Study plan

Name of study plan: Digitalizace ve stavebnictví - prezen ní forma studia

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Digitalization in 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: Studijní plán pro prezen ní formu studia od akademického roku 2025/2026

Name of the block: Compulsory courses Minimal number of credits of the block: 52 The role of the block: Z

Code of the group: NT202502 Name of the group: Digitalizace ve stavebnictví, 2. semestr Requirement credits in the group: In this group you have to gain at least 28 credits Requirement courses in the group: In this group you have to complete at least 8 courses Credits in the group: 28 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
125DNPS	Digitization in HVAC Service Design and Operation	Z,ZK	3	1P+1C	L	Z
126SYPR	Management Support Systems	Z,ZK	3	2P+1C	L	Z
154VMGD	Advanced Methods in Geodesy and Digitization	Z,ZK	4	1P+2C	L	Z
105PDKS	Law in Digitization and Communication in Digital World	KZ	3	3C	L	Z
155DPFS	Digitization in Operational Phase of Construction	Z,ZK	4	1P+2C	L	Z
122DKKS	Digitization of Quality Control in Civil Engineering	Z,ZK	2	1P+1C	L	Z
124PNAV	Parametric design	Z	4	1P+2C	L	Z
126PJDS	Project	KZ	5	4C	L	Z

Characteristics of the courses of this group of Study Plan: Code=NT202502 Name=Digitalizace ve stavebnictví, 2. semestr

125DNPS Digitization in HVAC Service Design and Operation 7.7K 3 The course focuses on the design and operation of HVAC with respect to the use of digital technologies in the construction industry. First, the design of energy sources is addressed, followed by distribution systems and their condition analysis. Subsequently, the operation of these systems is addressed. Individual building systems are addressed with respect to their specificities. 126SYPR Management Support Systems 7.7K This course aims to provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the basic background of system management support and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems and the specifics of the application of process modelling in the construction industry - especially in relation to building information modelling. 154VMGD Advanced Methods in Geodesy and Digitization Z.ZK 4 105PDKS Law in Digitization and Communication in Digital World ΚZ 3 This course prepares students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is becoming mandatory for certain public contracts. Emphasis is placed not only on understanding copyright law, the management of digital databases, and licensing contracts but also on the ability to communicate project outcomes clearly and convincingly in both digital and public spaces. Students will develop skills in presentation, non-verbal communication, and emotional intelligence, with a strong focus on professional practice in the digital world. 155DPFS Digitization in Operational Phase of Construction Z,ZK 4 122DKKS Z.ZK 2 Digitization of Quality Control in Civil Engineering 124PNAV Parametric design 4 Ζ 126PJDS Project ΚZ 5

Code of the group: NT202503

Name of the group: Digitalizace ve stavebnictví, 3. semestr Requirement credits in the group: In this group you have to gain at least 24 credits Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 24

Note	on	the	group:	
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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
126DPDS	Diploma Thesis	Z	19	11C	Z	Z
126OPDS	Professional Practice	Z	5	8C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=NT202503 Name=Digitalizace ve stavebnictví, 3. semestr126DPDSDiploma ThesisZ19126OPDSProfessional PracticeZ5

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 30 The role of the block: P

Code of the group: NT202501

Name of the group: Digitalizace ve stavebnictví, 1. semestr

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

Requirement courses in the group: In this group you have to complete at least 8 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
126DSTA	Digitalization in Civil Engineering	ZK	4	3P	Z	Р
126DATM	Data Management	Z,ZK	4	2P+1C	Z	Р
132PYT1	Computing in Python 1	Z	3	1P+2C	Z	Р
126DOCS	Digitization in Construction Pricing	Z,ZK	4	2P+2C	Z	Р
126DASY	Database Systems	Z,ZK	4	2P+2C	Z	Р
124DNRS	Digitization in Design and Construction Execution	KZ	4	2P+1C	Z	Р
126COMS	Commissioning	Z,ZK	3	1P+1C	Z	Р
126DKSZ	Digital Communication and Contract Assurance	Z,ZK	4	1P+2C	Z	Р

Characteristics of the courses of this group of Study Plan: Code=NT202501 Name=Digitalizace ve stavebnictví, 1. semestr

126DSTA	Digitalization in Civil Engineering	ZK	4
126DATM	Data Management	Z,ZK	4
132PYT1	Computing in Python 1	Z	3
126DOCS	Digitization in Construction Pricing	Z,ZK	4
126DASY	Database Systems	Z,ZK	4
Modeling of relational	databases, basics of SQL language for creating relational database, manipulation of data in database, retrieving data from data	base. Principles c	f object-oriented
modeling and its applie	cation in EXPRESS modeling language, STEP data format and their use in IFC data structure, structure and basic content of	IFC data.	
124DNRS	Digitization in Design and Construction Execution	KZ	4
126COMS	Commissioning	Z,ZK	3
126DKSZ	Digital Communication and Contract Assurance	Z,ZK	4
Within the course, the	student will learn about tools enabling digital communication in construction projects during preparation and implementation. I	Furthermore, the	student will learn
the basics of enterpris	e business architecture of information systems and contractual provision of information systems. Within the course, the studer	nt will also learn a	bout information
systems such as data	varehouses, document management systems, shared data environments and ticketing systems and their application for digital	communication wi	thin construction
projects.			

Name of the block: Compulsory elective courses Minimal number of credits of the block: 8 The role of the block: PV

Code of the group: NT202502PV

Name of the group: Digitalizace ve stavebnictví, povinn volitelné p edm ty, 2. semestr Requirement credits in the group: In this group you have to gain at least 2 credits Requirement courses in the group: In this group you have to complete at least 1 course Credits in the group: 2

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
132YPYT2	Computing in Python 2	Z	2	2C	L	PV
132YMAT	Computing in Matlab	Z	2	2C	L	PV
126YVBA	Computing in VBA	Z	2	2C	L	PV

Characteristics of the courses of this group of Study Plan: Code=NT202502PV Name=Digitalizace ve stavebnictví, povinn volitelné p edm ty, 2. semestr

132YPYT2	Computing in Python 2	Z	2
132YMAT	Computing in Matlab	Z	2
This course focuses on	developing students' programming skills in MATLAB.	•	
126YVBA	Computing in VBA	Z	2
120118/(L _	-

Code of the group: NT202503PV

Name of the group: Digitalizace ve stavebnictví, povinn volitelné p edm ty, 3. semestr Requirement credits in the group: In this group you have to gain at least 6 credits Requirement courses in the group: In this group you have to complete at least 3 courses 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
126YASU	Data Analysis and Machine Learning	Z	2	2C	Z	PV
155YPMV	Advanced Visualization Methods	Z	2	2C	Z	PV
126YKBR	Cybersecurity and IT Risk Management	Z	2	2C	Z	PV
122YRST	Robotic and Special Technologies	Z	2	2C	Z	PV
125YENB	Building Energy Efficiency	Z	2	2C	Z	PV
126YMIS	Managerial Information Systems Lucie Brožová, Petr Kal ev Petr Kal ev (Gar.)	Z	2	2C	Z	PV
134YTNK	Information technology in Fundamentals of Sustainable Structural Design	Z	2	2C	Z	PV

Characteristics of the courses of this group of Study Plan: Code=NT202503PV Name=Digitalizace ve stavebnictví, povinn volitelné p edm tv. 3. semestr

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126YASU	Data Analysis and Machine Learning	Z	2
155YPMV	Advanced Visualization Methods	Z	2
126YKBR	Cybersecurity and IT Risk Management	Z	2
The course provides	s students with a broad spectrum of knowledge and skills in the field of cyber security and risk management in an IT environr	ment. Upon completion	on of the course,
students will be able	to successfully identify and minimize risks associated with cyber security within the construction industry. Students will also	be able to understar	d international
standards and guide	lines for cyber security, as well as relevant Czech legislation.		
122YRST	Robotic and Special Technologies	Z	2
During the course is	tudents will be introduced to the basics of robotics, the basics of industrial automation, the programming of industrial robots	in construction techn	ology and the
During the course, a	sudents will be introduced to the basics of robotics, the basics of industrial automation, the programming of industrial robotis	in construction tech	lology, and the
•	modeling and its use for controlling industrial robots.		ology, and the
		Z	2
basics of parametric	modeling and its use for controlling industrial robots.	Z	
basics of parametric 125YENB 126YMIS	modeling and its use for controlling industrial robots. Building Energy Efficiency	Z	2 2
basics of parametric 125YENB 126YMIS Enterprise IS archite	modeling and its use for controlling industrial robots. Building Energy Efficiency Managerial Information Systems	Z Z legy of the enterprise	2 2 IS effectiveness
basics of parametric 125YENB 126YMIS Enterprise IS archite structure and function	modeling and its use for controlling industrial robots. Building Energy Efficiency Managerial Information Systems cture, internal and external information sources to support managerial decision-making - Business Intelligence, information strate	Z z egy of the enterprise S, practical demonstr	2 2 IS effectiveness ation of Business
basics of parametric 125YENB 126YMIS Enterprise IS archite structure and function	modeling and its use for controlling industrial robots. Building Energy Efficiency Managerial Information Systems cture, internal and external information sources to support managerial decision-making - Business Intelligence, information strat on of managerial IS, multidimensional database and OLAP technology, procedure for building and implementing managerial IS	Z z egy of the enterprise S, practical demonstr	2 2 IS effectiveness ation of Busines

List of courses of this pass:

Code	Name of the course	Completion	Credits
105PDKS	Law in Digitization and Communication in Digital World	KZ	3
	es students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the legal and communication aspects related to the BIM (Building Information Management) methodology, which is been students for the students aspects related to the BIM (Building Information Management) methodology, which is been students aspects related to the BIM (Building Information Management) methodology, which is been students aspects related to the BIM (Building Information Management) methodology, which is been students aspects aspec	-	
•	Emphasis is placed not only on understanding copyright law, the management of digital databases, and licensing contracts but also on	•	
project outcomes of	clearly and convincingly in both digital and public spaces. Students will develop skills in presentation, non-verbal communication, and e	motional intellige	nce, with a
	strong focus on professional practice in the digital world.		-
122DKKS	Digitization of Quality Control in Civil Engineering	Z,ZK	2
122YRST	Robotic and Special Technologies	Z	2
During the course	s, students will be introduced to the basics of robotics, the basics of industrial automation, the programming of industrial robots in cons	truction technolog	gy, and the
	basics of parametric modeling and its use for controlling industrial robots.		
124DNRS	Digitization in Design and Construction Execution	KZ	4
124PNAV	Parametric design	Z	4
125DNPS	Digitization in HVAC Service Design and Operation	Z,ZK	3
	s on the design and operation of HVAC with respect to the use of digital technologies in the construction industry. First, the design of e		
followed by distrib	bution systems and their condition analysis. Subsequently, the operation of these systems is addressed. Individual building systems are	e addressed with	respect to
	their specificities.		
125YENB	Building Energy Efficiency	Z	2
126COMS	Commissioning	Z,ZK	3
126DASY	Database Systems	Z,ZK	4
-	nal databases, basics of SQL language for creating relational database, manipulation of data in database, retrieving data from database		ect-oriented
	ing and its application in EXPRESS modeling language, STEP data format and their use in IFC data structure, structure and basic con		
126DATM	Data Management	Z,ZK	4
126DKSZ	Digital Communication and Contract Assurance	Z,ZK	4
	the student will learn about tools enabling digital communication in construction projects during preparation and implementation. Furth		
the basics of enter	prise business architecture of information systems and contractual provision of information systems. Within the course, the student will	also learn about	
	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm	nunication within o	construction
systems such as da	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects.		
systems such as da	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing	Z,ZK	4
systems such as da 126DOCS 126DPDS	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing Diploma Thesis	Z,ZK Z	4 19
systems such as da 126DOCS 126DPDS 126DSTA	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering	Z,ZK Z ZK	4 19 4
systems such as da 126DOCS 126DPDS 126DSTA 126OPDS	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing Diploma Thesis	Z,ZK Z ZK Z	4 19 4 5
systems such as da 126DOCS 126DPDS 126DSTA	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering	Z,ZK Z ZK	4 19 4
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systems such as da 126DOCS 126DPDS 126DSTA 126OPDS 126PJDS 126SYPR This course aims to management support 126YASU	Ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital communication projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering Professional Practice Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems Optication of process modelling in the construction industry - especially in relation to building information modelling. Data Analysis and Machine Learning	Z,ZK Z ZK Z KZ Z,ZK basic background stems and the spect	4 19 4 5 5 d of system actifics of the 2
systems such as da 126DPDS 126DPDS 126DSTA 126OPDS 126PJDS 126SYPR This course aims to management support 126YASU 126YKBR	tata warehouses, document management systems, shared data environments and ticketing systems and their application for digital communication projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering Professional Practice Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems Optication of process modelling in the construction industry - especially in relation to building information modelling. Data Analysis and Machine Learning Cybersecurity and IT Risk Management	Z,ZK Z ZK Z KZ Z,ZK basic background stems and the spectrum z Z	4 19 4 5 5 3 d of system crifics of the 2 2
systems such as da 126DOCS 126DPDS 126DSTA 126OPDS 126PJDS 126SYPR This course aims to management support 126YASU 126YASU 126YKBR The course provide	tata warehouses, document management systems, shared data environments and ticketing systems and their application for digital communication projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering Professional Practice Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems Optication of process modelling in the construction industry - especially in relation to building information modelling. Data Analysis and Machine Learning Cybersecurity and IT Risk Management es students with a broad spectrum of knowledge and skills in the field of cyber security and risk management in an IT environment. Up	Z,ZK Z ZK Z KZ Z,ZK basic background stems and the spectrum the spectr	4 19 4 5 3 d of system crifics of the 2 2 the course,
systems such as da 126DOCS 126DPDS 126DSTA 126OPDS 126PJDS 126SYPR This course aims to management support 126YASU 126YASU 126YKBR The course provide	Ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital communication projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering Professional Practice Project Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems Data Analysis and Machine Learning Cybersecurity and IT Risk Management Students with a broad spectrum of knowledge and skills in the field of cyber security and risk management in an IT environment. Up ble to successfully identify and minimize risks associated with cyber security within the construction industry. Students will also be able	Z,ZK Z ZK Z KZ Z,ZK basic background stems and the spectrum the spectr	4 19 4 5 3 d of system crifics of the 2 2 the course,
systems such as da 126DOCS 126DPDS 126DSTA 126OPDS 126PJDS 126SYPR This course aims to management support 126YASU 126YASU 126YKBR The course provide students will be at	Ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital communication projects. Digitization in Construction Pricing Digitalization in Civil Engineering Professional Practice Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software systems Other analysis and Machine Learning Cybersecurity and IT Risk Management Standards and spectrum of knowledge and skills in the field of cyber security and risk management in an IT environment. Up ble to successfully identify and minimize risks associated with cyber security, as well as relevant Czech legislation.	Z,ZK Z ZK Z,ZK basic background stems and the spectrum the spectrum z z con completion of a to understand in	4 19 4 5 3 d of system cifics of the 2 2 the course, ternational
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systems such as da 126DPDS 126DPDS 126DPDS 126PJDS 126PJDS 126SYPR This course aims to management support 126YASU 126YASU 126YKBR The course provide students will be at 126YMIS Enterprise IS archit structure and function	ata warehouses, document management systems, shared data environments and ticketing systems and their application for digital comm projects. Digitization in Construction Pricing Diploma Thesis Digitalization in Civil Engineering Professional Practice Project Management Support Systems o provide knowledge of standards and tools for management support. The whole course is introduced by topics that aim to explain the ort and concepts in this area. The course focuses on process modelling, its relation to the specification of requirements for software sys application of process modelling in the construction industry - especially in relation to building information modelling. Data Analysis and Machine Learning Cybersecurity and IT Risk Management es students with a broad spectrum of knowledge and skills in the field of cyber security and risk management in an IT environment. Up ple to successfully identify and minimize risks associated with cyber security, within the construction industry. Students will also be able standards and guidelines for cyber security, as well as relevant Czech legislation. Managerial Information Systems ecture, internal and external information sources to support managerial decision-making - Business Intelligence, information strategy of th ion of managerial IS, multidimensional database and OLAP technology, procedure for building and implementing managerial IS, practic n applications and the COGNOS system in construction companies, knowledge management and knowledge base to support strategi	Z,ZK Z ZK Z KZ Z,ZK basic background stems and the spectrum stems and the spectrum z z oon completion of e to understand in Z e enterprise, IS efficient al demonstration	4 19 4 5 3 d of system cifics of the 2 2 the course, ternational 2 fectiveness, of Business
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