Study plan

Name of study plan: PRI kombinovaná forma od 21/22 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: PRM CK 1S 21/22 POV
Name of the group: Povinné předměty, kombinovaná forma, 1. semestr, 21/22, Process Management
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**	Z,ZK	6	20B		z
K16C1201	**Project Management**	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 1S 21/22 POV Name=Povinné předměty, kombinovaná forma, 1. semestr, 21/22, Process Management

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 21/22 POV
Name of the group: Povinné předměty, kombinovaná 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 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
K63C2302	**Financial Law**	ZK	3	12B		z
K63C2201	**Macroeconomic Theory**	ZK	3	24B	L	z
K16E2202	**Project Technology Management**	ZK	6	20B		z
K63C1102	**Statistical Analysis**	Z,ZK	6	32B		z

Characteristics of the courses of this group of Study Plan: Code=PRM CK 2S 21/22 POV Name=Povinné předměty, kombinovaná forma, 2. semestr, 21/22, Process Management

K63C2302	Financial Law	ZK	3
K63C2201	Macroeconomic Theory	ZK	3
K16E2202	Project Technology Management	ZK	6
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.			
K63C1102	Statistical Analysis	Z,ZK	6

Code of the group: PRM CK 3S 21/22 POV
Name of the group: Povinné předměty, kombinovaná forma, 3. semestr, 21/22, Process Management-kopie
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
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**	Z,ZK	6	20B		z
K16C3101	**Strategic Management**	Z,ZK	6	20B		z

Characteristics of the courses of this group of Study Plan: Code=PRM CK 3S 21/22 POV Name=Povinné předměty, kombinovaná forma, 3. semestr, 21/22, Process Management-kopie

K63C3201	Macroeconomic Theory	ZK	3
K00C3101	Diploma Thesis Project	Z	0
K16C3103	Decision Analysis	Z,ZK	6
K16C3102	Innovation Management and Innovation Project	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 21/22 POV
Name of the group: Povinné předměty, kombinovaná 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
K00C4102	**Diploma Thesis**	Z	12			z
K63C4401	**Project of Information System**	Z,ZK	6	20B	L	z

Characteristics of the courses of this group of Study Plan: Code=PRM CK 4S 21/22 POV Name=Povinné předměty, kombinovaná forma, 4. semestr, 21/22, Process Management

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

Name of the block: Povinné předměty zaměření
Minimal number of credits of the block: 18
The role of the block: PZ

Code of the group: PRM CK 21/22 SP
Name of the group: Předměty specializace, kombinovaná 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
K16E2302	**Business Process Management**	Z,ZK	6	20B	L	PZ
K16E1302	**Lean Manufacturing**	Z,ZK	6	20B		PZ
K16E3301	**Six Sigma**	ZK	3	10B		PZ
K16E0501	**Social Competences in Project and Process Management**	Z	3	12B		PZ

Characteristics of the courses of this group of Study Plan: Code=PRM CK 21/22 SP Name=Předměty specializace, kombinovaná forma, 21/22, Process Management

K16E2302	Business Process Management	Z,ZK	6
K16E1302	Lean Manufacturing	Z,ZK	6
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.			
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).			
K16E0501	Social Competences in Project and Process Management	Z	3
Social competencies, soft skills, typology, successful team 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: PVP CK 21/22 -PRM
Name of the group: Povinně volitelné předměty, kombinovaná forma, 21/22, Process Management
Requirement credits in the group: In this group you have to gain at least 12 credits (at most 21)
Requirement courses in the group:
Credits in the group: 12
Note on the group:

Code	Name of the course / Name of the group of courses *(in case of groups of courses the list of codes of their members)* *Tutors, **authors** and guarantors (gar.)*	Completion	Credits	Scope	Semester	Role
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
K65C0103	**Public Relations**	Z,ZK	3	12B		PV

Characteristics of the courses of this group of Study Plan: Code=PVP CK 21/22 -PRM Name=Povinně volitelné předměty, kombinovaná forma, 21/22, Process Management

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-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process.			
K16C0101	Balanced Scorecard	Z,ZK	6
K63C0301	Valuation of Firm and Projects	Z,ZK	6
K66C0101	Reflections of Technical Innovations in Culture	ZK	3
K65C0103	Public Relations	Z,ZK	3

Code of the group: PVT CK 21/22

Name of the group: Povinně volitelné technické předměty, kombinovaná forma,21/22, PRM i PJM
Requirement credits in the group: In this group you have to gain at least 9 credits (at most 15)
Requirement courses in the group: In this group you have to complete at least 3 courses (at most 5)
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
K77C0007	**Communication Systems and Networks**	ZK	3	12B		PV
K77C0003	**Transportation Engineering Projects**	ZK	3	12B		PV
K51C0401		Z	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=PVT CK 21/22 Name=Povinně volitelné technické předměty, kombinovaná forma,21/22, PRM i PJM

K77C0007	Communication Systems and Networks	ZK	3
K77C0003	Transportation Engineering Projects	ZK	3
K51C0401		Z	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 indicators.			
K77C0009	Information Security Management and Implementation	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 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.			
K16C3103	Decision Analysis	Z,ZK	6
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-functional team: Design Thinking, Lean Startup and Agile across teams. In the main part, it will offer the right tools and techniques for the design and implementation of Design Sprints, including a practical test of the entire process.			
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 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.			
K16E2202	Project Technology Management	ZK	6
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.			

K16E2302	Business Process Management	Z,ZK	6
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).			
K51C0401		Z	3
K63C0301	Valuation of Firm and Projects	Z,ZK	6
K63C1102	Statistical Analysis	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.			
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

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