Recomended pass through the study plan

Name of the pass: Systematic Integration of Processes in Healthcare - 19/20, 20/21, 21/22, 22/23, 23/24

Faculty/Institute/Others:

Department:

Pass through the study plan: Systematic Integration of Pprocesses in Healthcare - combined study

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Systematic Integration of Processes in Healthcare

Type of study: Follow-up master combined

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

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

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
17BOZP	Occupational Safety and Health, Fire Protection and First Aid Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)	Z	0	1P	Z	Z
F7KMSEK	Economics Petra Hospodková, Lucie Severová, Martina Caithamlová Petra Hospodková Lucie Severová (Gar.)	Z,ZK	5	8P+8S	Z	Z
F7KMSIZZ	Information Sources in Healthcare Gleb Donin, Vojt ch Kamenský Vojt ch Kamenský Gleb Donin (Gar.)	KZ	3	4P+8S	Z	Z
F7KMSPMF	Overview of Mathematics and Physics Jana Urzová, David Vrba David Vrba David Vrba (Gar.)	Z,ZK	4	8P+8S	Z	Z
F7KMSRLZ	Management of Human Resources Zuzana Dvo áková Zuzana Dvo áková Zuzana Dvo áková (Gar.)	Z,ZK	3	4P+4S	Z	Z
F7KMSRNZ	Management of Costs in Healthcare Martina Caithamlová Martina Caithamlová Jind ich Nový (Gar.)	KZ	5	8P+8S	Z	Z
F7KMSVZ1	Public Healthcare I. Jan B íza Jan B íza Jan B íza (Gar.)	ZK	5	8P	Z	Z
F7KMSVKZP	Selected Chapters from Medical Processes	KZ	5	8P+4S	Z	Z

Number of sem	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
F7KMSBE	Business English Jitka Mari áková Jitka Mari áková Jitka Mari áková (Gar.)	KZ	2	8S	L	Z
F7KMSEZZ	Economy of Healthcare Facilities Petra Hospodková Petra Hospodková Petra Hospodková (Gar.)	Z,ZK	3	12P+8S	L	Z
F7KMSHZT	Health Technology Assessment Gleb Donin, Martina Holá, Ond ej Gajdoš Martina Holá Vladimír Rogalewicz (Gar.)	Z,ZK	4	12P+8S	L	Z
F7KMSOP	Professional Training Petra Hospodková Jan B íza (Gar.)	Z	2	4XT	L	Z
F7KMSPLPT	Overview of Medical Devices Petr Kudrna, Martin Rožánek Petr Volf Martin Rožánek (Gar.)	Z,ZK	4	12P+8C	L	Z
F7KMSRP	Annual Project Gleb Donin, Ond ej Gajdoš Anna Erfányuková Gleb Donin (Gar.)	Z	2	8S	L	Z
F7KMSVZ2	Public Healthcare II. Jan B íza, V ra Adámková Jan B íza V ra Adámková (Gar.)	Z,ZK	4	8P	L	Z
F7KMSZSED	Medical Systems and their Economic Dimension Miroslav Sel an, Miroslav Barták Miroslav Barták Miroslav Barták (Gar.)	Z,ZK	4	8P+8S	L	Z
F7KMSITZ	Information Technology in Healthcare	KZ	2	8P+4S	L	S

F7KMSJIP	Icus and Mobile Healthcare Units Petr Kudrna	KZ	3	8P+4C	L	S
F7KMSMKZ	Marketing and PR in Healthcare Petra Hospodková	KZ	2	8P+4S	L	S
F7KMSPIZ	Work with Information Sources and Research Methodology Jakub Ráfl	KZ	3	8P+4S	L	S
F7KMSZU	Fundamentals of Accounting Martina Caithamlová	KZ	2	8P+4S	L	S

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
F7KMSBSCD	Statistical Methods in the Analysis of Clinical Studies Vojt ch Kamenský, Aleš Tichopád, Marian Rybá, Martina Homolková Vojt ch Kamenský Aleš Tichopád (Gar.)	Z,ZK	4	12P+8S	z	Z
F7KMSEMM	Economic-mathematical Methods David Vrba, Vladimír Rogalewicz David Vrba David Vrba (Gar.)	KZ	2	4P+4S	Z	Z
F7KMSIP	Individual Training Martina Caithamlová Martina Caithamlová Martina Caithamlová (Gar.)	Z	2	2XT	Z	Z
F7KMSLKH	Legislation in Healthcare and Clinical Evaluation Vojt ch Kamenský, Ond ej Gajdoš, Peter Kneppo Vojt ch Kamenský Peter Kneppo (Gar.)	Z,ZK	5	12P+8S	z	Z
F7KMSMZZ	Management of Medical Facilities Petra Hospodková, Martina Caithamlová, Ján Lešták Petra Hospodková Ján Lešták (Gar.)	Z,ZK	4	8P+8S	Z	Z
F7KMSNIS	Hospital Information Systems Jan Bruthans, Anna Hor áková Anna Hor áková Jan Bruthans (Gar.)	Z,ZK	3	8P+4S	Z	Z
F7KMSSDP1	Diploma Thesis Seminar I. Vladimír Rogalewicz Vladimír Rogalewicz (Gar.)	Z	2	8S	Z	Z
F7KMSZSVS	Healthcare as Part of the Public Sector Miroslav Barták, Zuzana Kotherová, Andrea Vodochodská Andrea Vodochodská Zuzana Kotherová (Gar.)	ZK	3	8P	z	Z
F7KMSEAZ	Economic Analyses in Healthcare Gleb Donin, Ond ej Gajdoš Barbora Mašková Gleb Donin (Gar.)	KZ	3	8P+4S	Z	S
F7KMSOVZ	Operation Research in Healthcare	KZ	3	8P+4S	Z	S
F7KMSMIP	Project Management Petra Hospodková, Venuše Kneppo Petra Hospodková Petra Hospodková (Gar.)	KZ	3	8P+4S	Z	S
F7KMSRKD	Development of Communication Skills Dana Rebeka Ralbovská Dana Rebeka Ralbovská Dana Rebeka Ralbovská (Gar.)	KZ	2	8P+4S	Z	S
F7KMSUPS	Application of Psychology and Sociology in Practice	KZ	2	8P+4S	Z	S

Number of ser	mester: 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
F7KMSIZS	Integrated Rescue System and the Disaster Medicine Ond ej Šedivka, Renata Havránková, Zden k Hon, Leoš Navrátil, Lukáš Miklas, Tomáš ermák Leoš Navrátil Leoš Navrátil (Gar.)	ZK	5	8P	L	Z
F7KMSMZT	Health Technology Management Vojt ch Kamenský, Martin Rožánek, Ji í Petrá ek Petr Volf Martin Rožánek (Gar.)	KZ	5	12P+8S	L	Z
F7KMSRKZ	Quality Management in Healthcare Vojt ch Kamenský, Peter Kneppo Vojt ch Kamenský Peter Kneppo (Gar.)	Z,ZK	5	12P+8S	L	Z
F7KMSSDP2	Diploma Thesis Seminar II. Gleb Donin Gleb Donin (Gar.)	Z	2	12S	L	Z
F7KMSDP	Diploma Thesis Martina Caithamlová, Gleb Donin	Z	8	4XT	L	Z
F7KMSDEV	Design and Ergonomics of Medical Devices	KZ	2	8S+4C	L	S
F7KMSEHG	E-Health and E-Government Dagmar Brechlerová Dagmar Brechlerová (Gar.)	KZ	3	8P+4S	L	S
F7KMSKAJ	English Conversation Jitka Mari áková Jitka Mari áková Jitka Mari áková (Gar.)	KZ	2	12S	L	S
F7KMSSZZ	Strategy of Healthcare Facilities Martina Caithamlová Martina Caithamlová Martina Caithamlová (Gar.)	KZ	3	8P+4S	L	S
F7KMSMPR	Use of Modern Technical Devices in Rehabilitation Markéta Janatová Markéta Janatová Markéta Janatová (Gar.)	Z,ZK	3	8P+4S	L	S

F7KMSZMS	Fundamentals of Modelling and Simulation Vojt ch Kamenský Vojt ch Kamenský Vojt ch Kamenský (Gar.)	KZ	2	8P+4C	L	S
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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
F7KMSBE	Business English	KZ	2
	material is to make students familiar with the Business English before embarking on a career in business. The course covers not on	ly terminology cor	nected with
the field of business	English, but also grammar most often used in the given context. The material depicts a wide range of business topics including Job	s, Organisations,	Marketing,
Finance, Accounting	etc. It presents and explains new words in the context of real situations and shows the student how to use them and how to work ou	t the rules for usin	g them. The
students practise the	ir newly acquired knowledge in the exercises related. The material is also designed to help the students to orientate in business env	vironment of differ	ent cultures
as well as to improve	their speaking skills, using open questions for the students to discuss and talk about. Thus it allows the student to express their ideas	s, support or quest	tion differer
	opinions and get prepared for real business sphere.		
F7KMSBSCD	Statistical Methods in the Analysis of Clinical Studies	Z,ZK	4
	on methods of statistical analysis designed primarily for medical research and clinical evaluation of medical devices. Students will be	,	cal researc
	methodology, clinical study design and then to commonly used methods of processing and testing clinical data.		
F7KMSDEV	Design and Ergonomics of Medical Devices	KZ	2
F7KMSDP	Diploma Thesis	Z	8
F7KMSEAZ	Economic Analyses in Healthcare	KZ	3
1	•		-
	the subject of Health Technology Assessment. During the semester the student will get acquainted with specific types of analyzes (is, cost-benefit analysis), learn how to work with TreeAge and create meta-analyzes and Markov models. The student will further ex	•	
COST-Dellent analysi	multi-criteria decision analysis, learn now to work with nee ye and cleare measurallyzes and markov models. The student will number ex	pariu nis / nei knu	wieuge oi
		1/7	2
F7KMSEHG	E-Health and E-Government	KZ	3
	uces students to the e-Government (especially given in relation to health care) and e-health, their foundations and principles, especi		
F7KMSEK	Economics	Z,ZK	5
	tes the main rules and notions of microeconomics, the market theory, market environment, market balance, demand and supply. Fur		
	and supply elasticity - graphiical and mathematical expression of elasticity, consumer's behavious, his optimum. The lecture continu		
	production, profit maximization, etc. The end of the microeconomics part introduces the theory of perfect/imperfect competition (mon		-
	cerns macroeconomics, the course deals above all with the gross domestic product, its creation, distribution, and practical utilization. I		
the theory of money	market, monetary policy, its tools and goals. Inflation, its nature, forms, causes and effects. Unemployment. The following part of the		th the fiscal
	market, monetary policy, its tools and goals. Inflation, its nature, forms, causes and effects. Unemployment. The following part of the policy, national budget, Maastricht criteria. The course is finished with international trade, balance of payments, exchange rate	es.	
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	e public authorities in handling emergency situations and within the population protection. The course furthermore provides information and the provides informat		
	ealth care service in relation to the provision of medical care, on the field of crisis management, and above all on the preparedness or gency and crisis situations involving mass casualties, including the processes and procedures arising from trauma plans of outpatier	•	
F7KMSIZZ	Information Sources in Healthcare	KZ	3
-			
F7KMSJIP	Icus and Mobile Healthcare Units a brief overview of resuscitation and intensive care in anesthesia-resuscitation units, specialized and mobile intensive care units. The	KZ	3
	omedical engineering in this area to students. Studying course assumes basic knowledge especially from internal and chirurgic special		
	e course, the students should be able to actively communicate with a clinical physician and assist with optimal methods of solution in		completion
F7KMSKAJ	English Conversation	KZ	2
	rsation in English language is primarily focused on the development of communication skills, both from the field of general English, and	1	1
-	lations of real situations, the students practise conversation phrases, relevant terminology and appropriate vocabulary. The emphasis		-
	communication skills and vocabulary expansion.		····,
F7KMSLKH	Legislation in Healthcare and Clinical Evaluation	Z,ZK	5
	s of the course unit The goal is to acquaint students with the rights and obligations arising from current legislation on health care issu	· · ·	ot placed on
memorizing the lite	ral wording of the legislation, but on familiarizing students with the main points and ideas contained in EU directives, regulations, laws	s, standards and E	U directives
	in healthcare. The student should have a comprehensive overview of health legislation after completing the course.		
F7KMSMIP	Project Management	KZ	3
The subject deals v	vith project management, its purpose, concepts and tools. Emphasis is placed on resource planning, allocation of resources to tasks, du	uration and change	, monitoring
of project progress,	re-planning of work in progress, etc. The course also includes project visualization, formatting of tables and graphs, form displays, cale	endar display, netwo	ork diagram,
resc	purce diagram, custom display options etc. Students further elaborate a fictitious project using current software tools to support project	ct management.	
F7KMSMKZ	Marketing and PR in Healthcare	KZ	2
The goal of this su	bject is to present the basics of marketing in health care institutions and medical devices companies. Specificities of marketing of ser	rvices are treated.	Focus is on
	the quality of the product. In the continuous team work, students set up a marketing strategy of a specified institution or product.		
F7KMSMPR	Use of Modern Technical Devices in Rehabilitation	Z,ZK	3
The aim of the cou	rse is to acquaint students with the possibilities of diagnostics and therapy using technical instruments. Emphasis is placed on explain	ining the principles	of this type
	of therapy and on the use of specific rehabilitation systems in clinical practice.		1
F7KMSMZT	Health Technology Management	KZ	5
	spital and its architecture. Distributions of stuff (engineering distributions electro-circuits, specifics of the circuits, water, gas distribution		
drives, compensa	ation, spaces in health care specifics of elementary spaces, steam distribution). Practical seminars from design of the project. Typical		standards
	Ministry of health CR specifying all requirements for different departments and devices. Barrier-free construction of health institu		
F7KMSMZZ	Management of Medical Facilities	Z,ZK	4
	se is to introduce the basic categories in management such as organizing, decision making, influencing or human resources. The introdu rse. The accent is put on the differences of the health facilities in comparison with the classical company. The aim of seminars is to cc		-
	so case studies and team activities form the content of seminars.	onnect the theory a	and practice,
F7KMSNIS	Hospital Information Systems	Z,ZK	3
	esses all subsystems of Hospital information systems (HIS) which means information systems of individual health facilities. This information and the systems of individual health facilities.	· · ·	-
-		-	oomoxi or
	stems. Not only single components (including examples from practice) are addressed, but also adjacent topics are accented (eHealth	systems and its de	evelopment
-	stems. Not only single components (including examples from practice) are addressed, but also adjacent topics are accented (eHealth nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar		evelopment
a	nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar		
a F7KMSOP	nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar Professional Training	net systems).	2
a F7KMSOP	nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar	net systems). Z acquinted with an o	2
a F7KMSOP	nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar Professional Training training completes the practical part of education in the study program Systematic Integration of Processes in Health Care. Students get of operations and with basic documentation in a healthcare facility, and train to do selected activities themselves in a practical s	net systems). Z acquinted with an o	2
a F7KMSOP Individual practical F7KMSOVZ	nd perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intrar Professional Training training completes the practical part of education in the study program Systematic Integration of Processes in Health Care. Students get	The systems). Z acquinted with an operating. KZ	2 organization 3
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TQM. Management and implementation of processes in healthcare facilities, definition and mapping of processes and subprocesses. Design of integration of healthcare facility management. Possibilities of using TQM within healthcare facilities. Standards and indicators in the quality of health care. Quality in laboratories. Accreditation of medical facilities according to SAK and JCI. Quality management tools. Risk management. F7KMSRLZ Management of Human Resources 7.7K 3 After completing the course the student will be able to: - understand the history of human resources in health care organizations, originating from a few scattered tasks to a centralized activity, assuming additional necessary responsibilities as they arose. - describe or formulate the mission of HR department or area in healthcare organization - understand and apply the principles of teamwork - describe the principles of good leadership and people management Objectives: -to enable students to approach Human Resource Management in a systematic manner and to recognize its importance for strategic management in Health Care Institutions; -to enable students to reflect and where appropriate, modify policies and practices internal to the organization with reference to pressures from external institutions; -to help students to come to terms with the complex nature of the employment relationship and how the interlocking tasks of Human Resource management respond to changes which occur over time in individual employees and the workforce as a whole. F7KMSRNZ Management of Costs in Healthcare ΚZ 5 The students are acquainted with basic economic concepts connected with the issue of costs, their division and methods of determination. The costs are discussed in more detail both from the point of view of corporate practice and economic theories. Students strive to apply theoretical knowledge and solve practical examples. Potential options on how to reduce costs are also discussed. An integral part of the course is to practice the given topic using examples and graphs, everything being solved in connection with the practice. Students learn to understand the meaning and significance of budgeting and costing from the point of view of management and in relation to economic activities of a company. F7KMSRP Annual Project 7 2 The course is designed to prepare students for the final work of Faculty of Biomedical Engineering, CTU, which will demonstrate the student's own analytical and creative abilities as well as his / her knowledge from the previous stages of study. Subject "Annual project represents the first stage of the diploma thesis. The main goal is based on the elaborated and approved current state of the issue of generating a suitable topic of the diploma thesis, description of the goals, overview of the planned methods, expected benefit and rationale of the topic selection. At the end of the second semester, the selected entry is entered into the approval process of the department, subject to the following conditions: 1. Thematically fit into the study program Systematic Integration Processes in Healthcare concept (ie focusing on at least 2 of the three basic disciplines: economic, managerial, medical, technical). 2. The scope of planned scientific work to meet the parameters for DP (especially in terms of planned methods and benefits) The topics are prepareed by the relevant supervisors and are listed in the "PROJECTS" system, and during the semester they are specified. To ensure the aforementioned conditions, the student cooperates with the supervisor and the consultant and actively participates in the adaptation. Pursuant to Act 111/1998 Coll. the student has the opportunity to design a topic for which the above conditions apply. Approved assignments of yearly projects become the starting point for the second seminar, ie the Diploma Thesis Seminar 1, where the student elaborates further parts of the diploma thesis. F7KMSSDP1 Diploma Thesis Seminar I. 2 The course is designed to prepare students for the final work of FBMI CTU, which will demonstrate the student's own analytical and creative abilities as well as his / her ability to integrate knowledge from the previous stages of study. The Diploma Thesis Seminar 1 follows up the subject Annual Project. The seminar is conceived as a continuous and controlled work on the methodology of the student's research work. On the basis of the current state of the problem, the student will choose the appropriate methods for the Diploma Thesis solution and develop a specific chapter - Methods. The seminar presentations are the presentation of the progress, the elaboration and the ongoing results of the students' diploma thesis and their continuous control and discussion. All students will present their research on Student Scientific Conference. F7KMSSDP2 Diploma Thesis Seminar II. 2 7 The course is designed to prepare students for the final work of FBMI CTU, which will demonstrate the student's own analytical and creative abilities as well as his / her ability to integrate knowledge from the previous stages of study. The Diploma Thesis Seminar 2 builds on the outputs of the Seminar for Diploma Thesis 1 and the Annual Project. The aim of the seminar is to teach students how to process the results and the discussion and thus bring the diploma work to a successful conclusion. Students will present 2 presentations of the progress, the elaboration and the ongoing results of their diploma thesis and their continuous control and discussion. The student is also prepared for the final defense of his diploma thesis. F7KMSSZZ Strategy of Healthcare Facilities K7 A long-term, successful existence of each market entity is conditioned by a clear long-term strategy vision. Progressive competition, increased demand for medical services, higher demands of patients and significant development of medical science characterise the state of contemporary healthcare. These facts make the management of healthcare facilities more challenging and complicated. This subject provides the students with the fundamentals and steps of strategic management, principles of creation and strategic management applied to healthcare facilities conditions. **F7KMSUPS** Application of Psychology and Sociology in Practice K7 2 F7KMSVKZP Selected Chapters from Medical Processes K7 5 Healthcare is a highly complex process calling for the fulfillment of a whole range of different technical requirements in order to provide quality health services. In its introductory section, the subject of the course deals with issues such as providing healthcare facilities with resources, delivering pharmaceutical drugs, medical aids and other essential commodities for their operation. It also seeks to clarify the issues involving requirements for technical equipment, measuring devices, examination and check-ups of medical instrumentation, occupational safety and health, fire protection, handling of chemicals and chemical compounds, and waste disposal in healthcare facilities. The final set of lectures is focused on questions of safeguarding quality and patient safety, protection of employees' and patients' data, procedures for checking the quality of provided care by means of certification of healthcare facilities. F7KMSVZ1 Public Healthcare I. ΖK 5 F7KMSVZ2 Public Healthcare II. Z,ZK 4 F7KMSZMS Fundamentals of Modelling and Simulation ΚZ 2 Basic notions and principles of system modelling generally. Theoretical and applied analysis of qualities of models representing various medical, biochemical, epidemiological, ecological, and biological systems. Population modelling. Epidemiological models. Models of pharmacokinetics. Economic Models and Models in Health Technology Assessment. F7KMSZSED Medical Systems and their Economic Dimension Z,ZK 4 Different elements of healthcare systems are studied so as the different possibilities of healthcare system design, its conditions and consequences. The healthcare systems are analyzed in international dimension, the Czech healthcare system is presented in details. F7KMSZSVS ΖK Healthcare as Part of the Public Sector 3 Healthcare as part of the public sector this course ekes out the gained general economic knowledge with issues from public economy discipline, all applied to the healthcare sector. In the introductory part, the role of the public sector within the national economy is studied and discussed from different points of view. The concept of market and government failure problematic is presented and discussed - the accent is put mainly on public goods, externalities and control mechanism in the public sector. F7KMSZU Fundamentals of Accounting ΚZ 2 The subject provides students with the fundamentals of accounting, principles of accounting management and accounting terminology. The aim of the subject is to introduce the field of accounting, to acquaint the students with the meaning of accounting and its place in the system of an organization management. To teach the student show to work with the basic concepts of accounting and legal regulations related to accounting.

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-07-31, time 12:44.