Study plan

Name of study plan: obor Projektový management a inženýring

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Civil Engineering Type of study: Follow-up master full-time

Required credits: 90
Elective courses credits: 0
Sum of credits in the plan: 90

Note on the plan: tento studijní plán platí do nástupu 2022/23

Name of the block: Compulsory courses Minimal number of credits of the block: 86

BIM - Information modeling

The role of the block: Z

Code of the group: NP20170100

Name of the group: obor Projektový management a inženýring, 1. semestr 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 at least 6 courses

Credits in the group: 30

Note on the group:

126BIMB

administration.

126PLCO místo 126INGZ

Z.ZK

4

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
126BIMB	BIM - Information modeling Petr Mat jka, Josef Žák Petr Mat jka Petr Mat jka (Gar.)	Z,ZK	4	1P+3C	Z	Z
126FIMA	Financial Management Aleš Tomek, Radan Tomek Aleš Tomek (Gar.)	Z,ZK	5	2P+2C	Z	Z
126MJKP	Quality and Risk Management Vilém Berka Petr Dlask	ZK	4	3P	Z	Z
1260CNE	Property Appraisal Renáta Schneiderová Heralová Renáta Schneiderová Heralová Renáta Schneiderová Heralová (Gar.)	Z,ZK	5	2P+2C	Z	Z
126PLCO	Construction economics (prices, costs, costing) Renáta Schneiderová Heralová Renáta Schneiderová Heralová Renáta Schneiderová Heralová (Gar.)	Z,ZK	5	1P+3C	Z	Z
126PM01	Project Management 1 Michal Vondruška Michal Vondruška (Gar.)	Z,ZK	7	3P+3C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=NP20170100 Name=obor Projektový management a inženýring, 1. semestr

1200	Divi intermation medeling	-, `	
Subject deals with Build	ing Information Modeling (BIM) topic as with the modern tool for management and operation of construction projects. It is ori	ented to handling	basic relevant
software (Autodesk Rev	rit, Autodesk Navisworks) and especially to understanding meaning of BIM in current construction business and its future and	l importance in sp	ecific phases of
construction projects.			
126FIMA	Financial Management	Z,ZK	5
Advanced course in the	financial management of a construction company - links to project finance and the system of intra-company economic managei	ment (centres). Co	orporate budgets
as a tool for implementi	ng the company's strategy. Liquidity management of a construction company - working capital management and cashflow for	ecast. Financial a	nalysis and its
application in a constru	ction company. Financial controlling of the company and its functions. Valuation of construction companies. Corporate financi	al policies - optim	al mix of debt
and equity, financing of	new projects, dividend policy. The EVA method. Project finance and its application in BOT projects. Financing of standard cou	ntract projects (do	mestic and
international).			
126MJKP	Quality and Risk Management	ZK	4
The course offers a bas	ic orientation in terminology and normative documents related to the issue of quality management and risk management. Th	e problem is appli	ied to practical
examples solved within	the extended knowledge of office applications. More the course provides extended practical skills for working with data in cur	rrent office tools.	
126OCNE	Property Appraisal	Z,ZK	5

Basic terms from the property appraisal area. Property appraisal methods, purpose and utilization, appraisal theory. Cost method, method of comparison, method of returns. Market value analysis - methods of final analysis of market value. Administrative price of real estates, property appraisal in banking, insurance industry, in business activities, in property

126PLCO Construction economics (prices, costs, costing) Z,ZK 5
Planning and controlling with a focus on project controlling, getting acquainted with modern tools and managerial decision-making techniques that enable efficient management of the

construction company and independent solution of tasks on real projects using modern management tools (SW for cost, time and resource management).

The subject is focused on important decision-making processes and management processes in the preparation and implementation of construction from the perspective of the owner of the construction project. The goal is to analyze the appropriateness of developer acquisition, project activity, legislative preparation, permitting processes, choice of supplier system, choice of supplier evaluation method, choice of contract form. The main attention will be paid to the comparison of the traditional construction delivery method (Design Bid Build) with current alternative delivery systems (Design Build, Integrated Project Delivery, Construction Management). The teaching is supplemented by a number of case studies.

Code of the group: NP20170200

Project Management 1

Name of the group: obor Projektový management a inženýring, 2. semestr Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 26

Note on the group:

126PM01

126INGZ místo 126PLCO, úpravy kreditů

Z,ZK

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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
101MMR	Mathematical Methods of Controlling Martin Hála, Jozef Bobok Martin Hála Jozef Bobok (Gar.)	Z,ZK	3	2P+1C	L	Z
126FAMG	Facility Management Daniel Macek Daniel Macek (Gar.)	Z,ZK	4	1P+3C	L	Z
126KIST	Calculation of Transport Infrastructure Josef Žák, Stanislav Vitásek, Iveta St elcová Iveta St elcová (Gar.)	Z,ZK	5	2P+2C	L	Z
126INZG	Engineering Dana M š anová, Václav Tatýrek Václav Tatýrek Dana M š anová (Gar.)	Z,ZK	5	2P+2C	Z,L	Z
126PM2	Project Management 2 Michal Vondruška Michal Vondruška (Gar.)	Z,ZK	5	3P+1C	L	Z
126DISP	Diploma Seminar Petr Mat jka, Aleš Tomek, Radan Tomek, Martin ásenský, Renáta Schneiderová Heralová, Michal Vondruška, Daniel Macek, Dana M š anová, Václav Tatýrek, Eduard Hromada	Z	4	3C	L	Z

Characteristics of the courses of this group of Study Plan: Code=NP20170200 Name=obor Projektový management a inženýring, 2. semestr

101MMR Mathematical Methods of Controlling Z,ZK 3
Within the course some chapters on probability theory and selected statistical methods are explained. The material presented is illustrated with examples focusing on economic applications and applications in theory of controlling. Excel and the freely available statistical software Jamovi are used to solve the examples.

126FAMG Facility Management Z,ZK

The aim of the course is to understand the issue of integrated facility management in the context of the currently valid standards SN EN 15221 and SN EN ISO 41001 - Facility management. Students will become familiar with the principles of efficient building operation, including the provision of support activities in the form of in-house and outsourcing. As part of the life cycle of buildings, they solve the issue of operating costs, including maintenance and renewal planning, where they use the Buildpass application. Students will learn to work with the ARCHIBUS CAFM system, from linking the BIM model from the Revit application to solving practical tasks in building management and operation.

126KIST Calculation of Transport Infrastructure Z,ZK 5

Deepening of knowledge in the field of transport constructions (roads, bridges, culverts and retaining walls) both in terms of valuation and preparation of constructions (prices, cost calculation, construction site equipment) and in terms of technology.

126INZG Engineering Z,ZK 5

Conceptual and operational management of development projects from perspective of time, resources, cost, analysis of resources, solution design, external examination, investment opportunities study, feasibility study, interest optimization, technological, legal, financial resources, price determination, commercial contractual law, engineering contracts specimens, VOB (Verdingungsordnung für Bauleistungen) delivery conditions used by german investors - FIDIC contractual terms used in international construction practice, contractual determination of performance and quality parameters, contractual sanctions, time realistic plans, territorial, constructional governance, law no. 183/2006 Sb. fulfilment, construction order assignment, investment engineering, supplier engineering, suppliers coordination, financial management, capacity management, quality control, technological regulations, handover proceedings plan, test run operation, parameters fulfilment assessment, construction maintenance planning, marketing, building changes prior completion, building handover and acceptance, handover documentation, performance audit, decision processes and methods, invested energy. BIM. Documentation rules. Insolvency, Social responsibility in construction firms, RIPRAN method.

126PM2 Project Management 2 Z,ZK 5

The teaching of the subject Project management 2 is focused on the acquisition of project management methods in the implementation of large-scale technological constructions and constructions of transport infrastructure. The curriculum is based on the classical theory of project management according to the PMBOK (Project Management Body of Knowledge) and its application to the construction project management manuals of major construction companies (Best Practice). Detailed attention is paid to the main processes of project management (scope, time, cost, quality, human resources, risk and procurement management). The procedural management of construction projects is supplemented by the current issue of claims management and crisis management of construction projects.

126DISP Diploma Seminar Z 4

At the beginning of the semester, each student contacts the supervisor from the Department of Construction Management and Economics (the list of framework topics is published in the KOS information system). In cooperation with the work supervisor, the topic of work from the field of construction and economics is specified. The project deals with problems mainly from construction practice. The project is a preparation for own diploma thesis. The output of the project is the assignment of the topic of the diploma thesis, preparation of the thesis outline, search and study of literature, research and detailed familiarization with the solved problem. The student studies the methodological instructions of the CTU in Prague on how to write university final theses - see http://knihovna.cvut.cz/cs/seminare-a-vyuka/jak-psat/jak-psat-zaverecnou-praci.

Code of the group: NP20160300

Name of the group: obor Projektový management a inženýring, diplomová práce

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 at least 1 course

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
126DPM	Diploma Thesis Petr Mat jka, Josef Žák, Robert Bouška, Aleš Tomek, Radan Tomek, Martin ásenský, Renáta Schneiderová Heralová, Michal Vondruška, Daniel Macek, Eduard Hromada Václav Tatýrek (Gar.)	Z	30	24C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=NP20160300 Name=obor Projektový management a inženýring, diplomová práce

126DPM Diploma Thesis Z 30

In his/her diploma thesis a student deals with topics from civil engineering and construction, economic and management. He/she solves problems both from operational practice and from research and development. A thesis contains a text part, drawings and possibly documentation. In the project conclusion a student will highlight his/her own contribution to the assigned topic. A thesis links to diploma project and augments knowledge gained of it. The student continuously consults the work with the supervisor, when he submits the individual parts in progress.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 4

The role of the block: S

Code of the group: NP20160200_1

Name of the group: obor Projektový management a inženýring, povinn volitelné p edm ty

Requirement credits in the group: In this group you have to gain 4 credits

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

Credits in the group: 4 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
126YBM	Safety Management Petr Dlask	Z,ZK	4	2P+2C	L	S
126YCEM	Construction Economics and Management Aleš Tomek, Radan Tomek Aleš Tomek Aleš Tomek (Gar.)	Z,ZK	4	2P+2C	L	S
126YCON	Construction Contracting Aleš Tomek, Radan Tomek Aleš Tomek	Z,ZK	4	4P	L	S
126YEMB	Energy Management Ji í Karásek Ji í Karásek Ji í Karásek (Gar.)	Z,ZK	4	2P+2C	L	S

Characteristics of the courses of this group of Study Plan: Code=NP20160200_1 Name=obor Projektový management a inženýring, povinn volitelné p edm ty

126 Y BIVI	Safety Management	Z,ZK	4
Basic presumption of su	ccessfull manager's career is the knowledge of safety management. The student receives structural information and theoretical o	overview of the safe	ety management
system according to the	international standards and validated methods.		
126YCEM	Construction Economics and Management	Z,ZK	4
A 7 (

A-Z of construction engineering and management both at the corporate and project level. All participants, processes and aspects of the construction industry are introduced. Course concentrates on all major topics of company and project management, e.g. business development and marketing, bidding, planning and controlling of all vital processes, financial management, cost control, risk management, etc. Lectures are based on the real practice experience of all course's lecturers and various case studies are studied and solved. Online Building Industry Game (BIG) will be played by all course participants through the whole semester (a computer simulation of a realistic business environment where participants play the role of contractors, competing in a market with variable demand for construction work). In this online game, developed and directly operated by the California Polytechnic State

the role of contractors, competing in a market with variable demand for construction work). In this online game, developed and directly operated by the California Polytechnic State University, students act as contractors, managing both, their companies and projects.

126YCON Construction Contracting Z,ZK 4

As every project manager in construction business has to be a contract manager at the same time, understanding the contract - respectively contracting in general - is a must. Course of Construction Contracting is oriented on current business practices and methods, management techniques and understanding general legal principles, codes and regulations. It is about doing business in construction using standard procurement systems and applying given types of contracts, respectively standard contracts (e.g. FIDIC). Lectures are based on the real practice experience of both course's lecturers and various case studies are studied and solved in the course.

126YEMB Energy Management Z,ZK 4

The course on energy management covers the issues of management in general, energy management, energy systems, and energy efficiency in the European legislation framework. The main target of the course is to explain basic principles and future changes in the construction industry, specifically in the field of energy efficiency economics. The students will increase their knowledge about strategies towards sustainable energy in buildings and mainly about energy efficiency. A specific part of the course is dedicated to the evaluation of energy efficiency measures, supporting schemes for energy efficiency, tackling energy poverty, multi-criterial evaluation of projects, LCA (live cycle assessment) and LCC (life cycle cost), moreover the students receive overview of the cost optimum calculation.

List of courses of this pass:

101MMR Mathematical Methods of Controlling Within the occurse some chapters on probability theory and solicide statistical entire of the material presented is illustrated with examples course or or or or applications and applications and applications in theory of controlling. Excel and the freely evaluable statistical strokens Janová as used to solve the examples. 126BIMS IMM Information Method in Methods (IMM) (IMM) (applications in Method (IMM) (IMM		Name of the course	Completion	Credits
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L26BIMB Subject dates with Bullsing Information Modeling (BBM) topic as with the modern tool for management and operation of construction projects. It is oriented to handing basic reviews and the Audicides Revit, Autoclesk Newtexorks) and especially to understanding meaning of BIM in current construction business and its future and importance in specific phases of construction projects. 126BISP Diploma Seminar A the beginning of the semester, each student contacts the supervisor from the Department of Construction Management and Economics (the list of Teamwork topics) is published in the KOSI information system). In cognitation with the work supervisor, the topic of work from the Padro discussion and contacts is specified. The project deside with problems make the contact of the COSI information in the COSI information and contacts is specified. The project deside with problems make the contact and subject of the projects in the properation of the PADRO information and contacts and the COSI information and contacts and the COSI information and the COSI i	Within the cour			conomic
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Diploma Thesis Diploma Thesis Diploma Thesis Diploma Thesis Diploma Thesis a student deals with topics from civil engineering and construction, economic and management. He/she solves problems both from greasers and development. A thesis contains a text part, drawings and possibly documentation. In the project conclusion a student will highlight his/her own contribution to the assigned topic. A thesis links to diploma project and augments knowledge ganned of it. The sutdent continuously consults the work with the supervisor, when he submits the individual parts is progress. 126FAMG	ouiii.io, ooui oii uiii	·	0. 1 0 1	940 0
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assigned topic. A thesis links to diploma project and augments knowledge gained of it. The student continuously consults the work with the supervisor, when he submits the individual parts in progress. 126FAMC Facility Management The aim of the course is to understand the issue of integrated facility management in the course is to understand the issue of integrated facility management in the course is to understand the issue of integrated facility management in the control of the currently valid standards. SN EN 15221 and SN EN 180 A1011 - Facility Management The aim of the course is to understand the issue of operating costs, including manigement of support activities in the form of in house and outsourcing. As part of the file cycle of buildings they solve the issue of operating costs, including manigement of a construction work with the ARCHIEUS CAFM system, from linksing the SIM model from the Revit application is solving practical tasks in building management and operation. 126FIMA Financial Management Financial Management Financial Management Financial Management of a construction company is the company of the control of the individual properties of the financial management of a construction company and its functions. Avalation of construction company extends to project finance and the system of intra-company economic management certain solving the company and its functions. Avalation of construction companies is construction companies. Primancial control management and cashiftow forecast. Financial analysis and its application in a construction companies. Primancial control internations of the standard contract projects (formestic and international). 126INZG Conceptual and operational management of development projects from perspective of time, resources, cost, analysis of resources, solution design, external examination, investment opportunities study, financing of the primary study, interest optimization, technological, legal, financial resources, price determination of performance and quality parame	_	·	_	
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126FAMG Facility Management Care The aim of the course is to understand the issue of integrated facility management in the context of the currently valid standards SN EN 15221 and SN EN ISO 41001 - Facility management. Students will become familiar with the principles of efficient building operation, including the provision of support activities in the form of in-house and outsourcing. As part of the life cycle of buildings, they solve the issue of operating costs, including manierance and reversel planning, where they use the Buildingss application. Students will learn to work with the ARCHBUS CAFM systems, from linking the BIM model from the Newt application is obting practical tables in building management and operation. 126FIMA Financial Management Financial Management Financial Management Financial management of a construction company - working capital management and cashflow forecast. Financial analysis and its application in so onstruction company - strength is provided from the Newton of International provided in the Care Financial analysis and its application in so onstruction company. Financial controlling of the company and is functions, valuation of construction companies, provided from the provided in the provi	assigned topic. A t	nesis links to diploma project and augments knowledge gained of it. The student continuously consults the work with the supervisor, w	hen he submits th	e individua
The aim of the course is to understand the issue of integrated facility management in the context of the currently valid standards. SN EN ISQ 41001 - Facility managements (understand the life cycle of buildings, they solve the issue of operating costs, including maintenance and renewal planning, where they use the Buildings applications. Students will learn to work with the ARCHIBUS CAFM system, from linking the BIM model from the Revit application to solving practical tasks in building management and operation. 126FIMA Financial Management Financial management of a construction company - Initials to project finance and the system of intra-company economic management (centres). Corporate behavior as a tool for implementing the company's strategy, Liquidity management of a construction company - working capital management and cashiftor broreast. Financial analysis and its application in a construction company Financial controlling of the company and its functions. Valuation of construction companies. Corporate financial policies - optimal mix of death application in a Construction company Financial controlling of the company and its functions. Valuation of construction companies. Corporate infancial policies - optimal mix of death international controlling of the company and its functions. Valuation of construction companies. Corporate infancial policies - optimal mix of death international controlling of the company and its functions. Valuation of construction companies. Corporate infancial policies - optimal mix of death international controlling of the company and its functions. Valuation of construction companies. Corporate infancial policies - optimal mix of death international controlling of standard contract projects (controlling of the company and its functions.) Valuation of construction companies. Corporate business of the company of the		parts in progress.		
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126YBM Safety Management Z,ZK 4

Basic presumption of successfull manager's career is the knowledge of safety management. The student receives structural information and theoretical overview of the safety management system according to the international standards and validated methods.

126YCEM Construction Economics and Management Z,ZK 4

A-Z of construction engineering and management both at the corporate and project level. All participants, processes and aspects of the construction industry are introduced. Course concentrates on all major topics of company and project management, e.g. business development and marketing, bidding, planning and controlling of all vital processes, financial management, cost control, risk management, etc. Lectures are based on the real practice experience of all course's lecturers and various case studies are studied and solved. Online Building Industry Game (BIG) will be played by all course participants through the whole semester (a computer simulation of a realistic business environment where participants play the role of contractors, competing in a market with variable demand for construction work). In this online game, developed and directly operated by the California Polytechnic State University, students act as contractors, managing both, their companies and projects.

126YCON Construction Contracting Z,ZK 4

As every project manager in construction business has to be a contract manager at the same time, understanding the contract - respectively contracting in general - is a must. Course of Construction Contracting is oriented on current business practices and methods, management techniques and understanding general legal principles, codes and regulations. It is about doing business in construction using standard procurement systems and applying given types of contracts, respectively standard contracts (e.g. FIDIC). Lectures are based on the real practice experience of both course's lecturers and various case studies are studied and solved in the course.

126YEMB Energy Management Z,ZK 4

The course on energy management covers the issues of management in general, energy management, energy systems, and energy efficiency in the European legislation framework. The main target of the course is to explain basic principles and future changes in the construction industry, specifically in the field of energy efficiency economics. The students will increase their knowledge about strategies towards sustainable energy in buildings and mainly about energy efficiency. A specific part of the course is dedicated to the evaluation of energy efficiency measures, supporting schemes for energy efficiency, tackling energy poverty, multi-criterial evaluation of projects, LCA (live cycle assessment) and LCC (life cycle cost), moreover the students receive overview of the cost optimum calculation.

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-17, time 06:50.