## Recomended pass through the study plan

## Name of the pass: Bachelor specialization Software Engineering, part-time, in Czech, 2021

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor Specialization Software Engineering, part-time, in Czech, 2021 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Informatika

Type of study: Bachelor combined

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

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L): KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter seme

Numbe	r of sem	nester: 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-DML.21	Discrete Mathematics and Logic Eva Pernecká Eva Pernecká Eva Pernecká (Gar.)	Z,ZK	5	14KP+4KC	Z	PP
BIK-LA1.21	Linear Algebra 1 Karel Klouda Karel Klouda (Gar.)	Z,ZK	5	14KP+4KC	Z	PP
BIK-PA1.21	Programming and Algorithmics 1 Radek Hušek, Josef Vogel, Ladislav Vagner, Jan Trávní ek Jan Trávní ek Jan Trávní ek (Gar.)	Z,ZK	7	14KP+8KC	Z	PP
BIK-TZP.21	<b>Technological Fundamentals of Computers</b> Martin Da hel, Kate ina Hyniová <b>Martin Da hel</b> Martin Da hel (Gar.)	Z,ZK	5	14KP+4KC	Z	PP
BIK-GIT.21	SW Development Technologies Petr Pulc Petr Pulc Petr Pulc (Gar.)	Z	3	14KP	Z	PP
BIK-UOS.21	Unix-like Operating Systems Petr Zemánek, Jakub Žitný <b>Petr Zemánek</b> Petr Zemánek (Gar.)	KZ	5	14KP+4KC	Z	PP

Number of se	mester: 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.21	Database Systems Michal Valenta, Monika Borkovcová, Andrii Plyskach Monika Borkovcová Monika Borkovcová (Gar.)	Z,ZK	5	14KP+6KC	L	PP
BIK-MA1.21	Mathematical Analysis 1 Petr Olšák Ivo Petr Ivo Petr (Gar.)	Z,ZK	5	14KP+4KC	L	PP
BIK-PSI.21	Computer Networks Vladimír Smotlacha, Yelena Trofimova, Josef Zápotocký Vladimír Smotlacha Vladimír Smotlacha (Gar.)	Z,ZK	5	14KP+4KC	L	PP
BIK-PA2.21	Programming and Algorithmics 2 Radek Hušek, Ond ej Štorc, Josef Vogel, Barbora Kolomazníková, Ladislav Vagner, Jan Trávní ek Jan Trávní ek Jan Trávní ek (Gar.)	Z,ZK	7	14KP+6KC	L	PP
BIK-SAP.21	Computer Structure and Architecture Martin Da hel Martin Da hel Martin Da hel (Gar.)	Z,ZK	5	14KP+6KC	L	PP
		Min. cours.				
BUK MOOOA	ist volitelné p edm ty bakalá ského programu,	0	Min/Max			
BIK-V.2021	kombinovaná forma výuky, verze 2021 až 2024 BIK-ADW.1,BIK-STO, (see the list of groups below)	Max. cours.	0/31			V
		8				

Number of se	mester: 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-AG1.21	Algorithms and Graphs 1 Radek Hušek, Dušan Knop Dušan Knop (Gar.)	Z,ZK	5	14KP+4KC	z	PP
BIK-AAG.21	Automata and Grammars Št pán Plachý, Jan Holub Jan Holub Jan Holub (Gar.)	Z,ZK	5	14KP+4KC	z	PP
BIK-MA2.21	Mathematical Analysis 2 Petr Olšák Tomáš Kalvoda Tomáš Kalvoda (Gar.)	Z,ZK	6	21KP+4KC	z	PP
BIK-PPA.21	<b>Programming Paradigms</b> Tomáš Pecka, Jan Janoušek, Filip Gregor <b>Jan Janoušek</b> Jan Janoušek (Gar.)	Z,ZK	5	14KP+4KC	z	PS
BIK-TJV.21	Java Technology Jií Dan ek Jií Dan ek Ond ej Guth (Gar.)	Z,ZK	5	14KP+4KC	Z	PS
BIK-IDO.21	Introduction to DevOps Tomáš Vondra, Ji í Mlejnek Tomáš Vondra Ji í Mlejnek (Gar.)	Z,ZK	5	14KP+4KC	Z	PS

Number of ser	mester: 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-KAB.21	Cryptography and Security Ji í Bu ek, Ji í Dostál, Róbert Lórencz, Jaroslav K íž, František Ková, David Pokorný, Filip Kodýtek Róbert Lórencz Róbert Lórencz (Gar.)	Z,ZK	5	14KP+4KC	L	PP
BIK-OSY.21	<b>Operating Systems</b> Michal Šoch, Pavel Tvrdík, Jan Trdli ka <b>Michal Šoch</b> Michal Šoch (Gar.)	Z,ZK	5	14KP+4KC	L	PP
BIK-SWI.21	Software Engineering Ji í Mlejnek, Zden k Rybola Zden k Rybola Ji í Mlejnek (Gar.)	Z,ZK	5	14KP+2KC	L	PS
BIK-SP1.21	Team Software Project 1 Ji í Mlejnek <b>Ji í Mlejnek</b> Ji í Mlejnek (Gar.)	KZ	5	8KC		PS
BIK-SI-PV.21	Povinn volitelné p edm ty specializace Softwarové inženýrství, kombinovaná forma, verze 2021 BIK-EPP:21,BIK-FBI.21, (see the list of groups below)	Min. cours. 1 Max. cours. 3	Min/Max 5/15			PV
BIK-V.2021	ist volitelné p edm ty bakalá ského programu, kombinovaná forma výuky, verze 2021 až 2024 BIK-ADW.1,BIK-STO, (see the list of groups below)	Min. cours. 0 Max. cours. 8	Min/Max 0/31			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.21	Bachelor project Zden k Muziká Zden k Muziká Zden k Muziká (Gar.)	Z	1		Z,L	PP
BIK-PST.21	Probability and Statistics Daniel Vašata Pavel Hrabák Pavel Hrabák (Gar.)	Z,ZK	5	14KP+4KC	Z	PP
BIK-KOM.21	Conceptual Modelling Robert Pergl, Mohamed Bettaz Robert Pergl Robert Pergl (Gar.)	Z,ZK	5	14KP+4KC	Z	PS
BIK-OOP.21	Object-Oriented Programming Filip K ikava, Filip íha <b>Filip K ikava</b> Filip K ikava (Gar.)	Z,ZK	5	14KP+4KC	Z	PS
BIK-SP2.21	<b>Team Software Project 2</b> Ji í Mlejnek <b>Ji í Mlejnek</b> Ji í Mlejnek (Gar.)	KZ	5	4KC		PS
		Min. cours.				
DIKALOOOA	ist volitelné p edm ty bakalá ského programu,	0	Min/Max			
BIK-V.2021	kombinovaná forma výuky, verze 2021 až 2024 BIK-ADW.1,BIK-STO, (see the list of groups below)	Max. cours.	0/31			V
		8				

Number of semester: 6

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
BI-BAP.21	Bachelor Thesis Zden k Muziká Zden k Muziká (Gar.)	Z	14		L,Z	PP
BIK-TDP.21	Documentation and Presentation Tomáš Nová ek, Dana Vynikarová Tomáš Nová ek Dana Vynikarová (Gar.)	KZ	3	14KP+4KC	Z,L	PP
BI-ZKA.21	<b>Zkouška z angli tiny 2021</b> BI-ANG1,BIE-EEC, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 2/4			PJ
BIK-V.2021	ist volitelné p edm ty bakalá ského programu, kombinovaná forma výuky, verze 2021 až 2024 BIK-ADW.1,BIK-STO, (see the list of groups below)	Min. cours. 0 Max. cours. 8	Min/Max 0/31			V

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

Kód		Name of the group o group (for specificati	f courses an on see here	d codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
BI-ZK	A.21		uška z angli		Min.	cours. 1 cours. 1	<b>Min/M</b> a 2/4	ax		PJ
BI-ANG1	English La	nguage Examination wit	BIE-EEC	English language external certif		<b>BI-ANG</b>	· · · · · · · · · · · · · · · · · · ·	English Langu	age, Internal (	Certi
	1		4	1	Min.	cours.				
BIK-SI-	D\/ 21	Povinn volitelné	épedmtys	pecializace Softwarové		1	Min/Ma	ax		PV
DIA-OF	Γ Ψ.ΖΙ	inženýrství, l	kombinováná	a forma, verze 2021	Max.	cours.	5/15			FV
						3				
BIK-EPP.21	Economic	Business Processes	BIK-FBI.21	Financial Business Intelligence		BIK-PAL	21	Law and Infor	matics	
	1				Min.	cours.				
			_			0	Min/M	a v		
BIK-V	2021	ist volitelné p	p edm ty bal	kalá ského programu, ⁄, verze 2021 až 2024		-	-			v
		Kompinovana	iorina vyuky	, verze 2021 az 2024	Max.	cours.	0/31			
						8				
BIK-ADW.1	Windows A	Administration	BIK-STO	Storage and Filesystems	1	<b>BIE-DIF</b>	·	Differential eq	uations	
3IK-EJA	Enterprise	Java	BIK-HMI	History of Mathematics and Infor	•	BIK-SQL	.1	Language SQ	L	
3IK-OOP.21	Object-Ori	ented Programming	BIK-PJV	Programming in Java		BIK-PRR	.21	Project manag	gement	
3IK-PKM	Introductio	n to Mathematics	BIK-TAB.21	Applications of Security in Tech		TVV		Physical educ	ation	
ΓV1	Physical E	ducation	TVV0	Physical education		TV2K1		Physical Educ	ation 2	
			TVV0         Physical education           sign         BIK-KSA         Cultural and Social Anthropology			BIK-ZWL			Web and Use	

## 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	G	
BI-ANG1	English Language Examination without Preparatory Courses	Z,ZK	2
BI-BAP.21	Bachelor Thesis	Z	14
BIE-DIF	Differential equations	Z,ZK	5
of variables. Key t polynomial analy	is a foundational overview of differential equations, starting with basic motivation and examples of ODEs and progressing to essential s heorems on existence and uniqueness establish when solutions can be guaranteed. Linear and system-based ODEs are covered wi sis, followed by examples of non-linear models such as predator-prey and epidemiological models to showcase real-world applicatio equations (PDEs) extends these concepts to multi-variable contexts. The course will also cover numerical methods for solving ODEs and explicit Euler methods, Runge-Kutta methods, and finite element methods for both ODEs and PDEs.	th methods like chans. Finally, an intro	aracteristic duction to

	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 the B2 level of the Common European Framework of Reference for Languages.	ish comparable to c	or exceeding
BIK-AAG.21	Automata and Grammars	Z,ZK	5
	luced to basic theoretical and implementation principles of the following topics: construction, use and mutual transformations of finite a		
	nars, translation finite automata, construction and use of pushdown automata, hierarchy of formal languages. Knowledge acquired thr	-	
	to creation of algorithms for pattern matching, data compression, translation, simple parsing, and creation of digital circuits	5.	
BIK-ADW.1	Windows Administration	Z,ZK	4
	This course is presented in Czech.		
BIK-AG1.21	Algorithms and Graphs 1	Z,ZK	5
	resented in Czech. The course covers the basics from the efficient algorithm design, data structures, and graph theory, belonging to t um. Students learn techniques of proofs of correctness of algorithms and techniques of asymptotic mathematics for estimation of their	-	
	e course includes basics from probability theory needed for understanding randomized algorithms). Within exercises students learn ap		
	for solving practical problems.		
BIK-BPR.21	Bachelor project	Z	1
1. At the beginnin	g of the semester, the student reserves the topic of the bachelor's thesis and connects with the supervisor. He / she will arrange the	partial tasks that h	e / she will
	semester to process the assignment. If he completes these tasks, the supervisor will award him a credit from the subject BI-BPR at t		
	enters the information on granting the credit using the form "Granting credit from the external supervisor of the final thesis" (http://fit.cvu	-	
	I signed form must be delivered in person or by email to the SZZ coordinator, who will arrange for the credit to be granted. 3. If the top mulated more generally, the tasks assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assigned to him by the supervisor for the semester should be aimed primarily at fine-tuning the assigned to him by the supervisor for the semester should be at the seme		
	can be supplemented and approved at the end of the semester.	griment so that the	assignment
BIK-DBS.21	Database Systems	Z.ZK	5
	ainted with the architecture of the database engine and typical user roles. They learn to design the structure of a smaller data store (	1 '	-
	model and then implement them in a relational database engine. They get acquainted with the SQL language and also with its theoret		
model. They will ge	et acquainted with the principles of relational database schema normalization. They understand the basic concepts of transaction pro	cessing and contro	ol of parallel
	user access to a single data source. At the end of the course, students will be introduced to alternative nonrelational database n		
BIK-DML.21	Discrete Mathematics and Logic	Z,ZK	5
-	cquainted with the basic concepts of propositional logic and predicate logic and learn to work with their laws. Necessary concepts fro	-	
Special attention is	paid to relations, their general properties, and their types, especially functional relations, equivalences, and partial orders. The cours combinatorics and number theory, with emphasis on modular arithmetics.	se also lays down t	ne basics of
BIK-EJA	Enterprise Java	KZ	4
	Java technologies (Jakarta EE, Microprofile, etc.) which are used for the development of EIS (Enterprise Information Systems). These	1	
	sistent data, are accessible to clients via the REST API and are created in the microservice architecture and deployed into orchestra		,
BIK-EPP.21	Economic Business Processes	Z,ZK	5
The aim of the cou	irse is to present typical processes related to the usual life cycle of a company. The course focuses mainly on the basic economic and	d financial aspects	of business
	ronment of the Czech Republic and the basics of management. In the course, students are acquainted with the typical phases of the		
establishment of th	ne company, through the management of property and capital structure, financing of the company, determining the cost function of the	e company and lab	or costs to l
	evel a stime the financial beside of the second and the superior back of the first on the second second second		01 00313, 10
	evaluating the financial health of the company and its eventual rehabilitation or termination.		
BIK-FBI.21	Financial Business Intelligence	Z,ZK	5
The aim of the cou	Financial Business Intelligence rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business	Z,ZK analysis, determin	5 ing its value
The aim of the cou and other indicator	Financial Business Intelligence	Z,ZK analysis, determin nagement accounti	5 ing its value ng as a tool
The aim of the cou and other indicator for financial manag	Financial Business Intelligence rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business rs for comparison with other companies and management decision process at the tactical and strategic level. The second view is mar	Z,ZK analysis, determin nagement accounti business activities	5 ing its value ng as a tool over several
The aim of the cou and other indicator for financial manag accounting perio	Financial Business Intelligence rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business rs for comparison with other companies and management decision process at the tactical and strategic level. The second view is mar rement and prediction of business development. Management accounting allows monitoring of the financial status and performance of ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Inte	Z,ZK analysis, determin nagement accounti business activities d to use value infor	5 ing its value ng as a tool over several rmation to
The aim of the cou and other indicator for financial manag accounting perio assess options re	Financial Business Intelligence rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business rs for comparison with other companies and management decision process at the tactical and strategic level. The second view is mar ement and prediction of business development. Management accounting allows monitoring of the financial status and performance of ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Inte information systems, decision support systems, and other knowledge-oriented systems.	Z,ZK analysis, determin hagement accounti business activities d to use value infoi elligence modules i	5 ing its value ng as a tool over several rmation to n business
The aim of the cou and other indicator for financial manag accounting perio assess options re BIK-GIT.21	Financial Business Intelligence rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business rs for comparison with other companies and management decision process at the tactical and strategic level. The second view is mar lement and prediction of business development. Management accounting allows monitoring of the financial status and performance of I ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Inte information systems, decision support systems, and other knowledge-oriented systems. SW Development Technologies	Z,ZK analysis, determin hagement accounti business activities d to use value infoi elligence modules i Z	5 ing its value ng as a tool over several rmation to n business 3
The aim of the cou and other indicator for financial manag accounting perio assess options re BIK-GIT.21	Financial Business Intelligence           rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business is for comparison with other companies and management decision process at the tactical and strategic level. The second view is mare ement and prediction of business development. Management accounting allows monitoring of the financial status and performance of l ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermination systems, decision support systems, and other knowledge-oriented systems.           SW Development Technologies           ed at one of the rudimental team software development technology - version control. To be more specific, we will introduce students to the students of the rudimental team software development technology - version control. To be more specific, we will introduce students to the students to the students of the rudimental team software development technology - version control. To be more specific, we will introduce students to the students to the students of the rudimental team software development technology - version control.	Z,ZK analysis, determin hagement accounti business activities d to use value infor elligence modules i Z o Git, the informatio	5 ing its value ng as a tool over several rmation to n business 3
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The aim of the cou and other indicator for financial manag accounting perio assess options re BIK-GIT.21 This course is aim BIK-HMI	Financial Business Intelligence         rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business is for comparison with other companies and management decision process at the tactical and strategic level. The second view is mare the ement and prediction of business development. Management accounting allows monitoring of the financial status and performance of I ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermined to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermined to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermined to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermined to future business decisions support systems, and other knowledge-oriented systems.         SW Development Technologies         ed at one of the rudimental team software development technology - version control. To be more specific, we will introduce students to from hell, as Linus Torvalds nicknamed it, and provide a comprehensive guide into its depths, as well as for day-to-day use This course is presented in Czech.	Z,ZK analysis, determin hagement accounti business activities d to use value infor elligence modules i Z o Git, the information Z ZK	5 ing its value ng as a tool over several rmation to n business 3 on manager 3
The aim of the cou and other indicator for financial manag accounting perio assess options re BIK-GIT.21 This course is aim BIK-HMI BIK-IDO.21	Financial Business Intelligence           rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business is for comparison with other companies and management decision process at the tactical and strategic level. The second view is mare ement and prediction of business development. Management accounting allows monitoring of the financial status and performance of I ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermination systems, decision support systems, and other knowledge-oriented systems.           SW Development Technologies           ed at one of the rudimental team software development technology - version control. To be more specific, we will introduce students to from hell, as Linus Torvalds nicknamed it, and provide a comprehensive guide into its depths, as well as for day-to-day use History of Mathematics and Informatics	Z,ZK analysis, determin hagement accounti business activities d to use value infor solligence modules i Z o Git, the informative Z ZK Z,ZK	5 ing its value ng as a tool over several rmation to n business 3 on manager 3 5
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The aim of the cou and other indicator for financial manag accounting perio assess options re BIK-GIT.21 This course is aim BIK-HMI BIK-IDO.21 The course deals w covers the tools to	Financial Business Intelligence         rse is to acquaint students primarily with financial accounting as a tool for recording business operations and documents for business is for comparison with other companies and management decision process at the tactical and strategic level. The second view is mare terment and prediction of business development. Management accounting allows monitoring of the financial status and performance of I ds, enables a multidimensional view of business data, enables to control effectively factors affecting the return on invested capital an lated to future business decisions. The principles of management accounting, described in this course, are the basis of Business Intermation systems, decision support systems, and other knowledge-oriented systems.         SW Development Technologies         ed at one of the rudimental team software development technology - version control. To be more specific, we will introduce students to from hell, as Linus Torvalds nicknamed it, and provide a comprehensive guide into its depths, as well as for day-to-day use this course is presented in Czech.         Introduction to DevOps         with the topic of DevOps and prepares future developers and administrators for a modern culture of development and operation of sys o support software development, testing and compilation. It also focuses on tools for automating infrastructure management and biolid introduction to technologies that will then be discussed in more detail in related follow-up courses. The student will also get acquaint	Z,ZK         analysis, determin         nagement accounti         business activities         d to use value infor         elligence modules i         Z         o Git, the informative         ZK         Z,ZK         tems and services         ling and deploying	5 ing its value ng as a tool over several rmation to n business 3 on manager 3 5 The course software to
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the connection with linear manifolds. We define the regularity of matrices and learn to find their inversions using GEM. We will also learn to find eigenvalues and eigenvectors of a matrix. We will also demonstrate some applications of these concepts in computer science.

	matrix. We will also demonstrate some applications of these concepts in computer science.		
BIK-MA1.21	Mathematical Analysis 1	Z,ZK	5
We begin the cours	e by introducing students to the set of real numbers and its properties, and we note its differences with the set of machine numbers.	Then we study real	sequences
	f a real variable. We gradually introduce the notions of limits of sequences and functions, continuous functions, and derivatives of function		
	ot-finding problems (iterative method of bisection and Newtons method), construction of cubic interpolation (spline), and formulation and	-	-
	ssue of finding extrema of functions). The course is closed with the Landaus asymptotic notation and methods of mathematical description	. ,	•
BIK-MA2.21	Mathematical Analysis 2	Z,ZK	6
	etes the theme of analysis of real functions of a real variable initiated in BIK-MA1 by introducing the Riemann integral. Students will le	-	
	ution method. The next part of the course is devoted to number series, and Taylor polynomials and series. We apply Taylors theorem to		-
•	scribed accuracy. Then we study the linear recurrence equations with constant coefficients, the complexity of recursive algorithms, an		
	we introduce the student to the theory of multivariate functions. After establishing basic concepts of partial derivative, gradient, and H		
	f localization of local extrema of multivariate functions as well as the numerical descent method. We conclude the course with the integ e can be enrolled only after successful completion of the course BIK-MA1, which can be replaced by the course BIK-ZMA in the case		
BIK-OOP.21	Object-Oriented Programming	Z,ZK	5
	rogramming has been used in the last 50 years to solve computational problems by using graphs of objects that collaborate together t acquainted with the main principles of object-oriented programming and design, used in modern programming languages. The emph		-
course students ge	for developing software, which includes testing, error handing, refactoring, and application of design pattern.	asis is on practical	leciniques
BIK-OSY.21		Z,ZK	5
	Operating Systems a follow-up of the Unix-like operating systems course students deepen their knowledge in areas of OS kernels, process and thread imp		
	ead scheduling, shared resource allocation and deadlocks, management of virtual memory and data storages, file systems, OS moni		
chica regions, the	and implement simple multithreaded applications. General principles are illustrated on operating systems Solaris, Linux, or MS W	• •	le to design
BIK-PA1.21	Programming and Algorithmics 1	Z,ZK	7
	ability to formulate algorithms for solving basic problems and write them in the C language. They understand data types (simple, struc	, ,	-
-	ons, concept of recursion. They learn to analyse simple cases of algorithm complexity. They know fundamental algorithms for searchi		-
Statements, randa	with linked lists.	ng, sorting, and me	inputating
BIK-PA2.21	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, que	· ·	-
	n these skills using the C++ programming language and are introduced to all C++ features needed in object-oriented programming (e		
table). They loar	copying/moving of objects, operator overloading, inheritance, polymorphism).	.g., tompiato progi	anning,
BIK-PAI.21	Law and Informatics	ZK	5
	urse is to introduce students into the basic legal instruments that they will encounter in their practice. Students will gain knowledge of		-
	Il be alerted to the pitfalls that await them in business from the point of view of law. They will understand the process of concluding co	-	
-	now their responsibilities in working with the Internet, will be familiar with the institutes of intellectual property law, and will be able to		
	censes. Emphasis will also be put on the legal protection of data on the Internet, the registration of Internet domains and protection a		
will also be ale	ted to such behaviour in the field of IT that can be classified as criminal under the Czech law. The course will also include analyses c	f real cases from p	ractice.
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	Z	4
	This course is presented in Czech.	·	
BIK-PPA.21	Programming Paradigms	Z,ZK	5
The course deals	with basic paradigms of high-level programming languages, including their basic execution models, benefits, and limitations of partic	ular approaches. F	unctional
programming para	digm and its basic principles are explained in details. Logic programming is introduced as another way of declarative programming. Th	e principles are de	monstrated
on lambda calculu	s and on Lisp (Racket) and Prolog programming languages. Moreover, usage of these principles is demonstrated on modern mainstr	eam programming	languages
	such as C++ and Java.		
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	art. 20 years of exp	erience not
	only in IT in various positions and different projects available at your hands.		
BIK-PSI.21	Computer Networks	Z,ZK	5
The course introdu	es students to the principles of computer networking. It covers basic technologies, protocols, and services commonly used in local r	etworks and in the	Internet as
	is will be amended by proseminars that introduce students into network programming and demonstrate the abilities of advanced netw	•	Students
	actically verify configurations and management of network devices in the lab within the environment of the operating systems Linux a		
BIK-PST.21	Drob ability and Otatiatian	7 74	5
Students will learn	Probability and Statistics	Z,ZK	apply basic
	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T	hey will be able to	
	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction	hey will be able to hey will be able to	perform
	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical	hey will be able to hey will be able to	perform
estimations of unk	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables.	hey will be able to hey will be able to hypotheses and d	perform etermining
estimations of unk BIK-SAP.21	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture	hey will be able to hey will be able to hypotheses and d Z,ZK	perform etermining 5
estimations of unk BIK-SAP.21 Students will get	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T om variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith	hey will be able to hey will be able to hypotheses and d Z,ZK metic-logic unit , co	perform etermining 5 ontrollers,
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BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. The wariable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction is nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple proces in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1	hey will be able to hey will be able to hypotheses and d Z,ZK metic-logic unit , c ssor is practically in KZ	5 ontrollers, nplemented
BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. The wariable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction is nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of a rith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple proces in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the	hey will be able to hey will be able to hypotheses and d Z,ZK metic-logic unit , cr ssor is practically in KZ BIE-SWI course t	perform etermining 5 ontrollers, nplemented 5 hat runs
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BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h concurrently and th project leader, regu	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. To matriable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction in nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple process in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the fact teaches students necessary techniques and principles. Teams consisting of 4-6 students will work on a specific project. The teach ularly consults with the team (at the seminars) both the formal and material aspects of the software design. The resulting software art and finished in the BIE-SP2 course.	hey will be able to hey will be able to hypotheses and d Z,ZK metic-logic unit , c ssor is practically in KZ BIE-SWI course t er, in the role of th efact will be further	5 ontrollers, nplemented 5 hat runs e team and developed
BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h concurrently and th	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. To matriable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction in nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple process in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the fact teaches students necessary techniques and principles. Teams consisting of 4-6 students will work on a specific project. The teach ularly consults with the team (at the seminars) both the formal and material aspects of the software design. The resulting software art and finished in the BIE-SP2 course. Team Software Project 2	hey will be able to hey will be able to hypotheses and d Z,ZK metic-logic unit , cr ssor is practically in KZ BIE-SWI course t er, in the role of the	5 ontrollers, nplemented 5 hat runs e team and
BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h concurrently and tl project leader, regu BIK-SP2.21	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. To m variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction in nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arithuunication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple process in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the fract teaches students necessary techniques and principles. Teams consisting of 4-6 students will work on a specific project. The teach ularly consults with the team (at the seminars) both the formal and material aspects of the software design. The resulting software art and finished in the BIE-SP2 course. Team Software Project 2 This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753).	hey will be able to they will be able to hypotheses and d Z,ZK metic-logic unit , ca sor is practically in KZ e BIE-SWI course t er, in the role of the efact will be further KZ	perform etermining 5 ontrollers, nplemented 5 hat runs e team and developed 5
estimations of unk BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h concurrently and th project leader, regu BIK-SP2.21 BIK-SQL.1	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T orm variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple proces in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the nat teaches students necessary techniques and principles. Teams consisting of 4-6 students will work on a specific project. The teach ularly consults with the team (at the seminars) both the formal and material aspects of the software design. The resulting software art and finished in the BIE-SP2 course. Team Software Project 2 This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753). Language SQL	hey will be able to they will be able to hypotheses and d Z,ZK metic-logic unit , co sor is practically in KZ e BIE-SWI course to er, in the role of the efact will be further KZ	perform etermining 5 ontrollers, nplemented 5 hat runs e team and developed 5 4
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estimations of unk BIK-SAP.21 Students will get memory, I/O comm BIK-SP1.21 Students gain h concurrently and th project leader, regu BIK-SP2.21 BIK-SQL.1 Course is based or triggers, recursive of	the basics of probabilistic thinking, the ability to synthesize prior and posterior information and learn to work with random variables. T orm variable distributions and solve applied probabilistic problems in informatics and computer science. Using the statistical induction nown distributional parameters from random sample characteristics. They will also be introduced to the methods for testing statistical the statistical dependence of two or more random variables. Computer Structure and Architecture acquainted with the basic architecture and units of a digital computer, understand the structure, function, and implementation of arith unication, methods of data transfers between the units. The logic design and the implementation of a program-controlled simple proces in the labs using programmable circuits (FPGA), a single-chip microcomputer, and modern design (EDA) tools. Team Software Project 1 ands-on experience with the analysis, design, and prototyping of a large-scale software system. Theoretical support is provided in the nat teaches students necessary techniques and principles. Teams consisting of 4-6 students will work on a specific project. The teach ularly consults with the team (at the seminars) both the formal and material aspects of the software design. The resulting software art and finished in the BIE-SP2 course. Team Software Project 2 This course is presented in Czech. However, there is an English variant in the program Informatics (B1801 / 4753). Language SQL	hey will be able to they will be able to hypotheses and d Z,ZK metic-logic unit , co sor is practically in KZ BIE-SWI course to er, in the role of the efact will be further KZ KZ rticular stored progon	perform etermining 5 ontrollers, nplemented 5 hat runs e team and c developed 5 4 gram unites, id database

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.	icle DBMS and par	rtially on
BIK-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,
BIK-SWI.21	Software Engineering	Z,ZK	5
Students get acqua	inted with methods of analysis and design of larger software projects that are typically designed and implemented in teams. They co	nsolidate and prac	tically verify
their knowledge du	ing the analysis and design of larger software systems that will be developed in the concurrent course BIE-SP1. Students get hands-c	on experience with	CASE tools
using the visual lar	nguage UML for modeling and solving software problems. Students learn the basics of object-oriented analysis, architecture design a	nd testing. Within	the course,
stu	dents also gain a theoretical basis in the field of project management, estimation of costs of software projects, and methods of their	development.	
BIK-TAB.21	Applications of Security in Technology	Z,ZK	5
The goal of the co	urse is to introduce students to selected topics from cybersecurity technical applications that are utilized in different industries. Stude	nts get a broader o	overview of
	cybersecurity applications and extend their knowledge from the cryptology, the secure code, and system, network, and hardware	security.	
BIK-TDP.21	Documentation and Presentation	KZ	3
The course is focus	ed on the basics of creating electronic documentation with emphasis on the creation of technical reports of a larger scope, typically fi	nal university these	es. Students
learn to create text	of a technical report in the LaTeX system, process an electronic presentation using the LaTeX Beamer system, and practically prese	nt it in front of clas	smates and
the teacher. The	course is intended primarily for those students who have chosen the topic of their bachelor's thesis or will choose it within the first 14	days of teaching.	Within the
	exercises of the course, an active approach to the creation of individual parts of the bachelor's thesis is assumed.		
BIK-TJV.21	Java Technology	Z,ZK	5
The aim of the cou	rse is to provide knowledge and skills needed for the development of smaller and larger information systems. Students will get acqua	ainted with general	theoretical
concepts and will t	be able to apply these concepts using libraries and tools from the ecosystem of the Java programming language. After completing the	e course students	will be able
	to participate in the development of software systems on the Java platform.		
BIK-TUR.21	User Interface Design	Z,ZK	5
Students gain a ba	asic overview of methods for designing and testing common user interfaces. They get experience to solve the problems where softwa	ire and other produ	ucts do not
communicate with	the user optimally, since the needs and characteristics of users are not taken into account during product development. Students gain	n an overview of m	ethods that
	bring users into the development process to ensure optimal interface for them.		
BIK-TZP.21	Technological Fundamentals of Computers	Z,ZK	5
Students get acqua	inted with the fundamentals of digital and analog circuits, as well as basic methods of analyzing them. Students learn how computer st	ructures look like a	at the lowest
level. They are intro	oduced to the function of a transistor. They will understand why processors generate heat, why cooling is necessary, and how to redu	ce the consumptio	n; what the
limits to the maxim	um operating frequency are and how to raise them; why a computer bus needs to be terminated, what happens if it is not; how a corr	nputer power suppl	y looks like
	(in principle). In the labs, students model the behavior of basic electrical circuits in SW Mathematica.		
BIK-UOS.21	Unix-like Operating Systems	KZ	5
Unix-like operating	systems represent a large family mostly open-source codes that kept bringing during the history of computers efficient innovative fu	nctions of multiuse	r operating
	uters and their networks and clusters. The most popular OS today, Android, has a unix kernel. Students get overview of basic propert		
	ads, access rights and user identity, filters, or handling files in a file system. They learn to use practically these systems at the level o		
	to utilize powerful system tools that are available to users, but are also able to automatize routine agenda using the unix scripting in	erface, called shel	.l.
BIK-ZWU	Introduction to Web and User Interfaces	Z,ZK	4
	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 2025-06-08, time 14:37.