Recomended pass through the study plan

Name of the pass: Bachelor branch Security and Information Technology, in Czech, part-time, 2015-2019

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor branch Security and Information Technology, in Czech, part-time,

2015 - 2019

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 combined

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 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
BIK-CAO	Digital and Analog Circuits Martin Da hel	Z,ZK	5	13KP+4KC	Z	PP
BIK-MLO	Mathematical Logic Karel Klouda Karel Klouda (Gar.)	Z,ZK	5	13KP+4KC	Z	PP
BIK-PA1	Programming and Algorithmics 1 Josef Vogel	Z,ZK	6	20KP+6KC	Z	PP
BIK-PS1	Programming in Shell 1 Dana ermáková	KZ	5	13KP+4KC	Z	PP
BIK-ZMA	Elements of Calculus Ivo Petr Ivo Petr Tomáš Kalvoda (Gar.)	Z,ZK	6	20KP+4KC	Z	PP
BIK-PAI	Law and Informatics Zden k Ku era	ZK	3	13KP	Z	PO

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
BIK-DBS	Database Systems Michal Valenta	Z,ZK	6	13KP+8KC	L	PP
BIK-LIN	Linear Algebra Karel Klouda Karel Klouda (Gar.)	Z,ZK	7	26KP+4KC	L	PP
BIK-PA2	Programming and Algorithmics 2	Z,ZK	7	13KP+4KC	L	PP
BIK-SAP	Computer Structure and Architecture Martin Da hel	Z,ZK	6	13KP+4KC	L	PP
BIK-V.2017	ist volitelné p edm ty bakalá ského programu BIK, verze 2017 BIK-STO,BIK-EJA, (see the list of groups below)	Min. cours.	Min/Max 0/16			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
BIK-AG1	Algorithms and Graphs 1	Z,ZK	6	14KP+4KC	Z	PP

				1		
BIK-AAG	Automata and Grammars Ond ej Guth	Z,ZK	6	13KP+4KC	Z	PP
BIK-ZDM	Elements of Discrete Mathematics Eva Pernecká Josef Kolá Josef Kolá (Gar.)	Z,ZK	5	13KP+4KC	Z	PP
BIK-ADW.1	Windows Administration Miroslav Prágl	Z,ZK	4	14KP+2KC	Z	PO
BIK-APS.1	Architectures of Computer Systems Pavel Tvrdík	Z,ZK	5	14KP+4KC	Z	PO
BIK-V.2017	ist volitelné p edm ty bakalá ského programu BIK, verze 2017	Min. cours.	Min/Max 0/16			V
	BIK-STO.BIK-EJA (see the list of groups below)	1 0	0/10		l	I

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
BIK-BEZ	Security Ji í Dostál	Z,ZK	6	13KP+4KC	L	PP
BIK-OSY	Operating Systems Michal Šoch	Z,ZK	5	13KP+4KC	L	PP
BIK-PSI	Computer Networks	Z,ZK	5	13KP+4KC	L	PP
BIK-ADU.1	Unix Administration	Z,ZK	5	14KP+4KC	L	PO
BIK-BEK	Secure Code Róbert Lórencz	Z,ZK	5	14KP+4KC	L	РО
BIK-V.2017	ist volitelné p edm ty bakalá ského programu BIK, verze 2017 BIK-STO,BIK-EJA, (see the list of groups below)	Min. cours.	Min/Max 0/16			V

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
BIK-BPR	Bachelor project Zden k Muziká Zden k Muziká Zden k Muziká (Gar.)	Z	2		Z,L	PP
BIK-PST	Probability and Statistics Daniel Vasata	Z,ZK	5	13KP+4KC	Z	PP
BIK-SI1.2	Software Engineering I Ji í Mlejnek Ji í Mlejnek (Gar.)	Z,ZK	5	13KP+4KC	Z,L	PP
BIK-HWB	Hardware Security Ji í Bu ek, Róbert Lórencz Ji í Bu ek Róbert Lórencz (Gar.)	Z,ZK	5	14KP+4KC	Z	РО
BIK-SSB	System and Network Security Ji í Dostál Ji í Dostál Ji í Dostál (Gar.)	Z,ZK	5	14KP+4KC	Z	РО
BIK-PV-EM.2015	Povinn volitelné p edm ty ekonomické bc. programu Informatika, komb. forma studia, verze 2015 BIK-MEK,BIK-PRP, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 4/5			VE
BIK-V.2017	ist volitelné p edm ty bakalá ského programu BIK, verze 2017 BIK-STO,BIK-EJA, (see the list of groups below)	Min. cours.	Min/Max 0/16			V

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	Bachelor Thesis Zden k Muziká Zden k Muziká (Gar.)	Z	14		L,Z	PP
BIK-DPR	Documentation, presentation, and rhetoric Ond ej Guth, Dana Vynikarová Dana Vynikarová (Gar.)	KZ	4	5ZP	L	PP
BIK-PV-EM.2015	Povinn volitelné p edm ty ekonomické bc. programu Informatika, komb. forma studia, verze 2015 BIK-MEK,BIK-PRP, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 4/5			VE

BI-ZKA	Zkouška z angli tiny 2009 BI-ANG1,BIE-EEC, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 2/4		PJ	
BIK-PV-HU.2015	Povinn volitelné humanitní p edm ty bakalá ského programu Informatika, kombinovaná forma, ver. 2015 FI-FIL,BIK-HMI, (see the list of groups below)	Min. cours. 1 Max. cours. 9	Min/Max 2/20		VH	
BIK-V.2017	ist volitelné p edm ty bakalá ského programu BIK, verze 2017 BIK-STO,BIK-EJA, (see the list of groups below)	Min. cours.	Min/Max 0/16		V	

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

BIK-PV-EM.2015 BIK-MEK Macroe BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human	Povinn volitelné Informatika,	komb. forma	English language external cert conomické bc. programu studia, verze 2015 Law and Business	Max Min. Max	cours. BI-ANG cours.	Min/M 4/5	English Langu	uage, Internal C	PJ Certi VE
BIK-PV-EM.2015 BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human	Povinn volitelné Informatika,	p edm ty ek komb. forma	conomické bc. programu studia, verze 2015	Min.	BI-ANG cours. cours. cours. BIK-PRR	4/5	ax		
BIK-PV-EM.2015 BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human	Povinn volitelné Informatika,	komb. forma	conomické bc. programu studia, verze 2015	Min.	1 . cours. 1 BIK-PRR	4/5	ax		
BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human	Informatika,	komb. forma	Law and Business		. cours. 1 BIK-PRR	4/5		gement	VE
BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human	Informatika,	komb. forma	Law and Business		. cours. 1 BIK-PRR	4/5		gement	VE
BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human				Min.	BIK-PRR	2.21	Project mana	gement	
BIK-PV-HU.2015 FI-FIL Philoso FI-HPZ Human				Min.	L	2.21	Project mana	gement	
FI-FIL Philoso FI-HPZ Human	Povinn volitelné hur	manitní n edm		Min.	cours.				
FI-FIL Philoso FI-HPZ Human	Povinn volitelné hur	manitní n edm							
FI-FIL Philoso FI-HPZ Human	Informatiles		n ty bakalá ského progran	mu	1	Min/M	ax		VH
FI-HPZ Human	informatika	, kombinovan	ná forma, ver. 2015	Max	. cours.	2/20)		VH
FI-HPZ Human					9				
	phy	BIK-HMI	History of Mathematics and Inf	for	FI-HTE		History of Tec	hnology and Ed	onom
IK-KSA Cultura	ities subject from a study	FI-MPL	Managerial Psychology		FI-KSA		Cultural and S	Social Anthropo	logy
AIT TOA Cultura	I and Social Anthropology	FI-ULI	Introduction to Linguistics for						
BIK-V.2017	ist volitelné p ed	m ty bakalá s 2017	ského programu BIK, verz	ze Min.	cours.	Min/M 0/16			V
BIK-STO Storage	and Filesystems	BIK-EJA	Enterprise Java	ļ.	BIK-HMI	<u> </u>	History of Ma	thematics and I	nfor
BIK-SQL.1 Langua	ge SQL	BIK-OOP	Object-Oriented Programming		BIK-PJV		Programming	in Java	
BIK-PRR.21 Project	management	BIK-PKM	Introduction to Mathematics		TVV		Physical educ	cation	
ΓV1 Physica		TVV0			TV2K1		Physical Educ		

List of courses of this pass:

Code	Name of the course	Completion	Credits
BI-ANG	English Language, Internal Certificate	ZK	2
	Course information and teaching materials can be found at https://moodle-vyuka.cvut.cz/course/search.php?search=BI-AN	Ğ	
BI-ANG1	English Language Examination without Preparatory Courses	Z,ZK	2
BI-BAP	Bachelor Thesis	Z	14
BIE-EEC	English language external certificate	Z	4
The BIE-ECC cours	se can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in Engli	sh comparable to c	r exceeding
	the B2 level of the Common European Framework of Reference for Languages.		
BIK-AAG	Automata and Grammars	Z,ZK	6
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	nars, translation finite automata, construction and use of pushdown automata, hierarchy of formal languages. Knowledge acquired thr	ough the module is	s applicable
	to creation of algorithms for pattern matching, data compression, translation, simple parsing, and creation of digital circuits	S.	

	Unix Administration	Z,ZK	5
	amiliar with the internal structure of Unix-like systems, with the administration of their basic subsystems and with the principles of their particles.		
	ars they will verify the information from the lectures on real life examples from practice. They will understand the differences between		
I ney gain theoretic	al and practical knowledge of tools for tracking, analyzing, debugging and securing systems, implementing and managing file systems memory, network services, shared file systems, name services, remote access, and system boot.	, alsk subsystems	, processes,
BIK-ADW.1	Windows Administration	Z,ZK	4
DIK-ADVV. I	This course is presented in Czech.	Ζ,ΖΙ	1 4
BIK-AG1	Algorithms and Graphs 1	Z,ZK	6
5	This course is presented in Czech.	_,	
BIK-APS.1	Architectures of Computer Systems	Z,ZK	5
'	This course is presented in Czech.	,	'
BIK-BEK	Secure Code	Z,ZK	5
The students will le	arn how to assess security risks and how to take them into account in the design phase of their own code and solutions. After getting fa	miliar with the thre	at modeling
-	gain practical experience with running programs with reduced privileges and methods of specifying these privileges, since not every		
	ileges. Dangers inherent in buffer overflows will be practically demonstrated. Students will be introduced to the principles of securing		
-	database systems, web, remote procedure calls, and sockets in general. The module concludes with Denial of Service attacks and the		
BIK-BEZ	Security d the mathematical fundamentals of cryptography and have an overview of current cryptographic algorithms and applications: symmetric a	Z,ZK	6
	. They also learn the fundamentals of secure programming and IT security, the fundamentals of designing and using modern cryptos		
	They are able to use properly and securely cryptographic primitives and systems that are based on these primitives.	,	
BIK-BPR	Bachelor project	Z	2
BIK-CAO	Digital and Analog Circuits	Z,ZK	5
	fundamental understanding of technologies underlying electronic digital systems. The understand the basic theoretical models and	,	onality of
transistors, gates, o	ircuits, and conductors. They are able to design simple circuits and evaluate circuit parameters. They understand the differences between	een analog and d	igital modes
	of electronic devices.		
BIK-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	-	
	constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the		
	ation? the relational database model. They learn the principles of normalizing a relational database schema. They understand the funda ling parallel user access to a single data source, as well as recovering a database engine from a failure. They are briefly introduced t	•	
_	ases with respect to speed of access to large quantities of data. This introductory-level course does not cover: Administration of data!		-
iii Tolational databe	optimizing database applications, distributed database systems, data stores.	add dydidinia, ddb	agging and
BIK-DPR	Documentation, presentation, and rhetoric	KZ	4
	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).		
BIK-EJA	Enterprise Java	KZ	4
The course covers	Java technologies (Jakarta EE, Microprofile, etc.) which are used for the development of EIS (Enterprise Information Systems). These	applications typic	ally manage
per	sistent data, are accessible to clients via the REST API and are created in the microservice architecture and deployed into orchestrat	ed containers	
BIK-HMI	History of Mathematics and Informatics	ZK	3
	This course is presented in Czech.	ZK	'
BIK-HWB	This course is presented in Czech. Hardware Security	ZK Z,ZK	5
BIK-HWB The course deals	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with	ZK Z,ZK h the operating pri	5 nciples of
BIK-HWB The course deals cryptographic mode	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vo	ZK Z,ZK h the operating pri	5 nciples of V resources,
BIK-HWB The course deals cryptographic mode	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vulnel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tecture.	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including	5 nciples of V resources,
BIK-HWB The course deals cryptographic modu	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vunel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tecture and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of	ZK Z,ZK h the operating priulnerabilities of HV hnology including ciphers.	5 nciples of V resources, applications
BIK-HWB The course deals cryptographic modu including side-chan	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vulnel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tecture.	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including ciphers. ZK	5 nciples of V resources, applications
BIK-HWB The course deals cryptographic modu including side-chan BIK-KSA The one-semester	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vurinel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tectual and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of Cultural and Social Anthropology	ZK Z,ZK In the operating priulnerabilities of HV Inhology including ciphers. ZK y of the world - exa	5 nciples of V resources, applications 2 amples from
BIK-HWB The course deals cryptographic modu including side-chan BIK-KSA The one-semester	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with ules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about vurinel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tectual and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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	ZK Z,ZK In the operating priculnerabilities of HV Innology including ciphers. ZK y of the world - exature, language, he	5 nciples of V resources, applications 2 amples from
BIK-HWB The course deals cryptographic mode including side-chan BIK-KSA The one-semester anthropological res	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with sules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about we nel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card technique and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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 culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material culdeath, etc). The course is an interesting alternative to other humanities, taught at FIT. Linear Algebra	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including ciphers. ZK y of the world - exe ture, language, he	5 nciples of V resources, applications 2 amples from alth, history,
BIK-HWB The course deals cryptographic mode including side-chan BIK-KSA The one-semester anthropological res BIK-LIN Students understa	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with sules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about we nel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card technique and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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 culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material culdeath, etc). The course is an interesting alternative to other humanities, taught at FIT. Linear Algebra and the theoretical foundation of algebra and mathematical principles of linear models of systems around us, where the dependencies	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including ciphers. ZK y of the world - exe ture, language, he Z,ZK a among compone	5 nciples of V resources, applications 2 amples from alth, history, 7 nts are only
BIK-HWB The course deals cryptographic mode including side-chan BIK-KSA The one-semester anthropological res BIK-LIN Students understa linear. They know to	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with sules, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about we nel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tect and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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 culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material culdeath, etc). The course is an interesting alternative to other humanities, taught at FIT. Linear Algebra and the theoretical foundation of algebra and mathematical principles of linear models of systems around us, where the dependencies the basic methods for operating with matrices and linear spaces. They are able to perform matrix operations and solve systems of linear models.	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including ciphers. ZK y of the world - exe ture, language, he Z,ZK among componer ear equations. The	5 nciples of V resources, applications 2 amples from alth, history, 7 nts are only
BIK-HWB The course deals cryptographic modu including side-chan BIK-KSA The one-semester anthropological res BIK-LIN Students understa linear. They know t	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with talles, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about we nel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tect and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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 culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material culture death, etc). The course is an interesting alternative to other humanities, taught at FIT. Linear Algebra and the theoretical foundation of algebra and mathematical principles of linear models of systems around us, where the dependencies he basic methods for operating with matrices and linear spaces. They are able to perform matrix operations and solve systems of linear mathematical principles to solving problems in 2D or 3D analytic geometry. They understand the error-detecting and error-corre	ZK Z,ZK h the operating pri ulnerabilities of HV chnology including ciphers. ZK y of the world - exa ture, language, he Z,ZK among componer ear equations. The cting codes.	5 nciples of V resources, applications 2 amples from alth, history, 7 nts are only y can apply
BIK-HWB The course deals cryptographic mode including side-chan BIK-KSA The one-semester anthropological res BIK-LIN Students understa linear. They know to	This course is presented in Czech. Hardware Security s with hardware resources used to ensure security of computer systems including embedded ones. The students become familiar with talles, the security features of modern processors, and storage media protection through encryption. They will gain knowledge about we nel attacks and tampering with hardware during manufacture. Students will have an overview of contact and contactless smart card tect and related topics for multi-factor authentication (biometrics). Students will understand the problems of effective implementation of 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 culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material culture death, etc). The course is an interesting alternative to other humanities, taught at FIT. Linear Algebra and the theoretical foundation of algebra and mathematical principles of linear models of systems around us, where the dependencies he basic methods for operating with matrices and linear spaces. They are able to perform matrix operations and solve systems of linear emathematical principles to solving problems in 2D or 3D analytic geometry. They understand the error-detecting and error-corrected macroeconomic Context of Domestic and World Economy	ZK Z,ZK h the operating pri ulnerabilities of HV hnology including ciphers. ZK y of the world - exe ture, language, he Z,ZK among componer ear equations. The	5 nciples of V resources, applications 2 amples from alth, history, 7 nts are only
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BIK-PA2	Programming and Algorithmics 2	Z.ZK	7
	instruments of object-oriented programming and are able to use them for specifying and implementing abstract data types (stack, q	,	1
	ement linked structures. They learn these skills using the programming language C++. Although this is not a module of programming in with all C++ features needed to achieve the main objective (operator overloading, templates).		
BIK-PAI	Law and Informatics	ZK	3
BIK-PJV	Programming in Java	Z,ZK	4
	This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753)		· -
BIK-PKM	Introduction to Mathematics This course is presented in Czech.	Z	4
BIK-PRP	Law and Business	Z,ZK	4
	the basic issues when engaging in business activities in the CR and in the EU. Students learn to establish companies, gain necessal contracts. Students also get acquainted with the principles of antitrust regulation and learn to resolve disputes in the area of busines in courts.		
BIK-PRR.21	Project management	Z,ZK	5
I .	not only as a common dictionary and setting necessary processes while preparing and / or managing projects, but also as a social a only in IT in various positions and different projects available at your hands.	,	perience no
BIK-PS1	Programming in Shell 1	KZ	5
I .	dvanced and knowledgeable users of common UNIX-like operating systems. They understand the fundamental principles of the ope		_
processes and threa	ds, access rights, memory management, network interfaces). They gain the knowledge of advanced users, with hands-on experience and filters.	of the shell, basic	commands
BIK-PSI	Computer Networks	Z,ZK	5
2nd to 4th layer of	the basic common techniques, protocols, technologies, and algorithms necessary to communicate in computer networks. The topic the ISO OSI model. They also get a basic understanding of communication media, security, and network administration. Students we network application and configure a simple network.	vill be able to writ	e a simple
BIK-PST	Probability and Statistics	Z,ZK	5
	ced to elements of probability thinking, ability of the synthesis both prior and posterior information and use to work with random varial	-	
	dels of the distribution of random variables and to solve applied probability problems in the area of informatics and computer science Ir methods of statistical inference to estimate unknown population parameters on the basis of sample. They get acquainted with basic	-	
metrious, tricy music	of possible statistical dependence of two or more random variables.	methods of the c	Ctorrilliation
BIK-SAP	Computer Structure and Architecture	Z,ZK	6
Students understan	d basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, inpu	ts, outputs, data	storage and
	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 connection languages.		
BIK-SI1.2	Software Engineering I	Z,ZK	5
	e methods of analysis and design of large software systems, which are typically designed and implemented in teams. They get pract and design of a large-scale software project that is to be developed within the concurrent BI-SP1 module. They get skill to use CASE	ical skill thanks t	o applying
	ing georgia of a large-scale software project that is to be developed within the concurrent DFSF I module. They det SKII to use CASE	tools and UML f	or modellina
and s	and design of a large-scale software project that is to be developed within the concurrent Bi-SPT module. They get skill to use CASE olving software-related problems. They get overview of object-oriented analysis, design, architecture, validation, verification, and test		or modelling
and s			or modelling
BIK-SQL.1 Course is based on b	olving software-related problems. They get overview of object-oriented analysis, design, architecture, validation, verification, and test Language SQL In pair of the control of the c	ting processes. KZ rticular stored pro	4 ogram unites
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FI-ULI	Introduction to Linguistics for Computer	ZK	2
This course is presented in Czech.			
TV1	Physical Education	Z	0
TV2K1	Physical Education 2	Z	1
TVV	Physical education	Z	0
TVV0	Physical education	Z	0

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-17, time 07:36.