Study plan

Name of study plan: Open Informatics - Computer Games and Graphics 2025

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Open Informatics Type of study: Bachelor full-time Required credits: 163 Elective courses credits: 17 Sum of credits in the plan: 180 Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 133 The role of the block: P

Code of the group: 2025_BOIBAP Name of the group: Bachelor Project Requirement credits in the group: In this group you have to gain 20 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 20 Note on the group:

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
BBAP20	Bachelor thesis Roman mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Р

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20

Characteristics of the courses of this group of Study Plan: Code=2025_BOIBAP Name=Bachelor Project

BBAP20 Bachelor thesis

Code of the group: 2025_BOIBBE

Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses Credits in the group: 0

Note on the group:

0 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
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Р
BEZZ	Basic Health and Occupational Safety Regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р

Characteristics of the courses of this group of Study Plan: Code=2025_BOIBBE Name=Safety of the bachelor's studies

BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0					
The purpose of the safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation of it. This introductory course								
contains fundamentals	of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	on electrical equi	pment.					
BEZZ	Basic Health and Occupational Safety Regulations	Z	0					
The guidelines were wo	The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague,							
which was provided by	which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety							
regulations forms an int	egral and permanent part of qualification requirements. This program is obligatory.							

Code of the group: 2025_BOIP

Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 113 credits Requirement courses in the group: In this group you have to complete 20 courses

Credits in the group: 113

Note on the group:

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
B4B33ALG	Algorithms Marko Genyk-Berezovskyj, Daniel Pr ša Daniel Pr ša Marko Genyk-Berezovskyj (Gar.)	Z,ZK	6	2P+2C	Z	Ρ
B4B35APO	Computer Architectures	Z,ZK	6	2P+2L	L	Р
B4B36DBS	Database Systems	Z,ZK	5	2P+2C	L	Р
B4B01DMA	Discrete Mathematics Petr Habala Petr Habala Petr Habala (Gar.)	Z,ZK	5	2P+2S	Z	Ρ
B0B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	8	4P+2S	z	Ρ
B0B01LGR	Logic and Graphs Natalie Žukovec, Mat j Dostál, Alena Gollová Alena Gollová Marie Demlová (Gar.)	Z,ZK	5	3P+2S	Z,L	Ρ
B0B01MA1	Mathematical Analysis 1 Josef Dvo ák, Martin K epela, Josef Tkadlec, Veronika Sobotíková Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z,L	Ρ
B0B01MA2	Mathematical Analysis 2 Miroslav Korbelá , Petr Hájek, Martin Bohata, Jaroslav Tišer, Karel Pospíšil, Paola Vivi, Hana Tur inová Petr Hájek Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L,Z	Ρ
B4B33OSY	Operating Systems Petr Št pán	Z,ZK	4	2P+2C	Z	Р
B4B35OSY	Operating Systems Michal Sojka, Petr Št pán Michal Sojka Michal Sojka (Gar.)	Z,ZK	4	2P+2C	Z	Р
B0B33OPT	Optimization Tomáš Werner, Petr Olšák, Mirko Navara, Tomáš Kroupa Tomáš Werner Tomáš Werner (Gar.)	Z,ZK	7	4P+2C	Z,L	Ρ
B4B36PDV	Parallel and Distributed Computing Mat j Kafka, Michal Jakob Michal Jakob Michal Jakob (Gar.)	Z,ZK	6	2P+2C	L	Р
34B38PSIB	Computer Networks	Z,ZK	6	2P+2L	L	Р
34B33PSY	Computer systems Petr Št pán	KZ	5	2P+2C	Z	Ρ
B0B01PST	Probability and Statistics Kate ina Helisová Kate ina Helisová Petr Hájek (Gar.)	Z,ZK	7	4P+2S	Z	Ρ
B0B36PRP	Procedural Programming Jan Faigl Jan Faigl Jan Faigl (Gar.)	Z,ZK	6	2P+2C	Z	Р
B0B36PJV	Programming in Java Ji í Vok ínek, Martin Mudroch, Ladislav Serédi Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7E	L	Ρ
B4B36PKT	P íprava ke státnicím Jan Faigl	Z	1	8P+8S	L	Р
B4B33RPH	Solving Problems and other Games Tomáš Svoboda, Petr Pošík Petr Pošík Tomáš Svoboda (Gar.)	КZ	6	2P+3C	Z	Ρ
B4BPROJ6	Unassisted project Tomáš Svoboda, Petr Pošík, Ji í Šebek, Jaroslav Sloup, Ivan Jelínek, Katarína Žmolíková Petr Pošík	Z	6	0+2	Z,L	Р
B4B33ALG	f the courses of this group of Study Plan: Code=2025_BOIP Name= Algorithms rithms development is constructed with minimum dependency to programming language; ne			2	Z,ZK	6
types a data structures	and a second provide a second a se Second a second a s					
34B35APO	Computer Architectures				Z,ZK	6
34B36DBS	Database Systems			Z	Z,ZK	5
34B01DMA	Discrete Mathematics			Z	Z,ZK	5
elations, mappings, ca	meet some important topics from the field of discrete mathematics. Namely, they will explore ardinality of sets, induction, and recurrence equations. The second aim of this course is to te them to mathematics as science.	-			-	
B0B01LAG	Linear Algebra nitial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are	e covered (linear o	lependence	1	Z,ZK	8 coordinate
etc). The calculus of ma	atrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvec ar equations, the geometry of a 3D space (including the scalar product and the vector produ	tors, diagonalisat	-			

programs. At the same is is used that provides a and linking but also with Student independence implementations. Evalu B0B36PJV The course builds on th of the Java language. T will be introduced. An ir of solving partial tasks correctness and efficien B4B36PKT B4B33RPH The main motivation is define interfaces, how t optimal way. The unsolv
is used that provides a land linking but also with Student independence implementations. Evalue B0B36PJV The course builds on the fue Java language. T will be introduced. An in of solving partial tasks correctness and efficien B4B36PKT B4B33RPH The main motivation is
is used that provides a land linking but also with Student independence implementations. Evalue B0B36PJV The course builds on the function of the Java language. T will be introduced. An in of solving partial tasks correctness and efficien B4B36PKT B4B33RPH
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The course accompanie
B0B36PRP
B0B01PST
B4B33PSY
B4B38PSIB
B4B36PDV
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B0B33OPT The course provides an
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B4B35OSY Lecture introduces ope
aspects. These topics a be solved on labs. Stud
Lecture introduces ope
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nd of the relationship
B0B01MA1 The aim of the course i B0B01MA2 The subject covers an i series and power series B4B33OSY

Code of the group: 2025_BZAJ

Name of the group: Exam from the english language

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 0

Note on the group:

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
B0B04B1K	English language B1 - classified assessment Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)	κz	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Markéta Havlí ková, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Ρ

Characteristics of the courses of this group of Study Plan: Code=2025_BZAJ Name=Exam from the english language

B0B04B1K	English language B1 - classified assessment	KZ	0
verifying of the student	s skills of B1 level		

I) The B2 English Exam is a d Regulations for Students at C addition, this requires the pas for Languages (CEFR), an in one who can understand the of fluency and spontaneity the and explain a viewpoint on a within the past five years may	glish language B2 - exam compulsory subject for all Faculty of Electrical Engineering students at the Czech Tect CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary asing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article ternational standard for describing language ability, the definition of an English langu main ideas of complex text on both concrete and abstract topics, including technical di at makes regular interaction with native speakers quite possible without strain for eithr topical issue giving the advantages and disadvantages of various options. III) Studen present their certificate to the Department of Languages, Faculty of Electrical Engine list of approved international exams go the department website: http://jazyky.fel.cvut.	r condition in order 6). II) According to age learner who h scussions in his/he er party. Can produts who have succe ering Upon approv	to success of the Comm las achieved er field of sp uce clear, do essfully pas	the Study a fully comple on Europea I the B2 (Up ecialisation. etailed text o sed an appr	te the study pro n Framework o per-Intermedia Can interact w on a wide range oved internatio	ogramme. In of Reference te) level is ith a degree e of subjects nal exam	
	k: Povinné p edm ty zam ení of credits of the block: 30						
The role of the blo							
Code of the group	o: 2025_BOIPS4						
Name of the grou	p: Compulsory subjects of the branch						
Requirement crea	lits in the group: In this group you have to gain 30	credits					
•	rses in the group: In this group you have to compl	ete 5 cours	ses				
Credits in the gro	•						
Note on the group		cové hry a gra	afika				
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	
B4B39IUR	User interfaces implementation Zden k Míkovec, Miroslav Macík Miroslav Macík Zden k Míkovec (Gar.)	Z,ZK	6	2P+2S	Z	PZ	
B4B39HRY	Computer Games Ji í Bittner, David Sedlá ek David Sedlá ek Ji í Bittner (Gar.)	Z,ZK	6	2P+2C	Z	PZ	
B0B39PGR	Computer graphics programming Jaroslav Sloup, Petr Felkel Jaroslav Sloup Petr Felkel (Gar.)	Z,ZK	6	2P+2C+8D	L	PZ	
BE4B39VGO	Creating graphic content Ladislav molík Ladislav molík (Gar.)	Z,ZK	6	2P+2C+8D	Z	PZ	
B4B36ZUI	Introduction to Artificial Intelligence Viliam Lisý, Branislav Bošanský Branislav Bošanský Michal P chou ek (Gar.)	Z,ZK	6	2P+2C	L	PZ	
Characteristics of the	courses of this group of Study Plan: Code=2025_BOIPS4 Nar	ne=Compuls	orv subi	ects of th	e branch		
	er interfaces implementation		<u> </u>		Z,ZK	6	
	pecification (created by design team), the student will be able to implement user inter in, testing, and implementation of the user interface.	rface and commun	licate efficie	ntly with oth	er stakeholders	s taking part	
	nputer Games			Z	Z,ZK	6	
	res with the issues encountered during programming computer games. They learn top		•				
	time rendering in the context of computer games development. During exercises they ogramming game mechanics to the presentation in front of a jury of experts. The exe	-			-	concept and	
	mputer graphics programming			· · · · · · · · · · · · · · · · · · ·	Z,ZK	6	
1	eating graphic content			1	Z,ZK	6	
	rovide theory behind geometric modeling and modeling of materials, give students and pse methods in praxis. At the seminars, students will learn how to design and create the students will learn how to design and create the students will be an advected by the students and students and the students are students and the students are students and the students are students are students are students are students and the students are students ar			•	•		
) and geometrical details, and position and set-up lights in the scene.						
	oduction to Artificial Intelligence over the basics of symbolic artificial intelligence. We will focus on algorithms of inform	ed and uninforme	d state spa	1	Z,ZK	6 Intation and	
	weldge using formal logic, methods of automated reasoning, and an introduction to l		-	-			
	also part of the inter-university programme prg.ai Minor. It pools the best of AI education in Prague to provide students with a deeper and broader insight into the field of artificial intelligence. More information is available at https://prg.ai/minor.						
	<: Elective courses						
Minimal number of credits of the block: 0							
The role of the blo							
Code of the group	o: 2025_BOIH						

Name of the group: Humanities subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
B0B16ET1	Ethic 1 Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	V
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	V
B0B16HTE	History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	V
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	V
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)	KZ	4	2P+2S	Z	V
B0B16MPS	Psychology Jan Fiala Jan Fiala Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	V
B0B16MPL	Psychology for managers Jan Fiala Jan Fiala Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	V

Characteristics of the courses of this group of Study Plan: Code=2025_BOIH Name=Humanities subjects

B0B16ET1 ΚZ 4 Ethic 1 Aim of this subject is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situations of human life. Essential parts of the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the communal answers. B0B16FIL 2 Philosophy ΖK We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics. B0B16FI1 Philosophy 1 ΚZ 4 We deal with the most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy and connection of old philosophical thoughts with recent problems of science, technology, economics and politics. B0B16HTE History of technology and economic ΖK 2 B0B16HT1 History of science and technology 1 ΚZ 4 B0B16HI1 History 1 ΚZ 4 B0B16MPS Psychology Z,ZK 4 B0B16MPL Psychology for managers ΖK 2

Code of the group: 2025_BJKA

Name of the group: English language courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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
B0B04A21	English Language A2-1 Dana Saláková	Z		2s	Z	V
B0B04A22	English Language A2-2 Dana Saláková	Z	0	2s	L	V
B0B04B11	English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	Z	V
B0B04B12	English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	L	V
B0B04B21	English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z	V
B0B04B22	English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z,L	V

Characteristics of the courses of this group of Study Plan: Code=2025_BJKA Name=English language courses

B0B04A21	English Language A2-1	Z					
The course is open to s							
B0B04A22	English Language A2-2	Z	0				
The course is open to s	tudents who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowl	edge of the Englis	sh language.				
B0B04B11	English Language B1-1	Z	0				
Course objective: Broad	ening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary	expansion; under	standing spoken				
English.							
B0B04B12	English Language B1-2	Z	0				
Course objective: Broad	Course objective: Broadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expansion; understanding spoken						
English.							

B0B04B21

English Language B2-1

This course is designed as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B2Z*). While the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate level of English for Erasmus / International Study.

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B0B04B22 English Language B2-2

Ζ This course is designed as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - zkouška - B0B04B2Z *). While the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate level of English for Erasmus / International Study.

Code of the group: BTV Name of the group: Physical education Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
TVV	Physical education	Z	0	0+2	Z,L	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V

Characteristics of the courses of this group of Study Plan: Code=BTV Name=Physical education

TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0

Code of the group: BTVK

Name of the group: Physical education courses

Requirement credits in the group:

Requirement courses in the group:

Credits in the group: 0

Note on the group:

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
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

Characteristics of the courses of this group of Study Plan: Code=BTVK Name=Physical education courses

TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

Code of the group: 2025_BOIVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

List of courses of this pass:

Code	Name of the course	Completion	Credit
B0B01LAG	Linear Algebra	Z,ZK	8
	ne initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and indep		
etc). The calculus of	f matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered no solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and SVI		ons includ
B0B01LGR	Logic and Graphs	Z,ZK	5
his course covers ba	asics of mathematical logic and graph theory. Syntax and semantics of propositional and predicate logic are introduced. The importance		onsequen
	and of the relationship between a formula and its model is stressed. Further, basic notions from graph theory are introduced.		
B0B01MA1	Mathematical Analysis 1 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	Z,ZK	7
B0B01MA2	Mathematical Analysis 2	Z,ZK	7
The subject covers	s an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals. C series and power series with application to Taylor and Fourier series.	Other part contain	ns functio
B0B01PST	Probability and Statistics	Z,ZK	7
B0B04A21	English Language A2-1	Z	
	The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic En		
B0B04A22	English Language A2-2	Z	0
	n to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowledg	je of the English I	
B0B04B11 Course objective: Bro	English Language B1-1 oadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expa English.	Z nsion; understand	0 ding spok
B0B04B12	English Language B1-2	Z	0
Course objective: Bro	oadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary expa English.	nsion; understand	ding spok
B0B04B1K	English language B1 - classified assessment verifying of the student's skills of B1 level	KZ	0
B0B04B21	English Language B2-1	Z	3
his course is design	ned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - z	kouška - B0B04E	B2Z*). Wł
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the course is focus	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), i	it also focuses mo	
the course is focus	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), i ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate	it also focuses mo	
the course is focus	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), i ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate / International Study.	it also focuses mo e level of English f	for Erasm
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the course is focus cademic and technic B0B04B22	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), i ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropriate / International Study. English Language B2-2 ned as a full-year, two semester preparation course for the university compulsory B2-level English Examination (Anglický jazyk B2 - zt	it also focuses mo e level of English f Z kouška - B0B04B	for Erasm 3 32Z *). Wł
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The course builds of	Programming in Java	Z,ZK	6
	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course al	,	
	e. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working wit		
	In important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowled	-	
or solving partial ta	sks and semester work, which will be submitted continuously through the source code version control system. The semester work so correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and		
B0B36PRP	Procedural Programming	Z.ZK	6
	anies basic programming emphasizing the data representation in computer memory. Furthermore, the concepts of linked data structu	· · ·	-
	tudents master the practical implementation of simple individual tasks. The course emphasizes acquiring programming habits for cre		
	me time, the effort is to build students an overview of the program operation, data model, memory access, and management. Therefore		
	s a direct link between the program data structures and their representation in the computer memory. Students will get acquainted not		
0	with debugging and profiling. Labs aim to acquire practical skills of implementing simple individual tasks, emphasizing functionality ar lence is developed by a set of homework with the possibility of optional and bonus assignments. The final task is an integration of a li	, ,	
	blementations. Evaluation of coding style motivated by writing legible, understandable, and maintainable codes is also a part of the s		ig existing
B0B39PGR	Computer graphics programming	Z,ZK	6
B4B01DMA	Discrete Mathematics	Z,ZK	5
-	nts meet some important topics from the field of discrete mathematics. Namely, they will explore divisibility and calculations modulo n,	· · ·	-
relations, mappir	gs, cardinality of sets, induction, and recurrence equations. The second aim of this course is to teach students the language of math	ematics, both pass	sively and
	actively, and introduce them to mathematics as science.		
B4B33ALG	Algorithms	Z,ZK	6
	lgorithms development is constructed with minimum dependency to programming language; nevertheless the lectures and seminars		
types a data strue	ctures, basic algorithms, recursive functions, abstract data types, stack, queues, trees, searching, sorting, special application algorith Students are able to design and construct non-trivial algorithms and to evaluate their effectivity.	nms, Dynamic prog	ramming.
B4B33OSY	Operating Systems	Z,ZK	4
	operation system's basic concepts and principles as processes, threads, communication and synchronization, virtual memory, drive	I ' I	-
	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in	-	- 1
	be solved on labs. Students will work with Linux OS and micro-kernel NOVA.		
B4B33PSY	Computer systems	KZ	5
B4B33RPH	Solving Problems and other Games	KZ	6
	on is to let students to deal with real-world problems properly. When working on real problems the student shall learn how to decomp		
	how to test and validate individual steps and so on. Many problems will actually be beyond the first-year-student skills. And many pro		
	insolved parts should motivate the students to study difficult theoretical subjects. They should generate the important questions. Idea be eager to study deeper about informatics. The course also explains the basis of the object oriented design, software testing, ways		
the student should	codes.	ior writing readable	anu iobusi
B4B35APO	Computer Architectures	Z,ZK	6
B4B35OSY	Operating Systems	Z,ZK	4
	e per a mig e jerenne		
Lecture introduces	operation system's basic concepts and principles as processes, threads, communication and synchronization, virtual memory, drive		
	operation system's basic concepts and principles as processes, threads, communication and synchronization, virtual memory, drive ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in	rs, file systems, ba	sic security
aspects. These top	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in be solved on labs. Students will work with Linux OS and micro-kernel NOVA.	rs, file systems, ba C programming la	sic security
aspects. These top B4B36DBS	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in be solved on labs. Students will work with Linux OS and micro-kernel NOVA. Database Systems	rs, file systems, ba C programming la Z,ZK	sic security nguage will 5
aspects. These top B4B36DBS B4B36PDV	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in be solved on labs. Students will work with Linux OS and micro-kernel NOVA. Database Systems Parallel and Distributed Computing	rs, file systems, ba C programming lar Z,ZK Z,ZK	sic security nguage will 5 6
aspects. These top B4B36DBS B4B36PDV B4B36PKT	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in be solved on labs. Students will work with Linux OS and micro-kernel NOVA. Database Systems Parallel and Distributed Computing P íprava ke státnicím	rs, file systems, ba C programming lar Z,ZK Z,ZK Z	sic security nguage will 5 6 1
B4B36DBS B4B36PDV B4B36PKT B4B36ZUI	ics are theoretically described and demonstrated on Linux and Windows OS with multi-core systems. Practical exercises from OS in be solved on labs. Students will work with Linux OS and micro-kernel NOVA. Database Systems Parallel and Distributed Computing P íprava ke státnicím Introduction to Artificial Intelligence	rs, file systems, ba C programming la Z,ZK Z,ZK Z Z,ZK	sic security nguage will 5 6 1 6
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For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-07-20, time 05:12.