Study plan

Name of study plan: N-PRI-CP prezen ní navazující studium od 21/22 Process Management

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: PROCM CP 2S 21/22POV

Name of the group: Povinné p edm ty, prezen ní forma, 2.semestr, 21/22, Process Management

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

Requirement courses in the group: In this group you have to complete 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=PROCM CP 2S 21/22POV Name=Povinné p edm ty, prezen ní forma, 2.semestr, 21/22, Process Management

G63C2301 Controlling

Controlli

•	1 7					
G63C2302	Financial Law	ZK	3			
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.						
G00C3101	Diploma Thesis Project	Z	0			
G16C2501	HR Management Systems	Z,ZK	6			
The source is focused on the development of managerial skills in managing people in the expenience. Through lectures and sominary attribute will leave affective exceptaging people in the expenience.						

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: PROCM CP 3S 21/22POV

Name of the group: Povinné p edm ty, prezen ní forma, 3. semestr, 21/22, Process management

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

Requirement courses in the group: In this group you have to complete 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
G63C3201		ZK	3	2P+0C	Z	Z
G16C3103		Z,ZK	6	2P+2C		Z
G16C3102	Innovation Management and Innovation Project	Z,ZK	6	2P+2C		Z
G16C3101		Z,ZK	6	2P+2C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=PROCM CP 3S 21/22POV Name=Povinné p edm ty, prezen ní forma, 3. semestr. 21/22. Process management

G63C3201		ZK	3			
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, p	duct innovation, se	rvice innovation,			
a macroeconomic view	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			

Code of the group: PROCM CP 4S 21/22POV

Name of the group: Povinné p edm ty, prezen ní forma, 4. semestr, 21/22, Process management

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

Requirement courses in the group: In this group you have to complete 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
G63C4401	Information System Design	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=PROCM CP 4S 21/22POV Name=Povinné p edm ty, prezen ní forma, 4. semestr, 21/22, Process management

G00C4102	Diploma Thesis	Z	12	1	
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				1	

Code of the group: PROCM CP 1S 21/22POV

Name of the group: PRI CP navazující studium specializace Process Management 1. semestr povinné

p edm ty

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

Requirement courses in the group: In this group you have to complete 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
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	Z
G65C0202	Environmental Aspects of Regional Development	ZK	3	2P+0C		Z
32-IPW	International Project Workshop	ZK	3	45B		Z
127XKRS	Landscape and Settlements Ji í Kupka	Z	2	2P	L	Z
G16E1401	Marketing Innovations	Z,ZK	6	2P+2C	Z	Z
G16C1401	Innovation Marketing	Z,ZK	6	2P+2C		Z
G63E4201	Monetary Economics and Policy	Z,ZK	6	2P+2C		Z
G00C4104	Practice	Z	6	180XH		Z

G16C1201	Project Management	Z,ZK	6	2P+2C	Z
G63C1301	Corporate Financial Management	Z,ZK	6	2P+2C	Z
G16C0201	Service Design	Z,ZK	3	0P+2C	Z
G63C1102	Statistical Analysis	Z,ZK	6	2P+2C	Z

Characteristics of the courses of this group of Study Plan: Code=PROCM CP 1S 21/22POV Name=PRI CP navazující studium specializace Process Management 1. semestr povinné p edm ty

127CP11	City Planning 11	ZK	2				
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.							
0050000		717					

G65C0202	Environmental Aspects of Regional Development	ZK	3
32-IPW	International Project Workshop	ZK	3
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 (urban and rural). It complements the series of compulsory and optional courses at Bachelor and Master level in Environmental Engineering and Architecture and Civil Engineering with various aspects, perspectives and complementary topics that were not covered in the compulsory and optional courses.

G16E1401 Marketing Innovations

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
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.

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 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

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.

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.

G16C0201	Service Design	Z,ZK	3
G63C1102	Statistical Analysis	Z,ZK	6
The course builds on t	e introductory courses of statistics and prefaces slightly advanced statistical analysis methods.		

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: PROCM CP 21/22 SP

Name of the group: P edm ty specializace, prezen ní forma, 21/22, Process Management

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

Requirement courses in the group: In this group you have to complete 4 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
G16E2302	Business Process Management	Z,ZK	6	2P+2C		PZ
G16E1302	Lean Manufacturing	Z,ZK	6	2P+2C		PZ
G16E3301	Six Sigma	ZK	3	0P+2C		PZ
G16E0501	Social Competences in Project and Process Management	Z	3	0P+2C		PZ

Characteristics of the courses of this group of Study Plan: Code=PROCM CP 21/22 SP Name=P edm ty specializace, prezen ní forma, 21/22, Process Management

G16E2302 Business Process Management	Z,ZK	6
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G16E1302 Lean Manufacturing

As a result of completing this course, the student should be able to: Describe and explain the main significance, meaning, and functions of innovation management with a focus on Lean production applications in the workplace. Explain the relationship between management, innovation management, and the main departments of the company. Characterize pre-production, production, and manufacturing processes and related Lean manufacturing innovation processes. Create an innovation strategy and an innovation project with a focus on Lean. Clarify the importance of joint planning/forecasting of upcoming Lean products, services, and production technologies in the company. Etc.

G16E3301 Six Sigma

The course is aimed at practical application of how the individual components (methods and techniques - mainly applied statistical methods and techniques) used in this approach and a common application of these components throughout the DMAIC cycle (Define, Measure, Analyze, Improve, Control).

G16E0501 Social Competences in Project and Process Management

Z 3

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: PROCM PVP CP 21/22

Name of the group: Povinn volitelné p edm ty, prezen ní forma, 21/22, Project management Requirement credits in the group: In this group you have to gain at least 12 credits (at most 99) Requirement courses in the group: In this group you have to complete at least courses (at most 21)

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
G16C0101	Balanced Scorecard	Z,ZK	6	2P+2C	Z,L	PV
G16E2302	Business Process Management	Z,ZK	6	2P+2C		PV
G63E1301	Corporate Financial Management	Z,ZK	6	2P+2C		PV
G63E3301	Economic and Financial Modelling	KZ	3	0P+2C		PV
G63E0201	Economics of Climate Change	Z,ZK	6	2P+2C		PV
G04E0201	English for Intercultural Communication	Z,ZK	6	0P+4C	Z,L	PV
G65E4101	European Union and Regional Policy	ZK	3	2P+0C		PV
G63E0202	Green Transition	Z,ZK	6	2P+2C		PV
G16E0102	Managing in an International Environment	Z,ZK	3	1P+1C		PV
G04E0202	Meetings and Negotiations in English	Z,ZK	6	0P+4C	L	PV
G66C0101	Reflections of Technical Innovations in Culture	ZK	3	2P+0C	L	PV
G16C0301	Lean Management Practice	ZK	3	0P+2C		PV
G16E0203	Project Innovation Management	Z,ZK	6	2P+2C		PV
G16E0202	Project Technology Management	Z,ZK	6	2P+2C		PV
G16C1302		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
G16C0104	Solving Real World Problems	ZK	3	0P+2C		PV
G65E1301	Smart Cities and Regions	Z,ZK	6	2P+2C		PV
G16E0401	Strategies of Entering New Markets	Z,ZK	3	1P+1C		PV
G65C0201	Territorial Management Planning	ZK	3	2P+0C		PV

Characteristics of the courses of this group of Study Plan: Code=PROCM PVP CP 21/22 Name=Povinn volitelné p edm ty, prezen ní forma, 21/22, Project management

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G16E2302	Business Process Management	Z,ZK	6
G16C0101	Balanced Scorecard	Z,ZK	6
G63E1301	Corporate Financial Management	Z,ZK	6
Analysis of financial tec	hniques of corporations and firms when facing the financial markets. The portfolio analysis and the implications for the Corpo	orative Manageme	ent Modelling the
	erran and a second contract of the contract of		

Analysis of financial techniques of corporations and firms when facing the financial markets. The portfolio analysis and the implications for the Corporative Management Modelling the parameters and alternatives for valuating the company. Applied tools for understanding the credit operations on the market. Elaboration of amortization tables. The course is organized 2 lectures (mean 90 minutes) weekly, 2 seminars (90 minutes) weekly. 6 credits. Z zápo et, ZK zkouška (preliminary test and exam). This is composed by a theoretical instruction and a practical development. Heavily supported by Excel functions and formulas.

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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 Port	folio allocation	
G63E0201	Economics of Climate Change	Z,ZK	6

G04E0201	English for Intercultural Communication	Z,ZK	6
The seminar will focus of	on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences	influencing comm	unication, and
-	juage means in intercultural negotiations. Outline of the subject: . Approaches to culture . Cultural and language context in com		
	ehaviour and language expression. International English as lingua franca. The most common mistakes as a cause of misuno	derstanding . Lanç	guage practice
	Idies on individual topics Language level: CEFR B2	71/	
G65E4101	European Union and Regional Policy	ZK	3
	levelopments in the EU and in the EU Regional Policy from the end of the Cold War until today. It focuses on relevant issues o s discussions and presentations of various positions present in the debates (group projects / own positions). The objectives of th		
	analyse key points in particular areas of integration and practise argumentation skills.	ic course are to e.	Apiain a modern
G63E0202	Green Transition	Z,ZK	6
	times imagined as a technical question involving mostly energy production and industrial processes. Nonetheless, wider societa		-
are indispensable to su	ccessful transformation. The course introduces different transition approaches focusing on such wider frameworks and stressi	ing the interconne	ections between
politics, markets, indust	ry, and social changes. Theoretical concepts of transformation will then be linked to current reality in specific regions (with em	phasis on but not	limited to the
EU).			
G16E0102	Managing in an International Environment	Z,ZK	3
	Implementation: knowledge transfer and possible adaptations. Strategic partnership and consequences on the cooperation. F		-
	and its constraints. Parent company versus locals. Managing multi-cultural teams. Remote management. Expatriation. Manage	rial skills and con	npetences.
	eveloping ones competences.	7.71/	6
G04E0202	Meetings and Negotiations in English d Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for s	Z,ZK	-
	es on a collaborative model of the English language intended for a range of business or business meetings and negotiations. Al		
	nal negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing an	•	
situations. The course is	s based on the modern, increasingly widespread model of "International English", ie international English understood as lingua	a franca. Listeninç	g materials work
with recordings of native	e speakers of all English styles and focus on collocations and idiomatics of American and British English.		
G66C0101	Reflections of Technical Innovations in Culture	ZK	3
•	for students of the Master's study program Project Management of Innovations. The teaching is aimed at gaining a wide rang	_	om the field of
	or the understanding and internalization of which a deep understanding of the connections between science and culture is an		
G16C0301	Lean Management Practice	ZK	3
	s to apply knowledge from the field of lean management and lean manufacturing acquired during the study to solve real proble	ems from econom	nic practice.
	s assignment, student teams solve the problem with the support of teachers who become their mentors.	7 71/	
G16E0203	Project Innovation Management equires much more than the management of individual aspects of the innovation process within the institution; it also requires	Z,ZK	6
	equires much more than the management of individual aspects of the innovation process within the institution, it also requires ns 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 cal	-	
• •	set of rules and measures of the institution. However, most innovation projects require an individual approach so that project t		
innovative, and creative	. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a suppor	rtive corporate cul	lture, a focus on
	als of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate m		
	for an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Innovati	-	
•	nmercialization of innovations, and related intellectual property protection. After completing the course, the student should an nd manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, cre	_	
	no manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, cre Inovation, manage project development, identify and manage innovation risks, and understand the sourcing process for the pi		•
	thow to implement and commercialise innovations. The course includes approaches, experience, and examples of the best in	•	
G16E0202	Project Technology Management	Z,ZK	6
	agement means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Tec		
in production, have long	tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is nece	essary to examine	the preparatory,
implementation, and co	mmercial activities of technology management in a more comprehensive form. Technology project management is more goal-	oriented, time-bo	und, and has a
· · ·	tructure and budget. After completing the course, students should answer the following framework topics: define the nature, in	-	-
	agement with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology assess		
· ·	nt to the development of the product, production, and service technologies. Characterize the process of technological forecas he company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protect		
	o commercialize their own technologies at the level of industry, region, or state.	ion of technologic	cai intellectual
G16C1302	South and the state of the south and the sou	Z,ZK	6
G65C0103		Z,ZK	3
G65E2301	Regional Development and Planning	Z,ZK	6
	If the reason, mission and specifics of regional and municipal development in the context of European Union as well as Czech		
_	Idents 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 should	= -	
perspectives of different	t stakeholders and professions, and understand the need of cooperation, participation and democracy in practice.		
G16C0104	Solving Real World Problems	ZK	3
	s to apply knowledge from the field of economics and management acquired during the study to solve real problems from eco	nomic practice. A	ccording to the
	dents solve the problem with the support of teachers who become their mentors.		
G65E1301	Smart Cities and Regions	Z,ZK	6
	Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning and ind		
G16E0401	Strategies of Entering New Markets	Z,ZK	3
The choice to internation partners; follow up and	nalize; the various entry modes; impact of international activity on the business plan; the export plan; the marketing plan; the i	implementation; re	elations with
	Torritorial Management Planning	7K	2

Code of the group: PROCM PVT CP 21/22

Name of the group: Povinn volitelné technické p edm ty, prezen ní forma, 21/22, Project Management 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
G65C0202	Environmental Aspects of Regional Development	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
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
G16E0103	Management in the Automotive Industry	Z,ZK	6	2P+2C		PV
G16C1302		Z,ZK	6	2P+2C		PV
G77C0003	Transportation Engineering Projects	ZK	3	2P+0C	Z,L	PV
G77C2011	Industry 4.0	Z,ZK	3	1P+1C		PV
G51C0401		Z	3	2P+0C		PV
G77C0008	Robotics	Z,ZK	6	2P+2C		PV
G16C0601	Technology Forecasting	Z,ZK	3	1P+1C		PV
G77C0004	Smart Cities Technologies	ZK	3	2P+0C	Z,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

Characteristics of the courses of this group of Study Plan: Code=PROCM PVT CP 21/22 Name=Povinn volitelné technické p edm ty, prezen ní forma, 21/22, Project Management

G65C0202	Environmental Aspects of Regional Development	ZK	3
G16C1302		Z,ZK	6
00		71/	
G77C0001	Technology Assessment	∠K	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 | 4 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.

G16E0103	Management in the Automotive Industry	Z,ZK	6
G77C0003	Transportation Engineering Projects	ZK	3
G77C2011	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".

G51C0401		Z	3
G77C0008	Robotics	Z,ZK	6
G16C0601	Technology Forecasting	Z,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 technological, social and economic development of society.

127USRM Urban Structures and Urban Development

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 structure, functional composition and operational relationships. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid to the forms of urban development, i.e. both their overall growth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public areas of cities and landscapes, their transformations, and the protection of historical, cultural and urban values.

G77C0009 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	an 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 and character, and the appropriate conservation techniques and strategies for urban landscape heritage protection.	eveal intrinsic value	s, functions,
407HCDM		71/	
127USRM	Urban Structures and Urban Development with the characteristic features of the city structure of the Czech Republic, individual types of human settlements, their importance in	ZK	5
	Students will learn to identify the characteristic features of cities and villages, their urban uniqueness, arrangement of spatial structu		
	iships. Analyze their external and internal image. To identify their landscape, urban and architectural values. Attention is also paid to the		
	Ill growth and the regeneration or transformation of their existing parts. It also deals with the structure and composition of public areas transformations, and the protection of historical, cultural and urban values.		
127XKRS	Landscape and Settlements	Z	2
The optional course	e presents selected chapters on landscape architecture and urbanism, focusing on two thematic blocks - garden art and settlements (u	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.		
32-IPW	International Project Workshop	ZK	3
G00C3101	Diploma Thesis Project	Z	0
G00C4102	Diploma Thesis	Z	12
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 opportun	ity to acquire qualit	ty skills and
experience. MÚ'	VS supports the establishment of a relationship between students and companies and emphasizes their mutual cooperation Part of t	he study plans is s	hort-term
	professional internship of a pilot nature.		
G04E0201	English for Intercultural Communication	Z,ZK	6
	ocus on the importance of accuracy and comprehension in communication in a foreign language, and highlight cultural differences in	-	
	language means in intercultural negotiations. Outline of the subject: . Approaches to culture . Cultural and language context in commi		
and their influence	e on behaviour and language expression . International English as lingua franca . The most common mistakes as a cause of misunde	erstanding . Langua	ige practice
C04F0202	and activities . Case studies on individual topics Language level: CEFR B2	7.71/	
G04E0202	Meetings and Negotiations in English	Z,ZK	6
-	is and Negotiations is part of a series of courses for follow-up students focused on functional language. The course is intended for stude Incuses on a collaborative model of the English language intended for a range of business or business meetings and negotiations. Altho		
	ontational negotiation and communication strategies, part of the explanation is devoted to strategies and language for preventing and	-	
	rse is based on the modern, increasingly widespread model of "International English", ie international English understood as lingua fi	· -	
	with recordings of native speakers of all English styles and focus on collocations and idiomatics of American and British Eng	-	
G16C0101	Balanced Scorecard	Z,ZK	6
G16C0104	Solving Real World Problems	ZK	3
	rrse is to apply knowledge from the field of economics and management acquired during the study to solve real problems from economics	omic practice. Acco	ording to the
	client's assignment, students solve the problem with the support of teachers who become their mentors.		
G16C0201	Service Design	Z,ZK	3
G16C0301	Lean Management Practice	ZK	3
	purse is to apply knowledge from the field of lean management and lean manufacturing acquired during the study to solve real proble	1	1
	According to the client's assignment, student teams solve the problem with the support of teachers who become their mento	ors.	
G16C0601	Technology Forecasting	Z,ZK	3
G16C1201	Project Management	Z,ZK	6
G16C1302		Z,ZK	6
G16C1401	Innovation Marketing	Z,ZK	6
G16C2501	HR Management Systems	Z,ZK	6
	IR Management Systems sed on the development of managerial skills in managing people in the organization. Through lectures and seminars, students will lea		_
	tices for efficient people management in the organization and the main tasks of managers in various activities of people managemen	_	-
G16C3101	, , a say, a say of the say of th	Z,ZK	6
G16C3101	Innovation Management and Innovation Project	Z,ZK	6
	tion, prerequisites and barriers to innovation, sources of innovation, strategic considerations of innovation, process innovation, product		_
•	view of the role of innovation, organizational support and management of innovation, soft methods and techniques of innovation, syst		
	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
	harraging in an international Environment phase. Implementation: knowledge transfer and possible adaptations. Strategic partnership and consequences on the cooperation.	1	I
	e DFI and its constraints. Parent company versus locals. Managing multi-cultural teams. Remote management. Expatriation. Manage		_
	Knowing oneself and developing ones competences.		
G16E0103	Management in the Automotive Industry	Z,ZK	6
	1		

C40E0202	Designat To share low Management	7 71/	•
G16E0202	Project Technology Management management means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Techno	Z,ZK	6 conocially
٠, ,	ong tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is necessa	•	
-	d commercial activities of technology management in a more comprehensive form. Technology project management is more goal-ori	-	
-	nal structure and budget. After completing the course, students should answer the following framework topics: define the nature, imp		
project technology	management with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology assessm	nent. Explain the re	elationships
_	ement to the development of the product, production, and service technologies. Characterize the process of technological forecasts,	-	
technology strateg	y of the company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protection property and the need to commercialize their own technologies at the level of industry, region, or state.	n of technological	intellectual
G16E0203	Project Innovation Management	Z.ZK	6
	on requires much more than the management of individual aspects of the innovation process within the institution; it also requires a s	,	
deals with the intera	ctions between various stakeholders, their goals, objectives, markets, and organizations. Traditional innovation management usually foc	uses on goals and	procedures
	ning, usually on implementation and control within the institution. Procedures are often repeated. This creates a framework that can li		
	the set of rules and measures of the institution. However, most innovation projects require an individual approach so that project tear		
	itive. Each innovation project is individual and requires an individual approach. A clear strategy in the area of innovation, a supportive I goals of innovation, constant study of trends and risks, an appropriate budget, Change- and Risk management, and adequate moti	•	
	quisites for an innovation project. The main goal of this course is to acquaint students with the key specifics of innovation projects, Inr		
	nd commercialization of innovations, and related intellectual property protection. After completing the course, the student should ans	_	
topics: how to ident	ify and manage the framework of an innovation project, create a project breakdown structure, create a project innovation plan, create	e a project budget,	define and
	or innovation, manage project development, identify and manage innovation risks, and understand the sourcing process for the project	· · · · · · · · · · · · · · · · · · ·	
	operty and how to implement and commercialise innovations. The course includes approaches, experience, and examples of the bes		
G16E0401	Strategies of Entering New Markets	Z,ZK	3
The choice to inte	rnationalize; the various entry modes; impact of international activity on the business plan; the export plan; the marketing plan; the impartners; follow up and the results.	ipiementation; reia	ations with
G16E0501	Social Competences in Project and Process Management	Z	3
G16E1302	Lean Manufacturing	Z,ZK	6
	pleting this course, the student should be able to: Describe and explain the main significance, meaning, and functions of innovation r	,	
	applications in the workplace. Explain the relationship between management, innovation management, and the main departments of	_	
pre-production, pro	duction, and manufacturing processes and related Lean manufacturing innovation processes. Create an innovation strategy and an in	nnovation project	with a focus
on	Lean. Clarify the importance of joint planning/forecasting of upcoming Lean products, services, and production technologies in the c	ompany. Etc.	
G16E1401	Marketing Innovations	Z,ZK	6
	of innovation in marketing is to gain new customers, improve goodwill, increase sales and profitability of the company. At the beginning a bould be a side of the company o	_	
	ig should help identify new market opportunities and risks and improve the research of customer needs. During developing a new pro Stant involvement of customers and users in this process. And at the end of the innovation process, innovation marketing ensures the		- 1
	nology, and service to the target audience. Innovation marketing should therefore be present at all stages of the innovation process t		
market orientation	n is in line with advances in products and technologies, which often lead to the application of new marketing approaches. We address		
	subject.	s these main aspe	cts in this
G16E2302	subject. Business Process Management	s these main aspe	cts in this
G16E2302 G16E3301	subject. Business Process Management Six Sigma	z,zK	cts in this 6 3
G16E2302 G16E3301	subject. Business Process Management Six Sigma d at practical application of how the individual components (methods and techniques - mainly applied statistical methods and techniques)	z,zK	cts in this 6 3
G16E2302 G16E3301 The course is aimed	subject. Business Process Management Six Sigma	s these main aspe Z,ZK ZK les) used in this ap	cts in this 6 3 pproach and
G16E2302 G16E3301 The course is aimed	subject. Business Process Management Six Sigma d at practical application of how the individual components (methods and techniques - mainly applied statistical methods and technique a common application of these components throughout the DMAIC cycle (Define, Measure, Analyze, Improve, Control).	z,ZK ZK ZK ues) used in this ap	cts in this 6 3 oproach and
G16E2302 G16E3301 The course is aimed	subject. Business Process Management Six Sigma d at practical application of how the individual components (methods and techniques - mainly applied statistical methods and techniques)	s these main aspe Z,ZK ZK les) used in this ap	cts in this 6 3 pproach and
G16E2302 G16E3301 The course is aimed	subject. Business Process Management Six Sigma d at practical application of how the individual components (methods and techniques - mainly applied statistical methods and technique a common application of these components throughout the DMAIC cycle (Define, Measure, Analyze, Improve, Control). Statistical Analysis	z,ZK ZK ZK ues) used in this ap	cts in this 6 3 oproach and
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G63E1301	Corporate Financial Management	Z,ZK	6
	al techniques of corporations and firms when facing the financial markets. The portfolio analysis and the implications for the Corporative	,	1
•	ernatives for valuating the company. Applied tools for understanding the credit operations on the market. Elaboration of amortization tal	•	•
	0 minutes) weekly, 2 seminars (90 minutes) weekly. 6 credits. Z zápo et, ZK zkouška (preliminary test and exam). This is composed by		•
rectures (mean 50	a practical development. Heavily supported by Excel functions and formulas.	, a trieoreticarini	struction and
G63E3301	Economic and Financial Modelling	KZ	3
The cours	se is organized in 2 seminars weekly, 3 credits. Analyzing and solving models of optimal allocation of assets, management of risk, and	Portfolio allocat	ion
G63E4201	Monetary Economics and Policy	Z,ZK	6
This course covers	, s basic concepts from monetary economics, emphasizing how monetary policy can affect the domestic economy. It consists of two ma	jor parts. The fire	st one starts
with the definition of	of money, its functions, and monetary aggregates and leads to the inner workings of financial markets, particularly interest rate dynamic	s. The second o	ne combines
he practical conduc	ict of monetary policy by central banks with the theoretical frameworks of what explains inflation in the long run and how monetary poli	cy can stabilize	the economy
and inflation. The	eleading textbook is Mishkin (2022) listed with other optional readings below. There will be lectures and exercise sessions, where differ	rent problem sets	s 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
	t Cities and Smart Regions study introduces students to the interdisciplinary issue Smart Cities, preparing concept SC and its planning	,	
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 Re	,	1
THE GOAL IS TO ULTUELS	ent. Students should know the core European concepts of regional and municipal development. A particular attention will be paid to the		•
tool of dovolonmer			ari piaririiriy
•		•	ont from the
•	ng system, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should pe	rceive developm	ent from the
culture and planning	ng system, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should pe perspectives of different stakeholders and professions, and understand the need of cooperation, participation and democracy in pr	erceive developm actice.	
culture and planning	ng system, which is rooted in the mutual interactions between spatial, urban, strategic and environmental planning. Students should pe perspectives of different stakeholders and professions, and understand the need of cooperation, participation and democracy in presenting the properties of different stakeholders and professions, and understand the need of cooperation, participation and democracy in professional Policy	erceive developm actice.	3
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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".

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-10-25, time 08:15.