Recomended pass through the study plan

Name of the pass: Bachelor specialization Computer Networks and Internet, in Czech, 2024

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor Specialization Computer Networks and Internet, in Czech, 2024

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch: Program of study: Informatika Type of study: Bachelor full-time

Note on the pass: Vedle ist volitelných p edm t si m žete zapsat jako volitelné p edm ty i povinné p edm ty sousedních specializací. Chcete-li splnit skupinu "BI-ZKA.21 Zkouška z angli tiny 2021" p edložením certifikátu, který prokazuje vaši znalost angli tiny srovnatelnou nebo p evyšující úrove B2 Spole ného evropského referen ního rámce pro jazyky, m žete tak u init v kterémkoliv aktivním semestru b hem studia.

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BI-DML.21	Discrete Mathematics and Logic Ji ina Scholtzová, Daniel Dombek, Jan Sp vák Daniel Dombek Jan Sp vák (Gar.)	Z,ZK	5	2P+1R+1C	Z	PP
BI-LA1.21	Linear Algebra 1 Jakub Krásenský, Karel Klouda, Lud k Kleprlík Lud k Kleprlík Karel Klouda (Gar.)	Z,ZK	5	2P+1R+1C	Z	PP
BI-PA1.21	Programming and Algorithmics 1 Radek Hušek, Josef Vogel, Miroslav Balík, Ladislav Vagner, Jan Trávní ek Jan Trávní ek Jan Trávní ek (Gar.)	Z,ZK	7	2P+2R+2C	Z	PP
BI-TZP.21	Technological Fundamentals of Computers Jan ezní ek, Martin Novotný, Vojt ch Miškovský, Jaroslav Borecký, Martin Kohlík, Robert Hülle, Matúš Olekšák Martin Novotný Martin Novotný (Gar.)	Z,ZK	5	2P+2C	Z	PP
BI-GIT.21	SW Development Technologies Robin Ob rka, Petr Pulc Robin Ob rka Petr Pulc (Gar.)	Z	3	2P	Z	PP
BI-UOS.21	Unix-like Operating Systems Jan Trdli ka, Zden k Muziká, Yelena Trofimova, Jakub Žitný, Tomáš Vondra, Jakub Jan i ka, Ji í Borský, Lukáš Ba inka, Viktor erný, Zden k Muziká Zden k Muziká (Gar.)	KZ	5	2P+2C	Z	PP
TV1	Physical Education	Z	0	0+2	Z	PT

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BI-DBS.21	Database Systems Jan Matoušek, Michal Valenta, Pavel K íž, Št pán Pechman, Monika Borkovcová, Dominik Roudný, Jan Bittner, Ji í Hunka, P emysl D dic, Ji í Hunka Michal Valenta (Gar.)	Z,ZK	5	2P+2R+1L	. L	PP
BI-MA1.21	Mathematical Analysis 1 Pavel Paták, Tomáš Kalvoda, Pavel Hrabák, Ivo Petr, Petr Olšák Tomáš Kalvoda Tomáš Kalvoda (Gar.)	Z,ZK	5	2P+1R+1C	L	PP
BI-PSI.21	Computer Networks Yelena Trofimova, Viktor erný, Petr Hoda , Josef Zápotocký, Michal Polák, Michal Hažlinský, Jan Fesl, Vladimír Smotlacha, Josef Koumar, Jan Fesl Jan Fesl (Gar.)	Z,ZK	5	2P+1R+1C	L	PP
BI-PA2.21	Programming and Algorithmics 2 Radek Hušek, Josef Vogel, Ladislav Vagner, Jan Trávní ek Jan Trávní ek Jan Trávní ek (Gar.)	Z,ZK	7	2P+1R+2C	L	PP

BI-SAP.21	Computer Structure and Architecture Jaroslav Borecký, Martin Kohlík, Hana Kubátová, Petr Fišer Hana Kubátová Hana Kubátová (Gar.)	Z,ZK	5	2P+1R+2C	L	PP
TVK1	Physical Education Luboš Neuman Ji í Drnek (Gar.)	Z	1		L,Z	PT
		Min. cours.				
BI-V.2021	ist volitelné p edm ty bakalá ského programu Informatika,	0	Min/Max			V
D1-V.2021	Verze od 2021/22 do 2024/25 BI-ADW.1,BI-ALO, (see the list of groups below)	Max. cours.	0/404			V
		94				

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BI-AG1.21	Algorithms and Graphs 1 Radek Hušek, Dušan Knop, Tomáš Valla, Ond ej Suchý, Michal Opler Dušan Knop Dušan Knop (Gar.)	Z,ZK	5	2P+2C	Z	PP
BI-AAG.21	Automata and Grammars Jan Janoušek, Jan Holub Jan Holub (Gar.)	Z,ZK	5	2P+2C	Z	PP
BI-MA2.21	Mathematical Analysis 2 Pavel Paták, Tomáš Kalvoda, Pavel Hrabák, Ivo Petr, Petr Olšák Tomáš Kalvoda Tomáš Kalvoda (Gar.)	Z,ZK	6	3P+2C	Z	PP
BI-APS.21	Architectures of Computer Systems Pavel Tvrdík, Michal Štepanovský Michal Štepanovský Pavel Tvrdík (Gar.)	Z,ZK	5	2P+2C	Z	PS
BI-TPS.21	Computer Networks Technologies Vladimír Smotlacha, Josef Koumar Vladimír Smotlacha Vladimír Smotlacha (Gar.)	Z,ZK	5	2P+2S	Z	PS
BI-V.2021	ist volitelné p edm ty bakalá ského programu Informatika, verze od 2021/22 do 2024/25 BI-ADW.1,BI-ALO, (see the list of groups below)	Min. cours. 0 Max. cours. 94	Min/Max 0/404			V

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BI-KAB.21	Cryptography and Security Ivana Trummová, Josef Kokeš, Róbert Lórencz, Ji í Bu ek, Julia Plotnikova, David Pokorný, Jakub Tetera, Tomáš Rabas, Tomáš Zahradnický, Róbert Lórencz Róbert Lórencz (Gar.)	Z,ZK	5	2P+2C	L	PP
BI-OSY.21	Operating Systems Ladislav Vagner, Ji í Kašpar, Jan Trdli ka, Petr Zemánek, Pavel Tvrdík, Michal Štepanovský Pavel Tvrdík Michal Štepanovský (Gar.)	Z,ZK	5	2P+1R+1L	. L	PP
BI-ADU.21	Unix Administration Zden k Muziká , Petr Zemánek, Miroslav Prágl Zden k Muziká Zden k Muziká (Gar.)	Z,ZK	5	2P+2C	L	PS
BI-VDC.21	Virtualization and Data Centers Ji í Kašpar Ji í Kašpar Ji í Kašpar (Gar.)	Z,ZK	5	2P+2C	L	PS
BI-VPS.21	Selected Topics in Computer Networking Alexandru Moucha, Mohamed Bettaz Pavel Tvrdík Mohamed Bettaz (Gar.)	Z,ZK	5	2P+2C	L	PS
		Min. cours.				
BI-V.2021	ist volitelné p edm ty bakalá ského programu Informatika, verze od 2021/22 do 2024/25	0	Min/Max			V
DI- V.202 I	BI-ADW.1,BI-ALO, (see the list of groups below)	Max. cours.	0/404			V
		94				

Number of semester: 5

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
BI-BPR.21	Bachelor project Zden k Muziká Zden k Muziká (Gar.)	Z	1	0P+0C	Z,L	PP
BI-PST.21	Probability and Statistics Pavel Hrabák, Kamil Dedecius, Jana Vacková, Petr Novák, Jitka Hrabáková Pavel Hrabák Pavel Hrabák (Gar.)	Z,ZK	5	2P+2C	Z	PP

BI-IOT.21	Internet of Things Viktor erný, Lenka Kosková T ísková Lenka Kosková T ísková Lenka Kosková T ísková (Gar.)	Z,ZK	5	2P+2C	Z	PS
BI-SIP.21	Network Programming Jan Fesl Jan Fesl (Gar.)	Z	5	2P+2C	Z	PS
BI-SPS.21	Administration of Computer Networks and Services Jan Kubr, Libor Dostálek Pavel Tvrdík Libor Dostálek (Gar.)	Z,ZK	5	2P+2S	Z	PS
		Min. cours.				
DL \/ 2024	ist volitelné p edm ty bakalá ského programu Informatika,	0	Min/Max			.,
BI-V.2021	verze od 2021/22 do 2024/25 BI-ADW.1,BI-ALO, (see the list of groups below)	Max. cours.	0/404			V
		94				

Number of semester: 6

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
BI-BAP.21	Bachelor Thesis Zden k Muziká Zden k Muziká Zden k Muziká (Gar.)	Z	14		L,Z	PP
BI-TDP.21	Documentation and Presentation Alena Libánská, Ond ej Guth, Petra Pavlí ková, Dana Vynikarová, Tomáš Nová ek Dana Vynikarová Dana Vynikarová (Gar.)	KZ	3	2P+2C	Z,L	PP
		Min. cours.				
BI-PV-PS.21	Povinn volitelné p edm ty specializace po íta ové sít a	1	Min/Max			
	Internet, verze 2021 BI-EHA.21,BI-MSI.21, (see the list of groups below)	Max. cours.	5/15			PV
	Di Elin. Er, Di Wol. Er, (dee die list of groups below)	3				
		Min. cours.				
D. 7144 04	Zkouška z angli tiny 2021	1	Min/Max			
BI-ZKA.21	BI-ANG1,BIE-EEC, (see the list of groups below)	Max. cours.	2/4			PJ
		1				
		Min. cours.				
DI VIOCO	ist volitelné p edm ty bakalá ského programu Informatika, verze od 2021/22 do 2024/25	0	Min/Max			
BI-V.2021	verze od 2021/22 do 2024/25 BI-ADW.1,BI-ALO (see the list of groups below)	Max. cours.	0/404			V
	27 P. T. P.	94				

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

Kód		Name of the group of group (for specification	courses and	d codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
BI-PV-P	S.21		edm ty specializace po íta ové sít a Internet, verze 2021			Min. cours. 1 M Max. cours. 3				PV
BI-EHA.21	Ethical Had	cking	BI-MSI.21	Mobile Networks		BI-ML2.2	21	Machine Lear	ning 2	
	•				Min.	cours.				
BI-V.2	021	ist volitelné p edm verze	ty bakalá sk od 2021/22	ského programu Informatika, 22 do 2024/25		0 . cours. 94	Min/Ma 0/404			V
BI-ADW.1	Windows A	Administration	BI-ALO	Algebra and Logic		BI-AVI.21	i I	Algorithms vis	ually	
BI-A2L	English lar	nguage, preparation fo	BI-APJ	Aplication Programming in Java		NI-AFP		Applied Funct	ional Programn	ning
BIE-ZUM	Artificial In	telligence Fundamen	BI-BLE	Blender		NI-DSP		Database Sys	tems in Practe	S
BI-STO	Storage ar	nd Filesystems	NI-PSD	Public Services Design		BIE-DIF		Differential eq	uations	
NI-DZO	Digital Ima	ge Processing	NI-DDM	Distributed Data Mining		BI-EP1.2	4	Effective prog	ramming 1	
BI-EP2	Efficient Pr	rogramming 2	BI-ANGK	English language, contact prepar .		BI-EJA		Enterprise Jav	/a	
BI-EJK	Enterprise	Java and Kotlin	BI-FMU	Financial and Management Account	nt	BI-HAM		HW accelerate	ed network traf	fic m
BI-HMI	History of I	Mathematics and Infor	BI-ARD	Interactive applications on Ardu		NI-IAM		Internet and N	lultimedia	
BIE-CSI	Introductio	n to Computer Science	FITE-EHD	Introduction to European Economi		BIE-IMA2	2 Introduction to Mathematics 2			2
BI-CS2	C# langua	ge and data access	BI-CS3	Language C# - design of web appl		BI-SQL.1		Language SQL, advanced		
BI-QAP	Quantum a	algorithms and programmi	NI-LSM	Statistical Modelling Lab		BI-HAS		Human Aspects in Cryptograp		
NI-MPL	Manageria	l Psychology	NI-MSI	Mathematical Structures in Compu	l	BI-MPP.2	21	Methods of in	terfacing periph	nera

BI-MIT	Mikrotik technologies	NI-MOP	Modern Object-Oriented Programmi	BI-MVT.21	Modern Visualisation Technologie
BI-MMP	Multimedia team project	BI-ORL	Operations Research and Linear P	NI-OLI	Linux Drivers
BI-ACM	Programming Practices 1	FIT-ACM1	Programming Practices 1	FIT-ACM2	Programming Practices 2
BI-ACM2	Programming Practices 2	FIT-ACM3	Programming Practices 3	BI-ACM3	Programming Practices 3
FIT-ACM4	Programming Practices 4	BI-ACM4	Programming Practices 4	FIT-ACM5	Programming Practices 5
FIT-ACM6	Programming Practices 6	BI-AND.21	Programming for the Android Oper	BI-CS1	Programming in C#
BI-PJV	Programming in Java	BI-PJS.1	JavaScript Programming	BI-KOT	Programing in Kotlin
NI-PSL	Programming in Scala	BI-PMA	Programming in Mathematica	BI-PHP.1	Programing in PHP
BI-PS2	Programming in shell 2	NI-PDD	Data Preprocessing	BI-PKM	Introduction to mathematics
NI-REV	Reverse Engineering	BI-SCE1	Computer Engineering Seminar I	BI-SCE2	Computer Engineering Seminar II
BI-ST1	Network Technology 1	BI-ST2	Network Technology 2	BI-ST3	Network Technology 3
BI-ST4	Network Technology 4	BI-SKJ.21	Scripting Languages	BI-SOJ	Machine Oriented Languages
FIT-SEP	World Economy and Business	BI-SEP	World Economy and Business	NI-SYP	Parsing and Compilers
BI-GIT	Version control system GIT	BIE-SEG	Systems Engineering	TVK1	Physical Education
TVV	Physical education	TV1	Physical Education	TVV0	Physical education
TV2	Physical Education	TV2K1	Physical Education 2	TVKLV	Physical Education Course
TVKZV	Physical Education Course	BI-TS1	Theoretical Seminar I	BI-TS2	Theoretical Seminar II
BI-TS3	Theoretical Seminar III	BI-TS4	Theoretical Seminar IV	BI-TDA	Test driven architecture
NI-TSP	Testing and Reliability	BI-QUA	Quality Assurance	FI-TOP	Academic writing
BI-CCN	Compiler Construction	BI-TEX	TeX and Typography	BI-EHD	Introduction to European Economi
BI-KSA	Cultural and Social Anthropology	BI-ULI	Introduction to Linux	BI-OPT	Introduction to Optical Networks
NI-VCC	Virtualization and Cloud Computi	BI-VHS	Virtual game worlds	BI-VR1	Virtual reality I
BI-VR2	Virtual reality II	BI-VAK.21	Selected Applications of Combina	BI-VMM	Selected Mathematical Methods
NI-VYC	Computability	BI-ZS10	Bachelor internship abroad for 1	BI-ZS20	Bachelor internship abroad for 2
BI-ZS30	Bachelor internship abroad for 3	BI-ZIVS	Intelligent Embedded System Fund	BI-ZPI	Process engineering
BI-ZNF	PHP Framework Nette - basics	BI-IOS	Fundamentals of iOS Application	BI-ZWU	Introduction to Web and User Int
BI-3DT.1	3D Printing			•	·

BI-3DT.1	3D Printing	1								
						cours.				
BI-ZKA.21		-1	v	41		1	Min/Ma	ax		Б.
		Ζκοι	uška z angli tiny 2021			cours.	2/4			PJ
						1				
BI-ANG1	English La	nguage Examination wit	BIE-EEC	English language external certif		BI-ANG		English Langu	age, Internal (Certi

List of courses of this pass:

Code	Name of the course	Completion	Credits
BI-3DT.1	3D Printing	KZ	4
BI-A2L	English language, preparation for the B2 level exam	Z	2
The content of the	course corresponds to the preparation for the English exam at the B2 level. Requirements for course credit. Academic Achievement	students are due	to: -Take an
active part in the I	anguage instructionMeet the requirements for writing assignments - Summary, Abstract, Argumentation PaperSucceed in both the	ne midterm and the	e final term
tests with the succe	ess rate set at 70%80% and over in BOTH tests means ORAL EXAM ONLY (no written part). Requirements will be specified by indi	vidual teachers du	ring the first
	class of the term.		
BI-AAG.21	Automata and Grammars	Z,ZK	5
Students are introd	uced to basic theoretical and implementation principles of the following topics: construction, use and mutual transformations of finite	automata, regular e	expressions,
and regular gramm	ars, context-free grammars, construction and use of pushdown automata, and translation grammars and transducers. They know the	hierarchy of forma	al languages
and the	ey understand the relationships between formal languages and automata. They are introduced to the Turing machine and complexity	classes P and NP.	
BI-ACM	Programming Practices 1	KZ	5
·	This is a selective course for preparing talented student for representation in international programming contests.	'	
BI-ACM2	Programming Practices 2	KZ	5
•	This is a selective course for preparing talented student for representation in international programming contests.	'	'
BI-ACM3	Programming Practices 3	KZ	5
'	This is a selective course for preparing talented student for representation in international programming contests.	•	1
BI-ACM4	Programming Practices 4	KZ	5
	This is a selective course for preparing talented student for representation in international programming contests.	ı	ļ
BI-ADU.21	Unix Administration	Z,ZK	5
	he internal structure of the UNIX operating system, with the administration of its basic subsystems and with the security principles. They	will understand the	differences
between user and a	administrator roles. They will get theoretical and practical knowledge of user management and administration, of users access rights,	file systems, disk s	subsystems,
processes, memo	ry, network services and remote access, and in the areas of system deployment and virtualization. In the labs, they will verify the known	owledge from the l	ectures on
	specific examples from practice.		
BI-ADW.1	Windows Administration	Z,ZK	4
	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	•	'

BI-ARD 12 Algorithms and Graphs 1 The ourse covers the basics of efficient algorithm design, that sucritics, and graph throws, before give the core knowledge of every computing curricular. In this way partially developed by the knowledge from the course Bi-DRL2.1 in which subserits acquire the knowledge and skills in continuous recoverably for enabling the first and success completely. In the course overable bill. All the course control and the bill of the course overable. Plant the course over the bill of the course overable bill. All the course overable in the course over the bill. All the course overable in the course over the bill. All the course overable bill. All the course overable bill of the course overable bill. All the course overabl				
seveles between the two relays from the course DI-DML 21, is which students acquire the two relays and states to approach the services. The course size follows us exonerises from B-MAL 21, the presentation grade greater and the presentation of th	BI-AG1.21	Algorithms and Graphs 1	Z,ZK	5
BI-ALD BI-AND The course about blooks up knowingth from BI-MAY 12, the peached usuage of anywhorth creatments. In personal control, and deeparts the study of typics tourised upon in the basic cause in logic. BI-AND Programming for the Android Operating System The course is presented in Carden. BI-AND Course information and teathing materials can be bound at hispachinocolery-tourised Courses (and the Carden.) BI-AND Course information and teathing materials can be bound at hispachinocolery-tourised Courses (and the Carden.) BI-AND English Language, contract of preparation for the B2 level exam. BI-AND English Language, contract of preparation for the B2 level exam. BI-AND English Language, contract of preparation for the B2 level exam. BI-AND English Language, contract of preparation for the B2 level exam. BI-APD Android English Language, contract of preparation for the B2 level exam. BI-APD Android English Language, contract of preparation for the B2 level exam. BI-APD Android English Language restriction. We preparation for the English Language in the Englis				
BI-AND I Programming for the Android Operating System The course extends and despent and study of prote touched upon in the basic course in logic. BI-AND I Programming for the Android Operating System KZ 4 4 This course is presented in Comb. BI-AND I English Language, Internal Certificate Course information and section, andered can be brown at inters "include-view, and colourse/section physical study and the BI-AND I English Language Examination without Preparatory Courses BI-AND I English Language Examination without Preparatory Courses BI-AND I English Language, contact preparation for the BI-Evel exam The content of the course corresponse to the preparation for the Elder's Requirements for course court Academo Activement - students are due to - Takes and seve part in the integrage interaction. Medicine requirements the requirements are the section of the success can see at 70% - 60% and over in Off tiests return of Off tiests r	· ·			mplexity of
BI-AND 1 Programming for the Android Operating System BI-AND 1 Programming for the Android Operating System BI-AND 1 English Language, internal Confliction BI-AND 1 English Language, internal Confliction BI-AND 2 English Language, internal Confliction BI-AND 2 English Language, internal Confliction BI-AND 2 English Language, contact preparation for the BI-AND 2 Z, Z Z BI-ANDS 2 English Language, contact preparation for the BI-AND 2 English Language, contact preparation for the BI-AND 2 English Language Examination without Preparative Course on Significant and the BI-AND 2 English Language Examination without Preparative Course court Academic Aca	_ _		-	1
BI-ANG Course information and searching materials can be bond at https://incode-yupla.oru.co/course/search ptp?searchs81-ANG English Language (Examination without Proparatory Courses ZZK 2 BI-ANGK English language (Examination without Proparatory Courses ZZK 2 BI-ANGK English language (Examination without Proparatory Courses ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation for the B2 level exam ZZK 2 BI-ANGK English language, contact preparation of the B2 level exam ZZK 2 BI-ANGK English language, contact preparation of the B2 level exam ZZK 4 BI-ANGK English language ZZK 2 BI-ANGK English language ZZK 4 BI-ANGK English language ZZK 4 BI-ANGK English language ZZK 2 BI-ANGK English language ZZK 4 BI-ANGK English language ZZK 2 BI-ANGK English language ZZK 2 BI-ANGK English language ZZK 2 BI-ANGK	BI-ALO		Z,ZN	4
BI-ANG English Language, Internal Certificate ZK 2 BI-ANG1 English Language Examination without Preparatory Courses Z,ZK 2 BI-ANG1 English Language Contact preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The content of the course corresponds to the preparation for the SIZ Evel exam Z 2 The course of the SIZ Evel exam Z 2 The course of the SIZ Evel exam Z 2 The course of the SIZ Evel exam Z 2 The course of the SIZ Evel Z 2 The course of the SIZ Evel exam Z 2 The course is premarised in Certain Apprendix developed in Judicial Evel examination Z 2 The course is premarised in Certain Apprendix developed in Judicial Evel examination Z 2 The course is premarised in Certain Apprendix developed in Judicial Evel examination Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course is premarised in Certain Apprendix of the SIZ Evel Z 2 The course Correlate of SIZ Evel Z 2 The course is designed by students of the size of the SIZ Evel Z 2 The course is designed by students of the size of the SIZ Evel Z 2 The course correlate of the SIZ Evel Z 2 The course correlate of the SIZ Evel Z 2 The course correlate of the SIZ Evel Z 2 The course correlate of the SIZ Evel Z 2 The course correlate of t	BI-AND.21	Programming for the Android Operating System	KZ	4
BI-ANGI English Language Contact preparation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z The content of the course corresponds to the propasation for the BL Plavel exam. Z BL-API	BI-ANG	English Language, Internal Certificate		2
BI-ANCK English language, contact preparation for the BZ level Requirements with the course corresponds to the preparation for the fights exam at the BZ level. Requirements for course credit. Academic Anthewement - students are due to: Take an active part in the language instruction. Meet the requirements for witing assignments - Summany. Adatasac. Argumentation Paper Succeed in both the middleman and the final term tests with the success are set at 70% - 30% and over in BCH1 tests reason SNL LEVAN ONEX from which party. Requirements will be specified by individual teachers during the first class of the term. BI-AP.J Aplication Programming in Java Aplication Programming in Java This course is presented in Cozon-Avenuect technologies in Java. BI-APS.21 BI-APS.21 SLudents will learn the construction principles of internal architecture of computers with universal processors at the level of machine instructions. Special enginesis as given on the programming in the second processors and on the memory historys. Nuterity with universal processors at 100 CC includes and the second processors and multipute enginesis and multipute special model of the program. The counter burther elicitations is the principles and environmental model of the programman and the second processors and multipute special model of the programman and the second processors and multipute special model of the programman and the second processors. In the second programman and the second processors and the second programman and the second programman and t	BI-ANG1			2
The course corresponds to the propagation for the English seam at the \$Z level. Requirements for course credit. Academic Achievement - students are due to - Take an enterway and the the angage instruction. And the three requirements is to virtigo assignments - Summany, Altanca, Argumentation Proper. Succeed in Modern and the fails are the state of the term. BI-APJ Aplication Programming in Java BI-APS.21 Architectures of Computer Systems The course is presented in Cezch. Advanced technologies in Java. BI-APS.21 Architectures of Computer Systems Architectures of Computer Syste				
tests with the success rate set at 70%, 40% and over in 80TH tests means ORAL EXAM ONLY (no written part). Requirements will be specified by individual teachers during the first cases of the term. BI-APJ Aplication Programming in Java This course is presented in Cozet. Advanced technologies in Java. BI-APS.21 Architectures of Computer Systems Students will team the construction principles of internal architecture of computers with universal processors at the level of machine instructions. Special emphasis is given on the periodic restruction processing and on the memory helenoting students will understand the basic concepts of RISC and CISC architectures and the principles of instruction processing and on the memory helenoting students will understand the basic concepts of RISC and CISC architectures and the principles of instruction processing on the principles and architectures of charged memory multiprocessor and multicore systems and the memory because of the opportune of the programmatic entry of the superior is designed for students of first grade of backford study as introduction to interactive applications on Architino BI-ARD Interactive applications on Architino Interactive application on Architino I		1	students are due	to: -Take an
BI-APJ Aplication Programming in Java This course is presented in Coort-Advanced technologies in Java. BI-APS 21 Students will learn the contraction principles of internal architectures of Computer Systems Students will learn the contraction principles of internal architecture of computer with universal processors at the level of machine instructions. Special employees on Internal processors and processors and processors, but also in supercialist is given on the program. The course of internal architectures of charged for RISC and CISC architectures and the momency hearing processors, but also in supercialist processors that can execute multiple instructions in one cycle, while ensuring the correctness of the sequential model of the program. The course of internal enthresis and control varieties of history demonyr multiprocessor and multicore systems and the memory control control program. The course of internal enthresis of history and architectures of shared memory multiprocessor and multicore systems and the memory control control of the program. The course of internal enthresis of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the course of the supercial control of the program of the program of the course of the program	active part in the	language instructionMeet the requirements for writing assignments - Summary, Abstract, Argumentation PaperSucceed in both th	e midterm and the	final term
BI-APJ Aplication Programming in Java This course is presented in Creath Advanced technologies in Java. ZZK 4 BI-APS_21 Architectures of Computer Systems ZZK 5 Students will bearn the construction principles of internal architecture of computer Systems ZZK 5 Students will bearn the construction principles of internal architecture of computer Systems ZZK 5 Students will bearn the construction principles of internal architecture of computer systems ZZK 5 Students will be member to processing and on the memory herarchy. Students will understand the basic concepts of RISC and CISC architectures and the principles of interaction processing on only in scalar processors, that on excessors that can exceed multiple instructions in one cycle, where the ensuring the computer of the sequential model of the program. The course further elaborates the principles and architectures of shared memory multiprocessor and multicors systems and the memory coherence and consistency in such systems. BI-ARD Interactive applications on Ardulino KZ A The subject is designed for students of first grade of baselore study as infroductions on exheaded systems. Students will like the two designs simple applications for modern programmable kits and control varied peripheralis with help of available libraries. The goal of the subject is to show varied discharge approaches to control embedded systems, is, to see the results to orinive original principles of a PC. Thanks to possible control on higher (objective) layer, this platform in Equatority used for artist performance and therefore is suitable were for Web and Software Engineering attachets. BI-AVIZ1 A BI-AVIZ1 The course of programs and the subject is the subject is programs approached to control embedded systems, is, to see the results for the subject of a PC. Thanks to possible control on higher (objective) layer is programs and the subject of the control of the programs and the subject of the control of the programs and the subject of t	tests with the succe		vidual teachers du	ring the first
BI-APS 21 Architectures of Computer Systems ZZK S. Students will learn the construction principles of internal architecture of computers with universal processors at the level of machine instructions. Special emphasis is given on the properties of internal architecture of computers with universal processors at the level of machine instructions. Special emphasis is given on the properties of internal architecture of computers with universal processors at the level of machine instructions. Special emphasis is given on the properties of instruction processing and on the memory programs. The courses of the second of the properties and on the memory program. The courses of the second of the properties and architectures of shared memory multiprocessor and multiprocessors and				
BI-APS_21	BI-APJ		Z,ZK	4
Students will learn the construction principies of Internal architecture of computers with universal processors at the level of machine instructions. Special emphasis is given on the pipelined instruction processing not not in the memory hierarchy. Students will understand the basic concepts of RISCs and ISCs architectures of shared memory undiprocessor and multicore systems and the memory observance and consistency in social programs. The course control for the sequential model of the program. The course depends of the processors, but also in superscalar processors at the consistency in social programs. The course of the sequential model of the programs and the memory coherence and consistency in social states and control varied porpherals with the pol or validable bitmers. The goal of the subject is to show varied software approaches to control embedded systems, Students will learn have to design simple applications for modern programmable sits and control varied porpherals with the pol or validable bitmeris. The goal of the subject is to show varied software approaches to control embedded systems, Students will learn have to design simple applications for modern programmable sits and control varied porpherals with the pol or validable bitmeries. The goal of the subject is to show varied software approaches to control embedded systems, Students and the subject is to show varied software approaches to control embedded systems, Students and the subject is to show varied software approaches to control embedded systems, Students and the subject is to show varied software approaches to control embedded systems, Students will be a subject to show the subject is to show the subject is shown and subject in made possible due to using visuality used for artist performance and therefore is suitable even for Web and Students and subject is shown and subject in made possible due to using visualization by Agovision (www.algovision.org&t.htm.) where the subject is to show the subject is shown and the subject is shown and th	BI-APS.21		Z.ZK	5
not only in solar processors, but also in supersolar processors that can execute multiple instructions in one cycle, while ensuring the correctness of the sequential model of the program. The course further elaborates the principles and architectures of shared memory multiprocessor and multicore systems and the memory coherence and consistency in such systems. BI-ARD Interactive applications on Ardulino Interactive applications applications on Ardulino Interactive applications and Ardulino Interactive applications and Ardulino Interactive applications interactive and Ardulino Interactiv			•	-
BI-ARD Interactive applications on Arduino KZ 4 The authorist designed for students of first grade of bachelor study at introduction to embedded systems. Students will learn how to design simple applications for more programs like and control varied prolipherals with help of available libraries. The goal of the subject is to show varied software approaches to control embedded systems. It is to see the results ror only on display of a PC. Thanks to possible control on higher (objective) layer, this petition is frequently used for arists performance and therefore is suitable oven for Web and Software Engineering students. BI-AVI.21 Algorithms visually Z,ZK 4 The course complements other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer science that extend substantially knowledge presented in BI-ACI and BI-ACI and BI-ACI a wide scope of covered subject is made possible due to using visualization for Algorithms from different fields of the computer science that extend substantially knowledge presented in BI-ACI and BI-ACI an	pipelined instructio	n processing and on the memory hierarchy. Students will understand the basic concepts of RISC and CISC architectures and the princ	iples of instruction	processing
BI-ARD Interactive applications on Arduino Interactive applications on Arduino Interactive applications of tisst grade of bachlor study as introduction to embedded systems. Students will learn how to design striple applications for modern programmative ists and control verified peripherate with help of entablish librates. The poll of the subject is to show varied software approaches to control embedded systems, i.e. to see the results not only on display of a PC. Thanks to possible control on higher (objective) layer, this platform is frequently used for artist performance and therefore is suitable even for Web and Software Engineering students. BI-AVI.21 Selective of the subject is to show varied software approaches to control embedded systems, i.e. to see the results not only on display of a PC. Thanks to possible control on higher (objective) layer, this platform is frequently used for artist performance and therefore is suitable even for Web and Software Engineering students. BI-AVI.21 Algorithms visually Algorithms is suitable even for Web and Software the control of the subject is made possible due to using visualization by Algorition (new algorithms calcium) and the suitable interactive and processed subject is made possible due to using visualization by Algorition (new algorithms algorithms and processed in the subject is made possible and the subject in the subject is the subject in the subject is made possible and animation. It offers a complete and practically oriented introduction to Blender environment. Students may continue to BI-PGA (Programming repairs applications) course. It is intended for those interactived in 2 Jan. All the beginning of the semester. In the subject is the s	•		•	
BI-ARD Interactive applications on Arduino The subjects designed for students of first grade of bachelor study as introduction to embedded systems, such to subject is designed for students of first grade of bachelor study as introduction to embedded systems, such as a control varied peripherals with help of available libraries. The goal of the subject is to show varied software approaches to control embedded systems, i.e. to see the results not only on display of a PC. Thanks to possible control on higher (objective) larger, this platform is frequently used for artist performance and therefore is suitable even for Web and Software Engineering students. BI-AVI.21 BI-AVI.21 Algorithms visually The course complements other algorithm courses at FT. It brings knowledge about particular important algorithms from different fields of the computer science that students usbetantially knowledge presented in BI-AG1 and BI-AG2. A wide scope of covered subject is made possible due to using visualization bz. Algoristion (www.algovision.org&t): that make understanding the principles of algorithms easy. BI-BAP.21 Bachelor Thesis BI-BLE	program. The cours		ence and consiste	ency in such
The subject is designed for students of first grade of baschetor shuty as introduction to embedded systems, Suddents will learn how to design simple applications for modern programmable kits and control or indepthed systems, Le to see the results not only on display of a PC. Thanks to possible control on higher (objective) layer, his platform is frequently used for artist performance and therefore is suitable even for Web and Software Engineering students. BI-AVI.21 BI-AVI.21 Algorithms visually The course complements other algorithm courses at FT. It brings knowledge about particular important algorithms from different fields of the computer science that extend substantially knowledge presented in Bt-AG1 and Bt-AG2. A wide scope of covered subject is made possible due to using visualization bz Algovision (www.algovision.org8t/th.ttp://www.algovision.org8t/th.	DI ADD	·	1/7	
kis and control varied peripherals with help of available libraries. The goal of the subject is to show varied software approaches to control embedded systems, i.e. to see the results not only on display of a PC. Thanks to possible control on higher (cybectro) layer, this platform is frequently used for artist performance and therefore is suitable even for Web and Software Engineering students. BI-AVI.21 Algorithms visually Z,ZK 4 The course complements other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer science hat extend substantially knowledge presented in BI-AGI and BI-AG2. A wide scope of covered subject is made possible due to using visualization by Algoristion cryp&cyl. In the course control in BI-AGI and BI-AG2. A wide scope of covered subject is made possible used to using visualization by Algoristion (cybectro) in the subject of the computer science has been decreased in the computer science has been decreased in the complete and practically oriented introduction to Bender environment. Students may continue to BI-PGA (Programming graphics applications) course. BI-BPR.21 Bachelor Thesis Blender Complete and practically oriented introduction to Bender environment. Students may continue to BI-PGA (Programming graphics applications) course. BI-BPR.21 Bachelor project Z		• • •		
not only on display of a PC. Thanks to possible control on higher (objective) layer, this platform is frequently used for artist performance and therefore is suitable even for Web and Schware Engineering students. BI-AVI.21 Algorithms visually Algorithms visually visually Algorithms visually visually Algorithms visually visually Algorithms visually visuall	-		-	_
BI-AVI.21 Algorithms visually Algorithms visually Z,ZK 4 The course complements other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer science that extend substantially knowledge presented in BI-AG1 and BI-AG2. A wide scope of covered subject is made possible due to using visualization bz. Algovision (www.algovision.org&th.thp://www.algo				
The course complements other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer science that extend substantially knowledge presented in BI-AG1 and BI-AG2. A wide scope of covered subject is made possible due to using vasualization bz. Algoristion (www.algovision.org8lt). That make understanding the principles of algorithms easy. BI-BAP.21 Bachelor Thesis Z Z 14 BB-BLE BBender Z,ZK 4 The course extends knowledge of opensource program Blender from BI-MGA (Multimedia and Graphics Applications) course. It is intended for those interested in 3D graphics and animation. In offers a complete and practically oriented introduction to Blender environment. Students may continue to BI-PGA (Programming graphics applications) course. BI-BPR.21 S Bachelor project Z 1. 1. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completed stees tasks, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. The external supervisor enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://lit.cvut.cz/studen/tstudijn/formulane). The completed and signed form must be delivered in person or by emil to the SZC coordinator, who will arrange for the credit the object of the semester. The completed and signed form must be delivered in person or by emil to the SZC coordinator, the violation and signed form must be delivered in person or by emil to the SZC coordinator, the violation and signed form with the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be alimited primarily at fine-tuning the assignment scan be supplemented and approved at the end of the semester. BI-CCN	,			
The course complements other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer science that extend substantially knowledge presented in BI-AG1 and BI-AG2. A wide scope of covered subject is made possible due to using vasualization bz. Algoristion (www.algovision.org8lt). That make understanding the principles of algorithms easy. BI-BAP.21 Bachelor Thesis Z Z 14 BB-BLE BBender Z,ZK 4 The course extends knowledge of opensource program Blender from BI-MGA (Multimedia and Graphics Applications) course. It is intended for those interested in 3D graphics and animation. In offers a complete and practically oriented introduction to Blender environment. Students may continue to BI-PGA (Programming graphics applications) course. BI-BPR.21 S Bachelor project Z 1. 1. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completed stees tasks, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. The external supervisor enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://lit.cvut.cz/studen/tstudijn/formulane). The completed and signed form must be delivered in person or by emil to the SZC coordinator, who will arrange for the credit the object of the semester. The completed and signed form must be delivered in person or by emil to the SZC coordinator, the violation and signed form must be delivered in person or by emil to the SZC coordinator, the violation and signed form with the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be alimited primarily at fine-tuning the assignment scan be supplemented and approved at the end of the semester. BI-CCN	BI-AVI.21	Algorithms visually	Z,ZK	4
BI-BAP.21 Bachelor Thesis Z, 14 BI-BLE BIENDE Blender Blender Blender Blender Control of the semester of the semester of the semester of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR 2t the end of the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR 2t the end of the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR 2t the end of the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR 2t the end of the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR 2t the end of the semester of the final thesis' (http://fit.cvut.cz/studen/studin/informulare). The completed and signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the suspension of the semester is formulated more generally, the tasks assigned to him by the supervisor for the semester. BI-CCN Complier Construction This is an introductory class on complier construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compliers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compliation is the overarching them of the class. BI-CS1 Programming in C# The goal of the course is to introduce. NET Framework as a multi-la	The course comple	· · · · · · · · · · · · · · · · · · ·	ence that extend	substantially
BI-BAP.21 BI-BLE	knowledge presente		;http://www.algovis	sion.org>)
BI-BLE The course extends knowledge of opensource program Blender from BI-MGA (Multimedia and Graphics Applications) course. It is intended for those interested in 3D graphics and animation. It offers a complete and practically oriented introduction to Blender environment. Students may continue to BI-PGA (Programming graphics applications) course. BI-BPR.21 I. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completes these tests, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. 2. The external supervisor enters the information on granting the credit using the form 'Granting credit from the external supervisor of the final thesis' (http://lift.cvut.cz/student/studijni/formulare). The completed and signed form must be delivered in person or by email to the S22 coordinator, who will arrange for redit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN Compiler Construction Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# Programming in C# The goal of the course is to introduce. NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, constructors, methods, properties, static members, Garbage Collector, inher				1
The course extends knowledge of opensource program Blender from BI-MGA (Multimedia and Graphics Applications) course. It is intended for those interested in 3D graphics and animation. It offers a complete and practically oriented introduction to Biender environment. Students may continue to BI-PGA (Programming graphics applications) course. Bi-BPR.21 1. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. 2. The external supervisor enters the information on granting the credit using the form 'Granting credit from the external supervisor of the final thesis' (http://fli.cvut.cz/student/studipinformulare). The completed and stigned form must be delivered in person or by email to the \$2Z coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aim of primarily at fine-tuning the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN BI-CCN Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 The goal of the course is to introduce. NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented progra		Bachelor Thesis		
Bi-BPR.21 I. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the partial tasks that he / she will perform during the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject Bi-BPR at the end of the semester. 2. The external supervisor enters the information on granting the credit using the form 'Granting receif time the external supervisor of the final thesis' (http://tit.cvu.c/stuteden/studip/informalaro). The completed and signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment so that the assignment so that the assignment so that the supervisor for the semesters should be aimed primarily at fine-tuning the assignment so that the assignment so that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment so the supervisor of the semester should be aimed primarily at fine-tuning the assignment so that the assignment so the supervisor so			•	
BI-BPR.21 Bachelor project			_	-
1. At the beginning of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the 'partial tasks that he / she will perform during the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. 2. The external supervisor enters the information on granting the credit using the form 'Granting credit from the external supervisor of the final thesis' (http://fit.cvut.cz/studen/studipii/formulare). The completed and signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN Compiler Construction Compiler Construction Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# The goal of the course is to introduce. NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data			7	1
perform during the semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR at the end of the semester. 2. The external supervisor enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://fit.cvut.cz/student/studijn/formulare). The completed and signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# The goal of the course is to introduce. NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is to foused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader a		· · ·	∠ hartial tasks that h	I e / she will
external supervisor enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://fit.cvut.cz/student/studijni/formulare). The completed and signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the topic of the work that the student has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO-NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated direct	-			
has reserved is formulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assignment so that the assignment can be supplemented and approved at the end of the semester. BI-CCN Compiler Construction San introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v. ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (CRM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get	external supervisor	enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://fit.cvut	.cz/student/studijn	i/formulare).
BI-CCN Compiler Construction This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access work entry that the complex of the calculation of the course of the calculation of the calcu	•			
BI-CCN This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce. NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - as set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 Language C# - design of web applications KZ 4 Students will be introduced to current technologies in web application developmen	has reserved is for		nment so that the	assignment
This is an introductory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles of compilers for students to understand the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching theme of the class. BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access. C# language and data access course objective data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplat	DI CON		7 71/	
BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables. NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications Language C# - design of web applications Eagluage C# - design of web applications BI-DBS.21 Database Systems JZ,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They are briefly introduced to special ways of storing data in relational		•		
BI-CS1 Programming in C# KZ 4 The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2 C# language and data access KZ 4 The C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables. NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPl and to use it by client programs. BI-DBS.21 Database Systems Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models.			-	
The goal of the course is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental construction, types of variables, operators, arrays, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class definition and class instancing, constructors, methods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging and exception processing, as well as work with files are emphasized. BI-CS2				
BI-CS2 C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access				1
BI-CS2 C# language and data access The C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases	operators, arrays	s, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class defi	nition and class in	stancing,
BI-CS2 C# language and data access KZ 4 The C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing	constructors, meth		and exception pro	cessing, as
The C# language and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Microsoft platform. The students will get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables. NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect		·		
get to know objects used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies such as LINQ - a set of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3				l .
of features for querying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (LINQ to Objects, LINQ to XML and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and				tudents will
and LINQ to SQL). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects (ORM). This part of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model, Storage Model and Mapping (XML description). BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	get to know object	· · · · · · · · · · · · · · · · · · ·	-	INO - a set
BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	of features for que	s used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technics	ologies such as L	
BI-CS3 Language C# - design of web applications KZ 4 The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	•	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current techn rying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (L	ologies such as L INQ to Objects, LI	NQ to XML
The students will be introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the development possibilities on thisplatform. They will learn to create WebAPI and to use it by client programs. BI-DBS.21 Database Systems Sudents are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current techn rying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (L). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data u	ologies such as L INQ to Objects, LI sing domain-spec	NQ to XML ific objects
BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part o	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technology and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (L.). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data uf the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model. (XML description).	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a	NQ to XML ific objects nd Mapping
BI-DBS.21 Database Systems Z,ZK 5 Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part o	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technology and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (L.). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data u f the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model. (XML description). Language C# - design of web applications	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a	NQ to XML ific objects nd Mapping
Students are introduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn to design small databases (including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part o	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the course introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the course introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the course introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the course introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview of the course introduced to current technologies in web application development on the .NET platform.	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a	NQ to XML ific objects nd Mapping
(including integrity constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the SQL language, as well as with its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part of BI-CS3 The students will be	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the content of the course introduced to current technologies in web application. They will learn to create WebAPI and to use it by client programs.	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ f the development	NQ to XML iffic objects nd Mapping 4 possibilities
its theoretical foundation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundamental concepts of transaction processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part of BI-CS3 The students will be	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the content of the course introduced to current technologies in web application development on the NET platform. They will learn to use current technologies in web application. Database Systems	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ f the development	NQ to XML iffic objects and Mapping 4 possibilities
processing, controlling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to special ways of storing data in relational databases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of database systems, debugging and	and LINQ to SQL (ORM). This part of BI-CS3 The students will be BI-DBS.21 Students are intr	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the course introduced to current technologies in web application development on the .NET platform. They will learn to use current technologies on thisplatform. They will learn to use current technologies models. They learn so database of the	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ f the development Z,ZK n to design small of	NQ to XML iffic objects and Mapping 4 possibilities 5 databases
	and LINQ to SQL (ORM). This part of BI-CS3 The students will be BI-DBS.21 Students are intr (including integrity	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the course introduced to current technologies in web application development on the .NET platform. They will learn to use current technologies data and to use it by client programs. Database Systems oduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn constraints) using a conceptual model and implement them in a relational database engine. They will learn to experience with the standard part of the surface of	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ f the development Z,ZK n to design small of	NQ to XML iffic objects and Mapping 4 possibilities 5 databases well as with
optimizing database applications, distributed database systems, data stores.	and LINQ to SQL (ORM). This part of BI-CS3 The students will be BI-DBS.21 Students are intresting integrity its theoretical found.	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data ure of the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model (XML description). Language C# - design of web applications introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview on thisplatform. They will learn to create WebAPI and to use it by client programs. Database Systems oduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the station - the relational database model. They learn the principles of normalizing a relational database schema. They understand the fundates the station in the relational database schema. They understand the fundates the fundates are supported by the station in the relational database schema. They understand the fundates the fundates are supported by the stational database schema. They understand the fundates are supported by the stational database schema. They understand the fundates are supported by the stational database schema. They understand the fundates are supported by the stational database schema.	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ f the development Z,ZK n to design small of SQL language, as mental concepts o	NQ to XML iffic objects and Mapping 4 possibilities 5 databases well as with f transaction
	BI-CS3 The students will be BI-DBS.21 Students are intr (including integrity its theoretical founce processing, control	is used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current technologies in the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Model (XML description). Language C# - design of web applications introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview on thisplatform. They will learn to create WebAPI and to use it by client programs. Database Systems oduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They learn constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the slation - the relational database model. They learn the principles of normalizing a relational database schema. They are briefly introduced to the parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to the parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to the parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to the parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced to the parallel user access to a single data source, as well as recovering a database engine from a failure.	ologies such as L INQ to Objects, LI sing domain-spec Storage Model a KZ If the development Z,ZK In to design small of SQL language, as mental concepts of po special ways of	NQ to XML iffic objects and Mapping 4 possibilities 5 databases well as with ff transaction storing data

BI-DML.21	Discrete Mathematics and Logic	Z,ZK	5
Students will get ac	quainted with the basic concepts of propositional logic and predicate logic and learn to work with their laws. Necessary concepts from		_
_	paid to relations, their general properties, and their types, especially functional relations, equivalences, and partial orders. The cours	-	-
·	combinatorics and number theory, with emphasis on modular arithmetics.	•	
BI-EHA.21	Ethical Hacking	Z,ZK	5
	ourse is to introduce students to the field of penetration testing and ethical hacking. The course deals with cybersecurity threats, vulnerables to the field of penetration testing and ethical hacking.		_
_	puter networks, web applications, wireless networks, operating systems, and others like the Internet of Things or cloud. The focus is		-
onpronation in com	vulnerabilities testing and the following process of penetration test documentation.	on name on one	
BI-EHD		Z,ZK	3
ן סו-בחט	Introduction to European Economic History This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	Z,ZN	3
DI E IA		7.71/	
BI-EJA	Enterprise Java	Z,ZK	4
The course is on a	dvanced technologies in the Java programming language. The focus is on technologies for development of enterprise information sys	stems which are co	nnected to
	a database and are accessed through the web interface.		
BI-EJK	Enterprise Java and Kotlin	Z,ZK	4
The course is on ac	lvanced technologies in the Java and Kotlin programming languages. The focus is on technologies for developing enterprise informat	ion systems with n	nicroservice
	architecture, that can be deployed to the cloud.		
BI-EP1.24	Effective programming 1	KZ	4
'	The course is taught in Czech.	'	
BI-EP2	Efficient Programming 2	KZ	4
	icient Programming 1. Students will practice implementation of algorithms by solving typical problems. Various ways of solving individuals		•
00111111001101101101	with the aim to choose the best one and avoid implementation errors.	auai probionio aro	a,
BI-FMU	· · · · · · · · · · · · · · · · · · ·	Z,ZK	5
	Financial and Management Accounting se is explanation of basic terms in the theory of accounting, the principles of balancing the property amounts and liabilities in the par		
	se is explanation of basic terms in the theory of accounting, the principles of balancing the property amounts and habilities in the par unts and accounting statements including opening and closing of bookkeeping. The course provides students with a legal modificatio	_	-
•			•
or economic oper	ations based on current methods of double-entry bookkeeping for enterprising subjects in the Czech Republic. Principles of manager	ment accounting a	re base or
	Business Inteligence moduls in Business information systems.		
BI-GIT	Version control system GIT	KZ	2
	roduced to basic principles of version control systems. These principles will be then shown on DCVS Git both theoretically and practi		
even the ir	nplementation details will be shown. Students will be challenged to use Git as users, project managers, team leaders as well as Git s	server administrato	rs.
BI-GIT.21	SW Development Technologies	Z	3
This course is aime	d at one of the rudimental team software development technology - version control. To be more specific, we will introduce students to	Git, the information	on manager
	from hell, as Linus Torvalds nicknamed it, and provide a comprehensive guide into its depths, as well as for day-to-day use).	
BI-HAM	HW accelerated network traffic monitoring	KZ	4
	luces students to modern and widely used technologies and principles in the area of network infrastructure and traffic monitoring. Th	e monitoring and a	nalysis of
	mandatory skills to network operators (planning and development of resources and infrastructure) and security analysts alike (as a s	_	-
	oals of the course are to acquaint students with the modern trends and cornerstone principles in the area of monitoring network traffi		
, , ,	level and to develop their practical abilities in this field.		
BI-HAS			
	Human Aspects in Cryptography and Security	7 7K	5
	Human Aspects in Cryptography and Security	Z,ZK	5
	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers		_
This course is for s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security.	s. Students of this	course can
	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics		_
This course is for s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech.	s. Students of this o	course can
This course is for s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad	s. Students of this	course can
This course is for s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech.	s. Students of this o	course can
This course is for s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad	s. Students of this o	course can
BI-HMI BI-IOS BI-IOT.21	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech.	z,ZK KZ Z,ZK	3 4 5
BI-HMI BI-IOS BI-IOT.21 The course focuses	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things	z,ZK KZ Z,ZK view of sensors an	3 4 5 d actuators,
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communications.	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over	Z,ZK KZ Z,ZK view of sensors anotures for different	3 4 5 d actuators, application
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communications.	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect.	Z,ZK KZ Z,ZK view of sensors anotures for different	3 4 5 d actuators, application
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS).	Z,ZK KZ Z,ZK view of sensors an ctures for different (hardware - ARM,	3 4 5 d actuators, application ESP, STM;
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of propriate in the field of the Internet of Things (IoT). Computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security	Z,ZK KZ Z,ZK view of sensors an ctures for different (hardware - ARM,	3 4 5 d actuators, application ESP, STM;
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas with the course focus areas. Within the course focus areas. Within the course focus areas without the course focus areas within th	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of propriate interest of the include an overview of lot architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to	Z,ZK KZ Z,ZK view of sensors an ctures for different (hardware - ARM, use cryptographic	3 4 5 d actuators, application ESP, STM; 5 keys and
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas with the course focus areas. Within the course focus areas within the course focus areas within the course focus areas.	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of propriate interest of the include an overview of lot architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to tems based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applications.	Z,ZK KZ Z,ZK view of sensors an ctures for different (hardware - ARM, use cryptographic ications. Within lab	3 4 5 d actuators, application ESP, STM; 5 keys and s, students
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas will und certificates in systemil gain pre	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of propriate in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of propriate in the computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the specific propriate in the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicational skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process.	Z,ZK KZ Z,ZK view of sensors an ctures for different (hardware - ARM, use cryptographic ications. Within lab dures of cryptanaly	3 4 5 d actuators, application ESP, STM; 5 keys and s, students rsis.
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses will und certificates in system will gain presented by the course of the cour	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the special skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic proced	Z,ZK KZ Z,ZK view of sensors an etures for different (hardware - ARM, z,ZK use cryptographic ications. Within lab dures of cryptanaly Z,ZK	3 4 5 d actuators, application ESP, STM; 5 keys and s, students rais. 4
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas will und certificates in system will gain problem. BI-KOT Kotlin is a modern	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the special skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process Programing in Kotlin , statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advance of the program in the process of the program in the process of the program in	Z,ZK View of sensors an etures for different (hardware - ARM, use cryptographic lications. Within lab dures of cryptanaly Z,ZK need language con	3 4 5 d actuators, application ESP, STM; 5 keys and s, students rais. 4 structions.
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas will und certificates in system will gain problem. BI-KOT Kotlin is a modern	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to ems based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process in the context of programing in Kotlin The statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advarilly Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a restriction of the context of the development of a restriction of the context of the cont	Z,ZK View of sensors an etures for different (hardware - ARM, Z,ZK use cryptographic lications. Within lab dures of cryptanaly Z,ZK nced language conmodern, object-fun	3 4 5 d actuators, application ESP, STM; 5 keys and s, students rais. 4 structions.
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas will und certificates in system will gain problem. BI-KOT Kotlin is a modern The language is further significant of the second of the seco	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to ems based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic procedural programing in Kotlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advarulty Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a rewritten minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages)	Z,ZK View of sensors and ctures for different (hardware - ARM, Use cryptographic dications. Within lab dures of cryptanally Z,ZK need language commodern, object-fun	3 4 5 d actuators, application ESP, STM; 5 keys and s, students rsis. 4 structions. ctional way
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas within the course focuses. Within the course focuses will gain practificates in system will be a system will be	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the shaded on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process programing in Kotlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advaruity Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a rewith minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages) Cultural and Social Anthropology	Z,ZK KZ Z,ZK view of sensors and ctures for different (hardware - ARM, Use cryptographic ications. Within lab dures of cryptanally Z,ZK need language conmodern, object-fundarent.	3 4 5 d actuators, application ESP, STM; 5 keys and as, students risis. 4 structions. ctional way
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas within the course focuses wireless communicareas. Within the course focuses will gain practificates in system will gain practificate in system will be approximately as a syst	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the shaded on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic procedor Programing in Kotlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advaruity Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a restriction of the project of the projects that preserve existing parts written in Java, and continue with the development of a restriction of the project of the projects that preserve existing parts written in Java, and continue with the development of a restriction of the project	Z,ZK View of sensors and tures for different (hardware - ARM, Use cryptographic ications. Within lab dures of cryptanally Z,ZK noced language conmodern, object-fun to the world - executed to the world - executed to the control of the world - executed to the world - executed to the control of the world - executed to the control of the world - executed to the control of the co	3 4 5 d actuators, application ESP, STM; 5 keys and as, students risis. 4 structions. ctional way 2 umples from
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas within the course focuses wireless communicareas. Within the course focuses will gain practificates in system will gain practificate in system will be approximately as a syst	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the mathematical	Z,ZK View of sensors and tures for different (hardware - ARM, Use cryptographic ications. Within lab dures of cryptanally Z,ZK noced language conmodern, object-fun to the world - executed to the world - executed to the control of the world - executed to the world - executed to the control of the world - executed to the control of the world - executed to the control of the co	3 4 5 d actuators, application ESP, STM; 5 keys and as, students risis. 4 structions. ctional way 2 umples from
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas within the course focuses will gain proposed by the second by the se	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to sens based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic procectomy. Programing in Kotlin Internet of Things Internet of Thin	Z,ZK View of sensors and tures for different (hardware - ARM, use cryptographic ications. Within lab dures of cryptanally Z,ZK need language conmodern, object-fun by of the world - example, history, death, etc.	3 4 5 d actuators, application ESP, STM; 5 keys and as, students asis. 4 structions. ctional way 2 amples from acc) will be
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain proposed by the second by the s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the space on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process. Programing in Kotlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advar lay Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a report with minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages) Cultural and Social Anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity earch from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health shown	Z,ZK KZ Z,ZK view of sensors and ctures for different and chardware - ARM, Z,ZK use cryptographic ideations. Within labe dures of cryptanally Z,ZK uced language conmodern, object-fundern, object-fund	3 4 5 d actuators, application ESP, STM; 5 keys and as, students asis. 4 structions. actional way 2 amples from acc) will be
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain practificates in system will gain practif	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the shade on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic procectory. Programing in Kotlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advartily Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a restrict of the extensive parts written in Java, and continue with the development of a restrict of the extensive parts written in Java, and continue with the development of a restrict of the extensive parts written in Java, and continue with the development of a restrict part of the extensive parts written in Java, and continue with the development of a restrict part of the part of th	Z,ZK View of sensors and tures for different (hardware - ARM, Use cryptographic ications. Within lab dures of cryptanally Z,ZK Inced language conmodern, object-fun is ZK y of the world - example, history, death, et	3 4 5 d actuators, application ESP, STM; 5 keys and ss, students risis. 4 structions. ctional way 2 amples from ac) will be 5 ex numbers
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain proposed by the second by the s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the subset of the mathematical foundations of cryptography and gain an overview of current cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process in the programing in Kotlin and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a crypt part and social Anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity search from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health shown. The course is presented in Czech. Linear Algebra 1 students to the basic concepts of linear algebra, such as vectors, matrices, vector spaces. We will define vector spaces over the field fields. We will present the concepts of basis and dimension and learn to	Z,ZK view of sensors and tures for different and the complete the com	3 4 5 d actuators, application ESP, STM; 5 keys and as, students rais. 4 structions. ctional way 2 amples from ac) will be 5 ex numbers 1) and show
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain proposed by the second by the s	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architect computer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to sens based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process programing in Kottlin In statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advar larguage compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a result minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages) Cultural and Social Anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity earch from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health shown. T	Z,ZK view of sensors and tures for different and the complete the com	3 4 5 d actuators, application ESP, STM; 5 keys and as, students rais. 4 structions. ctional way 2 amples from ac) will be 5 ex numbers 1) and show
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the communicareas. Within the communicareas in system will gain promote and also over finite the connection with the connection with the singular system.	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to tens based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process in a statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advar lay Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a restrict mathematical students with the basics of social and cultural anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity earch from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health shown. The course is presented in Czech. Linear Algebra 1 Linear Algebra 1 Linear manifolds. We define th	S. Students of this of Z,ZK Z,ZK view of sensors and ctures for different of the control of th	3 4 5 d actuators, application ESP, STM; 5 keys and as, students rais. 4 structions. ctional way 2 amples from ac) will be 5 ex numbers 1) and show actors of a
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the communicareas will und certificates in system will gain promote BI-KOT Kotlin is a modern The language is furble and the system anthropological results and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and also over finite the connection with the system and t	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cation technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to tems based on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process in the continuous process of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process programing in Kotlin and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a rewith minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages) Cultural and Social Anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity earch from our "exotic" cultures (topics: kinship, soci	Z,ZK View of sensors and ctures for different and characteristics. Within lab dures of cryptanally Z,ZK use cryptographic ideations. Within lab dures of cryptanally Z,ZK use dlanguage conmodern, object-fun and completed and complete at an analysis and complete	3 4 5 d actuators, application ESP, STM; 5 keys and as, students visis. 4 structions. ctional way 2 amples from acc) will be 5 ex numbers 4) and show actors of a
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the communicareas will und certificates in system will gain promote BI-KOT Kotlin is a modern The language is furble and also over finite the connection will be signed and also over finite the connection will be signed and the cours	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcention technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the subsect on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic proceder. Programing in Kotlin statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advarrence of the program of the pr	Z,ZK view of sensors and ctures for different and complete to the world - example to the w	3 4 5 d actuators, application ESP, STM; 5 keys and as, students asis. 4 structions. actional way 2 amples from acc) will be 5 ax numbers 1) and show actors of a 5 sequences
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain proposed by the course of the language is further search anthropological results. BI-KSA The one-semester anthropological results and also over finite the connection with the course for the course of the course of the course and real functions of the course of	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an over cartion technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the shaded on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic process in the statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advartily Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a rewith minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages) Cultural and Social Anthropology course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity earch from our "exotic" cultures (topics: kinship, religion, social exclusion, miprology as a scientific discipline dealing with the diversity earch from our "exotic" cu	Z,ZK view of sensors and ctures for different and complete date on the world - example attorned and complete attorned and eigenverse and eigenverse and eigenverse and eigenverse are the world - example attorned language conmodern, object-fun and complete attorned language constant and eigenverse and ei	3 4 5 d actuators, application ESP, STM; 5 keys and ss, students riss. 4 structions. ctional way 2 amples from ac) will be 5 ex numbers 1) and show actors of a 5 sequences I foundation
BI-HMI BI-IOS BI-IOT.21 The course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses wireless communicareas. Within the course focuses will gain proposed by the second of the language is further second for the course and also over finite the connection with the second for the language is further second for the language is further second for the second for the language is further second for the language is furt	students interested not only in technical scope of computer science, but also in making products usable - for users and for developers use their gained knowledge to design, plan and analyse their own projects in the context of human-centered security. History of Mathematics and Informatics This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad This course is presented in Czech. Internet of Things on an overview of technologies and development tools used in the field of the Internet of Things (IoT). Lectures are devoted to an overcention technologies designed primarily for this area, and appropriate programming methods. They include an overview of IoT architectomputer labs, students will gain practical experience with developing simple IoT systems using common development environments software - Arduino, Raspberry Pi OS). Cryptography and Security erstand the mathematical foundations of cryptography and gain an overview of current cryptographic algorithms. They will be able to the subsect on them and learn the basics of safe use of symmetric and asymmetric cryptographic systems and hash functions in applicatical skills in using standard cryptographic methods with an emphasis on security and will also get acquainted with the basic proceder. Programing in Kotlin statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advarrence of the program of the pr	Z,ZK view of sensors and ctures for different and complete date of cryptanally Z,ZK use cryptographic ications. Within lab dures of cryptanally Z,ZK use dlanguage conmodern, object-fun by C,ZK coed language conmodern, object-fun by C,ZK of the world - example at and complete dation method (GEM values and eigenversible values and eigenversible cons. This theoretical isolution of simple at solution of simple and considerations.	3 4 5 d actuators, application ESP, STM; 5 keys and ss, students risis. 4 structions. ctional way 2 amples from acc) will be 5 ex numbers 1) and show actors of a 5 sequences I foundation optimization

BI-MA2.21	Mathematical Analysis 2	Z,ZK	6
•	etes the theme of analysis of real functions of a real variable initiated in BI-MA1 by introducing the Riemann integral. Students will learn on method.The next part of the course is devoted to number series, and Taylor polynomials and series. We apply Taylors theorem to the		, . I
	escribed accuracy. Then we study the linear recurrence equations with constant coefficients, the complexity of recursive algorithms, an	=	- 1
theorem. Finally,	we introduce the student to the theory of multivariate functions. After establishing basic concepts of partial derivative, gradient, and H	lessian matrix, we s	study the
	of localization of local extrema of multivariate functions as well as the numerical descent method. We conclude the course with the integ	ration of multivariate	
BI-MIT	Mikrotik technologies	KZ	3
	on of the subject stands in the introduction of the RouterOS operating system and some network Mikrotik technologies which are con vice providers (ISPs). The students learn how to use and create the architectures of the network solutions which are based on the me		
	strate and practically deploy them. The successful completion of this subject requires the previous knowledge of elementary computer ne	· ·	
	and technologies of the data-link, network and transport layer of the OSI model.	, , , , , , , , , , , , , , , , , , , ,	
BI-ML2.21	Machine Learning 2	Z,ZK	5
=	purse is to introduce students to the selected advanced methods of machine learning. In the supervised learning scenario, they, in par		
and neural networ	ks. In the unsupervised learning scenario students learn the principal component analysis and other dimensionality reduction method basic principles of reinforcement learning and natural language processing.	ls. Moreover, studer	nts get the
BI-MMP	Multimedia team project	KZ	4
DI-IVIIVII	This course is presented in Czech.	IVE	7
BI-MPP.21	Methods of interfacing peripheral devices	Z,ZK	5
The course is focus	sed on methods for interfacing of peripheral devices. Interfacing of real peripheral devices is focused on techniques based on Universa	l serial bus (USB).	The course
includes both PC	side and peripheral devices side. Labs are practically oriented. Students gain experience with implementation of relevant parts of USE	devices, Linux and	d Windows
DI MOLO4	drivers, simple application development, and APIs of selected devices.	7.71	
BI-MSI.21	Mobile Networks course is to acquaint students with basic principles of mobile networks 4G, 5G, and with multimedia data transfers in these networks.	Z,ZK	5
-	art cards and their use for authentication of users of mobile networks. The computer labs will be based on simulations of mobile networks.		-
F	preceding courses BIE-PSI and BIE-VPS and completes the overall student's knowledge mainly in the area of high-speed mobile r		
BI-MVT.21	Modern Visualisation Technologies	Z,ZK	5
_	urse is to give an overview of modern visualization technologies and their principles, namely technologies related to virtual and augm		
high resolution disp	olays (e.g., SAGE and video mapping) and their applications in practice. Several lectures deal with the content creation for the mentione and procedural visualization, scientific data visualization, and 3D model scanning.	d technologies, nar	mely fractal
BI-OPT	Introduction to Optical Networks	Z.ZK	4
_	overview of optical networking technology with the emphasis on practical utilization in Internet and in network infrastructures, on poss	,	
=	technology and on their solutions. The course will include the history of optical communications, an overview of passive components	-	
	sators, and others), and an overview of active components (optical switches and amplifiers, high-speed coherent transmission system		
· · · · · · · · · · · · · · · · · · ·	e topics presented at premium research conferences, such as ECOC or OFC. Attention will also be paid to new applications, such as		
uitrastable freque	ncy transfer, or sensor networks. The labs will focus on real work with optical components and on measurement of their parameters. from practice.	Students will solve i	real tasks
BI-ORL	Operations Research and Linear Programming	KZ	5
	o introduce students to the issues of operational research and primarily to the practical application of linear programming as a fundar		-
Operatio	nal research primarily focuses on the use of engineering methods (with a mathematical background) to solve practical problems (suc	h as management).	
BI-OSY.21	Operating Systems	Z,ZK	5
	s a follow-up of the Unix-like operating systems course students deepen their knowledge in areas of OS kernels, process and thread imp		
critical regions, thre	ead scheduling, shared resource allocation and deadlocks, management of virtual memory and data storages, file systems, OS monit and implement simple multithreaded applications. General principles are illustrated on operating systems Solaris, Linux, or MS W		e to design
BI-PA1.21	Programming and Algorithmics 1	Z,ZK	7
	ability to formulate algorithms for solving basic problems and write them in the C language. They understand data types (simple, struc		
statements, functi	ons, concept of recursion. They learn to analyse simple cases of algorithm complexity. They know fundamental algorithms for searchi	ng, sorting, and ma	nipulating
	with linked lists and trees.		
BI-PA2.21	Programming and Algorithmics 2 instruments of object-oriented programming and are able to use them for specifying and implementing abstract data types (stack, que	Z,ZK	7
	n these skills using the C++ programming language and are introduced to all C++ features needed in object-oriented programming (e	-	-
102.0)	copying/moving of objects, operator overloading, inheritance, polymorphism).	igi, template progre	,g,
BI-PHP.1	Programing in PHP	KZ	4
	aught in Czech Main goal of the course is an introduction to PHP - language and technology. Students will learn also best practices a		
development in	PHP. The course is recommended for students of BIE-WSI-WI.2015 branch of study and do not have required knowledge to register f	or BIE-TWA.1. They	y should
BI-PJS.1	register for this course in their 3rd semester of study.	KZ	4
	JavaScript Programming course is an introduction to Javascript programming. Students will learn also best practices and will use tool that eases development		
-	students of BIE-WSI-WI.2015 branch of study and do not have required knowledge to register for BIE-TWA.1. They should register for the	="	
	of study.		
BI-PJV	Programming in Java	Z,ZK	4
DI DIGI	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).		
BI-PKM	Introduction to mathematics This course is presented in Czech.	Z	4
BI-PMA	Programming in Mathematica	Z,ZK	4
	rrogramming in Mathematica orking with modern technical and scientific software. Students will learn how to use different programming styles (functional programm		
		2	- 3,
	etc.), how to create dynamic interactive applications and visualisations, data processing and presentations.		
BI-PS2	Programming in shell 2	Z,ZK	4

BI-PSI.21	Computer Networks	Z,ZK	5
	ices students to the principles of computer networking. It covers basic technologies, protocols, and services commonly used in local is swill be amended by proseminars that introduce students into network programming and demonstrate the abilities of advanced network programming and demonstrate the advanced network ne		
	actically verify configurations and management of network devices in the lab within the environment of the operating systems Linux a	_	Judenis
BI-PST.21	Probability and Statistics	Z,ZK	5
	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables.	-	
	om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction Known distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistica	=	
Communications of unit	the statistical dependence of two or more random variables.	i hypotheses and di	cicilling
BI-QAP	Quantum algorithms and programming	KZ	5
•	ing students hands-on experience with quantum computers and their programming. We focus on fundaments of quantum mechanics, or	•	
	gorithms showing advantages and limitations of quantum computing. During tutorials students work in open-source software develop ge. Knowledge of linear algebra at the level of BI-LA1 and BI-LA2 (or BI-LIN) is necessary. Previous completion of BI-MA2 or BI-VMN		
orr ythorriangua	might be an advantage. No previous knowledge of physics is assumed.	and expendice w	idi i ydioii
BI-QUA	Quality Assurance	KZ	4
	duces students to the fundamentals of testing and quality management. Students will learn what the role of a tester is in the context		
-	will experience hands-on application testing using both manual and automated testing. At the end of the semester, the student should n a set of test scenarios, prepare test data, automate an appropriate portion of the scenarios, and prepare a report on the bugs foun		
BI-SAP.21	Computer Structure and Architecture	Z,ZK	5
	acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith		
memory, I/O comm	unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple proce	ssor is practically in	nplemented
DI 0054	in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools.	- T	4
BI-SCE1 The Seminar of Co	Computer Engineering Seminar I mputer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance t	Z Z	4 s Students
	idividually within the subject. Each student or group of students solves some interesting topic with the selected supervisor. Part of the		
articles and other p	professional literature and/or work in K N laboratories. The capacity of the subject is limited by the possibilities of the seminar teacher	rs. The topics are no	ew for each
DI 0050	semester.		
BI-SCE2	Computer Engineering Seminar II mputer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance t	Z Z	4 e Studente
	idividually within the subject. Each student or group of students solves some interesting topic with the selected supervisor. Part of the		
	professional literature and/or work in K N laboratories. The capacity of the subject is limited by the possibilities of the seminar teacher	=	
	semester.		
BI-SEP	World Economy and Business sented in Czech. The course introduces students of technical university to the international business. It does that predominantly by c	Z,ZK	4 Lecuntries
	world economy. Students get to know about different religions and cultures, necessary for doing business in diverse societies as well as	· -	
, ,	nomic development, which are needed for the right investment decision. Seminars help to improve on the knowledge in the form of d		
	readings. It is advised to take bachelor level of this course BIE-SEP as a prerequisite.		
BI-SIP.21	Network Programming fundamental topics of programming network applications It expects of 4 parts. The introductory part is focused an law level program.	Z Z	5
	fundamental topics of programming network applications. It consists of 4 parts. The introductory part is focused on low-level prograr oted to designing communication protocols and their verification. The third part introduces the principles and applications of middlews		
	modern models of distributed computing - P2P and blockchain. All topics will be first explained theoretically and then practices in co		
	programming language environment.		
BI-SKJ.21	Scripting Languages	Z,ZK	4
Students gain a gi	eneral overview of available scripting languages, their syntax, semantics, programming style, data structures, pros and cons. In addit into shell and some other particular scripting languages and will get practical experience with shell script programming.	on, mey gam a dee	per maigni
BI-SOJ	Machine Oriented Languages	Z,ZK	4
Students of the cou	urse will gain an ability to create their own programs in the assembly language of the most common PC platform focusing on optimal us	e of microprocesso	
and efficient coope	ration of software with hardware. Next, there will be discussed x86 specifics of the majority of OSes from the application point of view li This knowledge will be used during reverse engineering, optimization, and evaluation of code security.	nked to higher level	languages.
BI-SPS.21	Administration of Computer Networks and Services	Z,ZK	5
	rse is to deepen the theoretical knowledge of network technologies and protocols in the environment of network servers administrate		
Linux and Windows	s. The course syllabus requires the knowledge at the level of courses BIE-PSI, BIE-VPS, and BIE-OSY. Practical skills will be gained by	practical hands-on	experience
DI COL 1	with real network infrastructure.	V7	4
BI-SQL.1 Module is based or	Language SQL, advanced n knowledge obtained in BI-DBS. Students become familiar with advanced relational and non-relational features of SQL language. In pa	KZ Articular stored prod	4 iram unites.
	queries, OLAP support, object-relational constructions. Part of the course is dedicated to practical database optimization from the point		
	exes, clusters, index-organized tables, and materialized views. as well as from the point of view query optimization. Execution plan a		
will be discusse	ed. Lectures will usually discuss SQL standard, but many features will be demonstrated on Oracle DBMS. Seminars are based on Oracle DBMS.	acle DBMS and par	tially on
BI-ST1	Network Technology 1	Z	3
	riented to providing the students basic information and practical skills from the area of digital and IP networks. The subject is acredite	1	
	CCNA1 - R&S Introduction to Networks.		
BI-ST2	Network Technology 2	Z	3
BI-ST3	This course is presented in Czech. Network Technology 3	Z	3
	Network Technology 3 er enhance their knowledge acquired from previous BI-ST1 and BI-ST2 courses. Principles of routing and switching presented during I	. – .	-
	ded in the course. Students will be able to start fine-tune protocols' settings to gain certain advantages like increased efficiency, pred		
	simple topology, security, etc.		
BI-ST4	Network Technology 4	Z	3
	er enhance their knowledge already acquired from previous BI-ST1, BI-ST2, and BI-ST3 courses. Principles of routing and switching	presented during E	si-5 i 1 and
2. 2.2 0001363 y	ot further extended in BI-ST3. Students were able to start fine-tune protocols' settings to gain certain advantages like increased effic	ency predictability	extension
beyond a simple	ot further extended in BI-ST3. Students were able to start fine-tune protocols' settings to gain certain advantages like increased effic topology, security, etc. This module teaches students to configure and fine-tune Wide Area Networks and to experience a completel		

Broadcast Multiple Access) which radically differs from well-known Ethernet (broadcast) type of networks. Students will also manage router and switch firmware, perform password recoveries, and emergency procedures. Also the security aspect is treated; students will learn possible intra- and inter-network attacks and the mitigation ways while maintaining the network running. **BI-STO** Storage and Filesystems The student will learn principles and current solutions of storage systems architecture. The module explains principles of data store, protection, and archiving, as so as storage scaling, load balancing and high availability. **BI-TDA** ΚZ Test driven architecture 4 The course is focused on practical examples of how to develop, test, and deploy software with tools like GitLab, Docker, Kubernetes, and more that are well known in the DevOps world. This course has a strong connection on courses like BI(E)-SI1 and BI(E)-SI2. The main goal of this course is to learn by examples that occur in the semester project. **Documentation and Presentation** The course is focused on the basics of creating electronic documentation with emphasis on the creation of technical reports of a larger scope, typically final university theses. Students learn to create text of a technical report in the LaTeX system, process an electronic presentation using the LaTeX Beamer system, and practically present it in front of classmates and the teacher. The course is intended primarily for those students who have chosen the topic of their bachelor's thesis or will choose it within the first 14 days of teaching. Within the exercises of the course, an active approach to the creation of individual parts of the bachelor's thesis is assumed. **BI-TEX** TeX and Typography Z,ZK This course is presented in Czech. This course gives basics of programming in TeX (plain TeX, ConTeXt, LaTeX, OpTeX, LuaTeX). Te second part of the course focuses on typographic rules. BI-TPS.21 Computer Networks Technologies Z,ZK 5 The course introduces students with basic and advanced technologies, components, and interfaces of contemporary computer networks at the physical layer with the overlap to the link layer. The lectures provide theoretical foundations of these technologies and explain relevant physical principles. In the labs, the respective technologies will be demonstrated and with the most important ones students will get hands-on experience. Thematically, the course covers both local and long-range optical networks, Ethernet, modern wireless networks, always with focus on high-speed networks. Theoretical Seminar I Theoretical seminar is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical reading group. The students are treated individually and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a work with scientific papers and other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar. Theoretical Seminar II BI-TS2 Theoretical seminar is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical reading group. The students are treated individually and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a work with scientific papers and other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar. Z BI-TS3 Theoretical Seminar III Theoretical seminar is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical reading group. The students are treated individually and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a work with scientific papers and other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar. BI-TS4 Theoretical Seminar IV Ζ 4 Theoretical seminar is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classical reading group. The students are treated individually and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a work with scientific papers and other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar. BI-TZP.21 Technological Fundamentals of Computers Students get acquainted with the fundamentals of digital and analog circuits, as well as basic methods of analyzing them. Students learn how computer structures look like at the lowest level. They are introduced to the function of a transistor. They will understand why processors generate heat, why cooling is necessary, and how to reduce the consumption; what the limits to the maximum operating frequency are and how to raise them; why a computer bus needs to be terminated, what happens if it is not; how a computer power supply looks like (in principle). In the labs, students model the behavior of basic electrical circuits in SW Mathematica. BI-ULI Introduction to Linux Ζ 2 Students become familiar with the basics of the Linux operating system using e-learning form. They learn to work with the command line and become familiar with basic commands and techniques of a Unix-like system. Topics can be studied first theoretically and then practically verified in a virtual machine (terminal) BI-UOS.21 Unix-like Operating Systems Unix-like operating systems represent a large family mostly open-source codes that kept bringing during the history of computers efficient innovative functions of multiuser operating systems for computers and their networks and clusters. The most popular OS today, Android, has a unix kernel. Students get overview of basic properties of this OS family, such as processes and threads, access rights and user identity, filters, or handling files in a file system. They learn to use practically these systems at the level of advanced users who are not only able to utilize powerful system tools that are available to users, but are also able to automatize routine agenda using the unix scripting interface, called shell BI-VAK.21 Selected Applications of Combinatorics The course aims to introduce students in an accessible form to various branches of theoretical computer science and combinatorics. In contrast to the basic courses, we approach the issue from applications to theory. Together, we will first refresh the basic knowledge needed to design and analyze algorithms and introduce some basic data structures. Furthermore, with the active participation of students, we will focus on solving popular and easily formulated problems from various areas of (not only theoretical) informatics. Areas from which we will select problems to be solved will include, for example, graph theory, combinatorial and algorithmic game theory, approximation algorithms, optimization and more. Students will also try to implement solutions to the studied problems with a special focus on the effective use of existing tools. BI-VDC.21 Virtualization and Data Centers Z,ZK 5 The aim of the course is to familiarize students with technology basis of cloud computer systems. It shows principles and techniques used in design and implementation of data center infrastructure, such as various kinds of virtualization and high availability of servers, storages, and software layers. The course guides through data center technologies from private to public and hybrid clouds. Student learn current trends in the architecture of IT infrastructure and its configuration for classic and cloud applications. Students will understand the design, validation, and operation of complex infrastructures for modern applications with respect to scalability and protection against overloads, outages, and data losses. BI-VHS Virtual game worlds ZK 4 The course leads students to create a complex virtual world. The course is a continuation of basic graphical courses (MGA, PGR, BLE.). This current students knowledge is furthermore complemented by the theory of game design, principles of writing dialogues and characters in order to create a functional and complex virtual world. The course can be followed by the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices BI-VMM Selected Mathematical Methods Z.ZK The lecture begins with an introduction to the analysis of complex functions of a complex variable. Next, we present the Lebesque integral. We then address Fourier series and their properties. Further, we introduce and study the properties of the Discrete Fourier Transform (DFT) and its fast implementation (FFT). We discuss the wavelet transform. We examine the linear programming problem in more detail and its solution using the Simplex algorithm. Each topic is demonstrated with interesting examples.

BI-VPS.21	Selected Topics in Computer Networking	Z,ZK	5
The course builds u	pon the Computer Networks course (BI-PSI), obligatory for the program. Students will learn in detail principles, protocols, and technolo	gies used in mode	rn computer
networks from loca	al area networks up to Internet, with focus on switching, routing, security, and virtualization. The emphasis will be on gaining practical	experience with re	eal network
dev	vices in the lab and learning important methods of local area and wide area networks from the viewpoint of functionality, performance	, and security.	
BI-VR1	Virtual reality I	KZ	4
	ual Reality (VR), virtual reality operating system and virtual reality creation. Another objective is to meet the rules and requirements of		
	es on the ways of teaching using virtual reality technologies and interactive activities in educational virtual 3D worlds. It improves com		
	and shared social activities.	,	5, - 1 3
BI-VR2	Virtual reality II	KZ	3
	course Virtual Reality I. The new course focuses on collaborative telepresence, spatial computing and social life of avatars. The objective telepresence is a spatial computing and social life of avatars.		
Continuation of the	for computer science and gamification in various social metaverse and desktop engines.	ctive is to develop	applications
BI-ZIVS		KZ	4
	Intelligent Embedded System Fundamentals		
_	ed system fundamentals course is focused on high-level technology embedded systems integrating artificial intelligence. The aim of t		
	robot control and development of applications in a graphical development environment. Lectures provide fundamentals of motion control	_	
interfaces, robot na	avigation and development tools. In labs, students program a set of basic task by using the robot simulator and real hardware to get p	ractical experience	e with these
51.71.5	technologies.	1/7	
BI-ZNF	PHP Framework Nette - basics	KZ	3
Students will gain to	he basics of PHP framework Nette. They will learn how to practically work with MVP architecture and various libraries of this Czech po	pular framework. T	he resulting
	knowledge should serve for the efficient creation of a web backend in PHP language.		_
BI-ZPI	Process engineering	KZ	4
	fundamentals of process engineering in this subject. Students will get necessary foundations for understanding formal principles of p		
learn basics of the	used notations (UML, BPMN, BORM). The focus in this subject lies in training of practical skills of formalisation and modelling of business.	ness processes us	sing modern
CASE tools. The ro	ole of process engineering for information systems development is discussed as well as its importance in the overall context of inform	ation and business	s strategy of
	an enterprise.		
BI-ZS10	Bachelor internship abroad for 10 credits	Z	10
	nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re	search institution.	Before the
internship the Dea	an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professio	nal content and ex	xtent of the
internship. Auxiliary	y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corr	espond to 4 weeks	s of full-time
	foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int	•	
. ,	exceeds the academic year's dead-line.	•	·
BI-ZS20	Bachelor internship abroad for 20 credits	Z	20
	n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re	_	-
	an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content.		
=	y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn		
	foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int	-	
omploymont with a	·	o imo oubjecto ii tii	io intornorne
	exceeds the academic year's dead-line		
DI 7820	exceeds the academic year's dead-line.	7	20
BI-ZS30	Bachelor internship abroad for 30 credits	Z	30
Each student can	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re	search institution.	Before the
Each student can internship the Dea	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession	search institution. nal content and ex	Before the xtent of the
Each student can internship the Dea internship. Auxiliary	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corre	search institution. Inal content and expressions to 4 weeks	Before the xtent of the s of full-time
Each student can internship the Dea internship. Auxiliary	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int	search institution. Inal content and expressions to 4 weeks	Before the xtent of the s of full-time
Each student can internship the Dea internship. Auxiliary employment with a	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corr foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line.	search institution. Inal content and exespond to 4 weeks to two subjects if the	Before the xtent of the s of full-time ne internship
Each student can internship the Dea internship. Auxiliary	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces	search institution. Inal content and expressions to 4 weeks	Before the xtent of the s of full-time
Each student can internship the Dea internship. Auxiliary employment with a	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corr foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech.	search institution. nal content and ex- respond to 4 weeks o two subjects if th	Before the xtent of the s of full-time ne internship
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science	search institution. nal content and ex- respond to 4 weeks o two subjects if th Z,ZK	Before the ktent of the s of full-time ne internship
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other file	search institution. nal content and ex- respond to 4 weeks o two subjects if th Z,ZK Z elds but interested	Before the ktent of the s of full-time ne internship 4 2 in computer
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science	search institution. nal content and ex- respond to 4 weeks o two subjects if th Z,ZK Z elds but interested	Before the ktent of the s of full-time ne internship 4 2 in computer
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho	Bachelor internship abroad for 30 credits n once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other file	search institution. nal content and ex- respond to 4 weeks o two subjects if th Z,ZK Z elds but interested oal of the class is to	Before the ktent of the s of full-time nee internship 4 2 in computer o introduce
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they	Bachelor internship abroad for 30 credits on once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other field to students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The governiciples of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no	search institution. Inal content and expensed to 4 weeks on two subjects if the subjects in the subjects in the subject	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he dools are tter science
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they	Bachelor internship abroad for 30 credits on once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other field of students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The governiciples of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest.	search institution. Inal content and expensed to 4 weeks on two subjects if the subjects in the subjects if the subjects in the subjects in the subjects in the subject in the subjec	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he dools are tter science
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also	Bachelor internship abroad for 30 credits one once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content. The students in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided interaced the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit of students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The governiciples of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interesting than expected, or even less than before.	search institution. snal content and expensed to 4 weeks on two subjects if the transport of trans	Before the ktent of the s of full-time he internship 4 2 in computer o introduce hd tools are tter science cience more
Each student can internship the Desinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scholard relate basic p done the way they questions but also BIE-DIF	Bachelor internship abroad for 30 credits one once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for student satisfactory as dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit on students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The governiciples of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations	search institution. snal content and expense of the subjects o	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he tools are ster science cience more
Each student can internship the Desinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scholard relate basic p done the way they questions but also BIE-DIF This course provide	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the internship in IS KOS. Every 10 credits conforming for internation of the internship in IS KOS. Every 10 credits conforming in IS KOS. Every 10 cred	search institution. snal content and expense of the subjects of the subject of the subjects of the subject o	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he tools are ster science cience more 5 e separation
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The students must provide evidence of the profession of the FIT, or the vice-dean for student of the evidence and even deal of the profession	search institution. snal content and expense of the subjects o	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he dools are ster science cience more 5 e separation aracteristic
Each student can internship the Dea internship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the internship in IS KOS. Every 10 credits conforming for internation of the internship in IS KOS. Every 10 credits conforming in IS KOS. Every 10 cred	search institution. snal content and expense of the subjects o	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he dools are ster science cience more 5 e separation aracteristic
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scholard relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The students must provide evidence of the profession of the FIT, or the vice-dean for student of the evidence and even deal of the profession	search institution. snal content and expenses of the subjects	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he tools are ster science cience more 5 e separation aracteristic duction to
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scholard relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or rean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The students in students in the professional content is a student of the professional content in the students of the professional content in the students in computer science, students majoring in other fits course of the professional content in the students in computer science, students majoring in other fits course of the professional content in the students in computer science, students majoring in other fits course of the professional content in the students in computer science, students majoring in other fits course of the professional content in the students in computer science, students majoring in other fits course on the students of the students in computer science, students majoring in other fits course of the professional content in the students in computer science, students majoring in other fits course on the students of the students in computer science, students majoring in other fits course on the students in computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class	search institution. snal content and expenses of the subjects	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he tools are ster science cience more 5 e separation aracteristic duction to
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scholard relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy	Bachelor internship abroad for 30 credits on once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional contents in Scholars and evaluation. The maximum number of credits as student can earn for one internship in Scholars and evaluations. The maximum number of credits a student can earn for one internship in Scholars and evaluation to the file of the professional contents in Scholars and evaluations and evaluation to Web and User Internship is 30 credits. This amount can be divided internship in IS KOS. Every 10 credits contents and evaluation in Scholars and evaluations and evaluation such as fight or students and evaluation and evaluation in Computer science, students majoring in other file on students, anybody with a background in basic math and the desire to understand the absolute basics of computer science, students majoring in other file on students, anybody with a background in basic math and the desire to understand the absolute basics of computer science, students majoring in other file of the science of computer science is, why things such as high-level pro	search institution. snal content and expenses of the subjects	Before the ktent of the s of full-time he internship 4 2 in computer o introduce he tools are ster science cience more 5 e separation aracteristic duction to
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential	Bachelor internship abroad for 30 credits on once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The student must provide evidence of the professional content. The students in its Stope and even the must provide evidence of the professional contents of the professional contents in Czech. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science The course is presented in Czech. Introduction to Computer Science The computer science, students majoring in other fit ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go on students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go on students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go on students in computer science, students majoring in other fit ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go on students in computer science, st	search institution. snal content and extespond to 4 weeks of two subjects if the state of two subjects if the state of two subjects if the state of the class is two subjects of the class is	Before the stent of the s of full-time he internship 4 2 in computer o introduce he d tools are later science more 5 e separation aracteristic duction to ling implicit
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The students must provide evidence of the professional content must provide evidence of the profession of the professional content. The students in the internship in IS KOS. Every 10 credits content in the provide evidence of the profession of the profession in the provide evidence in the students and credit in the scale line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science This course is presented in Czech. Introduction to Computer Science Ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fice of students and background in basic math and the desire to understand the absolute basics of computer science. The governic provide science for broad audiences: bachelor students in computer science, students majoring in other fice of students must be accurate and science for provide and provide evidence of the profession of the provide and science for broad audiences: bachelor students in computer science, students majoring in other fice	search institution. snal content and extespond to 4 weeks of two subjects if the state of two subjects if the state of two subjects if the state of the class is two subjects of the class is	Before the stent of the s of full-time he internship 4 2 in computer o introduce he d tools are later science more 5 e separation aracteristic duction to ling implicit
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits conforeign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fie cool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go principles of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations as a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential setheorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered wit sists, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and	search institution. snal content and extespond to 4 weeks of two subjects if the state of two subjects if the state of two subjects if the state of the class is two subjects of the class is	Before the stent of the s of full-time he internship 4 2 in computer o introduce he d tools are later science more 5 e separation aracteristic duction to ling implicit
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC course	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corr foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fie ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go rinciples of computer science for students to understand, early on, what computer science is, why things such as high-level programm of an even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no of questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations es a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential set theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with set, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world applications equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, a	search institution. snal content and expession to 4 weeks to two subjects if the same of two subjects if the same of the class is two same of the	Before the stent of the s of full-time the internship 4 2 in computer or introduce and tools are ster science more 5 e separation aracteristic aduction to ling implicit 4 or exceeding
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC course	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professio y courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits core foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided int exceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go rinciples of computer science for students to understand, early on, what computer science is, why things such as high-level program y are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interes than expected, or even less than before. Differential equations se as foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential so theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered wit sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and f	search institution. snal content and expession to 4 weeks to two subjects if the same of two subjects if the same of the class is two same of the	Before the stent of the s of full-time the internship 4 2 in computer or introduce and tools are ster science more 5 e separation aracteristic aduction to ling implicit 4 or exceeding
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC course BIE-IMA2 Students refresh and	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of contents and provide evidence of the profession of contents. The student must provide evidence of the profession of contents and evaluation of the internship in IS KOS. Every 10 credits conforcing institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science Ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fie cool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The gorinciples of computer science for students to understand, early on, what computer science is, why things such as high-level programment are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer not equestions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations es a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential softweerems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sists, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for s	search institution. snal content and expession to 4 weeks to two subjects if the same of two subjects if the same of the class is the same of the computer so the same of the same	Before the stent of the stent of the s of full-time in ternship 4 2 in computer o introduce and tools are ster science cience more 5 e separation aracteristic iduction to ling implicit 4 or exceeding
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC cours BIE-IMA2 Students refresh an	Bachelor internship abroad for 30 credits nonce within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS30 are used used for the evidence and evaluation of the internship in 18 KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit cool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The gorinciples of computer science for students to understand, early on, what computer science is, why things such as high-level programmy are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations es a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential so theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explication equations (PDEs) extends these concepts to mu	search institution. snal content and expendent to 4 weeks to two subjects if the same of two subjects if the same of the class is the same of the computer of the same	Before the stent of the stent of the s of full-time he internship 2 in computer or introduce he d tools are heter science cience more 5 e separation aracteristic duction to ling implicit 4 or exceeding 2 in particular
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-EC The BIE-ECC cours BIE-IMA2 Students refresh an BIE-SEG This is an introduct	Bachelor internship abroad for 30 credits of once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of contents are student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of the internship in IS KOS. Every 10 credits correctly foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science Ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit cool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go rinciples of computer science for students to understand, early on, what computer science is, why things such as high-level programm or are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations so a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential so theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sist of the profession of the common further students are also progressing to essential so theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sist followed by examp	search institution. snal content and expensed to 4 weeks to two subjects if the sale of two subjects if the sale of the class is the sale of the computer so the sale of the sale	Before the stent of the stent of the s of full-time in ternship 2 in computer or introduce and tools are ster science cience more 5 e separation aracteristic induction to ling implicit 4 or exceeding 2 in particular 0 for students
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-EC The BIE-ECC cours BIE-IMA2 Students refresh an BIE-SEG This is an introduct to understand processor.	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession of the professional content. The student must provide evidence of the profession of courses BI-ZS10, BI-ZS20, BI-ZS20 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits conforcing institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided interview of the profession of the p	search institution. snal content and expensed to 4 weeks to two subjects if the same of two subjects if the same of the class is the same of the class is the same of the same	Before the stent of the stent of the s of full-time in ternship 2 in computer or introduce and tools are ster science cience more 5 e separation aracteristic induction to ling implicit 4 or exceeding 0 for students is are able to
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-EC The BIE-ECC cours BIE-IMA2 Students refresh an BIE-SEG This is an introduct to understand processor.	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession cy courses BI-ZS10, BI-ZS20, BI-ZS20 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correctly foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fice old students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The go trinciples of computer science for students to understand, early on, what computer science is, why things such as high-level program vare, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer not questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations as a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential so theorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sist, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta metho	search institution. snal content and expensed to 4 weeks to two subjects if the same of two subjects if the same of the class is the same of the class is the same of the same	Before the stent of the stent of the s of full-time in ternship 2 in computer or introduce and tools are ster science cience more 5 e separation aracteristic induction to ling implicit 4 or exceeding 0 for students is are able to
Each student can internship the Dezinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-EC The BIE-ECC cours BIE-IMA2 Students refresh an BIE-SEG This is an introduct to understand procunderstand the	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession or courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits cort foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The gorinciples of computer science for students to understand, early on, what computer science is, why things such as high-level program or are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations as a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential scheorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sits, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and f	search institution. snal content and expendent to 4 weeks to two subjects if the same of two subjects if the same of the class is the same of the class is the same of the same of the class is the class is the class, and the same of the class is	Before the stent of the stent of the stent of the stent of the so of full-time the internship and the stent of the solution of the stent of the sten
Each student can internship the Decinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC cours BIE-IMA2 Students refresh an BIE-SEG This is an introduct to understand produnderstand the BIE-ZUM	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession or courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship in 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other file ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The grinciples of computer science for students to understand, early on, what computer science is, why things such as high-level program rate, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations es a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential scheorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable concepts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and fin	search institution. snal content and expended to 4 weeks to two subjects if the class is to the class is the cla	Before the stent of the stent of the stent of the so of full-time the internship and the solution of the solut
Each student can internship the Decinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC cours BIE-IMA2 Students refresh and BIE-SEG This is an introduct to understand produnderstand the BIE-ZUM Students are introduct students are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are intro	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession or courses BI-ZS10, BI-ZS20, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits comforeign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other fit ood students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The grinciples of computer science for students to understand, early on, what computer science is, why things such as high-level programm are, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations as a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential steheorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, a	search institution. snal content and expendent to 4 weeks to two subjects if the class is to the class is the	Before the stent of the stent of the stent of the stent of the so of full-time the internship and the stent of the so of full-time the internship are stent of the stent of th
Each student can internship the Decinternship. Auxiliary employment with a BI-ZWU BIE-CSI This is an introduct science, high-scho and relate basic p done the way they questions but also BIE-DIF This course provide of variables. Key t polynomial analy partial differential BIE-ECC The BIE-ECC cours BIE-IMA2 Students refresh and BIE-SEG This is an introduct to understand produnderstand the BIE-ZUM Students are introduct students are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are introduct to sudents are introduct and sudents are introduct to sudents are intro	Bachelor internship abroad for 30 credits once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or re an of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the profession or courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits corn foreign institution. The maximum number of credits a student can earn for one internship in 30 credits. This amount can be divided intexceeds the academic year's dead-line. Introduction to Web and User Interfaces This course is presented in Czech. Introduction to Computer Science ory class on Elementary Computer Science for broad audiences: bachelor students in computer science, students majoring in other file ool students, anybody with a background in basic math and the desire to understand the absolute basics of computer science. The grinciples of computer science for students to understand, early on, what computer science is, why things such as high-level program rate, and even how, on a basic yet representative and practically relevant level. After taking the class, students are able to answer no questions about themselves such as which courses to take next and which books to follow up with, ideally realizing if they are interest than expected, or even less than before. Differential equations es a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential scheorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered with sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world application equations (PDEs) extends these concepts to multi-variable concepts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and fin	search institution. snal content and expendent to 4 weeks to two subjects if the class is to the class is the	Before the stent of the stent of the stent of the stent of the so of full-time the internship and the stent of the so of full-time the internship are stent of the stent of th

FI-TOP	Academic writing	Z	2
	portant and required part of research activity. It is not only about obtaining research results but also about applying them in the form or	•	-
_ ·	e useful for students not only in their own publishing activities but also in the preparation of a bachelor's or master's thesis. In the cou		
	icle, what parts such an article should have, and how the peer review process works. Students will also try their hand at presenting an		-
else's article. The	course will be taught in blocks, with one lecture at the beginning of the semester and one practicum in the middle of the semester. Date on the availability of enrolled students.	ates will be determ	nined based
CIT ACM4	·	V7	
FIT-ACM1	Programming Practices 1 This is a selective course for preparing talented student for representation in international programming contests.	KZ	5
FIT-ACM2	Programming Practices 2	KZ	5
	This is a selective course for preparing talented student for representation in international programming contests.		· -
FIT-ACM3	Programming Practices 3 This is a selective course for preparing talented student for representation in international programming contests.	KZ	5
FIT-ACM4	Programming Practices 4	KZ	5
FTT-ACIVI4	This is a selective course for preparing talented student for representation in international programming contests.	r\Z	3
FIT-ACM5	Programming Practices 5	KZ	5
	This is a selective course for preparing talented student for representation in international programming contests.		<u>'</u>
FIT-ACM6	Programming Practices 6	KZ	5
	This is a selective course for preparing talented student for representation in international programming contests.		T
FIT-SEP	World Economy and Business	Z,ZK	4
	sented in Czech. The course introduces students of technical university to the international business. It does that predominantly by co		
, ,	world economy. Students get to know about different religions and cultures, necessary for doing business in diverse societies as well as		
corruption and eco	nomic development, which are needed for the right investment decision. Seminars help to improve on the knowledge in the form of di	scussions based	on individual
	readings. It is advised to take bachelor level of this course BIE-SEP as a prerequisite.		
FITE-EHD	Introduction to European Economic History	Z,ZK	3
	uces a selection of themes from the European economic history. It gives the student basic knowledge about forming of the global eco		
	in history. As European countries have been dominant actors in this process it focuses predominantly on their roles in the economic	-	
	pire to fragmentation of the Middle Ages, from destruction of WWII to the current affairs, the development of modern financial instituti	•	
does not cover de	tailed economic history of particular European countries but rather the impact of trade and role of particular events, institutions and c meetings will consist of a mixture of lecture and discussion.	organizations in his	story. Class
NI-AFP	Applied Functional Programming	KZ	5
	ented in Czech. Functional programming represents one of the traditional programming paradigms. Traditional and novel functional p		_
	and the functional paradigm becomes an important construct of traditionally imperative languages (C++, C#, Java). As such, master		-
the rise nowadays	necessary competence of a software engineer: the theory and especially the practice.	ing this paradigm	becomes a
NII DDM	incossed y competence of a command origination and coperating the practice.		
1511-1 11 115/1	Distributed Data Mining	K7	1
NI-DDM	Distributed Data Mining	KZ	4
Course focuses on	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of	on experience with	large scale
Course focuses on	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of samework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a	on experience with	large scale
Course focuses on data processing fra	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language.	on experience with and will be capable	large scale to propose
Course focuses on	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes	on experience with	large scale
Course focuses on data processing fra	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech.	on experience with and will be capable Z,ZK	large scale to propose
Course focuses on data processing fra NI-DSP	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing	on experience with and will be capable Z,ZK	a large scale e to propose
Course focuses on data processing fra NI-DSP NI-DZO This course prese	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing ents a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms. The course is presented in czech.	on experience with and will be capable Z,ZK Z,ZK Z,ZK orithms that are b	a large scale eto propose 4 4 ooth easy to
Course focuses on data processing fra NI-DSP NI-DZO This course prese implement and have	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing ents a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms are an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also	on experience with and will be capable Z,ZK Z,ZK Z,ZK orithms that are be so valuable outside	a large scale to propose 4 4 4 ooth easy to the domain
NI-DSP NI-DZO This course prese implement and have of digital image p	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing ents a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms. The course is presented in czech.	z,ZK Z,ZK Z,ZK orithms that are b so valuable compression, de-	large scale to propose 4 4 oth easy to e the domain blurring in
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain,	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing ents a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms are interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR	Z,ZK Z,ZK orithms that are b so valuable compression, deversion, context errors and will be capable.	large scale to propose 4 4 oth easy to e the domain blurring in whancement,
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and	z,ZK Z,ZK Z,ZK orithms that are be so valuable outside compression, deversion, context endding depth, alpha	large scale to propose 4 4 oth easy to e the domain blurring in thancement, a matting.
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interactive editing of digital images and video. It mainly deals with practical algorithms are interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and Internet and Multimedia	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha	large scale to propose 4 4 oth easy to e the domain blurring in thancement, a matting. 4
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig. NI-IAM The NI-IAM course	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and	Z,ZK Z,ZK Z,ZK orithms that are beovaluable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign	large scale to propose 4 4 oth easy to e the domain blurring in thancement, a matting. 4 als (input),
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV serious presentation presentation of AV serious presentation pr	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interactive editing of digital images and video. It mainly deals with practical algorithms are comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms are interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and Internet and Multimedia Internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acq	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarios	large scale to propose 4 4 oth easy to the the domain blurring in thancement, a matting. 4 als (input), s of real-time
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM course presentation of AV audiovisual transment	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, accordingly and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquiringly signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical under the processing approaches to parallel implementations approaches the parallel implementations approaches the practical under the processing and stereoscopy. We will look at practical under the processing and stereoscopy. We will look at practical under the processing and stereoscopy.	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenariosect of various compressions compressions deversion, context ending depth, alpha Z,ZK	large scale to propose 4 4 oth easy to the to domain blurring in thancement, at matting. 4 als (input), s of real-time inponents on
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM course presentation of AV audiovisual transment	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, accordingly interesting the principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquirings in signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the effective processing and stereoscopy.	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenariosect of various compressions compressions deversion, context ending depth, alpha Z,ZK	large scale to propose 4 4 oth easy to the to domain blurring in thancement, at matting. 4 als (input), s of real-time inponents on
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM course presentation of AV audiovisual transment	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Internet and Multimedia Be is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and SW technologies and verify the effoncy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenariosect of various compressions compressions deversion, context ending depth, alpha Z,ZK	large scale to propose 4 4 oth easy to the to domain blurring in thancement, at matting. 4 als (input), s of real-time inponents on
NI-DSP NI-DZO This course prese implement and have of digital image p frequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and late	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Internet and Multimedia Be is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and SW technologies and verify the efforcy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience.	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign see case scenarios ect of various come e scene up to the	large scale to propose 4 4 oth easy to the the domain blurring in thancement, a matting. 4 als (input), s of real-time ponents on presentation 5
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transment the quality and late. NI-LSM The subject is orig	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convegid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, accepted in the processing of principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acception in the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the effective of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ect of various come scene up to the KZ ut on the effective	a large scale to propose 4 4 oth easy to the the domain blurring in thancement, a matting. 4 als (input), as of real-time apponents on presentation 5 to use of the
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transment the quality and late. NI-LSM The subject is orig	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convegid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, accepted in the processing of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the effective of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is particular of the parallel and tries to implement them. The stress is particular of the parallel and tries to implement them. The stress is particular approaches to the parallel and tries to implement them. The stress is particular approaches to the parallel and tries to implement them.	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ect of various come scene up to the KZ ut on the effective d analyses of their	a large scale to propose 4 4 oth easy to the the domain blurring in thancement, a matting. 4 als (input), as of real-time apponents on presentation 5 to use of the
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transment the quality and late. NI-LSM The subject is orig	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convegid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, active as is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efforcy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is port and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, and the sum and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, and the sunder the sum of the semester is focused on the design of methods	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ect of various come scene up to the KZ ut on the effective d analyses of their	a large scale to propose 4 4 oth easy to the the domain blurring in thancement, a matting. 4 als (input), as of real-time apponents on presentation 5 to use of the
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and later NI-LSM The subject is original available information.	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convegid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, accordingly and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efforcy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is per an and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, and At this point, the subject is on the border of own research and may result in the topic of final work (diploma or bachelor thesi	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ext of various come excene up to the KZ ut on the effective danalyses of their s). KZ	A and the second of the second
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and later NI-LSM The subject is originally information of NI-MOP Object-oriented processing free processin	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, active and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquiring signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmissions chains using HW and SW technologies and verify the efficing of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is permitted on a single and multi-target tracking. The second half of the semester is focused on the design of methods and algorithms, and At this point, the subject is on the border of own research and may result in the topic of final work (diploma or bachelor thesi	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ect of various come scene up to the KZ ut on the effective d analyses of their s). KZ its ability to natura	a large scale to propose 4 4 oth easy to the domain blurring in thancement,
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and later NI-LSM The subject is originally information of AV available information of AV audiovisual transm the quality and later NI-LSM The subject is originally information of NI-MOP Object-oriented profix used to build comor of object systems	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convolud-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as Internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acq signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efficiency of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is pon and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, an At this point, the subject is on the border of own research and may result in the topic of final work (diploma or bachelor thesi Modern Object-Oriented Programming in Pharo gramming i	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are case scenarios ext of various come scene up to the KZ ut on the effective d analyses of their sp. KZ its ability to natural seds and areas of design and impeds and areas of	a large scale to propose 4 4 oth easy to the the domain blurring in thancement, than matting. 4 als (input), than of real-time the ponents on the properties. 4 al abstraction blementation tinterest. In
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and later NI-LSM The subject is originally and information of AV available information of AV audiovisual transm the quality and later NI-LSM The subject is originally information of SI-DSM NI-MOP Object-oriented profits used to build comor of object systems addition to deepend	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Ints a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms are interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convolus assumed to the processing in the processing of a seamless in the processing and convolution, colorization, painting, and internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquired in the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efficity of AV transmissions. Students will practically assemble AV transmission chains using HW and SW technologies and verify the efficity of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is point and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, and At this point, the subject is on the border of own research and	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign are as each of various come excene up to the KZ ut on the effective danalyses of their sp. KZ its ability to natural of design and impression and areas of on interesting project on interesting project.	a large scale to propose 4 4 oth easy to the domain blurring in thancement, thancement, thancements on the properties. 4 4 al abstraction blementation interest. In the properties and OO
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transment the quality and later NI-LSM The subject is original available information of Object-oriented professions addition to deepen technologies in ter	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is presented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Into a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms as comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms as comprehensive overview of modern methods for interactive editing of digital photo-more editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efficiency of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab entended on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is portion and its modeling using numpy and scipy.	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uistion of AV sign ase case scenarios ext of various come excene up to the KZ ut on the effective danalyses of their shows and areas of on interesting project in the Pharo (excent in the	A doth easy to be the domain blurring in thancement, a matting. A data (input), a of real-time aponents on presentation 4 all abstraction blementation interest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image prequency domain, interactive as-rig NI-IAM The NI-IAM cours presentation of AV audiovisual transm the quality and late. NI-LSM The subject is originally and information of AV subject is originally and information of NI-MOP Object-oriented professed to build composed to build composed to deepen it to the notice of the NI-MPL	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Intis a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorecessing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acq signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the effinity of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is pon and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, an At this point, the subject is on the border of own research and may result in the topic of final work (diploma or bachelor thesi modern pure object system Pharo (https://pharo.org). The c	Z,ZK Z,ZK Z,ZK Orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uistition of AV sign are as excens up to the KZ ut on the effective danalyses of their s). KZ its ability to natural of design and impression and areas of an interesting project in the Pharo (CZK)	A doth easy to e the domain blurring in whancement, a matting. 4 als (input), s of real-time aponents on presentation 5 use of the r properties. 4 al abstraction blurrest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image presentation of AV audiovisual transment equality and late. NI-LSM The subject is orie available informatic is used to build comof object systems addition to deepen technologies in ter NI-MPL NI-MSI	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is presented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Into a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms for interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convigid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as is is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquisions of audiovisual (AV) signals. The syllabus includes acquisions of audiovisual AV transmissions from the recording the fora audience. Statistical Modelling Lab ented on a single and multi-target tracking. The second half of the sem	Z,ZK Z,ZK Z,ZK Orithms that are best ovaluable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarious ext of various come e scene up to the KZ uut on the effective d analyses of their should be so their should be shoul	A labstraction finterest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image presentation of AV audiovisual transment equality and late. NI-LSM The subject is orie available informatic is used to build comof object systems addition to deepen technologies in ter NI-MPL NI-MSI	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Into a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical algorithms are interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray compid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and internet and Multimedia Be is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquiginals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical best force of AV transmissions. Students will practically assemble AV transmission chains using HW and SW technologies and verify the effect of AV transmissions. Students will earn how to build Internet infrastructure for end-to-end AV transmissions from the recording the force of AV transmissions. Students will also gain the most made and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is pon and its modeling using n	Z,ZK Z,ZK Z,ZK Orithms that are best ovaluable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarious ext of various come e scene up to the KZ uut on the effective d analyses of their should be so their should be shoul	A labstraction finterest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image presentation of AV audiovisual transment equality and late. NI-LSM The subject is oricavailable informatic available informatic is used to build como of object systems addition to deepen technologies in ter NI-MSI Mathematical se	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is als processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convegid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, and Internet and Multimedia se is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes and signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the efficial content of the students will practically assemble AV transmission chains using HW and SW technologies and verify the efficial ended on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is pounded in a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is pounded in the moder of own research and may result in the topic of final work (diploma or bachelor thesi Modern Object-Oriented Programming in Pharo gramming is currently one of the most widespread paradigms of software creation,	Z,ZK Z,ZK Z,ZK orithms that are beso valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarious ext of various come e scene up to the KZ uut on the effective d analyses of their should be so the should be so the seds and areas of on interesting projection interesting projection in the Pharo C ZK Z,ZK the model of lambda	A labstraction presentation finterest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image presentation of AV audiovisual transment the quality and late. NI-LSM The subject is orionavailable information of AV audiovisual transment the quality and late. NI-LSM The subject is orionavailable information of AV audiovisual transment the quality and late. NI-MOP Object-oriented provisus used to build comor of object systems addition to deepen it technologies in ter NI-MPL NI-MSI Mathematical services.	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Ints a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical alge e an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray combid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as informed and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unsissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unsissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquired in AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the fora audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing	z,ZK z,ZK z,ZK orithms that are best valuable outside compression, deversion, context ending depth, alpha z,ZK uisition of AV sign use case scenarios ect of various come e scene up to the kZ ut on the effective d analyses of their s). KZ its ability to natural eds and areas of on interesting project in the Pharo (2 ZK z,ZK t model of lambda z,ZK	A labstraction presentation finterest. In ects and OO Consortium.
NI-DSP NI-DZO This course prese implement and have of digital image presentation of AV audiovisual transment the quality and late. NI-LSM The subject is orie available information of AV subject is orie available information of AV subject is orie available information. NI-MOP Object-oriented profix used to build comof object systems addition to deepen it technologies in ter NI-MPL NI-MSI Mathematical set NI-OLI The Linux operating	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is presented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Ints a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical alge an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray convolud-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as informed and Multimedia Internet and Multimedia Internet and Multimedia Internet and Multimedia Is is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the effinicy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the for audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing methods and tries to implement them. The stress is poun and its modeling using numpy and scipy. The second half of the semester is focused on the design	Z,ZK Z,ZK Z,ZK orithms that are best valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarious end various come escene up to the Excent of various come is context ending depth, alpha Z,ZK uit on the effective danalyses of their sy. KZ uit on the effective danalyses of their sy. KZ its ability to natural sy of design and impression interesting project in the Pharo (C) ZK Z,ZK t model of lambda Z,ZK weeful processors	A labstraction presentation finterest. In ects and OO Consortium. 2 4 4 calculus.
NI-DSP NI-DZO This course prese implement and have of digital image preserved frequency domain, interactive as-right number of the NI-IAM of the NI-IAM of the NI-IAM of the NI-IAM of the Subject is oriented professed to build complete of the NI-IAM of the subject is oriented professed to build complete of the NI-IAM of the subject is oriented professed to build complete of the NI-IAM of the	state-of-the-art approaches for distributed data mining and parallelization of machine learning algorithms. Students will gain hands of amework Apache Spark and with existing distributed DM / ML algorithms. They will learn principles of their parallel implementations a approaches to parallelize other algorithms. The course is prezented in czech language. Database Systems in Practes This course is presented in Czech. Digital Image Processing Ints a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical alge e an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is also processing. This course will introduce algorithms solving the following practical applications: edge-aware editing, tone mapping, HDR abstraction, hybrid images, gradient domain editing, seamless image stitching and cloning, digital photo-montage, color-to-gray combid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, as informed and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unsissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquisignals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical unsissions. Within the labs, students will practically assemble AV transmissions of audiovisual (AV) signals. The syllabus includes acquired in AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the fora audience. Statistical Modelling Lab ented on a single and multi-target tracking. The student both learns the existing	Z,ZK orithms that are best valuable outside compression, deversion, context ending depth, alpha Z,ZK uisition of AV sign use case scenarios ext of various come escene up to the KZ uut on the effective d analyses of their short interesting project on interesting project on interesting project in the Pharo C ZK Z,ZK t model of lambda Z,ZK weeful processors of for master's study	A labstraction presentation finterest. In ects and OO Consortium. 2 4 4 calculus.

NI-PDD	Data Preprocessing	Z,ZK	5
	pata Treprocessing repare raw data for further processing and analysis. They learn what algorithms can be used to extract information from various data s	'	1
	and learn the skills to apply these theoretical concepts to solve specific problems in individual projects - e.g., extraction of characteris		•
time series, etc., a	pages.	dos nom images c	n nom web
NI-PSD		KZ	4
	Public Services Design		1 -
	roduce students to specifics of UX, Service design and development for public sector. We will look into the design and development p	•	•
suppliers (devs a	and designesr) as well as clients. In small teams students will work on projects from partner organizations and will try out collaboration	n with client repres	sentatives.
NII DOI	Course is aimed at students-designers as well as clients.	7.71/	
NI-PSL	Programming in Scala	Z,ZK	4
	uces the modern programming language Scala which exploits object-functional paradigm. Scala comprises advance language featur	٠.	•
advance standard i	ibrary. Scala enables to use of applications functional patterns e.g. H-List, Monads, etc. Scala is used by many powerful frameworks and	libraries e.g. Play	, Cassandra,
	Scalaz, etc.		
NI-REV	Reverse Engineering	Z,ZK	5
	equainted with the essentials of reverse engineering of computer software. They will learn how processes start and what happens before the computer software.		
	will understand how executable files are organized and how they interact with 3rd party libraries. Another part of the course is dedicated by the course is		
* *	tten in C++. Students will also understand principles of disassemblers and obfuscation techniques. A part of the course will also be di	•	•
debuggers and de	ebugging work and which methods can be used to detect it. One of the lectures will be dedicated to the latest trends on the computer	malware scene. I	he focus of
	the course is on the seminars, where students will solve practically oriented tasks from the real world.		_
NI-SYP	Parsing and Compilers	Z,ZK	5
The module builds	upon the knowledge of fundamentals of automata theory, formal language and formal translation theories. Students gain knowledge of va	arious variants and	applications
	of LR parsing and are introduced to special applications of parsers, such as incremental and parallel parsing.		
NI-TSP	Testing and Reliability	Z,ZK	5
Students will gain	knowledge about circuit testing and about methods for increasing reliability and security. They will get practical skills to be able to pre	pare a test set witl	n the help of
the intuitive path se	ensitization and to use an ATPG for automatic test generation. They will be able to design easily testable circuits and systems with bu	ilt-in-self-test equi	pment. They
	will be able to compute, analyze, and control the reliability and availability of the designed circuits.		
NI-VCC	Virtualization and Cloud Computing	Z,ZK	5
Students will ga	in knowledge of architectures of large computer systems that are used in data centers and computer infrastructure of companies and	organizations. Th	ey will get
acquainted with vi	rtualization principles, tools and technologies that serve to facilitate and automate configuration, testing and monitoring, and to efficie	ently operate and o	optimize the
performance pa	rameters of modern computer systems. Theoretically and practically, they will get acquainted with containerization as the most effect	ive technology tod	ay for the
management of co	mplex computer systems and with specific technologies of cloud systems. Finally, they will learn the principles and gain practical skills in	n the use of moder	n integration
	and development tools (Continuous integration and development).		
NI-VYC	Computability	Z,ZK	4
	Classical theory of recursive functions and effective computability.	,	1
TV1	Physical Education	Z	0
TV2	Physical Education	Z	0
TV2K1	Physical Education 2	Z	1
TVK1	Physical Education	Z	1
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
TVV	Physical education	Z	0
TVV0	Physical education	Z	0
	1 Hydrodi Oddoddori	_	

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-08-09, time 00:44.