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 sen	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
B4B01DMA	Discrete Mathematics Petr Habala Petr Habala Petr Habala (Gar.)	Z,ZK	5	2P+2S	Z	Р
B0B01LAG	Linear Algebra Ji í Velebil, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	8	4P+2S	Z	Ρ
B0B36PRP	Procedural Programming Jan Faigl 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
2015_BOIVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of sen	nester: 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)	Completion	Credits	Scope	Semester	Role
B0B35APO	Tutors, authors and guarantors (gar.) Computer Architectures Pavel Píša, Richard Šusta, Petr Št pán Pavel Píša Pavel Píša (Gar.)	Z,ZK	5	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	Ρ
B0B01LGR	Logic anad 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
B4B38PSIA	Computer Networks Ji í Novák, Jan Holub Ji í Novák Ji í Novák (Gar.)	Z,ZK	5	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+7D	L	Ρ
2015_BOIVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

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

Kód	Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)	Completion	Credits	Scope	Semester	Role
2015_BOIVOL	Volitelné odborné p edm ty	Min. cours.	Min/Max 0/999			v
		U	0/999			

List of courses of this pass:

Code	Name of the course	Completion	Credits
B0B01LAG	Linear Algebra	Z,ZK	8
The course covers t	he initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and inder		coordinates
etc). The calculus of	of matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered n	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 SV	'D.	
B0B01LGR	Logic anad 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.	l.	
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.		
B0B35APO	Computer Architectures	Z,ZK	5
B0B36PJV	Programming in Java	Z,ZK	6
	in the basics of algorithms and programming from the first semester and introduces students to the Java environment. The course also	·	ect concep
of the Java languag	ge. The topics of the course includes exceptions, event handling, and building a graphical interface. Basic library methods, working with	files and using ge	eneric type
will be introduced. A	An important topic is models of multithreaded applications and their implementation. Practical exercises of practical skills and knowledg	e 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	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 re-	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 structure	es and processing	user input
are developed. S	tudents master the practical implementation of simple individual tasks. The course emphasizes acquiring programming habits for crea	ting readable and	reusable
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