

Recomended pass through the study plan

Name of the pass: Biomedical informatics 20/21, 21/22, 22/23

Faculty/Institute/Others:

Department:

Pass through the study plan: Biomedical informatics

Branch of study guaranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Informatics and Cybernetics in Health Care

Type of study: Bachelor 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 assessment, Z - assessment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses <i>(in case of groups of courses the list of codes of their members)</i> Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
F7PBKALP	Algorithmization and Programming Pavel Smrk, Tomáš Funda, Tomáš Veselý, Lenka Hanáková Tomáš Funda Pavel Smrk (Gar.)	Z,ZK	6	2P+2C	Z	Z
F7PBKAJ1	English I. Eva Maxová, Eva Motyková Eva Motyková Eva Motyková (Gar.)	KZ	2	2S	Z	Z
17BOZP	Occupational Safety and Health, Fire Protection and First Aid Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)	Z	0	1P	Z	Z
F7PBKKT	Communication Technology Tomáš Funda, Tomáš Veselý, Karel Hána, Martin Vít zník, Markéta Janatová, Aneta Buchtělová, Kateřina Plátová Tomáš Funda Karel Hána (Gar.)	Z,ZK	3	1P+1C	Z	Z
F7PBKLAD	Linear Algebra and Differential Calculus Jiří Neustupa, Jana Urzová Jiří Neustupa Jana Urzová (Gar.)	Z,ZK	6	2P+4C	Z	Z
F7PBKLG	Logic Dagmar Brechlerová Dagmar Brechlerová Dagmar Brechlerová (Gar.)	Z,ZK	5	2P+2C	Z	Z
F7PBKMAZ	Management and Administration in Health Care Jiří Černý Jiří Černý Jiří Černý (Gar.)	KZ	1	1P	Z	Z
F7PBKPND	Presentation Tools and Skills Anna Horáková Anna Horáková Anna Horáková (Gar.)	KZ	2	1P+1C	Z	Z
F7PBKPR1	Project I. Pavel Smrk, Karel Hána, Radim Kliment, Jan Kauler, Radim Kliment, David Jirsa, Radim Krupík, Jan Mužík, Filip Hrdlička, Karel Hána Karel Hána (Gar.)	KZ	5	1S	Z	Z

Number of semester: 2

Code	Name of the course / Name of the group of courses <i>(in case of groups of courses the list of codes of their members)</i> Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
F7PBKAJ2	English II. Eva Motyková Eva Motyková (Gar.)	KZ	2	2S	L	Z
F7PBKDDS	Data and Data Structures Jan Kauler, Radim Krupík, Radim Krupík Radim Krupík (Gar.)	Z,ZK	5	2P+2C	L	Z
F7PBKITP	Integral Calculus Jana Urzová Jana Urzová Jana Urzová (Gar.)	Z,ZK	6	2P+4C	L	Z
F7PBKML	Matlab Michal Reimer	KZ	3	2C	L	Z
F7PBKOS	Operating Systems Jan Mužík Jan Mužík Jan Mužík (Gar.)	Z,ZK	4	1P+2C	L	Z
F7PBKPPP	Programming Tools Pavel Smrk, Tomáš Funda, Radim Kliment, Michaela Gaea Olakovová Pavel Smrk Pavel Smrk (Gar.)	KZ	2	2C	L	Z

F7PBKPR2	Project II. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Radim Kliment, Jan Kauler, Jan Mužík, Christiane Malá, Tomáš Kraja, Ondej Klempí, Karel Hána Karel Hána (Gar.)	KZ	5	1S	L	z
F7PBKTVR	Telemedicine and Virtual Reality Pavel Smrka, Karel Hána, Markéta Janatová, Radim Kliment, Vít Janovský, Jiří Brada Karel Hána Karel Hána (Gar.)	KZ	3	2C	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
F7PBKAJ3	English III. Eva Maxová Eva Maxová Eva Maxová (Gar.)	KZ	2	2S	Z	z
F7PBKDS	Database Systems Tomáš Kraja, Slávka Neuková Slávka Neuková Slávka Neuková (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBKISZ	Information Systems in Health Care Dagmar Brechlerová, Anna Horáková, David Jirsa, Tomáš Kraja, Zoltán Szabó, Petr Šmid Anna Horáková Zoltán Szabó (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBKOOP	Object Oriented Programming Radim Krupiška, Tomáš Kraja Radim Krupiška Radim Krupiška (Gar.)	Z,ZK	3	1P+2C	Z	z
F7PBKPMS-I	Probability and Mathematical Statistics Jan Štroblo, Marek Piorecký Tomáš Nagy Marek Piorecký (Gar.)	Z,ZK	5	2P+2C	Z	z
F7PBKPBI-I	IT Law and Security Dagmar Brechlerová	Z,ZK	3	1P+1C	Z	z
F7PBKPR3	Project II. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Radim Krupiška, Christiane Malá, Tomáš Kraja, Michal Reimer, Jiří Millek Karel Hána Karel Hána (Gar.)	KZ	5	1S	Z	z
F7PBKZTM1	Fundamentals of Theoretical Medicine I.	Z,ZK	2	2P	Z	z
F7PBKZIZ-I	Medical Information Resources Anna Horáková	KZ	2	1P+1C	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
F7PBKAJ4	English IV. Eva Maxová Eva Motyková Eva Motyková (Gar.)	KZ	2	2S	L	z
F7PBKAZI-I	Applied Informatics in Health Care Christiane Malá Christiane Malá Christiane Malá (Gar.)	Z,ZK	2	1P+1C	L	z
F7PBKMS-I	Modeling and Stimulation Jan Kauler Jan Kauler Jan Kauler (Gar.)	Z,ZK	5	2P+2C	L	z
F7PBKPS-I	Computer Network Radim Krupiška, Michal Reimer Radim Krupiška Radim Krupiška (Gar.)	Z,ZK	4	2P+2C	L	z
F7PBKPPT-I	Advanced Programming Techniques Radim Krupiška, Tomáš Kraja Radim Krupiška Radim Krupiška (Gar.)	KZ	3	2C	L	z
F7PBKPR4	Project IV. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Radim Krupiška, Jan Mužík, Ján Hýbl, Christiane Malá, Tomáš Kraja, Michal Reimer, Karel Hána Karel Hána (Gar.)	KZ	5	1S	L	z
F7PBKTWA	Web Application Development David Jirsa David Jirsa	Z,ZK	3	1P+2C	L	z
F7PBKZSI	Software Engineering Fundamentals Jan Mužík Jan Mužík Jan Mužík (Gar.)	Z,ZK	4	2P+2C	L	z
F7PBKZTM2	Fundamentals of Theoretical Medicine II. Taána Jarošková, Jozef Rosina Taána Jarošková Taána Jarošková (Gar.)	ZK	2	2P	L	z

Number of semester: 5

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
F7PBKBPD	Data Transmission and Processing Security Dagmar Brechlerová, Martin Stanek Martin Stanek Dagmar Brechlerová (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBKBI-I	Bioinformatics Ondej Klempíř Ondej Klempíř Ondej Klempíř (Gar.)	Z,ZK	5	2P+2C	Z	z

F7PBKPPN	Health Legislation and Standards <i>Peter Kreppo Peter Kneppo (Gar.)</i>	KZ	2	1P+1C	Z	Z
F7PBKPR5	Project V. <i>Pavel Smrká, Karel Hána, Dagmar Brechlerová, David Jirsa, Jan Mužík, Christiane Malá, Tomáš Krajá, Michal Rejmer, Martin Bejtic, Karel Hána Karel Hána (Gar.)</i>	KZ	6	1S	Z	Z
F7PBKSFI	Software Engineering <i>Jan Mužík, Pavel Trnka Jan Mužík Jan Mužík (Gar.)</i>	Z,ZK	4	2P+2C	Z	Z
F7PBKUIE	Artificial Intelligence and Expert Systems <i>Radim Krupík Radim Krupík Radim Krupík (Gar.)</i>	Z,ZK	5	2P+2C	Z	Z
F7PBKZOD-I	Image Processing <i>Zoltán Szabó</i>	Z,ZK	4	2P+2C	Z	Z

Number of semester: 6

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
F7PBKATR	Assistive Technology and Robotics in Medicine Jan Kauler Jan Kauler Jan Kauler (Gar.)	Z,ZK	5	2P+2C	L	z
F7PBKBP	Bachelor Thesis Pavel Smrká, Karel Hána, Dagmar Brechlerová, Radim Krupíká, Jan Mužík, Christiane Malá, Tomáš Kraja, Michal Reimer, Jan Broulík, Karel Hána Eva Hlavatá (Gar.)	Z	12	2S	L	z
F7PBKBS-I	Biological Signals	Z,ZK	5	2P+2C	L	z
F7PBKNVM-I	Design and Development of Mobile Applications Radim Kliment	Z,ZK	5	2P+2C	L	z
F7PBKSBP	Bachelor Thesis Seminar Karel Hána, Radim Krupíká, Christiane Malá Radim Krupíká Radim Krupíká (Gar.)	Z	3	2S	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:

F7PBKLAD	Linear Algebra and Differential Calculus	Z,ZK	6
F7PBKLG	Logic	Z,ZK	5
F7PBKMAZ	Management and Administration in Health Care	KZ	1
F7PBKML	Matlab	KZ	3
F7PBKMS-I	Modeling and Stimulation	Z,ZK	5
F7PBKNVM-I	Design and Development of Mobile Applications	Z,ZK	5
F7PBKOOP	Object Oriented Programming	Z,ZK	3
F7PBKOS	Operating Systems	Z,ZK	4
F7PBKPBI-I	IT Law and Security	Z,ZK	3
F7PBKPMS-I	Probability and Mathematical Statistics	Z,ZK	5
F7PBKPND	Presentation Tools and Skills	KZ	2
F7PBKPPN	Health Legislation and Standards	KZ	2
F7PBKPPP	Programming Tools	KZ	2
F7PBKPPT-I	Advanced Programming Techniques	KZ	3
F7PBKPR1	Project I.	KZ	5
F7PBKPR2	Project II.	KZ	5
F7PBKPR3	Project III.	KZ	5
F7PBKPR4	Project IV.	KZ	5
F7PBKPR5	Project V.	KZ	6
F7PBKPS-I	Computer Network	Z,ZK	4
F7PBKSBP	Bachelor Thesis Seminar	Z	3
F7PBKSFI	Software Engineering	Z,ZK	4
F7PBKTVR	Telemedicine and Virtual Reality	KZ	3
F7PBKTWA	Web Application Development	Z,ZK	3
F7PBKUIE	Artificial Intelligence and Expert Systems	Z,ZK	5
F7PBKZIZ-I	Medical Information Resources	KZ	2
F7PBKZOD-I	Image Processing	Z,ZK	4
F7PBKZSI	Software Engineering Fundamentals	Z,ZK	4
F7PBKZTM1	Fundamentals of Theoretical Medicine I.	Z,ZK	2
F7PBKZTM2	Fundamentals of Theoretical Medicine II.	ZK	2

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

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