

Recommended pass through the study plan

Name of the pass: Master Full-Time IS (CS) from 2025/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time IS (CS) from 2024/25

Branch of study guaranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Intelligent Transport Systems

Type of study: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
16DITS	Vehicles within ITS <i>Jan Leistner, Filip Kotas, David Lehet, Jaroslav Machan</i>	Z,ZK	4	2P+2C	Z	z
20GINS	Geographical, information, localization and navigation systems <i>Pavel Hruběš, Petr Bureš, Zuzana Purkrábková, František Kekula Pavel Hruběš</i>	Z,ZK	6	3P+3C	Z	z
11MAI	ITS Mathematical Tools <i>Jan P ikryl Jan P ikryl Jan P ikryl (Gar.)</i>	Z,ZK	4	2P+2C	Z	z
20TSJ	Telematic systems and their design <i>Pavel Hruběš, Martin Langr Martin Langr</i>	Z,ZK	6	3P+2C	Z	ZP
15JIA1	Foreign Language - English 1 <i>Markéta Musilová, Dana Boušová, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Eva Rezlerová</i>	Z	0	0P+2C	Z	z
15JIF1	Foreign Language - French 1 <i>Irena Veselková</i>	Z	0	0P+2C	Z	z
15JIN1	Foreign Language - German 1 <i>Eva Rezlerová, Martina Navrátilová, Jana Štikarová</i>	Z	0	0P+2C	Z	v
15JIR1	Foreign Language - Russian 1 <i>Marie Michlová</i>	Z	0	0P+2C	Z	v
15JIS1	Foreign Language - Spanish 1 <i>Nina Hricsina Puškinová</i>	Z	0	0P+2C	Z	v
23TBSS	Technology and Security of Sensor Networks	KZ	2	2P+0C	Z	v
X2-NP-IS-CS-20/21	Projekty Mgr. prezen ní IS (CS) od 2020/21 <i>11XN1S,12XN1S,..... (see the list of groups below)</i>	Min. cours. 4 Max. cours. 4	Min/Max 27/27			ZP
1S-NP-IS-CS-V-20/21	1. sem. Mgr. prezen ní IS (CS) výb r p edm tu od 2020/21 <i>12TDP,16ESDP,..... (see the list of groups below)</i>	Min. cours. 1 Max. cours. 1	Min/Max 3/3			z

Number of semester: 2

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
20BITS	Safety and reliability of ITS Systems <i>Vladimír Faltus, Tomáš Tichý</i>	KZ	3	2P+1C	L	z
14CITS	C-ITS Systems <i>Zden k Lokaj, Tomáš Zelinka, Miroslav Vaniš Zden k Lokaj Zden k Lokaj (Gar.)</i>	Z,ZK	6	3P+3C	L	z

14PPRP	Computer Aided Project Management <i>Marek Kalika Marek Kalika Marek Kalika (Gar.)</i>	KZ	2	0P+2C	L	z
14PD	Data processing <i>Martin Šrotý, Miroslav Vaniš, Michal Jeábek Martin Šrotý Martin Šrotý (Gar.)</i>	Z,ZK	6	2P+4C	L	z
14PAM	Programming and modelling <i>Vít Fábera, Marek Kalika, Tomáš Brandejský, Martin Fiala Vít Fábera Vít Fábera (Gar.)</i>	Z,ZK	4	2P+2C	L	z
15JIA2	Foreign Language - English 2 <i>Eva Rezlerová</i>	Z	0	0P+2C	L	ZP
15JIF2	Foreign Language - French 2 <i>Irena Veselková</i>	Z	0	0P+2C	L	z
15JIN2	Foreign Language - German 2 <i>Eva Rezlerová, Martina Navrátilová, Jana Štikarová</i>	Z	0	0P+2C	L	v
15JIR2	Foreign Language - Russian 2 <i>Marie Michlová</i>	Z	0	0P+2C	L	v
15JIS2	Foreign Language - Spanish 2 <i>Nina Hricsina Puškinová</i>	Z	0	0P+2C	L	v
X2-NP-IS-CS-20/21	Projekty Mgr. prezen ní IS (CS) od 2020/21 <i>11XN1S,12XN1S,..... (see the list of groups below)</i>	Min. cours. 4 Max. cours. 4	Min/Max 27/27			ZP
2S-NP-IS-CS-V-20/21	2. sem. Mgr. prezen ní IS (CS) výb r p edm tu od 2020/21 <i>14MIM,16SHMI,..... (see the list of groups below)</i>	Min. cours. 1 Max. cours. 1	Min/Max 3/3			z

Number of semester: 3

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
15JIA3	Foreign Language - English 3 <i>Markéta Musilová, Dana Boušová, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Eva Rezlerová, Markéta Vojanová</i>	Z	0	0P+2C	Z	ZP
15JIF3	Foreign Language - French 3 <i>Irena Veselková</i>	Z	0	0P+2C	Z	z
15JIN3	Foreign Language - German 3 <i>Eva Rezlerová, Martina Navrátilová, Jana Štikarová</i>	Z	0	0P+2C	Z	v
15JIR3	Foreign Language - Russian 3 <i>Marie Michlová</i>	Z	0	0P+2C	Z	v
15JIS3	Foreign Language - Spanish 3 <i>Nina Hricsina Puškinová</i>	Z	0	0P+2C	Z	v
20AIMI	Application of ITS in Urban Engineering <i>Jíří Růžka, Tomáš Tichý, Josef Kocourek, Dagmar Koárková, Josef Filip Tomáš Tichý</i>	Z,ZK	6	3P+3C	Z	v
20HEI	Evaluation and Economics of ITS <i>František Kopecký František Kopecký</i>	KZ	3	2P+1C	Z	v
11MMAD	Mathematical Methods for Data Analysis <i>Pavla Pecherková, Tetiana Reznichenko, Evžen Uglitschik, Ivan Nagy Pavla Pecherková Ivan Nagy (Gar.)</i>	Z,ZK	6	3P+3C	Z	
20SYIN	System Engineering <i>Zuzana Bělinová, Veronika Vlčková Zuzana Bělinová</i>	Z,ZK	6	4P+2C	Z	
X2-NP-IS-CS-20/21	Projekty Mgr. prezen ní IS (CS) od 2020/21 <i>11XN1S,12XN1S,..... (see the list of groups below)</i>	Min. cours. 4 Max. cours. 4	Min/Max 27/27			ZP

Number of semester: 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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
15JIA4	Foreign Language - English 4 <i>Eva Rezlerová</i>	Z	0	0P+2C	L	z
15JIF4	Foreign Language - French 4 <i>Irena Veselková</i>	Z	0	0P+2C	L	z

15JIN4	Foreign Language - German 4 <i>Eva Rezlerová, Martina Navrátilová, Jana Štikarová</i>	Z	0	0P+2C	L	ZP
15JIR4	Foreign Language - Russian 4 <i>Marie Michlová</i>	Z	0	0P+2C	L	V
15JIS4	Foreign Language - Spanish 4 <i>Nina Hřivčina Puškinová</i>	Z	0	0P+2C	L	V
X2-NP-IS-CS-20/21	Projekty Mgr. prezen ní IS (CS) od 2020/21 <i>11XN1S, 12XN1S, (see the list of groups below)</i>	Min. cours. 4 Max. cours. 4	Min/Max 27/27			ZP

List of groups of courses of this pass with the complete content of members of individual groups

Kód	Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)			Completion	Credits	Scope	Semester	Role
1S-NP-IS-CS-V-20/21	1. sem. Mgr. prezen ní IS (CS) výb r p edm tu od 2020/21			Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
12TDP	Traffic Flow Theory	16ESDP	Electronic systems in modern veh ...	20MZZ	Modern techniques of safety cont ...			
2S-NP-IS-CS-V-20/21	2. sem. Mgr. prezen ní IS (CS) výb r p edm tu od 2020/21			Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
14MIM	Microsimulation Models	16SHMI	Simulation and HMI	20ITSR	ITS - R			
X2-NP-IS-CS-20/21	Projekty Mgr. prezen ní IS (CS) od 2020/21			Min. cours. 4 Max. cours. 4	Min/Max 27/27			ZP
11XN1S	Master project 1 for study progr ...	12XN1S	Master project 1 for study progr ...	14XN1S	Master project 1 for study progr ...			
15XN1S	Master project 1 for study progr ...	16XN1S	Master project 1 for study progr ...	17XN1S	Master project 1 for study progr ...			
18XN1S	Master project 1 for study progr ...	20XN1S	Master project 1 for study progr ...	21XN1S	Master project 1 for study progr ...			
22XN1S	Master project 1 for study progr ...	11XN2S	Master project 2 for study progr ...	12XN2S	Master project 2 for study progr ...			
14XN2S	Master project 2 for study progr ...	15XN2S	Master project 2 for study progr ...	16XN2S	Master project 2 for study progr ...			
17XN2S	Master project 2 for study progr ...	18XN2S	Master project 2 for study progr ...	20XN2S	Master project 2 for study progr ...			
21XN2S	Master project 2 for study progr ...	22XN2S	Master project 2 for study progr ...	11XN3S	Master project 3 for study progr ...			
12XN3S	Master project 3 for study progr ...	14XN3S	Master project 3 for study progr ...	15XN3S	Master project 3 for study progr ...			
16XN3S	Master project 3 for study progr ...	17XN3S	Master project 3 for study progr ...	18XN3S	Master project 3 for study progr ...			
20XN3S	Master project 3 for study progr ...	21XN3S	Master project 3 for study progr ...	22XN3S	Master project 3 for study progr ...			
11XN4S	Master project 4 for study progr ...	12XN4S	Master project 4 for study progr ...	14XN4S	Master project 4 for study progr ...			
15XN4S	Master project 4 for study progr ...	16XN4S	Master project 4 for study progr ...	17XN4S	Master project 4 for study progr ...			
18XN4S	Master project 4 for study progr ...	20XN4S	Master project 4 for study progr ...	21XN4S	Master project 4 for study progr ...			
22XN4S	Master project 4 for study progr ...							

List of courses of this pass:

Code	Name of the course	Completion	Credits
11MAI	ITS Mathematical Tools Series, Fourier Series. Discrete Fourier Transform. Segmentation of signals, windows, localization. Short-term Fourier Transform. From Fourier Analysis to PDE. Fundamentals of Numerical Mathematics. Numerical solutions to ODEs and PDEs. Continuous traffic flow models described by PDE. Car-following models as ODEs.	Z,ZK	4
11MMAD	Mathematical Methods for Data Analysis Stochastic modelling, estimation, prediction, filtration, control, methods of data analysis: k-means, DBSCAN, naive Bayes, decision trees, support vector machine.	Z,ZK	6
11XN1S	Master project 1 for study programme IS	Z	5
11XN2S	Master project 2 for study programme IS	Z	6
11XN3S	Master project 3 for study programme IS	Z	6
11XN4S	Master project 4 for study programme IS	Z	10

12TDP	Traffic Flow Theory	Z,ZK	3
Mobility and associated human problems. Basic traffic parameters and their measurement. Estimation of quality of services. Theoretical fundamentals and applications of mathematical models. Macroscopic, statistical and microscopic models. Theory of shock waves, queuing theory and special theory of traffic phenomena. Relation between traffic models and traffic flow management.			
12XN1S	Master project 1 for study programme IS	Z	5
12XN2S	Master project 2 for study programme IS	Z	6
12XN3S	Master project 3 for study programme IS	Z	6
12XN4S	Master project 4 for study programme IS	Z	10
14CITS	C-ITS Systems	Z,ZK	6
Detailed description of C-ITS systems architecture, description of use-cases - urban and rural applications, principles of C-ITS functionality with focus on data exchange (CAM, DENM, IVI) and C-ITS security architecture. Status quo and modern trends of wireless telecommunication solutions ITS-G5 and LTE-V and description of its properties and specifics. Course will also cover signal processing.			
14MIM	Microsimulation Models	KZ	3
Basic knowledge of traffic modeling and simulation will be broadened by the application of traffic control algorithms to traffic microsimulation models used in ITS. These include, for example, the proposal of algorithms for actuated signal control, pedestrian preference, dynamic network routing, road line traffic control, crossing security equipment, and PT preference. Algorithms will be designed, applied, and tested by students themselves.			
14PAM	Programming and modelling	Z,ZK	4
Object oriented programming, dynamic memory allocation, inheritance, generic programming, STL, abstract data types, programming techniques, recursion, complexity, Lindenmeyer's grammars, parallelism in nature and in real systems, parallel computer systems, parallel programming, discrete simulation, models of processes, model types As-Is a To-Be, acquisition of analytical sources for modelling, BPMN language, SW Bizagi, model creation and life cycle.			
14PD	Data processing	Z,ZK	6
Students will learn about tools for data processing and analysis, using practical examples to try out the most common options used in data processing, including advanced options for presenting the results of analyses. In advanced methods, students will also perform specific analysis using Bayesian networks. Students will then independently perform data analysis on data from existing open systems.			
14PPRP	Computer Aided Project Management	KZ	2
What is the project? The basic terms and concepts of project management. Life cycle of the project and its phased approach. Analysis and specification of the assignment, activity definition, stages, objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of the project outline (activities, restrictions, assignments, calendars etc.) Project planning and optimization - time, resources.			
14XN1S	Master project 1 for study programme IS	Z	5
14XN2S	Master project 2 for study programme IS	Z	6
14XN3S	Master project 3 for study programme IS	Z	6
14XN4S	Master project 4 for study programme IS	Z	10
15JIA1	Foreign Language - English 1	Z	0
Work on specialised texts and technical terminology. Lexical-grammatical structures of higher command. Formal language. Improvement of communication skills. Active use of foreign language in presentations within students' specialization field both in verbal and written forms. Language laboratory environment used alternatively as a tool for active learning (Programmes - English Connections, English Library, the Internet).			
15JIA2	Foreign Language - English 2	Z	0
Work on specialised texts and technical terminology. Lexical-grammatical structures of higher command. Formal language. Improvement of communication skills. Active use of foreign language in presentations within students' specialization field both in verbal and written form. Language laboratory environment used alternatively as a tool for active learning (Programmes - English Connections, English Library, the Internet).			
15JIA3	Foreign Language - English 3	Z	0
Presentation skills - expert technical discourse and style. Analysis of expert texts and their production. Preparation for overseas work engagement. Optional courses for certificates FCE, CAE.			
15JIA4	Foreign Language - English 4	Z	0
Presentation Skills - expert technical discourse and style. Analysis of expert texts and their production. Preparation for overseas work engagement. Optional courses for certificates FCE, CAE.			
15JIF1	Foreign Language - French 1	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIF2	Foreign Language - French 2	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIF3	Foreign Language - French 3	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIF4	Foreign Language - French 4	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIN1	Foreign Language - German 1	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIN2	Foreign Language - German 2	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIN3	Foreign Language - German 3	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIN4	Foreign Language - German 4	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leisure time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			

15JIR1	Foreign Language - Russian 1	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIR2	Foreign Language - Russian 2	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIR3	Foreign Language - Russian 3	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIR4	Foreign Language - Russian 4	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIS1	Foreign Language - Spanish 1	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIS2	Foreign Language - Spanish 2	Z	0
Basic structures of Spanish language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of Spanish language, writing skills.			
15JIS3	Foreign Language - Spanish 3	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15JIS4	Foreign Language - Spanish 4	Z	0
Basic structures of foreign language, communication in everyday life, study, work, leiser time activities, introducing myself, phonetics of foreign language, writing skills, in advanced groups texts with professional topics.			
15XN1S	Master project 1 for study programme IS	Z	5
15XN2S	Master project 2 for study programme IS	Z	6
15XN3S	Master project 3 for study programme IS	Z	6
15XN4S	Master project 4 for study programme IS	Z	10
16DITS	Vehicles within ITS	Z,ZK	4
Design of the vehicle with focus on its use and function in frame of ITS. User requirement analyses. Economic aspects. Process of constructions in a concept phase, functional dependences and structure of the designed object. Creation of functional models. Energy management and storages for ground vehicles, energy transformations leading to kinetic one. Propulsion systems / traditional and alternative ones. Life-cycle analysis.			
16ESDP	Electronic systems in modern vehicles	Z,ZK	3
Advanced vehicle systems, electromobility, V2I and V2V, autonomous driving. Combustion engine control and electronic control units. Electric propulsion, its components, basic characteristics and control. Management of hybrid propulsion for attaining its optimal efficiency. Vehicle communication bus (CAN, LIN, FlexRay etc.). Safety, communication and comfort electronic vehicle systems. Practical exercises with real and simulated systems.			
16SHMI	Simulation and HMI	Z,ZK	3
Simulation for the systems in transportation and vehicle systems. User interface, HMI (human-machine interaction), virtual reality and computer graphics for ITS. Simulation theory with application of computing equipment. Creating computing models. Mechanic and dynamic systems and their mathematical models. Simulation of vehicle dynamics, on-land carriage in particular. Virtual reality systems.			
16XN1S	Master project 1 for study programme IS	Z	5
16XN2S	Master project 2 for study programme IS	Z	6
16XN3S	Master project 3 for study programme IS	Z	6
16XN4S	Master project 4 for study programme IS	Z	10
17XN1S	Master project 1 for study programme IS	Z	5
17XN2S	Master project 2 for study programme IS	Z	6
17XN3S	Master project 3 for study programme IS	Z	6
17XN4S	Master project 4 for study programme IS	Z	10
18XN1S	Master project 1 for study programme IS	Z	5
18XN2S	Master project 2 for study programme IS	Z	6
18XN3S	Master project 3 for study programme IS	Z	6
18XN4S	Master project 4 for study programme IS	Z	10
20AIMI	Application of ITS in Urban Engineering	Z,ZK	6
The course focuses mainly on the issue of the installation of engineering networks in the area, coordination of engineering activities in the area, organization of the public space, concept of public space solutions, design of systems for traffic and transport telematics management, coordination of transport modes - automobil, pedestrian, MHD, cyclo, modes etc. New approaches to the development of Smart and green approaches Promoting into Public.			
20BITS	Safety and reliability of ITS Systems	KZ	3
The basic concepts of safety and reliability in the job and application. Basic schema and types of diagnostic systems including reliability diagnostics of technical equipment and ITS. Investigation of acceptability and reliability prediction, traffic crity and sensitivity analysis. Neural Networks and other optimization algorithms and ETA, FMEA failure analysis. HMI in traffic including operator testing on simulator and in real-world situation			
20GINS	Geographical, information, localization and navigation systems	Z,ZK	6
The subject is specialized in problems of work with applications of geographic information systems with special attention to the specialization in the field of transport and telecommunication. It introduces students to geographic data management practices and tools, real world modeling, geographic data storage models, data entry and digitization methods, and a number of other GIS related technologies such as problem mapping, webmap, etc.			
20HEI	Evaluation and Economics of ITS	KZ	3
Introduction of subject is devoted to the basics of system approach to development of ITS architecture and fundamentals in the field of economic attributes connected with development of ITS. Subsequently, the basic principles of system and application creation in the technical field are discussed, defining the penetration of the technical solution into the economy. The subject is terminated by a detailed breakdown of case studies.			

20ITSR	ITS - R	Z,ZK	3
The introduction is devoted to description of the architecture and interface of the system with the ITS-R concept, the communication interface of the system, principles of ensuring functional and security features are defined. The principles of ERTMS / ETCS application level 3, UGTMS, CBTC are discussed in detail. Current and future communication technologies are described.			
20MZZ	Modern techniques of safety control of moving railway vehicles	Z,ZK	3
ERTMS / ETCS concepts, ETCS architecture and interface descriptions, ERTMS system level, infrastructure and mobile part of the system, linking to stationary security systems, operating and application modes of the system, infrastructure orientation, interface (DMI), integration of the ETCS mobile part into the driving vehicle, GSM-R functional specification, testing and legislation.			
20SYIN	System Engineering	Z,ZK	6
Enhanced system definition in engineering tasks, specification of selected system types against related tools of system analysis and design, refinement of selected types of system engineering tasks, definition of system strategy, connection to science-based methodological basics of transport, strategic thinking processes, strategic management system, context of sustainable development.			
20TSJ	Telematic systems and their design	Z,ZK	6
Gradual detailed analysis of individual existing telematics systems in modes of transport, such as toll systems, vehicle weighing, fleet management, traffic management, etc.			
20XN1S	Master project 1 for study programme IS	Z	5
20XN2S	Master project 2 for study programme IS	Z	6
20XN3S	Master project 3 for study programme IS	Z	6
20XN4S	Master project 4 for study programme IS	Z	10
21XN1S	Master project 1 for study programme IS	Z	5
21XN2S	Master project 2 for study programme IS	Z	6
21XN3S	Master project 3 for study programme IS	Z	6
21XN4S	Master project 4 for study programme IS	Z	10
22XN1S	Master project 1 for study programme IS	Z	5
22XN2S	Master project 2 for study programme IS	Z	6
22XN3S	Master project 3 for study programme IS	Z	6
22XN4S	Master project 4 for study programme IS	Z	10
23TBSS	Technology and Security of Sensor Networks	KZ	2
The course focuses on the safety of data collection in new areas of sensor networks. Principles of sensor networks, sensors of electrical and non-electric quantities, interfaces for sensor connection, communication technology for sensor networks, SigFox, LoRa, NB-IoT, IoT technology and SmartCity. Trends in IoT and Smart City			

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

Generated: day 2025-06-06, time 17:21.