

Recommended pass through the study plan

Name of the pass: Software Technologies 18/19, 19/20, 20/21, 21/22, 22/23, 23/24, 24/25, 25/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Software Technologies

Branch of study guaranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Biomedical and Clinical Informatics

Type of study: Follow-up master full-time

Note on the pass: Informaci o p edepsaném minimálním po tu PV p edm t pro konkrétní jednotlivé semestry najdete v odpovídajícím studijním plánu specializace.

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
F7PMIAS1	Signal Analysis I. Jan Hejda, Michal Huptych, Václav Gerla, Jan Kauler Jan Kauler Václav Gerla (Gar.)	Z,ZK	4	2P+2C	Z	z
17BOZP	Occupational Safety and Health, Fire Protection and First Aid Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)	Z	0	1P	Z	z
F7PMIBLGC-S	Human Biology David Mack David Mack David Mack (Gar.)	ZK	2	2P	Z	z
F7PMIBST	Biostatistics Vojt ch Kamenský, Aleš Tichopád, Martina Homolková Vojt ch Kamenský Aleš Tichopád (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PMILEG	Legislation and Safety of Biomedical Software and Data Dagmar Brechlerová, Lenka Lhotská Dagmar Brechlerová Dagmar Brechlerová (Gar.)	ZK	2	2P	Z	z
F7PMIOOP	Object-Oriented Programming Radim Krupí ka, Bohuslav Dvorský, Tomáš Kraj a Radim Krupí ka Radim Krupí ka (Gar.)	Z,ZK	3	1P+2C	Z	z
F7PMIPAZ	Advanced Algorithms Jan Broulím, Pavel Smr ka Pavel Smr ka Pavel Smr ka (Gar.)	Z,ZK	5	2P+2C	Z	z
F7PMIRPJ1	Year Project I. Jan Hejda, Jan Kauler, Radim Krupí ka, Václav Petrák, Petr Písa ík, Št pán Tím, Ond ej Klempí , Christiane Malá, Zoltán Szabó Radim Krupí ka Zoltán Szabó (Gar.)	KZ	8	2S	Z	z
F7PMISKJ	Scripting Languages Radim Krupí ka, Ond ej Klempí Radim Krupí ka Radim Krupí ka (Gar.)	KZ	2	2C	Z	z

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
F7PMIARVD	Analysis and Recognition of Multidimensional Data Olga Št pánková, Milan N mý Olga Št pánková Olga Št pánková (Gar.)	Z,ZK	4	2P+2C	L	z
F7PMIAS2	Signal Analysis II. Jan Hejda, Michal Huptych, Václav Gerla, Kamila Dvo ák Jan Hejda	Z,ZK	4	2P+2C	L	z
F7PMIBSB	Biological Signals and Biometrics Jan Kauler, Lenka Lhotská, Vladimír Kraj a Jan Kauler Vladimír Kraj a (Gar.)	Z,ZK	2	1P+1C	L	z
F7PMIDWT	Database and Web Technologies Jan Hejda, Slávka Ne uková Slávka Ne uková Slávka Ne uková (Gar.)	Z,ZK	4	2P+2C	L	z
F7PMIELD-S	Electronic Medical Record and Medical Documentation Michal Huptych, Lenka Lhotská Anna Hor áková Lenka Lhotská (Gar.)	Z,ZK	2	1P+1C	L	z

F7PMIRPJ2	Year Project II. Jan Hejda, Aleš Tichopád, Radim Krupí ka, Pavel Smr ka, Václav Petrák, Petr Písa ík, Št pán Tímr, Ond ej Klempí , Christiane Malá, Zoltán Szabó	KZ	8	2S	L	z
F7PMITBA-S	Biomedical Application Development Radim Krupí ka, Bohuslav Dvorský Radim Krupí ka Radim Krupí ka (Gar.)	Z,ZK	6	1P+3C	L	z

Number of semester: 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
F7PMIBD	Big Data Lenka Lhotská, Bohuslav Dvorský Lenka Lhotská Lenka Lhotská (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PMIDP1	Diploma Thesis I. Aleš Tichopád, Radim Krupí ka, Pavel Smr ka, Ond ej Klempí , Christiane Malá, Zoltán Szabó, Vladimíra Petráková, Tomáš Veselý, Veronika Vym talová, Radim Krupí ka Zoltán Szabó (Gar.)	KZ	8	2S	Z	z
F7PMIIMA-S	Image Analysis Zoltán Szabó, Václav Hlavá Radim Krupí ka Václav Hlavá (Gar.)	Z,ZK	6	2P+2C	Z	z
F7PMINUR	Design of User Interfaces Zden k Míkovec Zden k Míkovec Zden k Míkovec (Gar.)	Z,ZK	2	1P+1C	Z	z
F7PMISWI-S	Software Engineering Jan Mužík, Pavel Trnka Jan Mužík Jan Mužík (Gar.)	Z,ZK	6	2P+2C	Z	z
F7PMIUMIT	Artificial Intelligence Olga Št pánková, Martin Macaš Martin Macaš Olga Št pánková (Gar.)	Z,ZK	4	2P+2C	Z	z

Number of semester: 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
F7PMIBMD-S	Safety at Work with Biomedical Dates Martin Stan k, Anna Hor áková, Karel Hána Anna Hor áková Anna Hor áková (Gar.)	KZ	5	1P+2C	L	z
F7PMIDP2	Diploma Thesis II. Aleš Tichopád, Radim Krupí ka, Jan Broulím, Pavel Smr ka, Ond ej Klempí , Christiane Malá, Zoltán Szabó, Milan N mý, Vladimíra Petráková, Zoltán Szabó Zoltán Szabó (Gar.)	Z	14	2S	L	z
F7PMIPSMB-S	Computer Simulation, Modelling and Chemo/Bioinformatics Ond ej Klempí Ond ej Klempí Ond ej Klempí (Gar.)	Z,ZK	6	2P+2C	L	z
F7PMIRAST	Robotics and Assistive Technology Jan Kauler, Václav Hlavá Jan Kauler	Z,ZK	5	2P+2C	L	z

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
17BOZP	Occupational Safety and Health, Fire Protection and First Aid	Z	0
F7PMIARVD	Analysis and Recognition of Multidimensional Data	Z,ZK	4
F7PMIAS1	Signal Analysis I.	Z,ZK	4
F7PMIAS2	Signal Analysis II.	Z,ZK	4
F7PMIBD	Big Data	Z,ZK	4
F7PMIBLGC-S	Human Biology	ZK	2
F7PMIBMD-S	Safety at Work with Biomedical Dates	KZ	5
F7PMIBSB	Biological Signals and Biometrics	Z,ZK	2
F7PMIBST	Biostatistics	Z,ZK	4
F7PMIDP1	Diploma Thesis I.	KZ	8
F7PMIDP2	Diploma Thesis II.	Z	14

F7PMIDWT	Database and Web Technologies	Z,ZK	4
F7PMIELD-S	Electronic Medical Record and Medical Documentation	Z,ZK	2
F7PMIIMA-S	Image Analysis The course aims to acquaint students with methods of image processing and analysis. The course is taught in English. The course will teach students how to process and analyze images on a computer. We will explain digital image processing methods where we do not have semantic knowledge about the image's content. We will also study image analysis procedures, where we can segment objects from the background according to semantics, describe them with features and recognize them. We will build on the student's knowledge of mathematical analysis, linear algebra, and signal theory.	Z,ZK	6
F7PMILEG	Legislation and Safety of Biomedical Software and Data	ZK	2
F7PMINUR	Design of User Interfaces	Z,ZK	2
F7PMIOOP	Object-Oriented Programming	Z,ZK	3
F7PMIPAZ	Advanced Algorithms	Z,ZK	5
F7PMIPSMB-S	Computer Simulation, Modelling and Chemo/Bioinformatics	Z,ZK	6
F7PMIRAST	Robotics and Assistive Technology	Z,ZK	5
F7PMIRPJ1	Year Project I.	KZ	8
F7PMIRPJ2	Year Project II.	KZ	8
F7PMISKJ	Scripting Languages	KZ	2
F7PMISWI-S	Software Engineering	Z,ZK	6
F7PMITBA-S	Biomedical Application Development	Z,ZK	6
F7PMIUMIT	Artificial Intelligence	Z,ZK	4

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

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