectives
and complementary topics that were not covered in the compulsory and optional courses.		
32ME-P-MINE-01 Management in International Environment	Z,ZK	3
Go through several situations facing a new manager		
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.		•
stakeholders. The DFI and its constraints. Parent company versus locals. Managing multi-cultural teams. Remote management. Expatriation. Manag Knowing oneself and developing ones competences.	enai skiiis and cor	npetences.
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		_
level. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations. A		
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 lingu	ua franca. Listenino	g materials work
with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English.		
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		
level. The course focuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations. A	•	
focused on confrontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing as situations. The course is based on the modern, increasingly widespread model of "International English", ie international English understood as lingu		
with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British English.	aa manoa. Eistemii	g materials work
G16E2201 Modern Approaches in Project Management	Z,ZK	6
32ME-P-MAPM-01 Modern Approaches in Project Management	Z,ZK	3
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G66C0101 Reflections of Jachnical Innovations in Culture	7K	3
G66C0101 Reflections of Technical Innovations in Culture The subject is intended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide ran	ZK ge of knowledge fr	om the field of
G66C0101 Reflections of Technical Innovations in Culture The subject is intended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide ran innovation processes, for the understanding and internalization of which a deep understanding of the connections between science and culture is an	ge of knowledge fr	-
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G16E0202	Project Technology Management	Z,ZK	6
Technology project mar	nagement means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Te	chnological innova	tions, especially
	g tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is nec	•	
•	ommercial activities of technology management in a more comprehensive form. Technology project management is more goa		
	structure and budget. After completing the course, students should answer the following framework topics: define the nature, i	-	=
	nagement with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology asse	•	
•	ent to the development of the product, production, and service technologies. Characterize the process of technological foreca		
0, 0,	the company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protect	ction of technologi	cal intellectual
<u> </u>	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
ne goal is to understan	d the reason, mission and specifics of regional and municipal development in the context of European Union as well as Czec	ch Republic, and of	planning as a
•	udents should know the core European concepts of regional and municipal development. A particular attention will be paid to		
	stem, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students shou	uld perceive develo	pment from the
<u>'</u>	nt stakeholders and professions, and understand the need of cooperation, participation and democracy in practice.	,	
	Regional Development and Planning	Z,ZK	6
-	and the reasons, missions and specifics of regional and municipal development in the context of European Union as well as C	-	
•	Students should get familiar with the core European concepts of regional and municipal development; particular attention will	•	•
•	in the mutual interactions between spatial, urban, strategic and environmental planning. Students should perceive development	nt from the perspec	tives of differen
stakeholders and profes	ssions, and understand the need of cooperation, participation and democracy in practice.		
	Regional Studies	ZK	3
32MC-P-RGIS-01	Regional Studies Solving Real World Problems	ZK ZK	3
32MC-P-RGIS-01 G16C0104		ZK	3
32MC-P-RGIS-01 G16C0104 The aim of the course i	Solving Real World Problems	ZK	3
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32MC-P-RGIS-01 G16C0104 The aim of the course i client's assignment, stu G16C0201 32MC-P-SDES-01 G65E1301 Gmart Cities and Smart 32ME-P-SMCR-01 Gmart Cities and Smart G16E0501 G2MC-P-SVRG-01 G2MC-P-SVRG-01 G2MC-P-SPOL-01 The course on Public-Poourse provides an over G3ME-P-SENM-01	Solving Real World Problems is to apply knowledge from the field of economics and management acquired during the study to solve real problems from economics and management acquired during the study to solve real problems from economics above the problem with the support of teachers who become their mentors. Service Design Service design Smart Cities and Regions t Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and interest Cities and Regions t Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and interest Cities and Regions to the development of skills in managing projects, processes, and people in the organization. Social Competences in Project and Process Management Social Relations in the Regions Public and Private Sector Collaboration Private Partnerships is designed for students who wish to develop their knowledge of public-private partnerships (PPPs) as particles of Entering New Markets	ZK conomic practice. A Z,ZK Z,ZK Z,ZK dicators. Z,ZK dicators. Z Z Z,ZK dicators. Z Z Z,ZK dicators. Z Z Z,ZK dicators. Z Z Z,ZK Z,ZK Z,ZK art of their professiheir benefits, and their professiheir benefits	3 3 3 6 6 3 3 onal focus. The heir pitfalls.
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32MC-P-RGIS-01 G16C0104 The aim of the course i client's assignment, stu G16C0201 32MC-P-SDES-01 G65E1301 Smart Cities and Smart 32ME-P-SMCR-01 Smart Cities and Smart G16E0501 32MC-P-SVRG-01 G16E0501	Solving Real World Problems is to apply knowledge from the field of economics and management acquired during the study to solve real problems from economics solve the problem with the support of teachers who become their mentors. Service Design Service design Smart Cities and Regions t Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and interpretation of the development of skills in managing projects, processes, and people in the organization. Social Competences in Project and Process Management on the development of skills in managing projects, processes, and people in the organization. Social Competences in Project and Process Management Social Relations in the Regions Public and Private Sector Collaboration Private Partnerships is designed for students who wish to develop their knowledge of public-private partnerships (PPPs) as particular Partnerships in Project and Process Management Strategies of Entering New Markets onalize; the various entry modes; impact of international activity on the business plan; the export plan; the marketing plan; the the results. Strategies of Entering New Markets	ZK conomic practice. A Z,ZK Z,ZK Z,ZK dicators. Z,ZK dicators. Z Z,ZK art of their profession being benefits, and their benefits, and t	3 3 3 6 6 3 3 3 onal focus. The heir pitfalls. 3 elations with
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Code of the group: FINM P 22/23 PVT

Name of the group: Povinn volitelné technické 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 9 credits

Requirement courses in the group:

Credits in the group: 9

Note on the group:

Note on the grot	aρ.					
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	ZK	3	2P+0C		PV
G77C0001	Technology Assessment	ZK	3	2P+0C	Z,L	PV
G77C0007	Communication Systems and Networks	ZK	3	2P+0C		PV
32MC-P-KSYS-01	Telecommunication Systems and Technologies	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	Z,ZK	6	2P+2C		PV

G16E0103	Management in the Automotive Industry	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	ZK	3	2P+0C		PV
G77C0003	Transportation Engineering Projects	ZK	3	2P+0C	Z,L	PV
32MC-P-IND4-01	Industry 4.0 Jan Mládek 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	ZK	6	2P+2C		PV
G77C0008	Robotics	Z,ZK	6	2P+2C		PV
32MC-P-SMCI-01	Smart Cities Technologies Martin Maštálka	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	ZK	3	2P	L	PV
127USRM	Urban Structures and Urban Development Ji í Kugl, Ji í Kupka, Jan Mužík Jan Mužík (Gar.)	ZK	5	4P	Z	PV
G77C0009	Information Security Management and Implementation	ZK	3	2P+0C		PV
32MC-P-ZRIB-01	Information Security Management and Implementation	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

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.

127LAHE Landscape Heritage

ZK

Cultural, historical, natural, and ecological processes traditionally shape the human environment, our shared cultural landscape heritage. The course will reveal intrinsic values, functions, and character, and the appropriate conservation techniques and strategies for urban landscape heritage protection.

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.

G16E0103 Management in the Automotive Industry 32MC-P-PJVS-01 Production Systems Design

Z,ZK 6 Z.ZK 6

The purpose of the course is to become familiar with: Basic concepts of production and operational management Significant sectors of industrial production and operation of complex technological systems. The nature, construction and design of industrial products and the function of complex technological systems. The role of human and technological resources in production and operation. The issue of material flows and logistics By managing supply purchasing and supply chains Supporting processes in production or operation, maintenance of machines and equipment Production or operation management: planning, organizing, securing resources, leading, controlling Design, innovation and re-engineering of manufacturing or operational systems and processes. The issue of production, or operational economics and economic metrics, the KPI system. The issue of some current trends, such as automation, robotization, digitalization, internetization, artificial intelligence, personalization, internationalization, localization. The issue of complex systems of modern production, such as the Toyota Production System, Lean Management and others Issues of quality management, environmental protection, environmental, material and energy sustainability, circular economy, hygiene and occupational safety, social responsibility in production Issues of change production and operational management

G16C1302		Z,ZK	6
32MC-P-PRDO-0	Transportation Engineering Projects	ZK	3
G77C0003	Transportation Engineering Projects	ZK	3
32MC-P-IND4-01	Industry 4.0	7 7K	3

I. Annotation The subject "Industry 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It deals with the history of industrial revolutions, current 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 society 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".

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	als with the history	of industrial
revolutions, current tren	ids as well as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0"	on the economy a	nd society as a
whole. Last but not leas	et, 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".	
G51C0401		Z	3
32MC-P-ROBO-01	Robotics	ZK	6
The course explains the	basic principles of robot operation, programming and construction, even to those who have no previous technical knowledge.	In the introductor	y block, students
will be introduced to the	e typical components of a robotic system and its construction, as well as the basics of programming. Then, participants will b	e offered the oppo	rtunity to verify
their acquired knowledge	ge by assembling a simple robot and using it to solve some characteristic tasks. The explanation draws attention not only to the	he results of vario	us (and not only)
technical fields on which	h robotics is based, and to the rich potential of using robots, but also to the limits of what a robot can do. Participants will also	think together abo	out ethical issues
and the impacts of usin	g robots.		
G77C0008	Robotics	Z,ZK	6
32MC-P-SMCI-01	Smart Cities Technologies	ZK	3
The course Technology	for smart cities introduces students to the cross-cutting issues of so-called smart cities, the preparation of the Smart City conc	ept and its plannin	g and indicators.
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	chnological, socia	l and economic
development of society.			
127UKKO	Urban and Landscape Design	ZK	3
The course introduces	selected chapters from urban and landscape composition and the theory of urbanism as a basis for urban and landscape de	sign (city image, o	ity environment,
perception, landscape of	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 lands	scape design as a creation of the environment. A theoretical basis and a sound analysis of existing towns and landscapes ar	e subsequently a	prerequisite for
successful practical des	sign. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are comple	emented by exam	oles from history
·	s urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), as		nning (regulatory
commissions) and som	e specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited extern	nal speakers.	
127USRM	Urban Structures and Urban Development	ZK	5
The course deals with t	he characteristic features of the city structure of the Czech Republic, individual types of human settlements, their importance	in the structure a	nd their urban
structure and form. Stud	dents will learn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial str	ucture, functional	composition and
operational relationship	s. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid t	to the forms of urb	an development,
i.e. both their overall gro	owth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public at	reas of cities and l	andscapes, their
transformations, and the	e protection of historical, cultural and urban values.		
G77C0009	Information Security Management and Implementation	ZK	3
32MC-P-ZRIB-01	Information Security Management and Implementation	ZK	3
		•	-

List of courses of this pass:

Code	Name of the course	Completion	Credits
127CP11	City Planning 11	ZK	2
Concepts in urba	an space design in history, form of the city, typology of urban space, philosophies behind, practices of urban space design in Europea	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	eveal 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
perception, landsca	ape composition, composed landscape, cultural landmarks, the phenomenon of the garden in the historical context, etc.). The aim of	the course is a con	nprehensive
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 s	ubsequently a prer	equisite for
successful practica	Il design. This extends the content of the basic urban planning courses from the Bachelor's degree. Theoretical issues are compleme	nted by examples	from history
•	arious urban analyses. It focuses mainly on the development of the urban form of Prague, its selected districts (Dejvice, Karlín), aspec		
commiss	sions) and some specific issues (high-rise buildings). The basic set of lectures is complemented by several extension topics by invited	d external speakers	3.
127USRM	Urban Structures and Urban Development	ZK	5
The course deals	with the characteristic features of the city structure of the Czech Republic, individual types of human settlements, their importance in	the structure and	their urban
structure and form.	Students will learn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial structures of cities and villages, their urban uniqueness.	re, functional com	osition and
operational relation	ships. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid to th	e forms of urban de	evelopmen
i.e. both their overa	Il growth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public areas	of cities and lands	capes, the
	transformations, and the protection of historical, cultural and urban values.		
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 settlements (ui	rban and rural). It co	omplements
the series of comp	oulsory and optional courses at Bachelor and Master level in Environmental Engineering and Architecture and Civil Engineering with	various aspects, po	erspectives
	and complementary topics that were not covered in the compulsory and optional courses.		
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
32MC-P-IND4-01	Industry 4.0	Z,ZK	3
I. Annotation The	subject "Industry 4.0" deals with the topic of the fourth industrial revolution, explains concepts, terms and trends in this area. It deals	with the history of	industrial

revolutions, current 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 society 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".

3	ZK	CPKSYS01 Telecommunication Systems and Technologies
water, and i	, on land, underw	ecommunications: 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),
andline work	d Pair? How a lar	e. For example: How is electric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. Do you know a Twistec
G, the bette	6, etc. The more G	the telephone network becomes the Internet. Light and dark. Transmission of information by light. Why are networks "mobile"? 1G, 2G, 3G, 4G, 5G
		w here and how elsewhere? Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? Does navigation kn
		akovice. How television (including Internet) works. A football match and a drastic Clash of the Titans. WiFi not working? What now Why the Internet
cceed) - th	s not always succ	gs. The biggest mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relationships (however, it does
		keywords are principles and clarity.
3	ZK	CP-MACTO1 Macroeconomic Theory
3	ZK	C-P-OTIK-01 Reflections of Technical Innovations in Culture
	•	course is intended for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide range o
		innovation processes, for the understanding and internalization of which a deep understanding of the connections between science and culture
6	Z,ZK	C-P-PJ/S01 Production Systems Design
-		purpose of the course is to become familiar with: Basic concepts of production and operational management Significant sectors of industrial product
	-	cological systems. The nature, construction and design of industrial products and the function of complex technological systems. The role of human a
	-	uction and operation The issue of material flows and logistics By managing supply purchasing and supply chains Supporting processes in productic chines and equipment Production or operation management: planning, organizing, securing resources, leading, controlling Design, innovation and re-
		erational systems and processes The issue of production, or operational economics and economic metrics, the KPI system The issue of some currer
		ization, digitalization, internetization, artificial intelligence, personalization, internationalization, localization The issue of complex systems of modern p
-	-	uction System, Lean Management and others Issues of quality management, environmental protection, environmental, material and energy sustainabi
,, ,,	,,	and occupational safety, social responsibility in production Issues of change production and operational management
3	ZK	CP-PRDO01 Transportation Engineering Projects
6	Z,ZK	C-P-PRIS-01 Information System Design
_		amental terms, information systems architecture, basic types of software applications for information system of enterprise, information system lifecyc
		m development, management information systems, web audit, business process modeling using BPMN, UML and others, information system mode
	<u> </u>	using ER diagrams
6	Z	C-P-PRX1-01 Internship
ality skills ar	ty to acquire qual	classification of the subject of professional practice is based on the decision of the MÚVS VUT during their studies to give students the opportunit
-		perience. MÚVS supports the establishment of a relationship between students and companies and emphasizes their mutual cooperation Part of the
		professional internship of a pilot nature.
3	ZK	C-P-RGIS-01 Regional Studies
6	Z,ZK	C-P-RIIP-01 Innovation Management and Innovation Project
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icc ii ii ovatic		epis of inflovation, prefequisites and barriers to inflovation, sources of inflovation, strategic considerations of inflovation, process inflovation, product i
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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 its 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 Chinas 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 Chinas global role and how dependence on China might impact Europe. Last but not least, we will hypothesize on Chinas future development and its obstacles. Climate Change Causalities 32MF-P-CLCH-01 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-EFNM-01 **Economic and Financial Management** ΚZ 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 32MF-P-FNIC-01 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-EUPO-01 European Union and Regional Policy 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 32ME-P-MEPO01 Monetary Economics and Policy Z,ZK 6 This course provides the main concepts of monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of three major parts. The first part starts with a definition of money, its functions, and its measures in a 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 a practical conduct of monetary policy. How money supply is created, what monetary policy tools 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 a monetary policy curve, and channels through which the changes in policy interest rate transmit to the aggregate output and inflation. Nonconventional monetary policy during the global financial crisis of 2007-2009 when countries reached their zero-lower bound of interest rates is demonstrated too. For the case of Czech monetary policy, a guest speaker from the Czech National Bank will be invited to give his/her presentation and answer any specific questions, which may interest students in practice. 32ME-P-MINE-01 Management in International Environment Z,ZK 3 Go through several situations facing a new manager 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 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** Z,ZK 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 7.7K 6 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 Ζ 3 The course is focused on the development of skills in managing projects, processes, and people in the organization.

32ME-P-SENM-01 The choice to inte	ı	Z,ZK	3 ations with			
	partners; follow up and the results.	, , , , , , , , , , , , , , , , , , , ,				
32ME-PSMCR01 Smart Cities and Regions Z,ZK 6 Smart Cities and Smart Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and indicators.						
G00C3101			0			
G00C4102	. ,					
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	of the subject of professional practice is based on the decision of the MÚVS VUT during their studies to give students the opportuni		y 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						
G04E0201	English for Intercultural Communication	Z,ZK	6			
	and activities . Case studies on individual topics Language level: CEFR B2	3 · 3 · .	5-1			
G04E0202	Meetings and Negotiations in English	Z,ZK	6			
English for Meeting	s and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for stud	ents at the upper i	ntermediate			
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	iso to internationalize, the various entry modes: impact of informational activity on the business pink the expert plan; the marketing plans the insplementation, relations to with particular particular follows and Regions Survey introduces students to the interhecibilities in the interhecibiliti					
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G16C1201	Project Management	Z,ZK	6			
G16C1302	, ,		6			
G16C1401	Innovation Marketing	Z,ZK	6			
G16C2501	Ţ		6			
			ies, policies			
and prac	tices for efficient people management in the organization and the main tasks of managers in various activities of people management	t in the organizatio	n.			
G16C3101			6			
G16C3102			_			
a macroeconomic		ematic-analytical n	nethods and			
G16C3103	<u> </u>					
	Managing in an International Environment					
G16E0102						
G16E0103	Management in the Automotive Industry	Z,ZK	6			
G16E0201						
	urse teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods	s that work well tog	ether within			
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G16E0202						
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of business manag	gement to the development of the product, production, and service technologies. Characterize the process of technological forecasts,	foresight, and cre	ation of the			
technology strateg		n of technological	intellectual			
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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 Z,ZK 3 G16F0401 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 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 7.7K 6 G16E2302 **Business Process Management** Z.ZK 6 G51C0401 Ζ 3 Z,ZK G63C1102 Statistical Analysis 6 The course builds on the introductory courses of statistics and prefaces slightly advanced statistical analysis methods. G63C1301 Corporate Financial Management Z.ZK 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 3 The course introduces the analysis of the theory of consumer, the theory of firm, and the market interactions of consumers and firms. G63C2301 Z,ZK Controlling 6 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. G63C2302 Financial Law 7K 3 G63C3201 ZK 3 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 Z.ZK G63E0201 **Economics of Climate Change** 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). International Financial Management G63E1302 Z.ZK 6 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. G63E2301 Financial Markets and Risk Management Z,ZK 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 Mertons options theoretic approach and explains default in structural terms related to the market value of the firms 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 ΚZ Economic and Financial Modelling 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 G63F4201 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. G65C0103 Z,ZK 3 G65C0201 Territorial Management Planning ZK 3 G65C0202 **Environmental Aspects of Regional Development**

G65E1301	Smart Cities and Regions	Z,ZK	6
Smart	Cities and Smart Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning	g and indicators.	
G65E2301	Regional Development and Planning	Z,ZK	6
he goal is to unde	rstand the reason, mission and specifics of regional and municipal development in the context of European Union as well as Czech R	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 th	e Middle-Europea	n planning
culture and planning	ng system, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should p	erceive developme	ent from the
	perspectives of different stakeholders and professions, and understand the need of cooperation, participation and democracy in p	ractice.	
G65E4101	European Union and Regional Policy	ZK	3
	isses 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	• .	
ased on lectures,	class discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of the c	ourse are to expla	in a moder
	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 of	•	
innovation	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 techn	ological, social and	d economic
	development of society.		
G77C0007	Communication Systems and Networks	ZK	3
Telecommunication	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
	e: How is electric current created? Painter Morse. Alexander, ring the bell! Telecommunications from the plane. Do you know a Twister		
•	e network becomes the Internet. Light and dark. Transmission of information by light. Why are networks "mobile"? 1G, 2G, 3G, 4G, 5G		
	ow elsewhere? Satellite systems (J. Kepler + A. C. Clarke = E. Musk). What do Saturn and Earth have in common? Does navigation kn		
	How television (including Internet) works. A football match and a drastic Clash of the Titans. WiFi not working? What now Why the Int	•	•
things. The bigges	st mistakes in the history of telco business. The subject scrupulously avoids formulas and mathematical relationships (however, it does	s not always succe	eed) - 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		
	it trends as well as individual technological breakthroughs that are typical for Industry 4.0. It analyzes the effects of "Industry 4.0" on t	•	society as
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".	
TUMQTECH	Tech Challenge (Technical University of Munich, DEU)	ZK	6

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-27, time 21:14.