Recomended pass through the study plan

Name of the pass: Open Informatics - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Open Informatics

Branch of study guranteed by the department: Common courses

Guarantor of the study branch: Program of study: Open Informatics Type of study: Bachelor full-time

Note on the pass:

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
B4B01DMA	Discrete Mathematics Petr Habala Petr Habala (Gar.)	Z,ZK	5	2P+2S	Z	Р
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	Р
B4B33PSY	Computer systems	KZ	5	2P+2C	Z	Р
B0B36PRP	Procedural Programming Jan Faigl Jan Faigl (Gar.)	Z,ZK	6	2P+2C	Z	Р
B4B33RPH	Solving Problems and other Games Tomáš Svoboda, Petr Pošík Petr Pošík Tomáš Svoboda (Gar.)	KZ	6	2P+3C	Z	Р
BEZZ	Basic Health and Occupational Safety Regulations Vladimír K la, Radek Havlí ek, Ivana Nová Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Р

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
B4B35APO	Computer Architectures	Z,ZK	6	2P+2L	L	Р
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Vladimír K la, Radek Havlí ek, Ivana Nová Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Р
B0B01LGR	Logic and Graphs Natalie Žukovec, Mat j Dostál, Alena Gollová Alena Gollová Marie Demlová (Gar.)	Z,ZK	5	3P+2S	Z,L	Р
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	Р
B4B38PSIB	Computer Networks	Z,ZK	6		L	Р
B0B36PJV	Programming in Java Martin Mudroch, Ji í Vok ínek, Ladislav Serédi Ji í Vok ínek Ji í Vok ínek (Gar.)	Z,ZK	6	2P+3C+7D	L	Р

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

List of courses of this pass:

Code	Name of the course	Completion	Credits
B0B01LAG	Linear Algebra	Z,ZK	8
The course covers	the initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and inde	ependence, basis,	coordinates
etc). The calculus	of matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered i	next. The application	ons include
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and SN	/D.	
B0B01LGR	Logic and Graphs	Z,ZK	5
This course covers	basics of mathematical logic and graph theory. Syntax and semantics of propositional and predicate logic are introduced. The importance	e of the notion of co	onsequence
	and of the relationship between a formula and its model is stressed. Further, basic notions from graph theory are introduced		
B0B01MA1	Mathematical Analysis 1	Z,ZK	7
	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.		
B0B36PJV	Programming in Java	Z,ZK	6
he course builds	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course als	so focus on the obj	ect concept
of the Java langua	ge. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with	h files and using ge	eneric types
vill be introduced.	An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledge	ge of Java is tested	d in the form
of solving partial ta	sks and semester work, which will be submitted continuously through the source code version control system. The semester work sco	•	oints for the
	correctness and efficiency of the code, as well as points that take into account the quality of the source codes, their readability and r	eusability.	
B0B36PRP	Procedural Programming	Z,ZK	6
he course accom	panies basic programming emphasizing the data representation in computer memory. Furthermore, the concepts of linked data structur	res and processing	user inputs
	tudents master the practical implementation of simple individual tasks. The course emphasizes acquiring programming habits for crea	-	
•	me time, the effort is to build students an overview of the program operation, data model, memory access, and management. Therefore		
•	es a direct link between the program data structures and their representation in the computer memory. Students will get acquainted not		•
•	with debugging and profiling. Labs aim to acquire practical skills of implementing simple individual tasks, emphasizing functionality an		
•	dence is developed by a set of homework with the possibility of optional and bonus assignments. The final task is an integration of a la		ig existing
	plementations. Evaluation of coding style motivated by writing legible, understandable, and maintainable codes is also a part of the se		_
B4B01DMA	Discrete Mathematics	Z,ZK	5
	ents meet some important topics from the field of discrete mathematics. Namely, they will explore divisibility and calculations modulo n,		
relations, mappi	ngs, cardinality of sets, induction, and recurrence equations. The second aim of this course is to teach students the language of mathematics as science.	ematics, both pass	sively and
B4B33PSY	Computer systems	KZ	5
	Solving Problems and other Games ion is to let students to deal with real-world problems properly. When working on real problems the student shall learn how to decomp	KZ	6
B4B33RPH			iii, now to
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For updated information see http://bilakniha.cvut.cz/en/f3.html Generated: day 2025-07-05, time 20:00.