

Study plan

Name of study plan: BI nav.prez.13/14

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Follow-up master full-time

Required credits: 51

Elective courses credits: 69

Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses

Minimal number of credits of the block: 26

The role of the block: Z

Code of the group: 1.S.NPBI 13/14

Name of the group: 1.sem.nav.prez.BI 13/14

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 9 courses

Credits in the group: 26

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
15J2A1	Language - English 1 Markéta Olehlová, Jitka He manová, Marie Michlová, Lenka Monková, Markéta Vojanová, Peter Morpuss, Jan Feit, Eva Rezlerová	Z	2	OP+2C+10B	Z	z
11MAG	Algorithms	KZ	4	2+2	Z	z
11OV	Operational Research	ZK	2	2+0	Z	z
23PJC	Advanced Programming in C++	Z	2	0+2	Z	z
23PI	Transfer of Information	ZK	3	2+0	L	z
14SI	System Engineering	Z,ZK	4	2+1	Z	z
20TSS	Telematic Systems and Services	Z,ZK	3	2+1	Z	z
23ZP	Basics of Law	ZK	4	2+0	Z	z
23ZPM	Intelligence Instruments and Methods	KZ	2	2+0	Z	z

Characteristics of the courses of this group of Study Plan: Code=1.S.NPBI 13/14 Name=1.sem.nav.prez.BI 13/14

15J2A1	Language - English 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.	Z	2		
11MAG	Algorithms Fundamentals of discrete and numerical algorithms and numerical methods. Practical excersises on selected algorithms, error analysis of numerical algorithms, comparison of possible variants of a numerical algorithm.	KZ	4		
11OV	Operational Research Definition of linear programming optimization problem, application of linear programming on economical and technical problems, traffic problems - both conventional and with constraints. Geometrical interpretation of linear programming problems, simplex method, duality principle.	ZK	2		
23PJC	Advanced Programming in C++ Types, classes and objects, objects originating and ending, abstract data types, overloading. Genetics, virtual genetics, virtual methods. Dynamic allocation, indexes, conversion. Patterns, generic programming, compilation. Polymorphism, containers, iterators, algorithms. Exceptions, secure programming with exceptions. Secure and mobile programming, OS connections.	Z	2		
23PI	Transfer of Information Theory of information - introduction. Theoretical and practical knowledge in the field of communication. Transfer ways summary. Encoding and decoding analog and numeric signals. Level architecture ISO and description of physical levels and its applications. Signal characteristics, encoding, cyclic codes, signal compressing. Analog signals modulation. Data transfer modulation. Transfer ways and networks, protocols level architecture.	ZK	3		

14SI	System Engineering	Z,ZK	4
Standard analysis methods and synthesis (projecting) of objects with system identification from the methodology standpoint.			
20TSS	Telematic Systems and Services	Z,ZK	3
Telematic theory, telematic architecture, FRAME, cooperative systems - technologies, principles and applications, European electronic toll service, traffic information systems, e-call, automated vehicle systems, European railway traffic management system.			
23ZP	Basics of Law	ZK	4
Basic orientation in the Czech legal system. The course is primarily intended to provide students with orientation in fundamentals of the Czech Republic' legal system and in various forms of law, including adoption of the basic principles of European Community law. The course consists of selected chapters from the public and private law and European law.			
23ZPM	Intelligence Instruments and Methods	KZ	2
History and present of intelligence services and their role in the modern world. Intelligence service information management. Methods and process of collection and evaluation of information. Intelligence service instruments. Internal and external intelligence. Military intelligence. State security services. Private security services and commercial intelligence. Intelligence service organization, efficiency and reliability.			

Name of the block: Semestrální projekt

Minimal number of credits of the block: 17

The role of the block: ZP

Code of the group: XN BI 1.-4. 13/14

Name of the group: Projekt a dipl.práce BI 1.-4.sem. 13/14

Requirement credits in the group: In this group you have to gain 17 credits

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

Credits in the group: 17

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
23DPBI	Diploma Thesis (for the Field BI)	KZ	12	0+14	L	ZP
21XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
18XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
17XN1	Master Project 1 <i>Václav Baroch, Edvard B ezina, Michal Drábek, Alexandra Dvo áková, Veronika Faifrová, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová,</i>	Z	2	0P+2C+4B	Z	ZP
11XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 <i>Tomáš Mi unek, Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svátý</i>	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 <i>Vladimír Pušman, Ond ej Nová ek</i>	Z	2	0P+2C+4B	Z	ZP
23XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
16XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
12XN3	Master Project 3 <i>Vladimír Pušman, Ond ej Nová ek</i>	Z	1	0P+4C	Z	ZP
14XN3	Master Project 3	Z	1	0P+4C	Z	ZP
15XN3	Master Project 3	Z	1	0P+4C	Z	ZP
16XN3	Master Project 3	Z	1	0P+4C	Z	ZP

17XN3	Master Project 3 <i>Václav Baroch, Edvard B ezina, Michal Drábek, Alexandra Dvo áková, Veronika Faifrová, Tomáš Horák, Vít Janoš, Milan K iž, Olga Mertlová,</i>	Z	1	0P+4C	Z	ZP
11XN3	Master Project 3	Z	1	0P+4C	Z	ZP
20XN3	Master Project 3 <i>Ji í R ži ka, Patrik Horaž ovský</i>	Z	1	0P+4C	Z	ZP
21XN3	Master Project 3 <i>Jakub Kraus, Slobodan Stoji , Andrej Lališ, Vladimír Socha, Lenka Hanáková, Jakub Hospodka, Terézia Pilmannová, Peter Vittek</i>	Z	1	0P+4C	Z	ZP
22XN3	Master Project 3 <i>Tomáš Mi unek, Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý</i>	Z	1	0P+4C	Z	ZP
23XN3	Master Project 3	Z	1	0P+4C	Z	ZP
18XN3	Master Project 3	Z	1	0P+4C	Z	ZP

Characteristics of the courses of this group of Study Plan: Code=XN BI 1.-4. 13/14 Name=Projekt a dipl.práce BI 1.-4.sem. 13/14

23DPBI	Diploma Thesis (for the Field BI)	KZ	12
21XN1	Master Project 1	Z	2
20XN1	Master Project 1	Z	2
18XN1	Master Project 1	Z	2
17XN1	Master Project 1	Z	2
11XN1	Master Project 1	Z	2
22XN1	Master Project 1	Z	2
15XN1	Master Project 1	Z	2
14XN1	Master Project 1	Z	2
12XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
16XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
21XN2	Master Project 2	Z	2
20XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
12XN2	Master Project 2	Z	2
11XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
14XN3	Master Project 3	Z	1
15XN3	Master Project 3	Z	1
16XN3	Master Project 3	Z	1
17XN3	Master Project 3	Z	1
11XN3	Master Project 3	Z	1
20XN3	Master Project 3	Z	1
21XN3	Master Project 3	Z	1
22XN3	Master Project 3	Z	1
23XN3	Master Project 3	Z	1
18XN3	Master Project 3	Z	1

Name of the block: Jazyky

Minimal number of credits of the block: 8

The role of the block: J

Code of the group: JZ-N-11/12

Name of the group: Jazyk nav.1.- 4.sem. 11/12

Requirement credits in the group: In this group you have to gain 8 credits

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

Credits in the group: 8

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
15J2F1	Language - French 1 <i>Eva Rezlerová, Irena Veselková</i>	Z	2	CP+2C+10B	Z	J
15JBF2	Language - French 2	Z	2	CP+2C+10B	L	J
15JBF3	Language - French 3 <i>Eva Rezlerová, Irena Veselková</i>	Z	2	CP+2C+10B	Z	J
15JBF4	Language - French 4	ZK	2	CP+2C+10B	L	J
15J2N1	Language - German 1 <i>Eva Rezlerová, Jana Štikarová, Ester Prokešová</i>	Z	2	CP+2C+10B	Z	J
15JBN2	Language - German 2	Z	2	CP+2C+10B	L	J
15JBN3	Language - German 3 <i>Eva Rezlerová, Jana Štikarová</i>	Z	2	CP+2C+10B	Z	J
15JBN4	Language - German 4	ZK	2	CP+2C+10B	L	J
15J2R1	Language - Russian 1 <i>Marie Michlová, Eva Rezlerová</i>	Z	2	CP+2C+10B	Z	J
15JBR2	Language - Russian 2	Z	2	CP+2C+10B	L	J
15JBR3	Language - Russian 3 <i>Marie Michlová, Eva Rezlerová</i>	Z	2	CP+2C+10B	Z	J
15JBR4	Language - Russian 4	ZK	2	CP+2C+10B	L	J
15J2S1	Language - Spanish 1 <i>Eva Rezlerová, Nina Hricsina Puškinová</i>	Z	2	CP+2C+10B	Z	J
15JBS2	Language - Spanish 2	Z	2	CP+2C+10B	L	J
15JBS3	Language - Spanish 3 <i>Eva Rezlerová, Nina Hricsina Puškinová</i>	Z	2	CP+2C+10B	Z	J
15JBS4	Language - Spanish 4	ZK	2	CP+2C+10B	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-N-11/12 Name=Jazyk nav.1.- 4.sem. 11/12

15J2F1	Language - French 1	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.
15JBF2	Language - French 2	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.
15JBF3	Language - French 3	Z	2	Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.
15JBF4	Language - French 4	ZK	2	Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.
15J2N1	Language - German 1	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.
15JBN2	Language - German 2	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.
15JBN3	Language - German 3	Z	2	Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.
15JBN4	Language - German 4	ZK	2	Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.
15J2R1	Language - Russian 1	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.
15JBR2	Language - Russian 2	Z	2	Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

15JBR3	Language - Russian 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBR4	Language - Russian 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15J2S1	Language - Spanish 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBS2	Language - Spanish 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBS3	Language - Spanish 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBS4	Language - Spanish 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			

List of courses of this pass:

Code	Name of the course	Completion	Credits
11MAG	Algorithms	KZ	4
Fundamentals of discrete and numerical algorithms and numerical methods. Practical exercises on selected algorithms, error analysis of numerical algorithms, comparison of possible variants of a numerical algorithm.			
11OV	Operational Research	ZK	2
Definition of linear programming optimization problem, application of linear programming on economical and technical problems, traffic problems - both conventional and with constraints. Geometrical interpretation of linear programming problems, simplex method, duality principle.			
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
14SI	System Engineering	Z,ZK	4
Standard analysis methods and synthesis (projecting) of objects with system identification from the methodology standpoint.			
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
15J2A1	Language - English 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.			
15J2F1	Language - French 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2N1	Language - German 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2R1	Language - Russian 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15J2S1	Language - Spanish 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			

15JBF2	Language - French 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBF3	Language - French 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBF4	Language - French 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBN2	Language - German 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBN3	Language - German 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBN4	Language - German 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBR2	Language - Russian 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBR3	Language - Russian 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBR4	Language - Russian 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBS2	Language - Spanish 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.			
15JBS3	Language - Spanish 3	Z	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15JBS4	Language - Spanish 4	ZK	2
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.			
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3	Master Project 3	Z	1
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3	Master Project 3	Z	1
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
20TSS	Telematic Systems and Services	Z,ZK	3
Telematic theory, telematic architecture, FRAME, cooperative systems - technologies, principles and applications, European electronic toll service, traffic information systems, e-call, automated vehicle systems, European railway traffic management system.			
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1

22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3	Master Project 3	Z	1
23DPBI	Diploma Thesis (for the Field BI)	KZ	12
23PI	Transfer of Information	ZK	3
Theory of information - introduction. Theoretical and practical knowledge in the field of communication. Transfer ways summary. Encoding and decoding analog and numeric signals. Level architecture ISO and description of physical levels and its applications. Signal characteristics, encoding, cyclic codes, signal compressing. Analog signals modulation. Data transfer modulation. Transfer ways and networks, protocols level architecture.			
23PJC	Advanced Programming in C++	Z	2
Types, classes and objects, objects originating and ending, abstract data types, overloading. Genetics, virtual genetics, virtual methods. Dynamic allocation, indexes, conversion. Patterns, generic programming, compilation. Polymorphism, containers, iterators, algorithms. Exceptions, secure programming with exceptions. Secure and mobile programming, OS connections.			
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3	Master Project 3	Z	1
23ZP	Basics of Law	ZK	4
Basic orientation in the Czech legal system. The course is primarily intended to provide students with orientation in fundamentals of the Czech Republic' legal system and in various forms of law, including adoption of the basic principles of European Community law. The course consists of selected chapters from the public and private law and European law.			
23ZPM	Intelligence Instruments and Methods	KZ	2
History and present of intelligence services and there role in the modern world. Intelligence service information management. Methods and process of collection and evaluation of information. Intelligence service instruments. Internal and external intelligence. Military intelligence. State security services. Private security services and commercial intelligence. Intelligence service organization, efficiency and reliability.			

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

Generated: day 2022-10-06, time 21:23.