Recomended pass through the study plan

Name of the pass: Bachelor branch Web and Software Engineering, spec. Software Engin., in Czech, part-time, 2015-2020

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor branch Web and Software Engineering, spec. Software Engin., in Czech, part-time, 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 combined

Note on the pass: 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	PZ

Number of semes	ster: 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. 0	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 Ji í Chludil	Z,ZK	6	14KP+4KC	Z	PP

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-PPA	Programming Paradigms	Z,ZK	5	14KP+4KC	Z	PZ
BIK-TJV	Java Technology Ond ej Guth	Z,ZK	4	14KP+4KC	Z	PZ
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. 0	Min/Max 0/16			V

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-SI1.2	Software Engineering I Ji í Mlejnek Ji í Mlejnek Ji í Mlejnek (Gar.)	Z,ZK	5	13KP+4KC	Z,L	PP
BIK-SP1	Team Software Project 1 Ji í Mlejnek	KZ	4	8KC	L	PZ
BIK-EMP	Economic and management principles David Buchtela	KZ	4	14KP+4KC	L	PE
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. 0	Min/Max 0/16			V

Number of se	mester: 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 Vašata	Z,ZK	5	13KP+4KC	Z	PP
BIK-KOM	Conceptual Modelling Michal Valenta, Marek Suchánek, Robert Pergl, Mohamed Bettaz Robert Pergl Robert Pergl (Gar.)	Z,ZK	5	14KP+4KC	Z	ΡZ
BIK-OOP	Object-Oriented Programming Filip K ikava Filip K ikava (Gar.)	Z,ZK	4	14KP+4KC	Z	PZ
BIK-SI2.3	Software Engineering 2 Ji í Mlejnek Ji í Mlejnek Ji í Mlejnek (Gar.)	Z,ZK	3	14KP	Z	PZ
BIK-SP2.1	Team Software Project 2 Ji í Mlejnek Ji í Mlejnek (Gar.)	KZ	4	12KC	Z	PZ
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. 0	Min/Max 0/16			V

Number of semes	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
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. 0	Min/Max 0/16	V

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

Kód		Name of the group or group (for specificati	f courses and on see here o	I codes of members of this or below the list of courses)	Com	pletion	Credi	ts Scope	Semester	Role
BI-7	ZKA	Zko	uška z angli	tiny 2009		cours. 1 cours. 1	Min/M 2/4			PJ
BI-ANG1	English La	nguage Examination wit	BIE-EEC	English language external certif		BI-ANG		English Langu	lage, Internal (Certi
					-	cours.				
							Min/M	ax		
BIK-PV-	EM.2015	Povinn volitelné	p edm ty eko komb forma	onomické bc. programu studia, verze 2015	Max	-				VE
		iniornatika,	Komb. Iorma	Studia, verze 2015	wax.	cours.	4/5			
BIK-MEK		nomic Context of Domesti	BIK-PRP	Law and Business		BIK-PRR		Designet reserves		
	Macroecon	Iomic Context of Domesti	BIK-PRP	Law and Business			.21	Project manag	gement	
					Min.	cours.				
BIK-PV-HU.2015		.	onitní n odm	ty hakalá akáha programy		1	Min/M	ax		
BIK-PV-	HU.2015	Povinn volitelne hum	ianiun p eum	ty bakala skeno programu						VH
BIK-PV-	HU.2015	Povinn volitelne hum Informatika,	kombinovana	ty bakalá ského programu á forma, ver. 2015	Max.	cours.	2/20			VH
BIK-PV-	HU.2015	Povinn volitelne hum Informatika,	kombinovana	á forma, ver. 2015	Max.	cours. 9	2/20)		VH
	HU.2015		kombinovana	History of Mathematics and Infor			2/20		hnology and E	
FI-FIL	Philosophy					9	2/20	History of Tec	hnology and E Social Anthropo	conom
BIK-PV- FI-FIL FI-HPZ BIK-KSA	Philosophy Humanities	,	BIK-HMI	History of Mathematics and Infor		9 FI-HTE	2/20	History of Tec	Social Anthropo	conom
FI-FIL FI-HPZ BIK-KSA	Philosophy Humanities	s subject from a study d Social Anthropology	BIK-HMI FI-MPL FI-ULI ty bakalá si	History of Mathematics and Infor Managerial Psychology	-	9 FI-HTE FI-KSA FI-GNO COURS.	Min/M	History of Tec Cultural and S Introduction to ax	Social Anthropo	conom
FI-FIL FI-HPZ BIK-KSA BIK-V	Philosophy Humanities Cultural an	s subject from a study d Social Anthropology ist volitelné p edn	BIK-HMI FI-MPL FI-ULI ty bakalá si 2017	History of Mathematics and Infor Managerial Psychology Introduction to Linguistics for kého programu BIK, verze	-	9 FI-HTE FI-KSA FI-GNO COURS. 0		History of Tec Cultural and S Introduction to ax	ocial Anthropo Gnoseology	conom ology V
FI-FIL FI-HPZ BIK-KSA BIK-V BIK-STO	Philosophy Humanities Cultural an /.2017 Storage an	s subject from a study d Social Anthropology ist volitelné p edn d Filesystems	BIK-HMI FI-MPL FI-ULI ty bakalá si 2017 BIK-EJA	History of Mathematics and Infor Managerial Psychology Introduction to Linguistics for kého programu BIK, verze Enterprise Java	-	9 FI-HTE FI-KSA FI-GNO COURS. 0 BIK-HMI	Min/M	History of Tec Cultural and S Introduction to ax History of Mat	Gocial Anthropo Gooseology	conom ology V
FI-FIL FI-HPZ BIK-KSA BIK-STO BIK-STO BIK-SQL.1	Philosophy Humanities Cultural an /.2017 Storage an Language	s subject from a study d Social Anthropology ist volitelné p edn d Filesystems SQL	BIK-HMI FI-MPL FI-ULI ty bakalá si 2017 BIK-EJA BIK-OOP	History of Mathematics and Infor Managerial Psychology Introduction to Linguistics for kého programu BIK, verze Enterprise Java Object-Oriented Programming	-	9 FI-HTE FI-KSA FI-GNO COURS. 0 BIK-HMI BIK-PJV	Min/M	History of Tec Cultural and S Introduction to ax History of Mat Programming	Gocial Anthropo Gooseology hematics and in Java	conom ology V
FI-FIL FI-HPZ BIK-KSA	Philosophy Humanities Cultural an /.2017 Storage an	s subject from a study d Social Anthropology ist volitelné p edn d Filesystems SQL nagement	BIK-HMI FI-MPL FI-ULI ty bakalá si 2017 BIK-EJA	History of Mathematics and Infor Managerial Psychology Introduction to Linguistics for kého programu BIK, verze Enterprise Java	-	9 FI-HTE FI-KSA FI-GNO COURS. 0 BIK-HMI	Min/M	History of Tec Cultural and S Introduction to ax History of Mat	o Gnoseology hematics and in Java ation	conom ology V

List of courses of this pass:

Code	Name of the course	Completion	Credits
BI-ANG	English Language, Internal Certificate	ZK	2
I.	Course information and teaching materials can be found at https://moodle-vyuka.cvut.cz/course/search.php?search=BI-AN	İG	1
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 course	can be recognized for any active semester after the submission of a certificate certificate that demonstrates their proficiency in Engli	ish comparable to c	or exceeding
	the B2 level of the Common European Framework of Reference for Languages.		
BIK-AAG	Automata and Grammars	Z,ZK	6
Students are introduc	ced to basic theoretical and implementation principles of the following topics: construction, use and mutual transformations of finite a	automata, regular e	expressions
and regular gramma	rs, translation finite automata, construction and use of pushdown automata, hierarchy of formal languages. Knowledge acquired th	rough the module i	s applicable
	to creation of algorithms for pattern matching, data compression, translation, simple parsing, and creation of digital circuits	6.	

BIK-AG1	Algorithms and Graphs 1	Z,ZK	6
	This course is presented in Czech.	7 71/	6
BIK-BEZ Students understan	Security In the mathematical fundamentals of cryptography and have an overview of current cryptographic algorithms and applications: symmetric a	Z,ZK Ind asymmetric crv	ptosvstems.
	s. 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
	e fundamental understanding of technologies underlying electronic digital systems. The understand the basic theoretical models and p	•	
transistors, gates, o	circuits, and conductors. They are able to design simple circuits and evaluate circuit parameters. They understand the differences betw of electronic devices.	een analog and d	igital modes
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	,	-
(including integrity	constraints) using a conceptual model and implement them in a relational database engine. They get a hands-on experience with the	SQL language, as	well as with
	lation ? the relational database model. They learn the principles of normalizing a relational database schema. They understand the funda	-	
1 8	Iling 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 datab		•
	optimizing database applications, distributed database systems, data stores.		ugging 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
	Java technologies (Jakarta EE, Microprofile, etc.) which are used for the development of EIS (Enterprise Information Systems). These sistent data, are accessible to clients via the REST API and are created in the microservice architecture and deployed into orchestrat		ally manage
BIK-EMP	Economic and management principles	KZ	4
	ned to fundamental problems of business economy. The course makes students familiar with a life cycle of business, specifically with		-
	into state economic environment (CR), management of property and capital structure, business transaction records keeping during ar		
	between business production and costs, evaluation of enterprise financial health and business rehabilitation or termination		
BIK-HMI	History of Mathematics and Informatics	ZK	3
	This course is presented in Czech.	7 71/	-
BIK-KOM	Conceptual Modelling	Z,ZK	5
BIK-KSA	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	-
	search from our culture as well as from the "exotic" ones (topics: kinship, religion, social exclusion, migration, globalization, , material cul		-
	death, etc). The course is an interesting alternative to other humanities, taught at FIT.		
BIK-LIN	Linear Algebra	Z,ZK	7
	ind the theoretical foundation of algebra and mathematical principles of linear models of systems around us, where the dependencies	e .	
-	the basic methods for operating with matrices and linear spaces. They are able to perform matrix operations and solve systems of line hese mathematical principles to solving problems in 2D or 3D analytic geometry. They understand the error-detecting and error-corre-		y can appiy
BIK-MEK	Macroeconomic Context of Domestic and World Economy	KZ	4
DIRYMEN	This course is presented in Czech.	I L	
BIK-MLO	Mathematical Logic	Z,ZK	5
	wledge of the syntax and semantics of the propositional and predicate logic. They master the Boolean algebra, both theoretically as an		-
and practically as	s a tool to describe the world of digital systems. They get skills to handle Boolean functions, normal forms, maps, and minimisation me modules.	ethods needed in t	he further
BIK-OOP	Object-Oriented Programming	Z,ZK	4
	ented in Czech. Object-oriented programming has been used in the last 50 years to solve computational problems by using graphs of ob		
	g. In this course we look at some of the main principles of object-oriented programming and design. The emphasis is on practical technic		
	including testing, error handing, refactoring and design patterns.		
BIK-OSY	Operating Systems	Z,ZK	5
	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	, ,	
BIK-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, struct		
statements, functi	ons, concept of recursion. They learn to analyse simple cases of algorithm complexity. They know fundamental algorithms for searchi with linked lists.	ng, sorting, and m	anipulating
BIK-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	-	-
(able). They can imp			emilouuceu
	plement linked structures. They learn these skills using the programming language C++. Although this is not a module of programming ir with all C++ features needed to achieve the main objective (operator overloading, templates).		
BIK-PAI	prement 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). Law and Informatics	ZK	3
BIK-PAI BIK-PJV	with all C++ features needed to achieve the main objective (operator overloading, templates).		3
BIK-PJV	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753)	ZK Z,ZK	4
	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753) Introduction to Mathematics	ZK Z,ZK	
BIK-PJV BIK-PKM	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753) Introduction to Mathematics This course is presented in Czech.	ZK Z,ZK Z	4
BIK-PJV BIK-PKM BIK-PPA	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753) Introduction to Mathematics This course is presented in Czech. Programming Paradigms	ZK Z,ZK Z Z,ZK	4 4 5
BIK-PJV BIK-PKM BIK-PPA The course deals	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753) Introduction to Mathematics This course is presented in Czech.	ZK Z,ZK Z Z,ZK ular approaches. I	4 4 5 Functional
BIK-PJV BIK-PKM BIK-PPA The course deals programming parace	with all C++ features needed to achieve the main objective (operator overloading, templates). Law and Informatics Programming in Java This course is presented in Czech. However, there is an English variant in the full-time program Informatics (B1801 / 4753) Introduction to Mathematics This course is presented in Czech. Programming Paradigms with basic paradigms of high-level programming languages, including their basic execution models, benefits, and limitations of partice	ZK Z,ZK Z Z,ZK ular approaches. I e principles are de	4 4 5 Functional emonstrated

BIK-PRP	Law and Business	Z,ZK	4
	d the basic issues when engaging in business activities in the CR and in the EU. Students learn to establish companies, gain necessa	· ·	
commercial or civil	contracts. Students also get acquainted with the principles of antitrust regulation and learn to resolve disputes in the area of busines	s, labour, or civil re	elationships
	in courts.		
BIK-PRR.21	Project management	Z,ZK	5
Project manageme	nt not only as a common dictionary and setting necessary processes while preparing and / or managing projects, but also as a social only in IT in various positions and different projects available at your hands.	art. 20 years of exp	berience not
BIK-PS1	Programming in Shell 1	KZ	5
	advanced and knowledgeable users of common UNIX-like operating systems. They understand the fundamental principles of the operating systems.		-
	ads, access rights, memory management, network interfaces). They gain the knowledge of advanced users, with hands-on experience		-
	and filters.		
BIK-PSI	Computer Networks	Z,ZK	5
	ad the basic common techniques, protocols, technologies, and algorithms necessary to communicate in computer networks. The topic		
2nd to 4th layer o	of the ISO OSI model. They also get a basic understanding of communication media, security, and network administration. Students v	vill be able to write	a simple
BIK-PST	network application and configure a simple network.	Z,ZK	5
	Probability and Statistics uced to elements of probability thinking, ability of the synthesis both prior and posterior information and use to work with random varia		-
	odels of the distribution of random variables and to solve applied probability problems in the area of informatics and computer scienc	-	
-	ter methods of statistical inference to estimate unknown population parameters on the basis of sample. They get acquainted with basic	-	
	of possible statistical dependence of two or more random variables.		
BIK-SAP	Computer Structure and Architecture	Z,ZK	6
	nd basic digital computer units and their structures, functions, and hardware implementation: ALU, control unit, memory system, inpu	· · ·	•
	s, students gain practical experience with the design and implementation of the logic of a simple processor using modern digital design and intervention of the logic of a simple processor using modern digital design and the second statement of the se		
basic knowledge	of digital computer construction principles, how a computer performs its operations, what is machine code, and what are its connect languages.	ions to higher prog	gramming
BIK-SI1.2	Software Engineering I	Z.ZK	5
-	he methods of analysis and design of large software systems, which are typically designed and implemented in teams. They get prac	, ,	-
	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		
and	solving software-related problems. They get overview of object-oriented analysis, design, architecture, validation, verification, and tes	ting processes.	
BIK-SI2.3	Software Engineering 2	Z,ZK	3
	This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).		
BIK-SP1	Team Software Project 1	KZ	4
-	ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided by the		
-	hat teaches the necessary techniques and theory. Teams consisting of 4-6 students will work on a specific project. The teacher, in the		
leader, regularly co	onsults with the team (at the seminars) with respect to both the formal and material aspects of the design. The resulting work will be find in the BEI-SP2 course.	urther developed a	ina finisnea
BIK-SP2.1	Team Software Project 2	KZ	4
BIK-SQL.1	Language SQL	KZ	4
	knowledge obtained in BI-DBS. Students become familiar with advanced relational and non-relational features of SQL language. In pa		•
	jueries, OLAP support, object-relational constructions. Part of the course is dedicated to practical database optimization from the point of		-
structures like inde	exes, clusters, index-organized tables, and materialized views. as well as from the point of view query optimization. Execution plan an	nd possibilities of it	s. changes
will be discusse	d. Lectures will usually discuss SQL standard, but many features will be demonstrated on Oracle DBMS. Seminars are based on Ora	Icle DBMS and par	rtially on
	PostgreSQL.		
BIK-STO	Storage and Filesystems	Z,ZK	4
The student will lea	rn principles and current solutions of storage systems architecture. The module explains principles of data store, protection, and archi	ving, as so as stora	age scaling,
	load balancing and high availability.	774	4
BIK-TJV	Java Technology s to introduce the programming language Java. The student gains practical experiences for smaller enterprise application programmir	Z,ZK	4
	and more layers enterprise systems. The student practically exercises all communication interfaces for each layers (JDBC, RestWeb		
	course end is student able to create three layers enterprise application.		
BIK-ZDM	Elements of Discrete Mathematics	Z,ZK	5
	a mathematical sound background, but also practical calculation skills in the area of combinatorics, value estimation and formula ap		
	recurrent equations, and basics of graph theory.		
BIK-ZMA	Elements of Calculus	Z,ZK	6
	knowledge and understanding of the fundamentals of classical calculus so that they are able to apply mathematical way of thinking a	-	
use basic proof te	chniques. They get skills to practically handle functions of one variable in solving the problems in informatics. They understand the lin sums of sequences. They are able to estimate lower or upper bounds of values of real functions and to handle simple asymptotic ex		egrals and
BIK-ZWU	Introduction to Web and User Interfaces		4
DIK-200	This course is presented in Czech.	Z,ZK	4
FI-FIL	Philosophy	ZK	2
	see A0B16	21	2
FI-GNO	Introduction to Gnoseology	ZK	2
	uvádí do teorie poznání, systémovým pohledem nahlíží na pole kultury, na vztahy a rozdíly mezi p írodními a humánními obory, v do	1	
modernismu a myš	lenkových proud 20. století jsou ukázány prom ny paradigmat a p evrat k postmodernismu, analýzou paralelism ve v d a um ní c	dhaleny mechanis	my tv rích
	sti na teorii p írodních jazyk a sémiotiky je vedena diskuze i o kognitivních procesech, v historickém p ehledu nastín na hlediska este		
kapitolou jsou mod	ely spojitých p írodních soustav a systém, v záv ru p ednášek je pozornost v nována filozofii v dy a otázkám udržitelného rozvoje.	P edm t p ednáší	a garantuje
	Ing. Ivo Janoušek CSc.		2
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 that	Z is required in the	3 curriculum
A Humaniues Sub	The substitution is approved by the Vice-Dean for study affairs on behalf of the Dean at the request of the student.		cumculum.

FI-HTE	History of Technology and Economics	ZK	2
The course introduces the scientific disciplines of history and technology, economic and social history of the Czech lands and Czechoslovakia in comparison with the development of			
the European region 19 to 21 century .			
FI-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 of the world - examples from			
anthropological research from our "exotic" cultures (topics: kinship, religion, social exclusion, migration, globalization, , material culture, language, health, history, death, etc) will be			
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	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 <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-17, time 10:16.