

Study plan

Name of study plan: Innovation Project Management od 2019/20

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: 36

Elective courses credits: 84

Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses

Minimal number of credits of the block: 30

The role of the block: Z

Code of the group: N0413A -POV-2SEM

Name of the group: Povinné předměty - Innovation Project Management 1ročník 2.semestr

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 0

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
G63E2302	Controlling	Z,ZK	6	2P+2C		Z
G16E2501	HR Management Systems	Z,ZK	6	2P+2C		Z
G77E2011	Industry 4.0	ZK	3	2P+0C		Z
G63E2201	Microeconomic Theory	ZK	3	2P+0C		Z

Characteristics of the courses of this group of Study Plan: Code=N0413A -POV-2SEM Name=Povinné předměty - Innovation Project Management 1ročník 2.semestr

G63E2302	Controlling	Z,ZK	6		
The aim of the course is to explain the substance of controller's work - application of management control systems into business corporation (incl. tools like cost allocations, budgeting, standard costing, cost accounting and balanced scorecard).					
G16E2501	HR Management Systems	Z,ZK	6		
The course is focused on the development of managerial skills in managing human resources in the organization. Through lectures and seminars, students will learn effective strategies, policies, and practices for efficient human resource management in the organization and the main tasks of managers in various activities of human resource management in the organization.					
G77E2011	Industry 4.0	ZK	3		
1. Visions of Industry 4.0 2. Virtualization and System Integration of Manufacturing Facilities 3. Knowledge representation of Manufacturing Systems by Multi-Agent and Autonomous Systems 4. Ontological Knowledge 5. Analytical Methods and Big-Data Systems 6. Implementation Architectures for Industry 4.0 Systems 7. Modelling Methods 8. Simulations for Design and Rump-up of Industry 4.0 Systems 9. Modular SCADA Systems 10. Virtual and Augmented Reality Systems 11. Typical Projects of Industry 4.0 12. Typical of Industry 4.0 13. Testbeds and Their Implementation 14. Impacts of Industry 4.0					
G63E2201	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.					

Code of the group: 1.S.IPM OD 19/20

Name of the group: 1. semestr Innovation Project Management nástup 2019/20

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 5 courses

Credits in the group: 30

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
G63E1301	Corporate Financial Management	Z,ZK	6	2P+2C		Z
G16E1302	Lean Manufacturing	Z,ZK	6	2P+2C		Z
G16E1401	Marketing Innovations	Z,ZK	6	2P+2C	Z	Z
G16E1201	Standards of Project Management	Z,ZK	6	2P+2C		Z
G63E1102	Statistical Analysis	Z,ZK	6	2P+2C		Z

Characteristics of the courses of this group of Study Plan: Code=1.S.IPM OD 19/20 Name=1. semestr Innovation Project Management nástup 2019/20

G63E1301	Corporate Financial Management			Z,ZK		6
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 zápočet, ZK zkouška (preliminary test and exam). This is composed by a theoretical instruction and a practical development. Heavily supported by Excel functions and formulas.						
G16E1302	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.						
G16E1401	Marketing Innovations			Z,ZK		6
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.						
G16E1201	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.						
G63E1102	Statistical Analysis			Z,ZK		6
Introduction to intermediate statistical methods. The course follows up on introductory statistic. Knowledge of basic statistical and probabilistic concepts is therefore expected.						

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 6

The role of the block: PV

Code of the group: N0413A -VOL-2SEM

Name of the group: Volitelné předměty - Innovation Project Management 1ročník 2.semestr

Requirement credits in the group: In this group you have to gain at least 6 credits (at most 12)

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

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
G16E2302	Business Process Management	Z,ZK	6	2P+2C		PV
G63E2301	Financial Markets and Risk Management	Z,ZK	6	2P+2C	L	PV
G16E2303	Supply Chain and Logistics Execution: Sourcing and Customer Services	Z,ZK	6	2P+2C		PV
G16E2304	Supply Chain and Logistics Execution: Transportation and Warehousing	Z,ZK	6	2P+2C		PV

Characteristics of the courses of this group of Study Plan: Code=N0413A -VOL-2SEM Name=Volitelné předměty - Innovation Project Management 1ročník 2.semestr

G16E2302	Business Process Management			Z,ZK		6
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G63E2301	Financial Markets and Risk Management	Z,ZK	6
The analysis of the management of financial risk recently tends towards strategies for hedging the portfolio, and for designing an investment strategy based on diversification. The course spans broad sections implementing the principles of variable income and fixed income. The Financial Models evolved rapidly from the inception of the Modern Theory of Portfolio. The original Mean - Variance analysis, the CAPM, The Black-Litterman model, the disruptive framework implicit in the Black Scholes model for pricing options and the Bob Merton's contribution, all of them represent theoretical breakthroughs in the field of finance. When tackling this study, solid statistical basis and advanced skills in Excel are required. The analysis of risk relies on Many of the models based on important benchmarks rooted in Mertons options theoretic approach and explains default in structural terms related to the market value of the firms assets as compared to its debt obligations. Other model statistically decomposes observed risky debt prices into default risk premiums. The set of models pretends to measure the credit risk of a loan or a portfolio of loans. In this vein, the curse pursuits to simplify the technical details and analytics surrounding these models, while concentrating on their underlying economics and economic intuition. They learn to use market instruments and market analyses to design efficient investment and hedging strategies and methods for the company capital management hurled to financial markets.			
G16E2303	Supply Chain and Logistics Execution: Sourcing and Customer Services	Z,ZK	6
We will cover 13 topics and explore the fascinating job of modern buyers: creating and implementing strategies, dealing with suppliers and internal customers, solving unexpected problems, managing projects, resolving conflicts and negotiating.			
G16E2304	Supply Chain and Logistics Execution: Transportation and Warehousing	Z,ZK	6

List of courses of this pass:

Code	Name of the course	Completion	Credits
G16E1201	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.			
G16E1302	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.			
G16E1401	Marketing Innovations	Z,ZK	6
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.			
G16E2302	Business Process Management	Z,ZK	6
G16E2303	Supply Chain and Logistics Execution: Sourcing and Customer Services	Z,ZK	6
We will cover 13 topics and explore the fascinating job of modern buyers: creating and implementing strategies, dealing with suppliers and internal customers, solving unexpected problems, managing projects, resolving conflicts and negotiating.			
G16E2304	Supply Chain and Logistics Execution: Transportation and Warehousing	Z,ZK	6
G16E2501	HR Management Systems	Z,ZK	6
The course is focused on the development of managerial skills in managing human resources in the organization. Through lectures and seminars, students will learn effective strategies, policies, and practices for efficient human resource management in the organization and the main tasks of managers in various activities of human resource management in the organization.			
G63E1102	Statistical Analysis	Z,ZK	6
Introduction to intermediate statistical methods. The course follows up on introductory statistic. Knowledge of basic statistical and probabilistic concepts is therefore expected.			
G63E1301	Corporate Financial Management	Z,ZK	6
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 zápočet, ZK zkouška (preliminary test and exam). This is composed by a theoretical instruction and a practical development. Heavily supported by Excel functions and formulas.			
G63E2201	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.			
G63E2301	Financial Markets and Risk Management	Z,ZK	6
The analysis of the management of financial risk recently tends towards strategies for hedging the portfolio, and for designing an investment strategy based on diversification. The course spans broad sections implementing the principles of variable income and fixed income. The Financial Models evolved rapidly from the inception of the Modern Theory of Portfolio. The original Mean - Variance analysis, the CAPM, The Black-Litterman model, the disruptive framework implicit in the Black Scholes model for pricing options and the Bob Merton's contribution, all of them represent theoretical breakthroughs in the field of finance. When tackling this study, solid statistical basis and advanced skills in Excel are required. The analysis of risk relies on Many of the models based on important benchmarks rooted in Mertons options theoretic approach and explains default in structural terms related to the market value of the firms assets as compared to its debt obligations. Other model statistically decomposes observed risky debt prices into default risk premiums. The set of models pretends to measure the credit risk of a loan or a portfolio of loans. In this vein, the curse pursuits to simplify the technical details and analytics surrounding these models, while concentrating on their underlying economics and economic intuition. They learn to use market instruments and market analyses to design efficient investment and hedging strategies and methods for the company capital management hurled to financial markets.			
G63E2302	Controlling	Z,ZK	6
The aim of the course is to explain the substance of controller's work - application of management control systems into business corporation (incl. tools like cost allocations, budgeting, standard costing, cost accounting and balanced scorecard).			
G77E2011	Industry 4.0	ZK	3
1. Visions of Industry 4.0 2. Virtualization and System Integration of Manufacturing Facilities 3. Knowledge representation of Manufacturing Systems by Multi-Agent and Autonomous Systems 4. Ontological Knowledge 5. Analytical Methods and Big-Data Systems 6. Implementation Architectures for Industry 4.0 Systems 7. Modelling Methods 8. Simulations for			

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

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