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 Daniel Gromada, Ji í Velebil, Jakub Rondoš, Natalie Žukovec, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	8	4P+2S	Z	Р
B4B33PSY	Computer systems Jakub Dupák, Mat j Kafka, Pavel Píša, Petr Št pán Petr Št pán Petr Št pán (Gar.)	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

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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 Pavel Piša	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 Mat j Dostál Marie Demlová (Gar.)	Z,ZK	5	3P+2S	Z,L	Р
B0B01MA1	Mathematical Analysis 1 Martin K epela, Josef Tkadlec, Josef Dvo ák, Veronika Sobotíková Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z,L	Р
B4B38PSIB	Computer Networks Jií Novák, Jan Holub Jií Novák Jií Novák (Gar.)	Z,ZK	6	2P+2L	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+7C	L	Р

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		coordinates
etc). The calculus	of matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered	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 S\	/D.	
B0B01LGR	Logic and Graphs	Z,ZK	5
	basics of mathematical logic and graph theory. Syntax and semantics of propositional and predicate logic are introduced. The importance		onsequence
	and of the relationship between a formula and its model is stressed. Further, basic notions from graph theory are introduced	d.	•
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
	on the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course als		_
	ge. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with	-	-
	An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledge		
of solving partial ta	sks and semester work, which will be submitted continuously through the source code version control system. The semester work so	oring consists of p	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
The course accomp	vanies basic programming emphasizing the data representation in computer memory. Furthermore, the concepts of linked data structur		user input
are developed. S	tudents master the practical implementation of simple individual tasks. The course emphasizes acquiring programming habits for creating	ating readable and	reusable
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programs. At the sa	me time, the effort is to build students an overview of the program operation, data model, memory access, and management. Therefore	, the C programmir	ng language
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regulations forms an integral and permanent part of qualification requirements. This program is obligatory.