

## Study plan

### Name of study plan: PRI kombinovaná forma od 19/20 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 19/20 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<br>(in case of groups of courses the list of codes of their members)<br>Tutors, <b>authors</b> and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K63C2301 | <b>Controlling</b><br>Arnošt Klesla <b>Arnošt Klesla</b>   | Z,ZK       | 6       | 20B   |          | z    |
| K16C1401 | <b>Innovation Marketing</b><br>Tomáš Sadílek, Petra Jílková <b>Tomáš Sadílek</b>   | Z,ZK       | 6       | 20B   |          | z    |
| K16C1201 | <b>Project Management</b><br>Petr Fanta <b>Petr Fanta</b>  | Z,ZK       | 6       | 20B   |          | z    |
| K63C1301 | <b>Corporate Financial Management</b><br>Arnošt Klesla <b>Arnošt Klesla</b>  | Z,ZK       | 6       | 20B   |          | z    |

Characteristics of the courses of this group of Study Plan: Code=PRM CK 19/20 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 19/20

Name of the group: 2.s. kombinované studium povinné p edm ty od 19/20

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<br>(in case of groups of courses the list of codes of their members)<br>Tutors, <b>authors</b> and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K63C2201 | <b>Macroeconomic Theory</b><br>František Hrbík   | ZK         | 3       | 24B   | L        | z    |
| K00C3101 | <b>Diploma Thesis Project</b>  | Z          | 0       | 2B    |          | z    |

|          |   |      |   |     |   |   |
|----------|---|------|---|-----|---|---|
| K77C2011 | <b>Industry 4.0</b>   | Z,ZK | 3 | 12B |   | z |
| K63C1102 | <b>Statistical Analysis</b><br><i>Tomáš Löster Tomáš Löster</i> | Z,ZK | 6 | 32B |   | z |
| K16C2501 | <b>HR Management Systems</b>                                    | Z,ZK | 6 | 20B | L | z |

**Characteristics of the courses of this group of Study Plan: Code=PRM CK 2S POV 19/20 Name=2.s. kombinované studium povinné p edm ty od 19/20**

|          |                        |      |   |
|----------|------------------------|------|---|
| K63C2201 | Macroeconomic Theory   | ZK   | 3 |
| K00C3101 | Diploma Thesis Project | Z    | 0 |
| 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K63C3201 | <b>Macroeconomic Theory</b>  | ZK         | 3       | 24B   |          | z    |
| K00C3101 | <b>Diploma Thesis Project</b>  | Z          | 0       | 2B    |          | z    |
| K16C3103 | <b>Decision Analysis</b>   | Z,ZK       | 6       | 20B   | Z        | z    |
| K16C3102 | <b>Innovation Management and Innovation Project</b><br><i>Tomáš Sadílek</i>  | Z,ZK       | 6       | 20B   |          | z    |
| K16C3101 | <b>Strategic Management</b>  | 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**

|          |  |      |   |
|----------|--|------|---|
| K00C3101 | Diploma Thesis Project   | Z    | 0 |
| K63C3201 | Macroeconomic Theory   | ZK   | 3 |
| K16C3103 | Decision Analysis  | Z,ZK | 6 |
| K16C3102 | Innovation Management and Innovation Project<br>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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K00C4102 | <b>Diploma Thesis</b>  | Z          | 12      |       |          | z    |
| K63C4401 | <b>Project of Information System</b>   | 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: 18

The role of the block: PZ

Code of the group: PRM CK 19/20 3S SP

Name of the group: N-PRI-CK 3. semestr od 19/20 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K16E3301 | Six Sigma  | ZK         | 3       | 10B   |          | PZ   |

Characteristics of the courses of this group of Study Plan: Code=PRM CK 19/20 3S SP Name=N-PRI-CK 3. semestr od 19/20 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 19/20 4S SP

Name of the group: N-PRI-CK 4. semestr od 19/20 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| 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 19/20 4S SP Name=N-PRI-CK 4. semestr od 19/20 p edm ty specializace Process Management

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

Code of the group: PRM CK 19/20 1S SP

Name of the group: PRI kombinovaná forma od 19/20 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | Completion | Credits | Scope | Semester | Role |
|----------|--|------------|---------|-------|----------|------|
| K16E1302 | Lean Manufacturing<br><i>Marek Jemala Marek Jemala</i>   | Z,ZK       | 6       | 20B   |          | PZ   |

Characteristics of the courses of this group of Study Plan: Code=PRM CK 19/20 1S SP Name=PRI kombinovaná forma od 19/20 1.s. specializace Process Management 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. |                    |      |   |

Code of the group: PRM CK19/20 2S SP

Name of the group: PRI kombinovaná forma od 19/20 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | 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 CK19/20 2S SP Name=PRI kombinovaná forma od 19/20 2.s. specializace Process Management p edm ty specializace

|          |                             |      |   |
|----------|-----------------------------|------|---|
| K16E2302 | Business Process Management | Z,ZK | 6 |
|----------|-----------------------------|------|---|

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 19/20 PVT

Name of the group: PRI kombinovaná forma povinn volitelné technické p edm ty od 19/20

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 group:

| Code     | Name of the course / Name of the group of courses<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | 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   |
| 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=PRM CK 19/20 PVT Name=PRI kombinovaná forma povinn volitelné technické p edm ty od 19/20

|   |  |      |   |
|---|--|------|---|
| 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. |  |      |   |
| K77C0005  |  | ZK   | 6 |
| K77C0006  |  | ZK   | 3 |
| K77C0009  | Information Security Management and Implementation | ZK   | 3 |

Code of the group: PRM CK 19/20 PVP

Name of the group: PRI-PRM kombinovaná forma od 19/20 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<br>(in case of groups of courses the list of codes of their members)<br><i>Tutors, authors and guarantors (gar.)</i> | 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<br><i>Tomáš Sadílek</i>        | 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 19/20 PVP Name=PRI-PRM kombinovaná forma od 19/20 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 |

### 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       |
| 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<br>Social competencies, soft skills, typology, successful team management | Z          | 3       |
| 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. |  |            |         |
| 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 |
| 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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