

# Study plan

## Name of study plan: Projektové řízení inovací od 18/19 kombinované studium

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: PRI-CK OD18/19 POV

Name of the group: PRI-CK od 18/19 povinné p edm ty kombinovaná forma

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16C1302	Production Systems Design	Z,ZK	6	20B		z
K16C1201	Project Management <i>Petr Fanta</i>	Z,ZK	6	20B		z

Characteristics of the courses of this group of Study Plan: Code=PRI-CK OD18/19 POV Name=PRI-CK od 18/19 povinné p edm ty kombinovaná forma

K16C1302	Production Systems Design	Z,ZK	6
K16C1201	Project Management	Z,ZK	6

Code of the group: N-PRI-CK1.S.OD 18/19

Name of the group: PRI-CK 1. semestr od 18/19 kombinová forma povinné p edm ty

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 3 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K63C2301	Controlling	Z,ZK	6	20B		z
K16C1401	Innovation Marketing <i>Tomáš Sadílek Tomáš Sadílek Tomáš Sadílek (Gar.)</i>	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=N-PRI-CK1.S.OD 18/19 Name=PRI-CK 1. semestr od 18/19 kombinová forma povinné p edm ty

K63C2301	Controlling	Z,ZK	6
K16C1401	Innovation Marketing	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: N-PRI-CK 2S OD 18/19

Name of the group: 2. semestr PRI od 18/19 kombinované studium povinné p edm ty

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K63C2201	Macroeconomic Theory	ZK	3	24B	L	z
K77C2011	Industry 4.0	Z,ZK	3	12B		z
K63C1102	Statistical Analysis <i>Tomáš Löster Tomáš Löster Tomáš Löster (Gar.)</i>	Z,ZK	6	32B		z
K16C2501	HR Management Systems	Z,ZK	6	20B	L	z

Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK 2S OD 18/19 Name=2. semestr PRI od 18/19 kombinované studium povinné p edm ty

K63C2201	Macroeconomic Theory	ZK	3
K77C2011	Industry 4.0	Z,ZK	3
K63C1102	Statistical Analysis	Z,ZK	6
K16C2501	HR Management Systems	Z,ZK	6

Code of the group: N-PRI-CK 3.S.OD19/20

Name of the group: 3. semestr PRI kombinovaná forma 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) <i>Tutors, authors and guarantors (gar.)</i>	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 <i>Tomáš Sadílek</i>	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 3.S.OD19/20 Name=3. semestr PRI kombinovaná forma povinné p edm ty

K63C3201	Macroeconomic Theory	ZK	3
K00C3101	Diploma Thesis Project	Z	0
K16C3103	Decision Analysis	Z,ZK	6
K16C3102	Innovation Management and Innovation Project 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.	Z,ZK	6
K16C3101	Strategic Management	Z,ZK	6

Code of the group: N-PRI-CK 4S OD 19/20

Name of the group: 4. semestr kombinovaná forma povinné p edm ty

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) <i>Tutors, authors and guarantors (gar.)</i>	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=N-PRI-CK 4S OD 19/20 Name=4. semestr kombinovaná forma povinné p edm ty**

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

Name of the block: Povinné p edm ty zam ení

Minimal number of credits of the block: 12

The role of the block: PZ

Code of the group: N-PRI-CK2SOD18/19SP

Name of the group: N-PRI-CK 2. semestr od 18/19 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16E2302	Business Process Management	Z,ZK	6	20B	L	PZ
K16E2201	Modern Approaches in Project Management	Z,ZK	6	20B		PZ

**Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK2SOD18/19SP Name=N-PRI-CK 2. semestr od 18/19 p edm ty specializace**

K16E2302	Business Process Management	Z,ZK	6
K16E2201	Modern Approaches in Project Management	Z,ZK	6

Code of the group: N-PRI-CK 3S 19/20 SP

Name of the group: 3. semestr PRI kombinovaná forma p edm ty specializace

Requirement credits in the group: In this group you have to gain at least 3 credits (at most 6)

Requirement courses in the group: In this group you have to complete at least 1 course ( at most 2)

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16E0201	Agile Bootcamp	KZ	3	24B		PZ
K04E4201	Concept Note	Z	3	12B		PZ
K16E3301	Six Sigma	ZK	3	10B		PZ

**Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK 3S 19/20 SP Name=3. semestr PRI kombinovaná forma p edm ty specializace**

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.			
K04E4201	Concept Note	Z	3
The aim of the course is the acquisition of language skills, writing strategies and active vocabulary leading to students' ability to independently compose formally and stylistically appropriate texts in English language. The course focuses on practical application of the given phenomena in the field of project/concept note writing. Methodologically, the course relies on formal language analysis, systematic development of specialised vocabulary, competent use of relevant grammar, systematic practice of typical case-study situations, teamwork and giving feedback.			
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: N-PRI-CK 4SOD19/20SP

Name of the group: 4. semestr od 19/20 kombinovaná forma p edm ty specializace

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16E0501	<b>Social Competences in Project and Process Management</b> <i>Petr Fanta Petr Fanta Petr Fanta (Gar.)</i>	Z	3	12B		PZ

Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK 4SOD19/20SP Name=4. semestr od 19/20 kombinovaná forma p edm ty specializace

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: 27

The role of the block: PV

Code of the group: N-PRI-CK OD18/19 PVP

Name of the group: N-PRI-CK od 18/19 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16E0201	<b>Agile Bootcamp</b>	KZ	3	24B		PV
K16C0101	<b>Balanced Scorecard</b>	Z,ZK	6	20B		PV
K63C0301	<b>Valuation of Firm and Projects</b>	Z,ZK	6	20B		PV
K66C0101	<b>Reflections of Technical Innovations in Culture</b>	ZK	3	12B		PV
K63C0302	<b>Corporate Crisis</b> <i>Tomáš Sadílek</i>	Z,ZK	3	12B		PV
K65C0103	<b>Public Relations</b>	Z,ZK	3	12B		PV

Characteristics of the courses of this group of Study Plan: Code=N-PRI-CK OD18/19 PVP Name=N-PRI-CK od 18/19 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-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
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 are a natural phenomenon 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.			
K65C0103	Public Relations	Z,ZK	3

Code of the group: N-PRI-CK OD18/19 PVT

Name of the group: N-PRI-CK od 18/19 povinn volitelné technické p edm ty

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

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

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K77C0001	Technology Assessment	ZK	3			PV
K77C0007	Communication Systems and Networks	ZK	3	12B		PV
K66C0101	Reflections of Technical Innovations in Culture	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
K77C0002	Sustainable Development and the Construction Industry	ZK	3			PV
K77C0005		ZK	6	20B		PV
K77C0006		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=N-PRI-CK OD18/19 PVT Name=N-PRI-CK od 18/19 povinn volitelné technické p edm ty

K66C0101	Reflections of Technical Innovations in Culture	ZK	3
K77C0001	Technology Assessment	ZK	3
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 indicators.			
K77C0002	Sustainable Development and the Construction Industry	ZK	3
K77C0005		ZK	6
K77C0006		ZK	3
K77C0009	Information Security Management and Implementation	ZK	3

Code of the group: PRI-CK1.S.OD18/19 SP

Name of the group: PRI-Ck 1. semestr od 18/19 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
K16E1302	Lean Manufacturing	Z,ZK	6	20B		PV
K16E1201	Standards of Project Management <i>Petr Fanta</i>	Z,ZK	6	20B		PV

Characteristics of the courses of this group of Study Plan: Code=PRI-CK1.S.OD18/19 SP Name=PRI-Ck 1. semestr od 18/19 p edm ty specializace

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.			
K16E1201	Standards of Project Management	Z,ZK	6
The subject acquaints students with good experience in the field of standards of project management After completing the course, students will be prepared to pass the international professional examinations.			

### List of courses of this pass:

Code	Name of the course	Completion	Credits
K00C3101	Diploma Thesis Project	Z	0
K00C4102	Diploma Thesis	Z	12

K04E4201	Concept Note	Z	3
The aim of the course is the acquisition of language skills, writing strategies and active vocabulary leading to students' ability to independently compose formally and stylistically appropriate texts in English language. The course focuses on practical application of the given phenomena in the field of project/concept note writing. Methodologically, the course relies on formal language analysis, systematic development of specialised vocabulary, competent use of relevant grammar, systematic practice of typical case-study situations, teamwork and giving feedback.			
K16C0101	Balanced Scorecard	Z,ZK	6
K16C0601	Technology Forecasting	Z,ZK	3
K16C1201	Project Management	Z,ZK	6
K16C1302	Production Systems Design	Z,ZK	6
K16C1401	Innovation Marketing	Z,ZK	6
K16C2501	HR Management Systems	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			
K16E1201	Standards of Project Management	Z,ZK	6
The subject acquaints students with good experience in the field of standards of project management After completing the course, students will be prepared to pass the international professional examinations.			
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.			
K16E2201	Modern Approaches in Project Management	Z,ZK	6
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).			
K63C0301	Valuation of Firm and Projects	Z,ZK	6
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 are a natural phenomenon 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 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
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
K77C0001	Technology Assessment	ZK	3
K77C0002	Sustainable Development and the Construction Industry	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.			
K77C0005		ZK	6
K77C0006		ZK	3
K77C0007	Communication Systems and Networks	ZK	3
K77C0009	Information Security Management and Implementation	ZK	3
K77C2011	Industry 4.0	Z,ZK	3

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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