Recomended pass through the study plan

Name of the pass: Specialization Software Engineering - Passage through study

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Pass through the study plan: Open Informatics - Software Engineering Branch of study guranteed by the department: Welcome page Guarantor of the study branch: Program of study: Open Informatics Type of study: Follow-up master 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 semes	ster: 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
BEZM	Safety in Electrical Engineering for a master's degree Vladimír K la, Radek Havlí ek, Ivana Nová, Josef ernohous, Pavel Mlejnek Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Ρ
B4M33PAL	Advanced algorithms Marko Genyk-Berezovskyj, Daniel Pr ša, Ond ej Drbohlav Daniel Pr ša Daniel Pr ša (Gar.)	Z,ZK	6	2P+2C	Z	Ρ
B4M36DS2	Database Systems II Yuliia Prokop Yuliia Prokop Yuliia Prokop (Gar.)	Z,ZK	6	2P+2C	Z	PO
B4M36ZKS	Software Quality Assurance Karel Frajták, Miroslav Bureš, Mat j Klíma Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	6	2P+2C	Z	PO
2018_MOIVOL	Volitelné odborné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of seme	ester: 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
B4M35KO	Combinatorial Optimization Zden k Hanzálek Zden k Hanzálek Zden k Hanzálek (Gar.)	Z,ZK	6	3P+2C	L	Р
B4M01TAL	Theory of Algorithms Marie Demlová, Natalie Žukovec Marie Demlová Marie Demlová (Gar.)	Z,ZK	6	3P+2S	L	Ρ
B4M36ESW	Effective Software Michal Sojka, David Šišlák David Šišlák (Gar.)	Z,ZK	6	2P+2C	L	PO
B4M36SWA	Software Architectures Karel Frajták, Miroslav Bureš Miroslav Bureš (Gar.)	Z,ZK	6	2P+2C	L	PO
	Valitalná adharná nadmatu	Min. cours.	Min/Max			M
	voliteine oaborne p eam ty	0 0/999			v	

Number of semes	ster: 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
B4MSVP	Software or Research Project Ji í Šebek, Ivan Jelínek, Jaroslav Sloup, Martin Šipoš, Drahomíra Hejtmanová, Jana Zichová, Petr Pošík, Martin Hlinovský, Katarína Žmolíková, Ivan Jelínek Ivan Jelínek (Gar.)	ΚZ	6		Z,L	Ρ

B4M36BSY	Introduction to Computer Security Sebastián García, Tomáš Pevný, Veronica Valeros, Maria Rigaki, Ond ej Lukáš, Martin epa, Lukáš Forst, Muris Sladi Tomáš Pevný Tomáš Pevný (Gar.)	Z,ZK	6	2P+2C	Z	PO
B4M35PAG	Parallel algorithms Pemysl Š cha Pemysl Š cha Pemysl Š cha (Gar.)	Z,ZK	6	2P+2S	Z	PO
2018_MOIVOL		Min. cours. Min/Max				
	Volitelne odborne piedmi ty	0	0/999			V

Number of semes	ster: 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
BDIP25	Diploma Thesis	Z	25	22s	L	Р
2018_MOIVOL	Malifala é a dhann é a sa dao ta	Min. cours.	Min/Max			V
	voliteine odborne p edm ty	0	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
2018_MOIVOL		Min. cours. Min/M 0 0/99	Min/Max			
	voliteine odborne p edm ty		0/999			v

List of courses of this pass:

B4M36SWA	Software Architectures	Z,ZK	6			
In this course students become familiar with the general requirements for software (SW) architecture and related quality parameters that are monitored by software architectures.						
Individual require	ments and parameters are discussed in the context of current architectural standards and design patterns that students practically le	arn through exerci	ses. In this			
	course, besides the technology perspective on software architecture is also taken into an account the management aspect					
B4M36ZKS	Software Quality Assurance	Z,ZK	6			
B4MSVP	Software or Research Project	KZ	6			
BDIP25	Diploma Thesis	Z	25			
Independent final comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will						
be specified b	by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreh	ensive final exami	nation.			
BEZM	Safety in Electrical Engineering for a master's degree	Z	0			
The course provides for students of all programs periodic training guidelines for health and occupational safety and gives knowledge of electrical hazard of given branch of study.						
Students receive indispensable qualification according to the current Directive of the Dean.						

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-06-06, time 12:58.