

## Recommended 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 Processes in Healthcare - full-time

Branch of study guaranteed 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 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 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 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
17BOZP	<b>Occupational Safety and Health, Fire Protection and First Aid</b> Petr Kudrna Petr Kudrna Petr Kudrna (Gar.)	Z	0	1P	Z	z
F7PMSEK	<b>Economics</b> Petra Hospodková, Martina Caithamlová, Lucie Severová Petra Hospodková Lucie Severová (Gar.)	Z,ZK	5	2P+2S	Z	z
F7PMSIZZ	<b>Information Sources in Healthcare</b> Vojt ch Kamenský, Gleb Donin Vojt ch Kamenský Gleb Donin (Gar.)	KZ	3	1P+2S	Z	z
F7PMSPMF	<b>Overview of Mathematics and Physics</b> Jana Urzová, David Vrba David Vrba David Vrba (Gar.)	Z,ZK	4	2P+2S	Z	z
F7PMSRLZ	<b>Management of Human Resources</b> Petra Hospodková, Zuzana Dvo áková Petra Hospodková Zuzana Dvo áková (Gar.)	Z,ZK	3	1P+1S	Z	z
F7PMSRNZ	<b>Management of Costs in Healthcare</b> Martina Caithamlová, Jind ich Nový Martina Caithamlová	KZ	5	2P+2S	Z	z
F7PMSVZ1	<b>Public Health, Management of Medical Facilities</b> Jan B íza, V ra Adámková Jan B íza V ra Adámková (Gar.)	ZK	5	2P	Z	z
F7PMSVKZP	<b>Selected Chapters from Medical Processes</b> Jan B íza, Milan Bedna ík Milan Bedna ík Jan B íza (Gar.)	KZ	5	2P+2S	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
F7PMSBE	<b>Business English</b> Jitka Mari áková Jitka Mari áková Jitka Mari áková (Gar.)	KZ	2	2S	L	z
F7PMSEZZ	<b>Economy of Healthcare Facilities</b> Petra Hospodková Petra Hospodková Petra Hospodková (Gar.)	Z,ZK	3	2P+2S	L	z
F7PMSHZT	<b>Health Technology Assessment</b> Gleb Donin, Jan Žigmond, Vladimír Rogalewicz, Ond ej Gajdoš Vladimír Rogalewicz Vladimír Rogalewicz (Gar.)	Z,ZK	4	2P+2S	L	z
F7PMSOP	<b>Professional Training</b> Petra Hospodková Jan B íza (Gar.)	Z	2	4XT	L	z
F7PMSPLPT	<b>Overview of Medical Devices</b> Petr Kudrna, Martin Rožánek, Tomáš D íž al, Ladislav Bís, Václav Ort Petr Volf Martin Rožánek (Gar.)	Z,ZK	4	2P+2C	L	z
F7PMSRP	<b>Annual Project</b> Gleb Donin Gleb Donin Gleb Donin (Gar.)	Z	2	1S	L	z
F7PMSVZ2	<b>Public Healthcare II.</b> Jan B íza, V ra Adámková Jan B íza V ra Adámková (Gar.)	Z,ZK	4	2P	L	z

F7PMSZSED	<b>Medical Systems and their Economic Dimension</b> <i>Miroslav Barták Miroslav Barták Miroslav Barták (Gar.)</i>	Z,ZK	4	2P+2S	L	z
F7PMSITZ	<b>Information Technology in Healthcare</b>	KZ	2	2P+2S	L	s
F7PMSJIP	<b>Icus and Mobile Healthcare Units</b> <i>Petr Kudrna, Martin Rožánek, Ladislav Bís, Václav Ort, Leoš Tejkl Petr Kudrna Martin Rožánek (Gar.)</i>	KZ	3	2P+2C	L	s
F7PMSMKZ	<b>Marketing and PR in Healthcare</b> <i>Petra Hospodková Petra Hospodková Petra Hospodková (Gar.)</i>	KZ	2	2P+2S	L	s
F7PMSPIZ	<b>Work with Information Sources and Research Methodology</b>	KZ	3	2P+2S	L	s
F7PMSZU	<b>Fundamentals of Accounting</b> <i>Martina Caithamlová Martina Caithamlová Martina Caithamlová (Gar.)</i>	KZ	2	2P+2S	L	s

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
F7PMSBSCD	<b>Statistical Methods in the Analysis of Clinical Studies</b> <i>Vojt ch Kamenský, Aleš Tichopád Vojt ch Kamenský Aleš Tichopád (Gar.)</i>	Z,ZK	4	2P+2S	Z	z
F7PMSEMM	<b>Economic-mathematical Methods</b> <i>David Vrba, Matouš Brunát David Vrba David Vrba (Gar.)</i>	KZ	2	1P+1S	Z	z
F7PMSIP	<b>Individual Training</b> <i>Petra Hospodková Petra Hospodková</i>	Z	2	2XT	Z	z
F7PMSLKH	<b>Legislation in Healthcare and Clinical Evaluation</b> <i>Vojt ch Kamenský, Ond ej Gajdoš, Peter Kneppo Vojt ch Kamenský Peter Kneppo (Gar.)</i>	Z,ZK	5	2P+2S	Z	z
F7PMSMZZ	<b>Management of Medical Facilities</b> <i>Petra Hospodková, Martina Caithamlová, Ján Lešták Petra Hospodková Ján Lešták (Gar.)</i>	Z,ZK	4	2P+2S	Z	z
F7PMSNIS	<b>Hospital Information Systems</b> <i>Jan Bruthans, Anna Hor áková, David Jirsa Anna Hor áková Jan Bruthans (Gar.)</i>	Z,ZK	3	2P+1S	Z	z
F7PMSSDP1	<b>Diploma Thesis Seminar I.</b> <i>Gleb Donin, Vladimír Rogalewicz, Ond ej Gajdoš Vladimír Rogalewicz Vladimír Rogalewicz (Gar.)</i>	Z	2	1S	Z	z
F7PMSZSVS	<b>Healthcare as Part of the Public Sector</b> <i>Miroslav Barták Miroslav Barták Miroslav Barták (Gar.)</i>	ZK	3	2P	Z	z
F7PMSEAZ	<b>Economic Analyses in Healthcare</b> <i>Vojt ch Kamenský, Gleb Donin, Jan Žigmond, Ond ej Gajdoš Jan Žigmond Gleb Donin (Gar.)</i>	KZ	3	2P+2S	Z	s
F7PMISOVZ	<b>Operation Research in Healthcare</b>	KZ	3	2P+2S	Z	s
F7PMSMIP	<b>Project Management</b> <i>Petra Hospodková, Eva Smolíková, Miroslav Sel an Petra Hospodková Eva Smolíková (Gar.)</i>	KZ	3	2P+2S	Z	s
F7PMSRKD	<b>Development of Communication Skills</b> <i>Dana Rebecka Ralbovská Dana Rebecka Ralbovská Dana Rebecka Ralbovská (Gar.)</i>	KZ	2	2P+2S	Z	s
F7PMSUPS	<b>Application of Psychology and Sociology in Practice</b> <i>Martina Caithamlová</i>	KZ	2	2P+2S	Z	s

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) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
F7PMSIZS	<b>Integrated Rescue System and the Disaster Medicine</b> <i>Renata Havránková, Leoš Navrátil, Zden k Hon, Lukáš Miklas, Tomáš ermák Leoš Navrátil Leoš Navrátil (Gar.)</i>	ZK	5	2P	L	z
F7PMSMZT	<b>Health Technology Management</b> <i>Martin Rožánek, Ji í Petr á ek, Martin Mayer, Kristýna Koldová Ji í Petr á ek Martin Rožánek (Gar.)</i>	KZ	5	2P+2S	L	z
F7PMSRKZ	<b>Quality Management in Healthcare</b> <i>Vojt ch Kamenský, Peter Kneppo, Alena Plášková Vojt ch Kamenský Peter Kneppo (Gar.)</i>	Z,ZK	5	2P+2S	L	z
F7PMSSDP2	<b>Diploma Thesis Seminar II.</b> <i>Gleb Donin Gleb Donin (Gar.)</i>	Z	2	1S	L	z
F7PMSDP	<b>Diploma Thesis</b>	Z	8	4XT	L	z
F7PMSDEV	<b>Design and Ergonomics of Medical Devices</b>	KZ	2	2S+2C	L	s
F7PMSEHG	<b>E-Health and E-Government</b> <i>Dagmar Brechlerová Dagmar Brechlerová Dagmar Brechlerová (Gar.)</i>	KZ	3	2P+2S	L	s

F7PMSKAJ	<b>English Conversation</b> <i>Jitka Mari áková Jitka Mari áková Jitka Mari áková (Gar.)</i>	KZ	2	2S	L	s
F7PMSSZZ	<b>Strategy of Healthcare Facilities</b> <i>Martina Caiþhamlová Martina Caiþhamlová Martina Caiþhamlová (Gar.)</i>	KZ	3	2P+2S	L	s
F7PMSMPR	<b>Use of Modern Technical Devices in Rehabilitation</b> <i>Markéta Janatová Markéta Janatová Markéta Janatová (Gar.)</i>	Z,ZK	3	2P+2S	L	s
F7PMSZMS	<b>Fundamentals of Modelling and Simulation</b> <i>Vojt ch Kamenský, Aleš Tichopád Vojt ch Kamenský Vojt ch Kamenský (Gar.)</i>	KZ	2	2P+2C	L	s

## 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
F7PMSBE	Business English The aim of this study material is to make students familiar with the Business English before embarking on a career in business. The course covers not only terminology connected 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 Jobs, 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 out the rules for using them. The students practise their newly acquired knowledge in the exercises related. The material is also designed to help the students to orientate in business environment of different 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, support or question different opinions and get prepared for real business sphere.	KZ	2
F7PMSBSCD	Statistical Methods in the Analysis of Clinical Studies The course focuses on methods of statistical analysis designed primarily for medical research and clinical evaluation of medical devices. Students will be introduced to clinical research methodology, clinical study design and then to commonly used methods of processing and testing clinical data.	Z,ZK	4
F7PMSDEV	Design and Ergonomics of Medical Devices	KZ	2
F7PMSDP	Diploma Thesis	Z	8
F7PMSEAZ	Economic Analyses in Healthcare The subject follows the subject of Health Technology Assessment. During the semester the student will get acquainted with specific types of analyzes (cost-effectiveness analysis, cost-benefit analysis, cost-benefit analysis), learn how to work with TreeAge, R and create meta-analyses and Markov models. The student will further expand his / her knowledge of multi-criteria decision analysis.	KZ	3
F7PMSEHG	E-Health and E-Government The course introduces students to the e-Government (especially given in relation to health care) and e-health, their foundations and principles, especially in the Czech Republic.	KZ	3
F7PMSEK	Economics The course introduces the main rules and notions of microeconomics, the market theory, market balance, demand and supply. Furthermore, the course covers the topic of demand and supply elasticity - graphical and mathematical expression of elasticity, consumer's behaviour, his optimum. The lecture continues with the theory of the firm, including costs and production, profit maximization, etc. The end of the microeconomics part introduces the theory of perfect/imperfect competition (monopoly, oligopoly, monopolistic competition). As concerns macroeconomics, the course deals above all with the gross domestic product, its creation, distribution, and practical utilization. Moreover, the course contains the theory of money market, monetary policy, its tools and goals. Inflation, its nature, forms, causes and effects. Unemployment. The following part of the course deals with the fiscal policy, national budget, Maastricht criteria. The course is finished with international trade, balance of payments, exchange rates.	Z,ZK	5
F7PMSEMM	Economic-mathematical Methods The course Mathematical Methods in Economics combines both theoretical knowledge and practical skills. Theoretical knowledge is necessary to formulate a mathematical model and subsequently to solve decision problems and optimal management of economic processes. Practical knowledge is trained in solving specific situations on examples, where students are introduced to specific methods and techniques of economic and mathematical data analysis.	KZ	2
F7PMSEZZ	Economy of Healthcare Facilities The course introduces the basic categories of economics of healthcare facilities (hospitals, public and private clinics) with respect to cost, revenues and performance. It deals with financial management, marketing and other health-related professional activities and functions and their management. Health economics is a specific branch within economics concerned with the efficient allocation of scarce resources with respect to health and healthcare. It aims to develop and deepen the knowledge and skills of students in the field of financial management tools, financing of healthcare needs and performance analysis. The accent is also put on the understanding of the healthcare facility in its integrity and complexity, especially with respect to the basic target function.	Z,ZK	3
F7PMSHZT	Health Technology Assessment	Z,ZK	4
F7PMSIP	Individual Training The Individual professional training is an integral part of good and qualified preparation for prospective occupation. The training provides a student with an opportunity to practice theoretical knowledge in the form of independent work supervised by a professional worker. The Individual professional training represents such form of a tuition in which the students are placed in individual workplaces within medical facilities, or in production or servicing organizations in the field of medical devices. The students, on the basis of predetermined study plans, acquire deeper practical skills and work independently under supervision of an appointed worker. The training on selected workplaces must be on a high professional level. All hygienic, safety and other measures, relevant for the specific workplace must be followed within the training. Students are acquainted with the regulations of the given workplace. The training is supervised and evaluated by its guarantor. The professional training of students of the program Systematic integration of processes in Healthcare is focused namely on the area of legislation, documentation of medical devices in medical facilities, medical procedures reports to health insurance companies, area of tenders, preparation of materials for procurements, preparation and realisation of purchase of medical devices, management quality in medical facilities, work with information systems, operating of medical facility, internal audit and other activities.	Z	2

F7PMSITZ	Information Technology in Healthcare	KZ	2
Effective operation of contemporary health facilities is not possible without a high degree of information technology integration and its impact will further increase in the future. This places high demands on all employees who must guarantee the operation of health care information systems and other database applications as well as perform advanced processing of huge amount of data produced by these systems using common office applications. The course introduces students with basic and advanced concepts and principals of information technologies and with advanced application of computer technology for storing, analysis and presentation of data. Students will also familiarize with architecture of computers and networks, structure of relational databases, data types and their storage and will also adopt basics of informational safety.			
F7PMSIZS	Integrated Rescue System and the Disaster Medicine	ZK	5
The aim of the course is to acquaint the students with the origin and development of the Integrated Rescue System (IRS) in the Czech Republic, its characteristics and main tasks of the basic and other IRS bodies in the preparedness and solution of emergency and crisis situations, with the principles of tactical, operational and strategic management of IRS bodies, with the role of the public authorities in handling emergency situations and within the population protection. The course furthermore provides information on current threats that can negatively affect health care service in relation to the provision of medical care, on the field of crisis management, and above all on the preparedness of inpatient facilities to provide care in emergency and crisis situations involving mass casualties, including the processes and procedures arising from trauma plans of outpatient and inpatient facilities.			
F7PMSIZZ	Information Sources in Healthcare	KZ	3
F7PMSJIP	Icus and Mobile Healthcare Units	KZ	3
The course offers a brief overview of resuscitation and intensive care in anesthesia-resuscitation units, specialized and mobile intensive care units. The aim of the course is present current trends in biomedical engineering in this area to students. Studying course assumes basic knowledge especially from internal and chirurgic specializations. After the completion of the course, the students should be able to actively communicate with a clinical physician and assist with optimal methods of solution in specific cases.			
F7PMSKAJ	English Conversation	KZ	2
The subject Conversation in English language is primarily focused on the development of communication skills, both from the field of general English, and the field of Business English. Through the simulations of real situations, the students practise conversation phrases, relevant terminology and appropriate vocabulary. The emphasis is placed on the accuracy of communication skills and vocabulary expansion.			
F7PMSLKH	Legislation in Healthcare and Clinical Evaluation	Z,ZK	5
Learning outcomes of the course unit The goal is to acquaint students with the rights and obligations arising from current legislation on health care issues. Emphasis is not placed on memorizing the literal wording of the legislation, but on familiarizing students with the main points and ideas contained in EU directives, regulations, laws, standards and EU directives in healthcare. The student should have a comprehensive overview of health legislation after completing the course.			
F7PMSMIP	Project Management	KZ	3
The subject deals with project management, its purpose, concepts and tools. Emphasis is placed on resource planning, allocation of resources to tasks, duration 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, calendar display, network diagram, resource diagram, custom display options etc. Students further elaborate a fictitious project using current software tools to support project management.			
F7PMSMKZ	Marketing and PR in Healthcare	KZ	2
The goal of this subject is to present the basics of marketing in health care institutions and medical devices companies. Specificities of marketing of services 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.			
F7PMSMPR	Use of Modern Technical Devices in Rehabilitation	Z,ZK	3
The aim of the course is to acquaint students with the possibilities of diagnostics and therapy using technical instruments. Emphasis is placed on explaining the principles of this type of therapy and on the use of specific rehabilitation systems in clinical practice.			
F7PMSMZT	Health Technology Management	KZ	5
Infrastructure of hospital and its architecture. Distributions of stuff (engineering distributions – electro-circuits, specifics of the circuits, water, gas distribution, systems of power, sources, drives, compensation, spaces in health care – specifics of elementary spaces, steam distribution). Practical seminars from design of the project. Typical Czech norms and standards Ministry of health CR specifying all requirements for different departments and devices. Barrier-free construction of health institutions.			
F7PMSMZZ	Management of Medical Facilities	Z,ZK	4
The aim of the course is to introduce the basic categories in management such as organizing, decision making, influencing or human resources. The introduction to the crisis management is a part of the course. The accent is put on the differences of the health facilities in comparison with the classical company. The aim of seminars is to connect the theory and practice, so case studies and team activities form the content of seminars.			
F7PMSNIS	Hospital Information Systems	Z,ZK	3
The subject addresses all subsystems of Hospital information systems (HIS) which means information systems of individual health facilities. This information is put in the context of Czech eHealth systems. Not only single components (including examples from practice) are addressed, but also adjacent topics are accented (eHealth systems and its development and perspectives, classification systems, technical standards, security of information systems, basic knowledge of database and intranet systems).			
F7PMSOP	Professional Training	Z	2
Individual practical training completes the practical part of education in the study program Systematic Integration of Processes in Health Care. Students get acquainted with an organization of operations and with basic documentation in a healthcare facility, and train to do selected activities themselves in a practical setting.			
F7PMSOVZ	Operation Research in Healthcare	KZ	3
Art of modeling and elements of decision models, Linear programming, Transportation problem, Integer linear programming, Introduction to graphs theory, Nonlinear programming, Project management (CPM, PERT) System approach and decision making, Decision models, Games theory, Decision making under uncertainty and risk, Decisions with multiple objectives.			
F7PMSPIZ	Work with Information Sources and Research Methodology	KZ	3
The subject introduces the students to the principles of the correct writing of research texts, studies and presentations; also with principles of preparation, execution and processing of biomedical experiments, including ethical issues of biomedical research.			
F7PMSPLPT	Overview of Medical Devices	Z,ZK	4
The course is focused on medical devices and equipment and medical imaging systems. The aim of the course is to present to students basic principles of typical medical devices. A content of the course is prepared so that student can understand topics with medical devices within the further courses. The course covers diagnostic and therapeutic medical technology together with imaging modalities. The student will know basic technical parameters of typical medical devices used commonly in the clinical practice. The course covers categorization of the medical equipments, devices for measurement of blood pressure, measurement of bioelectric heart activity (ECG) - electrocardiograph, monitor of vital signs, measurement of bioelectrical activity of the brain (EEG) – electroencephalograph, measurement of bioelectric activity of the muscles (EMG) – electromyograph, electrosurgical units (ESU), cardio-stimulators, defibrillators, equipment of anesthesia care units, lung ventilators and basic concepts of imaging systems, X-ray, CT, SPECT, PET a US systems. The overview of the methods used in radiotherapy is also a part of the course.			
F7PMSPMF	Overview of Mathematics and Physics	Z,ZK	4
Students will acquire basic knowledge of linear algebra (vectors, matrices, systems of linear equations), and differential and integral calculus of the functions of one variable (limit, continuity, derivation, function path, integrals). They will be able to solve systems of linear equations and apply linear algebra and differential methods and integral calculus to practical examples. In the teaching of physics, emphasis is placed on the context of individual physical disciplines and the application of mathematics. Through lectures and numerical exercises, students will acquire basic knowledge of physics with a focus on medical practice. Upon completion of the course students will be ready to study other technical subjects.			

F7PMSRKD	Development of Communication Skills	KZ	2
The subject is aimed at enhancing the communication and presentation skills and knowledge that are important for a graduate's successful start in employment. An important part of the subject is training in effectively dealing with people. Students will improve in preparing and delivering professional speeches in front of a small group, in writing business letters and emails. They will learn to express criticism and praise and identify their preferred styles of conflict resolution and interpersonal interaction. As potential non-medical staff in hospitals, they will become more familiar with the specifics of communicating with patients.			
F7PMSRKZ	Quality Management in Healthcare	Z,ZK	5
Within the subject of Quality Management in Health care the student acquaints himself with basic concepts such as: product, its characteristics and definition, quality, management, requirement, customer satisfaction, fitness. They will also learn about the relevant standards. The subject is the following topics: •Quality of systems and processes in healthcare. •Procedural proceedings. Lean Management. •Standards of the ISO series. Implementation of the Quality Management System (SMJ) in a healthcare organization, justification of SMU needs for healthcare organizations, process approach. •Quality Policy and Quality Targets, Quality Manual, Quality System Audit, Quality Plan, Objective Evidence, Inspection, Inspection, Examination, Validation Verification, Qualification Process. •Audit: Review, Audit Program, Audit Criteria, Audited Organization, Audit Team, Expert, Health Care Standards. Euromodel 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.			
F7PMSRLZ	Management of Human Resources	Z,ZK	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.			
F7PMSRNZ	Management of Costs in Healthcare	KZ	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.			
F7PMSRP	Annual Project	Z	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 prepared 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.			
F7PMSSDP1	Diploma Thesis Seminar I.	Z	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 contents of the seminar are the presentation of the procedure, the selection of appropriate methods for processing the student's diploma thesis and their ongoing review and discussion. All students will present their research on Student Scientific Conference.			
F7PMSSDP2	Diploma Thesis Seminar II.	Z	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 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.			
F7PMSSZZ	Strategy of Healthcare Facilities	KZ	3
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.			
F7PMSUPS	Application of Psychology and Sociology in Practice	KZ	2
F7PMSVKZP	Selected Chapters from Medical Processes	KZ	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.			
F7PMSVZ1	Public Health, Management of Medical Facilities	ZK	5
F7PMSVZ2	Public Healthcare II.	Z,ZK	4
F7PMSZMS	Fundamentals of Modelling and Simulation	KZ	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.			
F7PMSZSED	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.			
F7PMSZSVS	Healthcare as Part of the Public Sector	ZK	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.			

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 <http://bilakniha.cvut.cz/en/FF.html>

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