

MANAGEMENT AND ECONOMICS IN HEALTHCARE	
GENERAL INFORMATION	
Course teacher	Asst. Prof. Ivan Miškulin, MEE, PhD
Associates	Prof. Maja Miškulin, MD, PhD Nika Pavlović, MBio, PhD Ivan Vukoja, MD, PhD
Study programme	University Graduate Study of Medical Laboratory Diagnostics
Course status	mandatory
Year of study, semester	2 nd year, 3 rd semester
ECTS credits	4
Form of teaching (number of classes)	Lectures: 25; Seminars: 20
Expected number of students attending the course	20
1. COURSE DESCRIPTION	
Course objectives	
Students will acquire knowledge in the field of health management and economics of healthcare as well as on principles of economics and basic macroeconomic terms. Acquiring knowledge on organisation of health protection. They will also acquire knowledge about the organization of health care, about the basics of financing health care and the health system in a broader sense, as well as knowledge about quality in health care and the health services provided.	
Course entry requirements and competencies needed for the course	
Completed courses at the Undergraduate Study Programme of Medical Laboratory Diagnostics or equivalent bachelor's degree (baccalaureate)	
Learning outcomes at study programme level	
2.1, 2.4, 2.5, 2.7	
Expected learning outcomes at course level	
After attending lectures, completing seminars, independent study and passing the exam, students will be able to: <ol style="list-style-type: none"> 1. Understand the health protection system, its structure and functioning today (through European and global trends) and in the near future. 2. Recognise the needs and status of individuals and populations they care for; select intervention methods, organise activities and connect them with the healthcare system. 3. Efficiently use available resources in healthcare and other sectors affecting people's health 4. Understand the health protection system. 5. Demonstrate independence in organization and management, developing strategies and business plans relevant to the profession in psychological aspects. 	
Detailed course content in accordance with class schedule	
Lectures: Management and economics in healthcare - introduction. Management in healthcare. Economics of healthcare. Organisation of health protection system - levels and institutions. Management and economics in healthcare. Principles of economics. Principles of economics - basic macroeconomic terms. Financing the health protection system. Health insurance. Financing the health protection system. Legislation in healthcare. Legal framework of healthcare management. Quality control system in healthcare. Public procurement in healthcare. Standards and norms. Information and communication technology in healthcare (ICT). Cooperation between healthcare system and other sectors. Management in healthcare. Health of the population. Health protection measures. Public health. Healthcare in extraordinary situations. European and international	

dimensions of health protection. Health challenges related to global migrations and vaccination of immigrants. Responsibilities of transboundary health protection systems.

Seminars: Management and economics in healthcare. Health care financing, Health insurance. Legal frameworks of healthcare management. Quality system in healthcare, Public procurement system in healthcare. Standards and norms. Management in the health care system. Health status of the population. Health protection measures. Public health. Health challenges related to global migration and vaccination of immigrants. Responsibilities of cross-border healthcare systems. Healthcare in emergency situations.

Forms of teaching

Lectures, seminars; independent assignments.

Students' responsibilities

Attendance is obligatory throughout all course forms, and the student has to attend all the exams. Student absence of up to 30% (full-time students) or 50% (part-time students) is considered acceptable in each teaching form. Practical work and seminars that were not completed have to be taken in the form of colloquiums. The student has to attend all forms of exams required.

Monitoring students' work (*Connecting learning outcomes, teaching methods and evaluation*)

Teaching activity	ECTS	Learning outcome	Student activity	Evaluation methods	Grade points	
					Min.	Max.
Attending classes	0.25	1-5	Attendance	Attendance records	2	10
Seminar paper	0.75		Seminar paper	Writing and presenting seminar paper	11	20
Final exam	1	1-5	Studying for final exam	Written exam	12	20
	2			Oral exam	25	50
Total	4				50	100

Evaluation of written part of final exam

Percentage of correct answers (%)	Grade points
96.00-100	20
90.00-95.00	18
80.00-89.00	16
70.00-79.00	14
60.00-70.00	12

Evaluation of oral part of final exam:

25 grade points: answer satisfies minimum criteria; 26 – 30 grade points: average answer with clearly identifiable errors; 31 – 35 grade points: very good answer with minor errors; 36 – 40 grade points: excellent answer

Formulating the final grade:

Grade points achieved in classes are combined with points achieved in the final exam. Grading in the ECTS system is absolute grading and represents one's final achievement. Grades are

numerically expressed as follows: A – excellent (5): 80-100 grade points; B – very good (4): 70-79.99 grade points; C – good (3): 60-69.99 grade points; D – sufficient (2): 50-59.99 grade points.

Assigned reading (available in the library and in other media)

Title	Number of copies in the library	Availability in other media
Balen S, Menadžment u zdravstvu, Faculty of Medicine in Osijek, Osijek 2012	28	

Further reading

1. Kovačić L, ed. Organizacija i upravljanje u zdravstvenoj zaštiti, Medicinska naklada, Zagreb, 2003
2. Klepo L, ed. Zbirka zdravstvenih zakona s obrazloženjem, Udruga poslodavaca u zdravstvu, Zagreb, 2003
3. Stjepan Orešković, New Priorities for Health Sector Reform in Central and Eastern Europe; Croatian Medical Journal 1998; 39: 225-233

Quality assurance methods that ensure the acquisition of exit competencies

Anonymous, quantitative, standardised students' opinion survey on the course and teacher's work, carried out by the Quality Assurance Office of the Faculty of Medicine in Osijek.