

Recomended pass through the study plan

Name of the pass: Information and Communication Technologies 20/21, 21/22, 22/23

Faculty/Institute/Others:

Department:

Pass through the study plan: Information and Communication Technologies

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 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 <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 Urvová Jana Urvová (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 Krupík, Filip Hrdlicka, Jaroslav Prchal, Ján Hýbl, Sára Barboríková, Jan Kašpar, Christiane Malá, 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 Maxová	KZ	2	2S	L	Z
F7PBKDDS	Data and Data Structures Radim Krupík, Jan Kauler Radim Krupík Radim Krupík (Gar.)	Z,ZK	5	2P+2C	L	Z
F7PBKITP	Integral Calculus Jana Urvová Jana Urvová Jana Urvová (Gar.)	Z,ZK	6	2P+4C	L	Z
F7PBKML	Matlab Michal Reimer	KZ	3	2C	L	Z
F7PBKOS	Operating Systems Jan Mužík, David Gillar, Dominik Fiala Jan Mužík Jan Mužík (Gar.)	Z,ZK	4	1P+2C	L	Z
F7PBKPPP	Programming Tools Pavel Smrk, Radim Kliment, Michaela Gaea olakovová Pavel Smrk Pavel Smrk (Gar.)	KZ	2	2C	L	Z

F7PBKPR2	Project II. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Christiane Malá, Tomáš Kraja, Jan Kauler, Jan Mužík, Radim Kliment Karel Hána Karel Hána (Gar.)	KZ	5	1S	L	z
F7PBKTVR	Telemedicine and Virtual Reality Pavel Smrka, Karel Hána, Markéta Janatová, Radim Kliment, Jiří Brada, Vít Janovský 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, Tomáš Kraja, David Jirsa, Zoltán Szabó, Petr Šmid Anna Horáková Zoltán Szabó (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBKOOP	Object Oriented Programming Radim Krupíka, Tomáš Kraja Radim Krupíka Radim Krupíka (Gar.)	Z,ZK	3	1P+2C	Z	z
F7PBKPR3	Project II. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Christiane Malá, Tomáš Kraja, Michal Reimer Karel Hána Karel Hána (Gar.)	KZ	5	1S	Z	z
F7PBKUSS-C	Introduction to Systems and Signals Jan Kauler	Z,ZK	5	2P+2C	Z	z
F7PBKZAT-C	Analogue Techniques Fundamentals Karel Hána	Z,ZK	5	2P+2C	Z	z
F7PBKZTM1	Fundamentals of Theoretical Medicine I.	Z,ZK	2	2P	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
F7PBKAZC-C	Biosignal Algorithms in C Language Pavel Smrka	Z,ZK	5	2P+2C	L	z
F7PBKAJ4	English IV. Eva Maxová Eva Motyková Eva Motyková (Gar.)	KZ	2	2S	L	z
F7PBKPTD-C	Advanced Technologies in Diabetology Jan Mužík	KZ	3	2P	L	z
F7PBKPR4	Project IV. Pavel Smrka, Karel Hána, Dagmar Brechlerová, Christiane Malá, Tomáš Kraja, Michal Reimer, Jan Mužík, Martin Bejtlic, Jan Broulím, 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
F7PBKZCT-C	Digital Technology Fundamentals Karel Hána	Z,ZK	6	2P+2C	L	z
F7PBKZSI	Software Engineering Fundamentals Jan Mužík, David Gillar, Dominik Fišala Jan Mužík Jan Mužík (Gar.)	Z,ZK	4	2P+2C	L	z
F7PBKZTM2	Fundamentals of Theoretical Medicine II. Taána Jarošíková, Jozef Rosina Taána Jarošíková Taána Jarošíková (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
F7PBKMTB-C	Microprocessor Technology in Biomedicine Pavel Smrka Pavel Smrka Pavel Smrka (Gar.)	KZ	5	1P+3C	Z	z
F7PBKNVM-C	Design and Development of Mobile and Embedded Applications Radim Kliment Radim Kliment	KZ	4	1P+2C	Z	z
F7PBKPPN	Health Legislation and Standards Peter Kneppo Peter Kneppo (Gar.)	KZ	2	1P+1C	Z	z

F7PBKPR5	Project V. Karel Hána, Dagmar Brechlerová, Christiane Malá, Michal Reimer, Jan Mužík, Martin Bejtlic, Jan Broulím, Patrik Pluhovský, Pavla Suchánková Karel Hána Karel Hána (Gar.)	KZ	6	1S	Z	z
F7PBKSFI	Software Engineering Jan Mužík, Dominik Fiala, Pavel Trnka Jan Mužík Jan Mužík (Gar.)	Z,ZK	4	2P+2C	Z	z
F7PBKUIE	Artificial Intelligence and Expert Systems Radim Krupi ka Radim Krupi ka Radim Krupi ka (Gar.)	Z,ZK	5	2P+2C	Z	z

Number of semester: 6

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
F7PBKATR	Assistive Technology and Robotics in Medicine Jan Kauler Jan Kauler Jan Kauler (Gar.)	Z,ZK	5	2P+2C	L	z
F7PBKBP	Bachelor Thesis Karel Hána, Dagmar Brechlerová, Radim Krupi ka, Christiane Malá, Michal Reimer, Jan Mužík, Jan Broulím, Patrik Pluhovský, Pavla Suchánková Karel Hána Karel Hána (Gar.)	Z	12	2S	L	z
F7PBKEHT-C	E-Health and Telemedicine Pavel Smr ka, Karel Hána, Michal Huptych Michal Huptych Lenka Lhotská (Gar.)	Z,ZK	7	2P+4C	L	z
F7PBKPPN-C	Computer-aided design, development and production of electronic devices Martin Vít zník Martin Vít zník Martin Vít zník (Gar.)	KZ	3	2C	L	z
F7PBKSBP	Bachelor Thesis Seminar Karel Hána, Radim Krupi ka, Christiane Malá Radim Krupi ka Radim Krupi ka (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:

Code	Name of the course	Completion	Credits
17BOZP	Occupational Safety and Health, Fire Protection and First Aid	Z	0
F7PBKAJ1	English I.	KZ	2
F7PBKAJ2	English II.	KZ	2
F7PBKAJ3	English III.	KZ	2
F7PBKAJ4	English IV.	KZ	2
F7PBKALP	Algorithmization and Programming	Z,ZK	6
F7PBKATR	Assistive Technology and Robotics in Medicine	Z,ZK	5
F7PBKAZC-C	Biosignal Algorithms in C Language	Z,ZK	5
F7PBKBP	Bachelor Thesis	Z	12
F7PBKBPD	Data Transmission and Processing Security	Z,ZK	4
F7PBKDDS	Data and Data Structures	Z,ZK	5
F7PBKDS	Database Systems	Z,ZK	4
F7PBKEHT-C	E-Health and Telemedicine	Z,ZK	7
F7PBKISZ	Information Systems in Health Care	Z,ZK	4
F7PBKITP	Integral Calculus	Z,ZK	6
F7PBKKT	Communication Technology	Z,ZK	3
Význam a praktické p íkly nasazení informa ních a komunika ních technologií ve zdravotnictví. Historie, základní struktura a rozd lení po ita , motherboard, sb rnice, BIOS, autotest, procesor, opera ní pam , klasické a SSD pevné disky, pam ové karty, zvukové karty, grafické karty, monitory, klávesnice, myši, tiskárny a skenery, univerzální vstupní výstupní porty (USB, USB-C, HDMI, DisplayPort, Thunderbolt, HDMI, S/PDIF), RS232 jako virtuální COM port a jeho použití v praxi, modemy, nej ast jší sb rnice pro p ipojování periferií v mikroprocesorových systémech (IIC, SPI), nej ast jší sb rnice pro komunikaci p ístroj a systém ve zdravotnictví, standardizace, opera ní systémy, mobilní platforma pro snímání, výhodnocování a p enos dat, rozhraní Bluetooth, NFC, po ita ové sít , LAN, WAN, vrstvový referen ní model OSI, základní technické prost edky LAN (Ethernet, WiFi a jejich praktická realizace), Internet - prohlíže e, používané standardy a jazyky, úvod do architektury TCP/IP, protokoly a adresování, propojování lokálních sítí, brány a sm rova e, pojem „server“, architektura klient-server, nej ast ji používané protokoly sí ové architektury TCP/IP: HTTP, FTP, DNS, DHCP, VPN.			
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
F7PBKMTB-C	Microprocessor Technology in Biomedicine	KZ	5
F7PBKNVM-C	Design and Development of Mobile and Embedded Applications	KZ	4
F7PBKOOP	Object Oriented Programming	Z,ZK	3
F7PBKOS	Operating Systems	Z,ZK	4
F7PBKPND	Presentation Tools and Skills	KZ	2
F7PBKPPN	Health Legislation and Standards	KZ	2
F7PBKPPN-C	Computer-aided design, development and production of electronic devices	KZ	3
F7PBKPPP	Programming Tools	KZ	2
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
F7PBKPTD-C	Advanced Technologies in Diabetology	KZ	3
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
F7PBKUSS-C	Introduction to Systems and Signals	Z,ZK	5
F7PBKZAT-C	Analogue Techniques Fundamentals	Z,ZK	5
F7PBKZCT-C	Digital Technology Fundamentals	Z,ZK	6
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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