### Study plan

### Name of study plan: PRI kombinovaná forma od 20/21 specializace 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 combined 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: N-PRI-CK 3S OD 20/21 Name of the group: N-PRI-CK 3. semestr od 20/21 povinné p edm ty 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 5 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
K63C3201	Macroeconomic Theory	ZK	3	24B		Z
K00C3101	Diploma Thesis Project	Z	0	2B		Z
K16C3103	Decision Analysis	Z,ZK	6	20B	Z	Z
K16C3102	Innovation Management and Innovation Project Tomáš Sadílek	Z,ZK	6	20B		Z
K16C3101	Strategic Management	Z,ZK	6	20B		Z

Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK 3S OD 20/21 Name=N-PRI-CK 3. semestr od 20/21 povinné p edm ty

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K63C3201	Macroeconomic Theory	ZK	3			
K00C3101	Diploma Thesis Project	Z	0			
K16C3103	Decision Analysis	Z,ZK	6			
K16C3102	Z,ZK	6				
Concepts of innovation, assumptions and barriers to innovation, sources of innovation, strategic considerations about innovation, process innovation, product innovation, service						
innovation, macroeconomic view of the role of innovation, organizational security and innovation management, soft methods and innovative techniques, systematic-analytical methods						
and innovative techniques, economic aspects of innovation, intellectual property of innovation and legal aspects.						
K16C3101	Strategic Management	Z,ZK	6			

#### Code of the group: PRM CK 4S 20/21 POV

Name of the group: Povinné p edm ty, kombinovaná forma, 4. semestr, 20/21, 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
K00C4102	Diploma Thesis	Z	12			Z

	K63C4401	Project of Information System	Z,ZK	6	20B	L	z
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Characteristics of the courses of this group of Study Plan: Code=PRM CK 4S 20/21 POV Name=Povinné p edm ty, kombinovaná forma, 4. semestr, 20/21, Process Management

K00C4102	Diploma Thesis	Z	12
K63C4401	Project of Information System	Z,ZK	6

Code of the group: PRM CK 20/21 1S POV

Name of the group: PRI kombinovaná forma 1. semestr Process Management 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
K63C2301	Controlling	Z,ZK	6	20B		Z
K16C1401	Innovation Marketing Tomáš Sadílek Tomáš Sadílek (Gar.)	Z,ZK	6	20B		Z
K16C1201	Project Management Petr Fanta	Z,ZK	6	20B		Z
K63C1301	Corporate Financial Management	Z,ZK	6	20B		Z

#### Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 1S POV Name=PRI kombinovaná forma 1. semestr Process Management povinné p edm ty

K63C2301	Controlling	Z,ZK	6			
K16C1401	Innovation Marketing	Z,ZK	6			
K16C1201	Project Management	Z,ZK	6			
K63C1301	Corporate Financial Management	Z,ZK	6			
The course provides a comprehensive view of long-term development of the company in terms of financial planning and management. It assumes a knowledge of financial analysis						
and long-term financing options. The base is in a complex planning and predicting the future. A significant area is dedicated to all stages of the investment process.						

### Code of the group: PRM CK 2S POV 20/21

Name of the group: 2.s. kombinované studium povinné p edm ty od 20/21 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:

#### Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) K63C2302 ΖK 12B 3 **Financial Law** z K63C2201 ΖK 3 24B L **Macroeconomic Theory** Z K16E2202 ΖK 6 20B Ζ **Project Technology Management Statistical Analysis** K63C1102 Z.ZK 6 32B z Tomáš Löster Tomáš Löster Tomáš Löster (Gar.)

#### Characteristics of the courses of this group of Study Plan: Code=PRM CK 2S POV 20/21 Name=2.s. kombinované studium povinné p edm ty od 20/21

K63C2302	Financial Law	ZK	3					
K63C2201	ZK	3						
K16E2202	ZK	6						
Technology project man	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 s	tructure and budget. After completing the course, students should answer the following framework topics: define the nature, i	mportance, and k	ey 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.								
K63C1102	Statistical Analysis	Z,ZK	6					

Name of the block: Povinné p edm ty zam ení

#### Code of the group: PRM CK 20/21 3S SP

Name of the group: N-PRI-CK 3. semestr od 20/21 p edm ty specializace Process Management Requirement credits in the group: In this group you have to gain 3 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 3 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
K16E3301	Six Sigma	ZK	3	10B		ΡZ

# Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 3S SP Name=N-PRI-CK 3. semestr od 20/21 p edm ty specializace Process Management

K16E3301	Six Sigma	ZK	3			
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).						

#### Code of the group: PRM CK 20/21 4S SP

Name of the group: N-PRI-CK 4. semestr od 20/21 p edm ty specializace Process Management Requirement credits in the group: In this group you have to gain 3 credits

#### Requirement courses in the group: In this group you have to complete 1 course

#### Credits in the group: 3

#### 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
K16E0501	Social Competences in Project and Process Management Petr Fanta Petr Fanta (Gar.)	Z	3	12B		ΡZ

# Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 4S SP Name=N-PRI-CK 4. semestr od 20/21 p edm ty specializace Process Management

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K16E0501	Social Competences in Project and Process Management	Z	3		
Social competencies, soft skills, typology, successful team management					

#### Code of the group: PRM CK 20/21 1S SP

Name of the group: PRI kombinovaná forma od 20/21 1.s. specializace Process Management p edm ty specializace

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 6

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
K16E1302	Lean Manufacturing	Z,ZK	6	20B		PZ

# Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 1S SP Name=PRI kombinovaná forma od 20/21 1.s. specializace Process Management p edm ty specializace

K16E1302Lean ManufacturingZ,ZK6As 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<br/>Lean production applications in the workplace. Explain the relationship between management, innovation management, and the main departments of the company. Characterize<br/>pre-production, production, and manufacturing processes and related Lean manufacturing innovation processes. Create an innovation strategy and an innovation project with a focus<br/>on Lean. Clarify the importance of joint planning/forecasting of upcoming Lean products, services, and production technologies in the company. Etc.

Code of the group: PRM CK20/21 2S SP

Name of the group: PRI kombinovaná forma od 20/21 2.s. specializace Process Management p edm ty specializace

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 6

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
K16E2302	Business Process Management	Z,ZK	6	20B	L	PZ

#### Characteristics of the courses of this group of Study Plan: Code=PRM CK20/21 2S SP Name=PRI kombinovaná forma od 20/21 2.s. specializace Process Management p edm ty specializace Z,ZK 6

K16E2302	Business Process Management

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: PRM CK 20/21 PVT

Name of the group: PRI kombinovaná forma povinn volitelné technické p edm ty od 20/21 Requirement credits in the group: In this group you have to gain 9 credits

Requirement courses in the group: In this group you have to complete at least 2 courses (at most 3) Credits in the group: 9

Note on the aroup:

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
K77C0007	Communication Systems and Networks	ZK	3	12B		PV
K77C0003	Transportation Engineering Projects	ZK	3	12B		PV
K16C0601	Technology Forecasting	Z,ZK	3	12B		PV
K77C0004	Smart Cities Technologies	ZK	3	12B		PV
K77C0009	Information Security Management and Implementation	ZK	3	12B		PV

#### Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 PVT Name=PRI kombinovaná forma povinn volitelné technické p edm ty od 20/21

K77C0007	Communication Systems and Networks	ZK	3		
K77C0003	Transportation Engineering Projects	ZK	3		
K16C0601	Technology Forecasting	Z,ZK	3		
K77C0004	Smart Cities Technologies	ZK	3		
The subject Technology for smart cities introduces students to the cross-cutting issues of smart cities, the preparation of the Smart City concept and its planning procedure and indicat					
K77C0009	Information Security Management and Implementation	ZK	3		

Code of the group: PRM CK 20/21 PVP

Name of the group: PRI-PRM kombinovaná forma od 20/21 povinn volitelné p edm ty 3.+ 4. semestr Requirement credits in the group: In this group you have to gain 12 credits

Requirement courses in the group: In this group you have to complete at least 2 courses (at most 4) 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
K16E0201	Agile Bootcamp	KZ	3	24B		PV
K16C0101	Balanced Scorecard	Z,ZK	6	20B		PV
K63C0301	Valuation of Firm and Projects	Z,ZK	6	20B		PV
K66C0101	Reflections of Technical Innovations in Culture	ZK	3	12B		PV

K63C0302	Corporate Crisis Tomáš Sadílek	Z,ZK	3	12B	PV
K65C0103	Public Relations	Z,ZK	3	12B	PV

# Characteristics of the courses of this group of Study Plan: Code=PRM CK 20/21 PVP Name=PRI-PRM kombinovaná forma od 20/21 povinn volitelné p edm ty 3.+ 4. semestr

K16E0201	Agile Bootcamp	KZ	3			
Agile Bootcamp course teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three methods that work well together within						
the same cross-function	al team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for	or the design and	implementation			
of Design Sprints, inclue	ding a practical test of the entire process.					
K16C0101	Balanced Scorecard	Z,ZK	6			
K63C0301	Valuation of Firm and Projects	Z,ZK	6			
K66C0101	Reflections of Technical Innovations in Culture	ZK	3			
K63C0302	Corporate Crisis	Z,ZK	3			
The aim of the course is	an introduction of negative impacts of internal and external factors on the corporate life cycle. Crisis and corporate default a	are a natural phen	omenon in the			
economy. It is important	for students to be prepared on such a possible development and to have the knowledge to eventually reverse the unfavoura	ble corporate dev	elopment			
Knowledge should be in	Knowledge should be in economic as well as in legislative perspective. The course will be especially based on case studies and practical applications respecting current economic					
reality and legal regulation.						
K65C0103	Public Relations	Z,ZK	3			

### List of courses of this pass:

Code	Name of the course	Completion	Credits			
K00C3101	Diploma Thesis Project	Z	0			
K00C4102	Diploma Thesis	Z	12			
K16C0101	Balanced Scorecard	Z,ZK	6			
K16C0601	Technology Forecasting	Z,ZK	3			
K16C1201	Project Management	Z,ZK	6			
K16C1401	Innovation Marketing	Z,ZK	6			
K16C3101	Strategic Management	Z,ZK	6			
K16C3102	Innovation Management and Innovation Project	Z,ZK	6			
Concepts of inno	vation, assumptions and barriers to innovation, sources of innovation, strategic considerations about innovation, process innovation,	product innovation	n, service			
innovation, macroed	conomic view of the role of innovation, organizational security and innovation management, soft methods and innovative techniques,	systematic-analytic	cal methods			
	and innovative techniques, economic aspects of innovation, intellectual property of innovation and legal aspects.					
K16C3103	Decision Analysis	Z,ZK	6			
K16E0201	Agile Bootcamp	KZ	3			
Agile Bootcamp cou	irse teaches students the fundamentals of Design Thinking and other agile innovation principles. The course introduces three method	s that work well tog	ether within			
the same cross-fur	ctional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the	he design and impl	ementation			
	of Design Sprints, including a practical test of the entire process.	_	-			
K16E0501	Social Competences in Project and Process Management	Z	3			
	Social competencies, soft skills, typology, successful team management					
K16E1302	Lean Manufacturing	Z,ZK	6			
As a result of com	pleting this course, the student should be able to: Describe and explain the main significance, meaning, and functions of innovation	the compony Cho	a tocus on			
pre-production pro	applications in the workplace. Explain the relationship between management, innovation management, and the main departments of duction, and manufacturing processes and related Lean manufacturing innovation processes. Create an innovation strategy and an i	innovation project y	with a focus			
on	Lean, Clarify the importance of joint planning/forecasting of upcoming Lean products, services, and production technologies in the d	company. Etc.				
K16E2202	Project Technology Management	7K	6			
Technology project	management means not only decisions about one's own technological research, innovative cooperation, or technology transfer. Technology	ological innovations	s, especially			
in production, have	ong tied up company resources, and poor decisions can pose significant financial problems for most companies. Therefore, it is necess	ary to examine the	preparatory,			
implementation, an	d commercial activities of technology management in a more comprehensive form. Technology project management is more goal-or	iented, time-bound	, and has a			
project organizatio	nal structure and budget. After completing the course, students should answer the following framework topics: define the nature, imp	ortance, and key f	unctions of			
project technology	management with a focus on the analysis of technological trends, risks, and opportunities, innovation radar, and technology assessr	nent. Explain the re	elationships			
of business manag	ement to the development of the product, production, and service technologies. Characterize the process of technological forecasts,	, foresight, and cre	ation of the			
technology strateg	y of the company. Explain creating a project plan for implementing new technology. Clarify the importance of the necessary protection	on of technological	intellectual			
K16E0000	property and the need to commercialize their own technologies at the level of industry, region, of state.	7 71	6			
K10E2302		2,2N	0			
	SIX SIGITIA to practical application of how the individual components (motheds and techniques, mainly applied statistical motheds and techniques)		3 proach and			
	a common application of these components throughout the DMAIC cycle (Define Measure Analyze Improve Control)	ues) useu in triis ap	proacriariu			
K63C0301	Valuation of Firm and Projects	7 7K	6			
K63C0302	Corporate Crisis	7.7K	3			
The aim of the cou	rse is an introduction of negative impacts of internal and external factors on the corporate life cycle. Crisis and corporate default are	a natural phenome	enon in the			
economy. It is important for students to be prepared on such a possible development and to have the knowledge to eventually reverse the unfavourable corporate development						
Knowledge should be in economic as well as in legislative perspective. The course will be especially based on case studies and practical applications respecting current economic						
	reality and legal regulation.					

K63C1102	Statistical Analysis	Z,ZK	6		
K63C1301	Corporate Financial Management	Z,ZK	6		
The course provid	es a comprehensive view of long-term development of the company in terms of financial planning and management. It assumes a kn	owledge of financ	ial analysis		
and long-	erm financing options. The base is in a complex planning and predicting the future. A significant area is dedicated to all stages of the	investment proce	SS.		
K63C2201	Macroeconomic Theory	ZK	3		
K63C2301	Controlling	Z,ZK	6		
K63C2302	Financial Law	ZK	3		
K63C3201	Macroeconomic Theory	ZK	3		
K63C4401	Project of Information System	Z,ZK	6		
K65C0103	Public Relations	Z,ZK	3		
K66C0101	Reflections of Technical Innovations in Culture	ZK	3		
K77C0003	Transportation Engineering Projects	ZK	3		
K77C0004	Smart Cities Technologies	ZK	3		
The subject Technology for smart cities introduces students to the cross-cutting issues of smart cities, the preparation of the Smart City concept and its planning procedure and indicators.					
K77C0007	Communication Systems and Networks	ZK	3		
K77C0009	Information Security Management and Implementation	ZK	3		

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-08-16, time 18:58.