Recomended pass through the study plan

Name of the pass: Bachelor branch Computer Engineering, in Czech, 2015-2020

Faculty/Institute/Others: Department: Pass through the study plan: Bachelor branch Computer Engineering, in Czech, 2015-2020 Branch of study guranteed by the department: Welcome page Guarantor of the study branch: Program of study: Informatics, valid until 2024

Type of study: Bachelor full-time

Note on the pass: Studenti, kte í opakují studium a mají uznaný p edm t ADS, mohou požádat prod kana o uznání zápo tu z p edm tu SSB.# P edm t EMP je ekvivalentní staršímu p edm tu EPD. Platí obousm rná zastupitelnost. Oba p edm ty lze zapsat dohromady nejvýše dvakrát.#

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-CAO	Digital and Analog Circuits Martin Kohlík	Z,ZK	5	2P+2C	Z	PP
BI-MLO	Mathematical Logic Kate ina Trlifajová Kate ina Trlifajová Kate ina Trlifajová (Gar.)	Z,ZK	5	2P+1C	Z	PP
BI-PA1	Programming and Algorithmics 1 Ladislav Vagner	Z,ZK	6	2P+2R+2C	z	PP
BI-PS1	Programming in Shell 1 Zden k Muziká	KZ	5	2P+2C	Z	PP
BI-ZMA	Elements of Calculus Ivo Petr Ivo Petr Tomáš Kalvoda (Gar.)	Z,ZK	6	3P+2C	Z	PP
BI-PAI	Law and Informatics Zden k Ku era	ZK	3	2P	Z	PO
BI-PT.2015	Povinná t lesná výchova bakalá ského programu Informatika, verze 2015 TV1, TVV, (see the list of groups below)	Min. cours. 2	Min/Max 0/			PT

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	Database Systems Ji í Hunka	Z,ZK	6	2P+2R+1L	. Z,L	PP
BI-LIN	Linear Algebra Daniel Dombek Daniel Dombek (Gar.)	Z,ZK	7	4P+2C	L	PP
BI-PA2	Programming and Algorithmics 2 Ladislav Vagner	Z,ZK	7	2P+1R+2C	L	PP
BI-SAP	Computer Structure and Architecture Hana Kubátová	Z,ZK	6	2P+1R+2C	L	PP
BI-PT.2015	Povinná t lesná výchova bakalá ského programu Informatika,	Min. cours.	Min/Max			DT.
BI-P1.2015	verze 2015 TV1,TVV, (see the list of groups below)	2	0/			PT
BI-V.2017	ist volitelné p edm ty bakalá ského programu Bl, verze 2017 BI-ALO,BI-AVI.21, (see the list of groups below)	Min. cours. 0	Min/Max 0/			V

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	Algorithms and Graphs 1 Dušan Knop	Z,ZK	6	2P+2C	Z	PP
BI-AAG	Automata and Grammars Jan Janoušek	Z,ZK	6	2P+2C	Z	PP
BI-ZDM	Elements of Discrete Mathematics Jan Legerský, Ji ina Scholtzová Ji ina Scholtzová Josef Kolá (Gar.)	Z,ZK	5	2P+2C	Z	PP
BI-APS.1	Architectures of Computer Systems Pavel Tvrdík	Z,ZK	5	2P+2C	Z	PO
BI-JPO	Computer Units Alois Pluhá ek	Z,ZK	5	2P+2C	Z	PO
BI-V.2017	ist volitelné p edm ty bakalá ského programu BI, verze 2017 BI-ALO,BI-AVI.21, (see the list of groups below)	Min. cours. 0	Min/Max 0/			V

Number of se	emester: 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-BEZ	Security Ji í Dostál	Z,ZK	6	2P+2C	L	PP
BI-OSY	Operating Systems Ladislav Vagner	Z,ZK	5	2P+1R+1L	. L	PP
BI-PSI	Computer Networks Jan Fesl	Z,ZK	5	2P+1R+1C	L	PP
BI-VES	Embedded Systems Miroslav Skrbek	Z,ZK	5	2P+2C	L	PO
BI-EMP	Economics and Management Principles David Buchtela, Petra Pavlí ková David Buchtela David Buchtela (Gar.)	KZ	4	2P+2C	Z,L	PE
BI-V.2017	ist volitelné p edm ty bakalá ského programu BI, verze 2017 BI-ALO,BI-AVI.21, (see the list of groups below)	Min. cours. 0	Min/Max 0/			V

Number of se	emester: 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	Bachelor project Zden k Muziká Zden k Muziká Zden k Muziká (Gar.)	Z	2		Z,L	PP
BI-PST	Probability and Statistics Petr Novák	Z,ZK	5	2P+1R+1C	Z	PP
BI-SI1.2	Software Engineering I Ji í Mlejnek, Zden k Rybola Zden k Rybola Ji í Mlejnek (Gar.)	Z,ZK	5	2P+1C	Z,L	PP
BI-PNO	Practical Digital Design Martin Novotný Martin Novotný Martin Novotný (Gar.)	KZ	5	2P+2C	Z	PO
BI-SRC	Real-time systems Jaroslav Borecký, Hana Kubátová Jaroslav Borecký Hana Kubátová (Gar.)	KZ	4	2P+2C	Z	PO
BI-ZRS	Basics of System Control Kate ina Hyniová	Z,ZK	4	2P+2C	Z	PO
BI-V.2017	ist volitelné p edm ty bakalá ského programu Bl, verze 2017 BI-ALO,BI-AVI.21, (see the list of groups below)	Min. cours. 0	Min/Max 0/			V

Number of seme	ster: 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	Bachelor Thesis Zden k Muziká Zden k Muziká (Gar.)	Z	14		L,Z	PP
BI-DPR	Document., Presentation, Rhetorics Ond ej Guth, Petra Pavlí ková, Alena Libánská, Dana Vynikarová Ond ej Guth Dana Vynikarová (Gar.)	КZ	4	2P+2C	Z,L	PP
BI-PV-EM.2015	Povinn volitelné ekonomicko manažerské p edm ty bc. programu Informatika, ver. 2015 BI-DAN,FI-VEZ, (see the list of groups below)	Min. cours. 1	Min/Max 4/12			VE

		Max. cours.			
		3			
		Min. cours.			
BI-ZKA	Zkouška z angli tiny 2009	1	Min/Max		PJ
DI-ZNA	BI-ANG1,BIE-EEC, (see the list of groups below)	Max. cours.	2/4		PJ
		1			
BI-PV-HU.2015	Povinn volitelné humanitní p edm ty bakalá ského programu	Min. cours.	Min/Max		
Ы-РУ-ПО.2015	Informatika, verze 2015 FI-FIL,BI-HMI, (see the list of groups below)	1	2/6		VH
BI-V.2017	ist volitelné p edm ty bakalá ského programu BI, verze	Min. cours.	Min/Max		V
	2017 BI-ALO,BI-AVI.21, (see the list of groups below)	0	0/		V

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	f courses a on see her	and codes of members of this e or below the list of courses)	Com	pletion	Credi	ts Scope	Semester	Role
BI-PT.2015		Povinná t lesná výchova bakalá ského programu Informatika, verze 2015			Min. cours. 2					PT
TV1	Physical E	ducation	TVV	Physical education		TVV0		Physical educ	ation	
TV2	Physical E	ducation	TVKLV	Physical Education Course		TVKZV		Physical Educ	cation Course	
BI-PV-EM.2015 Povinn volitelné ek prograr		onomicko manažerské p edm ty bc.		Min. cours. 1 Max. cours. 3						
	1.2015	Povinn volitelné el progra	mu Informa	o manažerské p edm ty bc. atika, ver. 2015	Max.	cours. 3	Min/M 4/12			VE
		Povinn volitelné el progra	konomicko mu Informa	o manažerské p edm ty bc. atika, ver. 2015 economic-managerial course from		cours.	4/12		kets	VE
BI-DAN BI-MEK	Taxes for n	progra	mu Informa	atika, ver. 2015		cours. 3	4/12	2		VE
BI-DAN	Taxes for n Macroecor	program non-Economists	mu Informa	economic-managerial course from		COURS. 3 BI-FTR.1	4/12	Financial Mar		VE

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FI-FIL	Philosophy		BI-HMI	History of Mathematics and Infor	•	FI-HTE	Н	istory of Tech	nology and E	conom
FI-HPZ	Humanities subject from a study		FI-MPL	Managerial Psychology		BI-EHD	In	Introduction to European Econor		onomi
FI-KSA	Cultural and	Cultural and Social Anthropology		Cultural and Social Anthropology		FI-ULI	In	troduction to	Linguistics fo	r
FI-GNO	Introduction	to Gnoseology								

BI-V.	2017	ist volitelné p ed	m tv bakalá	ského programu BI, verze	Min.	cours.	Min/M	ax		v
DI-V.	2017		2017	p g,		0	0/			v
BI-ALO	Algebra an	d Logic	BI-AVI.21	Algorithms visually		BI-A2L		English langu	age, preparati	on fo
BI-APJ	Aplication	Programming in Java	NI-AFP	Applied Functional Programming		BIE-ZUM	1	Artificial Intelli	gence Fundar	nen
BI-BLE	Blender		NI-DSP	Database Systems in Practes		BI-STO		Storage and F	ilesystems	
NI-DZO	Digital Ima	ge Processing	NI-DDM	Distributed Data Mining		BI-EP1		Effective prog	amming 1	
BI-EP2	Efficient Pr	ogramming 2	BI-EJA	Enterprise Java		BI-FMU		Financial and	Management	Account
BI-HAM	HW accele	rated network traffic m	BI-ARD	Interactive applications on Ardu		NI-IAM		Internet and M	lultimedia	
BIE-IMA2	Introductio	n to Mathematics 2	BI-CS2	C# language and data access		BI-CS3		Language C#	- design of we	eb appl
BI-SQL.1	Language	SQL, advanced	BI-QAP	Quantum algorithms and programm	ni	NI-LSM		Statistical Mod	lelling Lab	
NI-MPL	Manageria	l Psychology	NI-MSI	Mathematical Structures in Compu		BI-MPP.2	21	Methods of int	erfacing perip	hera
BI-MIT	Mikrotik teo	chnologies	NI-MOP	Modern Object-Oriented Programm	ni	BI-MVT.2	21	Modern Visua	lisation Techn	ologie
BI-MMP	Multimedia	team project	NI-OLI	Linux Drivers		BI-ACM		Programming	Practices 1	
BI-ACM2	Programmi	ing Practices 2	BI-ACM3	Programming Practices 3		BI-ACM4		Programming	Practices 4	
BI-AND.21	Programmi	ing 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	Programmi	ing in Mathematica	BI-PHP.1	Programing in PHP		BI-PS2		Programming	in shell 2	
NI-PDD	Data Prepr	ocessing	BI-PKM	Introduction to mathematics		NI-REV		Reverse Engir	neering	
BI-SCE1	Computer	Engineering Seminar I	BI-SCE2	Computer Engineering Seminar II		BI-ST1		Network Tech	nology 1	
BI-ST2	Network Te	echnology 2	BI-ST3	Network Technology 3		BI-ST4		Network Tech	nology 4	
BI-SOJ	Machine O	riented Languages	BI-SVZ	Machine vision and image process		NI-SYP		Parsing and C	ompilers	
BI-GIT	Version co	ntrol system GIT	TV1	Physical Education		TVV		Physical educ	ation	
TVV0	Physical ed	ducation	TV2	Physical Education		TV2K1		Physical Educ	ation 2	
TVKZV	Physical E	ducation Course	TVKLV	Physical Education Course		BI-TS1		Theoretical Se	eminar I	
BI-TS2	Theoretica	I Seminar II	BI-TS3	Theoretical Seminar III		BI-TS4		Theoretical Se	eminar IV	
BI-TDA	Test driven	architecture	NI-TSP	Testing and Reliability		BI-CCN		Compiler Con	struction	
BI-TEX	TeX and Ty	pography	BI-ULI	Introduction to Linux		BI-OPT		Introduction to	Optical Netw	orks
NI-VCC	Virtualizati	on and Cloud Computi	BI-VHS	Virtual game worlds		BI-VR1		Virtual reality		
BI-VR2	Virtual real	ity II	BI-VAK.21	Selected Applications of Combina		BI-VMM		Selected Math	ematical Meth	nods
NI-VYC	Computabi	lity	BI-ZS10	Bachelor internship abroad for 1		BI-ZS20		Bachelor inter	nship abroad	for 2
BI-ZS30	Bachelor in	nternship abroad for 3	BI-ZIVS	Intelligent Embedded System Fund	ł	BI-ZPI		Process engin	eering	

BI-ZNF	PHP Framework Nette - basics BI-ZRS Basics of System Control BI-IOS					of iOS Applic	ation				
BI-ZWU	Introductio	n to Web and User Int	BI-3DT.1	3D Printing							
BI-Z	KA	Zko	uška z angli	tiny 2009		1 Min		Min. cours. 1 Min/Max Max. cours. 2/4			PJ
BI-ANG1	English La	nguage Examination wit	BIE-EEC	English language external certif		1 BI-ANG		English Langu	lage, Internal (Certi	

List of courses of this pass:

Code	Name of the course	Completion	Credits
BI-3DT.1	3D Printing	KZ	4
active part in the l	English language, preparation for the B2 level exam course corresponds to the preparation for the English exam at the B2 level. Requirements for course credit. Academic Achievement anguage instructionMeet the requirements for writing assignments - Summary, Abstract, Argumentation PaperSucceed in both th ess rate set at 70%80% and over in BOTH tests means ORAL EXAM ONLY (no written part). Requirements will be specified by ind class of the term.	ne midterm and the	e final term
and regular gramma	Automata and Grammars uced to basic theoretical and implementation principles of the following topics: construction, use and mutual transformations of finite ars, translation finite automata, construction and use of pushdown automata, hierarchy of formal languages, Relationships between for red through the module is applicable in designs of algorithms for searching in text, data compression, simple parsing and translation,	rmal languages an	d automata.
BI-ACM	Programming Practices 1 This course is presented in Czech.	KZ	5
BI-ACM2	Programming Practices 2 This course is presented in Czech.	KZ	5
BI-ACM3	Programming Practices 3 This course is presented in Czech.	KZ	5
BI-ACM4	Programming Practices 4 This course is presented in Czech.	KZ	5
develops the know	Algorithms and Graphs 1 rs the basics of efficient algorithm design, data structures, and graph theory, belonging to the core knowledge of every computing cu /ledge from the course BI-DML.21, in which students acquire the knowledge and skills in combinatorics necessary for evaluating the rithms. The course also follows up knowledge from BI-MA1.21, the practical usage of asymptotic mathematics, in particular, the asyr	time and space co	
BI-ALO	Algebra and Logic The course extends and deepens the study of topics touched upon in the basic course in logic.	Z,ZK	4
BI-AND.21	Programming for the Android Operating System This course is presented in Czech.	KZ	4
BI-ANG	English Language, Internal Certificate Course information and teaching materials can be found at https://moodle-vyuka.cvut.cz/course/search.php?search=BI-AN	ZK G	2
BI-ANG1	English Language Examination without Preparatory Courses	Z,ZK	2
BI-APJ	Aplication Programming in Java This course is presented in Czech. Advanced technologies in Java.	Z,ZK	4
BI-APS.1	Architectures of Computer Systems	Z,ZK	5
Students will learn pipelined instruction not only in scalar pr	n the construction principles of internal architecture of computers with universal processors at the level of machine instructions. Specin processing and on the memory hierarchy. Students will understand the basic concepts of RISC and CISC architectures and the prin ocessors, but also in superscalar processors that can execute multiple instructions in one cycle, while ensuring the correctness of the elaborates the principles and architectures of shared memory multiprocessor and multicore systems and the memory coherence and	cial emphasis is giv ciples of instructior sequential model of	n processing of programs.
kits and control va	Interactive applications on Arduino ined for students of first grade of bachelor study as introduction to embedded systems. Students will learn how to design simple applicat ried peripherals with help of available libraries. The goal of the subject is to show varied software approaches to control embedded s ay of a PC. Thanks to possible control on higher (objective) layer, this platform is frequently used for artist performance and therefore Software Engineering students.	ystems, i.e. to see	the results
	Algorithms visually ments other algorithm courses at FIT. It brings knowledge about particular important algorithms from different fields of the computer so ad in BI-AG1 and BI-AG2. A wide scope of covered subject is made possible due to using visualization bz Algovision (www.algovision.org& that make understanding the principles of algorithms easy.		
BI-BAP	Bachelor Thesis	Z	14
BI-BEZ Students understand	Security d the mathematical fundamentals of cryptography and have an overview of current cryptographic algorithms and applications: symmetric . They also learn the fundamentals of secure programming and IT security, the fundamentals of designing and using modern cryptographic They are able to use properly and securely cryptographic primitives and systems that are based on these primitives.	Z,ZK and asymmetric cry	6 /ptosystems,

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BI-BLE	Blender	Z,ZK	4
	ds knowledge of opensource program Blender from BI-MGA (Multimedia and Graphics Applications) course. It is intended for those	-	
animation. It c	ffers a complete and practically oriented introduction to Blender environment. Students may continue to BI-PGA (Programming grap	hics applications) c	course.
BI-BPR	Bachelor project	Z	2
BI-CAO	Digital and Analog Circuits	Z,ZK	5
Students get the	fundamental understanding of technologies underlying electronic digital systems. They understand the basic theoretical models and	principles of functi	ionality of
transistors, gates, o	circuits, and conductors. They are able to design simple circuits and evaluate circuit parameters. They understand the differences between the differe	ween analog and d	igital modes
	of electronic devices.		
BI-CCN	Compiler Construction	Z,ZK	5
This is an introd	uctory class on compiler construction for bachelor students in computer science. The goal of the class is to introduce basic principles	of compilers for st	udents to
	nd the design and implementation of programming languages. Seeing and actually understanding self-compilation is the overarching	theme of the class	s.
BI-CS1	Programming in C#	KZ	4
-	urse is to introduce .NET Framework as a multi-language development platform. Then, programming language C#, its fundamental c		
	s, loops, definitions and calls of functions will be discussed. Attention is focused on the object oriented programming in C# - class de		U
constructors, meth	ods, properties, static members, Garbage Collector, inheritance and polymorphism, collections, delegates, and generics. Debugging	and exception pro	cessing, as
	well as work with files are emphasized.		
BI-CS2	C# language and data access	KZ	4
	and data access course objective is to introduce students several data access technologies - database, XML, NoSQL - on the Micros	•	
	s used to retrieve data - Connection, Command, Data Reader and DataAdapter v ADO.NET. Next, they will learn to use current tech	-	
	rying and updating data, integrated directly with the .NET platform languages, which enable LINQ use with Objects, XML and SQL (I		
). Another objective is the Entity Framework - an object-relational mapper that enables .NET developers to work with relational data is the source introduces Code First Detabase First Model First approaches. The students will also get to know the Consecutive Model First approaches.	a 1	
(ORIVI). THIS PART O	f the course introduces Code First, Database First, Model First approaches. The students will also get to know the Conceptual Mode (XML description).	i, Storage Moder al	
PL CS2		KZ	4
BI-CS3	Language C# - design of web applications e introduced to current technologies in web application development on the .NET platform. They will acquire a comprehensive overview	1	
The students will be	on thisplatform. They will learn to create WebAPI and to use it by client programs.		possibilities
		7 71/	4
BI-DAN	Taxes for non-Economists	Z,ZK	4
-	cial insurance contributions, are obligatory payments paid by people or institutions to public budgets. This is the way how a significant ns who pays which taxes or who bears the tax burden. The course introduces students to the tax theory and policy fundamentals and	-	
	nption, and wealth. The course provides practical information on calculations of tax liabilities of both citizens and institutions as well a		
	taxpayers' formal duties towards public administration.		
BI-DBS	Database Systems	Z,ZK	6
	oduced to the database engine architecture and typical user roles. They are briefly introduced to various database models. They lear	1 · · ·	
	constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the	-	
		5 5,	
	ation - the relational database model. I hey learn the principles of normalizing a relational database schema. I hey understand the funda	amental concepts of	f transaction
	ation - the relational database model. They learn the principles of normalizing a relational database schema. They understand the funda Iling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced	-	
processing, contro		to special ways of	storing data
processing, contro	ling 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
processing, contro	ling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data	to special ways of	storing data
processing, contro in relational databa BI-DPR	lling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data optimizing database applications, distributed database systems, data stores.	to special ways of s base systems, deb	storing data ugging and 4
processing, contro in relational databa BI-DPR	Iling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data optimizing database applications, distributed database systems, data stores. Document., Presentation, Rhetorics d to the professional communication and writing of the scientific texts (bachelor's and diploma thesis). Students will learn to create and p and presenting before an audience. Students will also learn to write technical reports and scientific texts.	to special ways of s base systems, deb KZ repare interactive pr	storing data ugging and 4
processing, contro in relational databa BI-DPR	Iling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data optimizing database applications, distributed database systems, data stores. Document., Presentation, Rhetorics d to the professional communication and writing of the scientific texts (bachelor's and diploma thesis). Students will learn to create and p and presenting before an audience. Students will also learn to write technical reports and scientific texts. Introduction to European Economic History	to special ways of s base systems, deb	storing data ugging and 4
processing, contro in relational databa BI-DPR This subject is aime	Iling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data optimizing database applications, distributed database systems, data stores. Document., Presentation, Rhetorics d to the professional communication and writing of the scientific texts (bachelor's and diploma thesis). Students will learn to create and p and presenting before an audience. Students will also learn to write technical reports and scientific texts.	to special ways of s base systems, deb KZ repare interactive p Z,ZK	storing data ugging and 4 resentations
processing, contro in relational databa BI-DPR This subject is aime	Iling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data optimizing database applications, distributed database systems, data stores. Document., Presentation, Rhetorics d to the professional communication and writing of the scientific texts (bachelor's and diploma thesis). Students will learn to create and p and presenting before an audience. Students will also learn to write technical reports and scientific texts. Introduction to European Economic History	to special ways of s base systems, deb KZ repare interactive pr	storing data ugging and 4 resentations
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BI-HMI	History of Mathematics and Informatics	Z,ZK	3
BI-IOS	This course is presented in Czech. Fundamentals of iOS Application Development for iPhone and iPad	KZ	4
ы-юз	This course is presented in Czech.	κz	4
BI-JPO	Computer Units	Z,ZK	5
	their basic knowledge of digital computer units acquired in the obligatory course of the program (BIE-SAP), get acquainted in detail w		
-	nputer units and processors and their interactions with the environment, including accelerating arithmetic-logic units and using approp		
	e organization of main memory and other internal memories (addressable, LIFO, FIFO and CAM) will be discussed in detail, including	-	
	lel and serial data transmissions. They will also get acquainted with the methodology of controller design, with the principles of commund the architecture of the bus system. The problems will be practically evaluated in the labs and with the help of the educational microproductions are computed with the system.		
the environment an	and programmable hardware design kits (FPGA).	grammed process	Sol Simulator
BI-KOT	Programing in Kotlin	Z,ZK	4
	n, statically-styled object-functional language that exploits the extensive Java language ecosystem while delivering a number of advar		1 -
	illy Java compliant and allows for mixed projects that preserve existing parts written in Java, and continue with the development of a r		
	with minimum of boiler-plate code. Last but not least, Kotlin is suitable for designing of DSLs (Domain-Specific Languages)		-
BI-KSA	Cultural and Social Anthropology	ZK	2
The one-semester	course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversity	y of the world - exa	amples from
anthropological res	search from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health	n, history, death, e	tc) will be
	shown. The course is presented in Czech.		
BI-LIN	Linear Algebra	Z,ZK	7
-	ht in Czech. Students understand the theoretical foundation of algebra and mathematical principles of linear models of systems aroun		-
	s are only linear. They know the basic methods for operating with matrices and linear spaces. They are able to perform matrix operations are apply these methods for operating are block in a particle of the area		
	ey can apply these mathematical principles to solving problems in 2D or 3D analytic geometry. They understand the error-detecting an	-	
BI-MEK	Macroeconomic Context of Domestic and World Economy This course is presented in Czech.	Z,ZK	4
BI-MIK	Fundamentals of Microeconomics	Z,ZK	4
DI-IVIIK	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	Ζ,ΖΝ	4
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 com		-
	vice providers (ISPs). The students learn how to use and create the architectures of the network solutions which are based on the me		
	trate 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-MLO	Mathematical Logic	Z,ZK	5
	The course seminary is taught in Czech.	-	1
BI-MMP	Multimedia team project	KZ	4
	This course is presented in Czech.		
BI-MPP.21	Methods of interfacing peripheral devices	Z,ZK	5
	sed on methods for interfacing of peripheral devices. Interfacing of real peripheral devices is focused on techniques based on Universa	, ,	
includes both PC s	side and peripheral devices side. Labs are practically oriented. Students gain experience with implementation of relevant parts of USE	8 devices, Linux ar	nd Windows
	drivers, simple application development, and APIs of selected devices.	7 71/	
BI-MVT.21	Modern Visualisation Technologies urse is to give an overview of modern visualization technologies and their principles, namely technologies related to virtual and augm	Z,ZK	5
-	blays (e.g., SAGE and video mapping) and their applications in practice. Several lectures deal with the content creation for the mentione	-	
ingit reconciler diop	and procedural visualization, scientific data visualization, and 3D model scanning.	ia teoriniologioo, ne	amory naotar
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		1
-	technology and on their solutions. The course will include the history of optical communications, an overview of passive components	-	
dispersion compen	sators, and others), and an overview of active components (optical switches and amplifiers, high-speed coherent transmission syster	ns). The course wi	ill also cover
	e topics presented at premium research conferences, such as ECOC or OFC. Attention will also be paid to new applications, such as		
ultrastable freque	ncy transfer, or sensor networks. The labs will focus on real work with optical components and on measurement of their parameters.	Students will solve	e real tasks
	from practice.	7 71/	-
BI-OSY	Operating Systems	Z,ZK	5 dae of OS
	and the classical theory of operating systems (OS) in addition to the knowledge gained in the module "Programming in Shell 1". They ses and threads implementations. They understand the problems of race conditions, thread scheduling, resource allocation and deadl	-	-
	nt of virtual memory, principles and architectures of disks, RAID and file systems. They are able to design and implement simple mult	-	
BI-PA1	Programming and Algorithmics 1	Z,ZK	6
	ability to formulate algorithms for solving basic problems and write them in the C language. They understand data types (simple, struc	,	1
statements, function	ons, concept of recursion. They learn to analyse simple cases of algorithm complexity. They know fundamental algorithms for searchi	ng, sorting, and m	anipulating
	with linked lists.		
BI-PA2	Programming and Algorithmics 2	Z,ZK	7
	e instruments of object-oriented programming and are able to use them for specifying and implementing abstract data types (stack, q	-	-
table). They can imp	plement linked structures. They learn these skills using the programming language C++. Although this is not a module of programming in	n C++, students ar	e introduced
	with all C++ features needed to achieve the main objective (operator overloading, templates).	71/	<u> </u>
BI-PAI	Law and Informatics	ZK	3
	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	KZ	4
BI-PHP.1 The course is ta	Programing in PHP aught in Czech Main goal of the course is an introduction to PHP - language and technology. Students will learn also best practices a		-
	PHP. The course is recommended for students of BIE-WSI-WI.2015 branch of study and do not have required knowledge to register f		
	register for this course in their 3rd semester of study.		,

BI-PJS.1 Main goal of the	JavaScript Programming	KZ	4
	course is an introduction to Javascript programming. Students will learn also best practices and will use tool that eases development		course is
	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 th		
	of study.		
BI-PJV	Programming in Java	Z,ZK	4
Briter	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	_,(•
BI-PKM	Introduction to mathematics	Z	4
	I I I I I I I I I I I I I I I I I I I	Ζ	4
	This course is presented in Czech.	7 71/	
BI-PMA	Programming in Mathematica	Z,ZK	4
Students will be wo	orking with modern technical and scientific software. Students will learn how to use different programming styles (functional programm	ling, rule-based pro	ogramming,
	etc.), how to create dynamic interactive applications and visualisations, data processing and presentations.		
BI-PNO	Practical Digital Design	KZ	5
-	erview of the contemporary digital design flow and learn practical skills to use synchronous design techniques. They understand the l		
and implementati	on technologies FPGA and ASIC. Students demonstrate practical use of the design techniques in the module project sing modern, inc	dustry-standard C/	AD design
	tools.		
BI-PRP	Law and business	Z,ZK	4
	. This course is presented in Czech.		
BI-PRR	Project management	KZ	4
	This course is presented in Czech.	I	
BI-PS1	Programming in Shell 1	KZ	5
-	knowledgeable users of common Unix-like operating systems. They understand the fundamental principles of the operating systems		-
	hts, memory management, network interfaces). They gain the knowledge of advanced users, with hands-on experience of the shell, b		
	process various text data.		
		7 71/	4
BI-PS2	Programming in shell 2	Z,ZK	4
Students gain a g	eneral overview of available scripting languages, their syntax, semantics, programming style, data structures, pros and cons. In addition	on, they gain a dee	per insight
51 5 61	into shell and some other particular scripting languages and will get practical experience with shell script programming.		
BI-PSI	Computer Networks	Z,ZK	5
	nd the basic common techniques, protocols, technologies, and algorithms necessary to communicate in computer networks. The topic		
2nd to 4th layer	of the ISO OSI model. They also get a basic understanding of communication media, security, and network administration. Students w	vill be able to write	a simple
	network application and configure a simple network.		
BI-PST	Probability and Statistics	Z,ZK	5
	earn the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variable		
basic models of ra	ndom variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction	on they will be able	to perform
estimations of unk	nown distributional parameters from random sample characteristics. They will also be introduced to the methods of determining the sta	atistical dependen	ce of two or
	more random variables.		
BI-QAP	Quantum algorithms and programming	KZ	5
Course aims at give	ng students hands-on experience with quantum computers and their programming. We focus on fundaments of quantum mechanics, o	n which quantum te	chnologies
are based, and alg	gorithms showing advantages and limitations of quantum computing. During tutorials students work in open-source software developm	nent kit Qiskit, whic	h is based
on Python langua	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-VMM	I and experience w	ith Python
	might be an advantage. No previous knowledge of physics is assumed.		
BI-SAP	Operation Otherstein and Analytic structure		
	Computer Structure and Architecture	Z.ZK	6
	Computer Structure and Architecture and basic digital computer units and their structures, functions, and hardware implementation; ALU, control unit, memory system, input	Z,ZK	-
Students understa	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, input	its, outputs, data st	orage and
Students understated transfer. In the lab	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, inputs, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design	its, outputs, data si gn tools. The subje	orage and ct teaches
Students understated transfer. In the lab	s, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital designed of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connections of the logic of the simple processor using modern digital designed of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connections of the logic of the simple processor using modern digital designed of the simple processor using modern digital	its, outputs, data si gn tools. The subje	orage and ct teaches
Students understa transfer. In the lab basic knowledge	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, inpu- is, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecti- languages.	its, outputs, data si gn tools. The subje ions to higher prog	corage and ct teaches ramming
Students understa transfer. In the lab basic knowledge BI-SCE1	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, inputes, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecting languages.	its, outputs, data si gn tools. The subje ions to higher prog Z	torage and ct teaches ramming 4
Students understa transfer. In the lab basic knowledge BI-SCE1 The Seminar of Co	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, input s, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecting languages. 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 to	its, outputs, data s gn tools. The subje ions to higher prog Z failures and attack	torage and ct teaches ramming 4 s. Students
Students understa transfer. In the lab basic knowledge BI-SCE1 The Seminar of Co are approached in	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, input s, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecting languages. Computer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance to dividually within the subject. Each student or group of students solves some interesting topic with the selected supervisor. Part of the	its, outputs, data s gn tools. The subje ions to higher prog Z failures and attack subject is work wit	torage and ct teaches ramming 4 s. Students h scientific
Students understa transfer. In the lab basic knowledge BI-SCE1 The Seminar of Co are approached in	and basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, input is, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecting languages. 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 to dividually 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	its, outputs, data s gn tools. The subje ions to higher prog Z failures and attack subject is work wit	torage and ct teaches ramming 4 s. Students h scientific
Students understa transfer. In the lab basic knowledge BI-SCE1 The Seminar of Co are approached in articles and other p	And basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, input s, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connecting languages. Computer Engineering is a (s)elective course for students who want to deal with deeper topics of digital design, reliability and resistance to dividually 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.	its, outputs, data s gn tools. The subje ions to higher prog Z failures and attack subject is work wit s. The topics are n	orage and ct teaches ramming 4 s. Students h scientific ew for each
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will be discusse	d. Lectures will usually discuss SQL standard, but many features will be demonstrated on Oracle DBMS. Seminars are based on Ora PostgreSQL.	cle DBMS and par	rtially on
BI-SRC	Real-time systems	KZ	4
	basic knowledge in the Real-time theory and in the design methods for RT systems including the dependability issues. Thereticla knowledge in the Real-time theory and in the design methods for RT systems including the dependability issues, therefore the transferred on the practical labs of the Department of Digital Design. This subject is mainly based on embedded R-T systems, therefore the t	-	
	as in BI-VES subject and FPGA.	g	
BI-ST1 The subject is or	Network Technology 1 iented to providing the students basic information and practical skills from the area of digital and IP networks. The subject is acredited	Z d under the Cisco I	3 Netacad -
	CCNA1 - R&S Introduction to Networks.		
BI-ST2	Network Technology 2 This course is presented in Czech.	Z	3
BI-ST3	Network Technology 3	Z	3
	r enhance their knowledge acquired from previous BI-ST1 and BI-ST2 courses. Principles of routing and switching presented during B ded in the course. Students will be able to start fine-tune protocols' settings to gain certain advantages like increased efficiency, predi 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	BI-ST1 and
-	ot further extended in BI-ST3. Students were able to start fine-tune protocols' settings to gain certain advantages like increased efficient		
	topology, security, etc. This module teaches students to configure and fine-tune Wide Area Networks and to experience a completely e Access) which radically differs from well-known Ethernet (broadcast) type of networks. Students will also manage router and switch		
-	nergency procedures. Also the security aspect is treated; students will learn possible intra- and inter-network attacks and the mitigation	-	
	network running.	-	
BI-STO	Storage and Filesystems	Z,ZK	4
	rn principles and current solutions of storage systems architecture. The module explains principles of data store, protection, and archi load balancing and high availability.		age scaling,
BI-SVZ	Machine vision and image processing	Z,ZK	5
-	are becoming a common part of life by being universally available. Related to this phenomenon is the need to process and evaluate in	-	
Introduces students	s to different types of camera systems and a variety of methods for image and video processing. The course is focused on practical use problems of practice that the graduates may encounter.	or camera system	is for solving
BI-TDA	Test driven architecture	KZ	4
	sused on practical examples of how to develop, test, and deploy software with tools like GitLab, Docker, Kubernetes, and more that ar	1	e DevOps
	urse 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 p	oroject.
BI-TEX	TeX and Typography	Z,ZK	4
This course is pres	ented in Czech. This course gives basics of programming in TeX (plain TeX, ConTeXt, LaTeX, OpTeX, LuaTeX). Te second part of the c rules.	ourse focuses on	typographic
BI-TS1	Theoretical Seminar I	Z	4
	r is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classic	1	he students
are treated individu	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v	vork with scientific	papers and
	other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.		
BI-TS2	Theoretical Seminar II		4
	r is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classica ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v		
	other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.		
BI-TS3	Theoretical Seminar III	Z	4
	r is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classic	·	
are treated individu	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.	vork with scientific	papers and
BI-TS4	Theoretical Seminar IV	Z	4
	r is intended for students which want to come in deeper contact with contemporary theoretical computer science. It is mostly a classic	1	
are treated individu	ally and concern themselves with interesting topics from the latest research in the area. Therefore, an integral part of the course is a v	vork with scientific	papers and
	other scholarly literature. The capacity is limited by the the potentials of the teachers of the seminar.		
BI-ULI	Introduction to Linux	Z	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 fa and techniques of a Unix-like system. Topics can be studied first theoretically and then practically verified in a virtual machine (ter		commands
BI-VAK.21	Selected Applications of Combinatorics	Z	3
	introduce students in an accessible form to various branches of theoretical computer science and combinatorics. In contrast to the ba	I	-
issue from applicat	ions to theory. Together, we will first refresh the basic knowledge needed to design and analyze algorithms and introduce some basic	data structures. F	urthermore,
-	ticipation of students, we will focus on solving popular and easily formulated problems from various areas of (not only theoretical) info		
will select problem	ns to be solved will include, for example, graph theory, combinatorial and algorithmic game theory, approximation algorithms, optimize also try to implement solutions to the studied problems with a special focus on the effective use of existing tools.	ation and more. Stu	udents will
BI-VES	Embedded Systems	Z,ZK	5
	esign embedded systems and develop software for them. They get basic knowledge of the most common microcontrollers and embedded	,	
	peripheral circuits, programming methods, and applications. They get practical skills with development kits and tools.	,	
BI-VHS	Virtual game worlds	ZK	4
	tudents to create a complex virtual world. The course is a continuation of basic graphical courses (MGA, PGR, BLE,). This current stud	-	
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 MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course MI-PVR with the task of converting scenes and their dynamics into a fully virtual environment suitable for VR devices of the course		onowed by
BI-VMM	Selected Mathematical Methods	Z,ZK	4
	g geometric properties of linear spaces with inner product. Next, we introduce and analyze the discrete Fourier transform (DFT) and it	,	
	ith differential calculus of functions involving multiple variables. We present methods for the localization of extreme values of functions		
normed linear space	es and quadratic forms. In addition, we introduce the least square method. The last part of the course is devoted to optimization and d	uality. The linear pr	rogramming
	and the Simplex method is analyzed in more detail.		

BI-VR1 Virtual reality I KZ 4	ł
Introduction to Virtual Reality (VR), virtual reality operating system and virtual reality creation. Another objective is to meet the rules and requirements of virtual worlds communication. The course focuses on the ways of teaching using virtual reality technologies and interactive activities in educational virtual 3D worlds. It improves computational thinking, empa	
and shared social activities.	luiy
BI-VR2 Virtual reality II KZ 3	3
Continuation of the course Virtual Reality I. The new course focuses on collaborative telepresence, spatial computing and social life of avatars. The objective is to develop application of the course Virtual Reality I. The new course focuses on collaborative telepresence, spatial computing and social life of avatars. The objective is to develop application of the course Virtual Reality I. The new course focuses on collaborative telepresence, spatial computing and social life of avatars. The objective is to develop application of the course Virtual Reality I. The new course focuses on collaborative telepresence, spatial computing and social life of avatars.	tions
for computer science and gamification in various social metaverse and desktop engines. BI-ZDM Elements of Discrete Mathematics Z,ZK 5	
Students get both a mathematical sound background, but also practical calculation skills in the area of combinatorics, value estimation and formula approximation, tools for solv	
recurrent equations, and basics of graph theory.	0
BI-ZIVS Intelligent Embedded System Fundamentals KZ 4	
Intelligent embedded system fundamentals course is focused on high-level technology embedded systems integrating artificial intelligence. The aim of the course is to teach stud modern humanoid robot control and development of applications in a graphical development environment. Lectures provide fundamentals of motion control, sensor reading, applic	
interfaces, robot navigation and development tools. In labs, students program a set of basic task by using the robot simulator and real hardware to get practical experience with the	
technologies.	
BI-ZMA Elements of Calculus Z,ZK Elements of Calculus acquire knowledge and understanding of the fundamentals of classical calculus so that they are able to apply mathematical way of thinking and reasoning and are able	
use basic proof techniques. They get skills to practically handle functions of one variable in solving the problems in informatics. They understand the links between the integrals	
sums of sequences. They are able to estimate lower or upper bounds of values of real functions and to handle simple asymptotic expressions.	
BI-ZNF PHP Framework Nette - basics KZ 3	
Students will gain the basics of PHP framework Nette. They will learn how to practically work with MVP architecture and various libraries of this Czech popular framework. The result knowledge should serve for the efficient creation of a web backend in PHP language.	liting
BI-ZPI Process engineering KZ 4	ŧ
Students will learn fundamentals of process engineering in this subject. Students will get necessary foundations for understanding formal principles of process modelling and the	
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 processes using mo CASE tools. The role of process engineering for information systems development is discussed as well as its importance in the overall context of information and business strategy	
an enterprise.	<i>y</i> 01
BI-ZRS Basics of System Control Z,ZK 4	ŧ
The course gives an introduction to the field of automatic control. Students will gain knowledge in this rapidly evolving field of great future. We will focus our attention particularly	
control of engineering and physical systems. We will provide basic information from the feedback control of linear dynamical SISO systems, description methods of system mod basic linear dynamic systems analysis and design verification, simple PID feedback, PSD, and fuzzy controllers. Students will learn the methods of creating a description of the system systems analysis and design verification.	
model, the basic linear dynamic systems analysis and design verification and simple PID feedback, PSD, and fuzzy controllers. Attention is also given to sensors and actuators	
control loops, issues of stability in control systems, single and continuous adjustment of the controller parameters, and certain aspects of the industrial implementation of continu and digital controllers and PLC control.	IOUS
BI-ZS10 Bachelor internship abroad for 10 credits Z 1	0
Each student can once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or research institution. Before	-
internship the Dean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and extent of	
internship. Auxiliary courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks of full- employment with a foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects if the intern	
exceeds the academic year's dead-line.	
BI-ZS20 Bachelor internship abroad for 20 credits Z 2	-
Each student can once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or research institution. Before internship the Dean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and extent of	
internship. Auxiliary courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks of full-	
employment with a foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects if the intern	nship
exceeds the academic year's dead-line. BI-ZS30 Bachelor internship abroad for 30 credits Z 3	
BI-ZS30 Bachelor internship abroad for 30 credits Z 3 Each student can once within his / her bachelor's study programme have a foreign internship at a foreign university or other foreign scientific and/or research institution. Before	
internship the Dean of the FIT, or the vice-dean for study affairs assesses the professional content. The student must provide evidence of the professional content and extent of	
internship. Auxiliary courses BI-ZS10, BI-ZS20, BI-ZS30 are used used for the evidence and evaluation of the internship in IS KOS. Every 10 credits correspond to 4 weeks of full- employment with a foreign institution. The maximum number of credits a student can earn for one internship is 30 credits. This amount can be divided into two subjects if the intern	
employment with a loteign institution. The maximum number of credits a student can earl for one meristip is 50 credits. This amount can be divided into two subjects in the inter- exceeds the academic year's dead-line.	isilip
BI-ZWU Introduction to Web and User Interfaces Z,ZK 4	
This course is presented in Czech.	1
BIE-EEC English language external certificate Z 4	1
BIE-EEC English language external certificate Z 4 The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceed the B2 level of the Common European Framework of Reference for Languages.	1
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates their proficiency in English comparable to or exceeded and the submission of a certificate that demonstrates the certificate that demonstrates the submission of a certificate that demonstrates the certificate the certificate that demonstrates the certificate that demonstrates the certificate the certificate that demonstrates the certificate the certificate that demonstrates the certificate the certi	1 eding
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or excess BIE-IMA2 Introduction to Mathematics 2 Z 2 Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in participant.	1 eding 2
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceed the B2 level of the Common European Framework of Reference for Languages. BIE-IMA2 Introduction to Mathematics 2 Z 2 Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in partice examples. Examples.	4 eding 2 cular
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or excess BIE-IMA2 Introduction to Mathematics 2 Z 2 Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in participant.	4 eding 2 cular 4
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceed the B2 level of the Common European Framework of Reference for Languages. BIE-IMA2 Introduction to Mathematics 2 Z Z Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in partice examples. BIE-ZUM Artificial Intelligence Fundamentals Z,ZK 4 Students are introduced to the fundamental problems in the Artificial Intelligence, and the basic methods for their solving. It focuses mainly on the classical tasks from the areas of space search, multi-agent systems, game theory, planning, and machine learning. Modern soft-computing methods, including the evolutionary algorithms and the neural networks	1 eding 2 cular 1 state
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceed the B2 level of the Common European Framework of Reference for Languages. BIE-IMA2 Introduction to Mathematics 2 Z Z Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in partice examples. BIE-ZUM Artificial Intelligence Fundamentals Z,ZK 4 Students are introduced to the fundamental problems in the Artificial Intelligence, and the basic methods for their solving. It focuses mainly on the classical tasks from the areas of a space search, multi-agent systems, game theory, planning, and machine learning. Modern soft-computing methods, including the evolutionary algorithms and the neural networks be presented as well.	4 eding 2 cular 4 state s, will
The BIE-ECC course can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in English comparable to or exceed the B2 level of the Common European Framework of Reference for Languages. BIE-IMA2 Introduction to Mathematics 2 Z Z Students refresh and extend knowledge of elementary functions and their properties. Students understand basic mathematical principles and they are able to apply them in partice examples. BIE-ZUM Artificial Intelligence Fundamentals Z,ZK 4 Students are introduced to the fundamental problems in the Artificial Intelligence, and the basic methods for their solving. It focuses mainly on the classical tasks from the areas of space search, multi-agent systems, game theory, planning, and machine learning. Modern soft-computing methods, including the evolutionary algorithms and the neural networks	4 eding 2 cular 4 state s, will
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FI-HPZ			
A "Humanities sub	Humanities subject from a study abroad ject that has been studied abroad" is covered by the Humanities subject from a study abroad in Compulsory Humanities Module tha	L Z t is required in the	3 e curriculum.
	The substitution is approved by the Vice-Dean for study affairs on behalf of the Dean at the request of the student.		
FI-HTE The course introdu	History of Technology and Economics ces the scientific disciplines of history and technology, economic and social history of the Czech lands and Czechoslovakia in comp	ZK arison with the de	2 evelopment of
	the European region 19 to 21 century.		
FI-KSA	Cultural and Social Anthropology	ZK	2
	course aims to acquaint students with the basics of social and cultural anthropology as a scientific discipline dealing with the diversit	1	
	earch from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, healt shown. The course is an interesting alternative to other humanities, taught at FIT.		
FI-MPL	Managerial Psychology	ZK	2
FI-ULI	Introduction to Linguistics for Computer This course is presented in Czech.	ZK	2
FI-VEZ	economic-managerial course from a study abroad	Z	4
A "Humanities sub	ject that has been studied abroad" is covered by the Humanities subject from a study abroad in Compulsory Humanities Module tha	t is required in the	e curriculum.
	The substitution is approved by the Vice-Dean for study affairs on behalf of the Dean at the request of the student.		
NI-AFP	Applied Functional Programming	KZ	5
This course is pres	ented in Czech. Functional programming represents one of the traditional programming paradigms. Traditional and novel functional p	orogramming lang	uages are on
the rise nowadays	and the functional paradigm becomes an important construct of traditionally imperative languages (C++, C#, Java). As such, master	ring this paradigm	becomes a
	necessary competence of a software engineer: the theory and especially the practice.		
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 (on experience wit	h large scale
	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.	·	• •
NI-DSP	Database Systems in Practes	Z,ZK	4
	This course is presented in Czech.		
NI-DZO	Digital Image Processing	Z,ZK	4
	nts a comprehensive overview of modern methods for interactive editing of digital images and video. It mainly deals with practical alg		1 -
	e an interesting theoretical basis. Visually attractive applications provide better understanding of basic theoretical background that is all	-	-
	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 conv	-	-
	gid-as-possible image deformation, free-form image registration, texture synthesis, interactive segmentation, colorization, painting, a		
			-
NI-IAM	Internet and Multimedia	Z,ZK	4
	e is focused on principles and modern technologies for network transmissions of audiovisual (AV) signals. The syllabus includes acc signals (output), network communication protocols, device interfaces, codecs, data formats and stereoscopy. We will look at practical (
1 *	hissions. Within the labs, students will practically assemble AV transmission chains using HW and SW technologies and verify the eff		
	ncy of AV transmissions. Students will learn how to build Internet infrastructure for end-to-end AV transmissions from the recording the	ect of various con	
l the quality and late		a acono un to the	nrocontotion
		e scene up to the	presentation
	for audience.		-
NI-LSM	for audience. Statistical Modelling Lab	KZ	5
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The subject is ori	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 p on and its modeling using numpy and scipy. The second half of the semester is focused on the design of methods and algorithms, an	KZ but on the effective and analyses of the	5 e use of the
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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 variables of variables and formal translation theories are students and statement of the stateme	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 with	h the help of
the intuitive path s	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
	in knowledge of architectures of large computer systems that are used in data centers and computer infrastructure of companies and	•	
	irtualization principles, tools and technologies that serve to facilitate and automate configuration, testing and monitoring, and to efficient		-
	arameters of modern computer systems. Theoretically and practically, they will get acquainted with containerization as the most effect		-
management of co	mplex computer systems and with specific technologies of cloud systems. Finally, they will learn the principles and gain practical skills i	n the use of moder	n integration
	and development tools (Continuous integration and development).		1
NI-VYC	Computability	Z,ZK	4
	Classical theory of recursive functions and effective computability.		
TV1	Physical Education	Z	0
TV2	Physical Education	Z	0
TV2K1	Physical Education 2	Z	1
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
TVV	Physical education	Z	0
TVV0	Physical education	Z	0

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-20, time 13:17.