#### 2021/22

# COURSE CATALOGUE, COMPETENCIES AND LEARNING OUTCOMES

# GRADUATE STUDY PROGRAMME OF RADIOLOGIC TECHNOLOGY

Adopted at 6<sup>th</sup> regular session of the Professional Expert Council held on 22 March 2022

ERSITY OF SPLIT – UNIVERSITY DEPARTMENT OF HEALTH STUDIES

### CONTENTS:

I. COMPETENCIES OF THE GRADUATE UNIVERSITY STUDY PROGRAMME OF	
RADIOLOGIC TECHNOLOGY	.4
II. COURSE CATALOGUE WITH LEARNING OUTCOMES	.8
III. MANDATORY AND ELECTIVE COURSES 1	11
IV. EXAM AND COURSE ENTRY REQUIREMENTS 1	13
V. CURRICULA OF MANDATORY AND ELECTIVE COURSES 1	15
VI. LIST OF COURSES, TEACHERS AND ASSOCIATES	30
VII. CURRICULUM VITAE OF TEACHERS AND ASSOCIATES	32

#### PUBLISHER

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**Course leaders** 

# I. COMPETENCIES OF THE GRADUATE UNIVERSITY STUDY PROGRAMME OF RADIOLOGIC TECHNOLOGY

After completing the graduate study programme of radiologic technology the students will be fully qualified to work independently or in a team. Upon completion of their studies, the students acquire the following competences:

### 1. Knowledge

1.1. **Basic knowledge in biomedical, legal, economic and pedagogical sciences:** apply knowledge of biomedicine, fundamental human rights and deontology, health insurance system, pedagogy and didactics and management of processes and projects in the health system.

1.2. Expert knowledge in health care: manage and lead business processes in the evidence-based radiologic technology, the latest scientific and technological advances and work in science, teaching and lifelong learning programs.

# 2. Personal skills

2.1. **Problem solving and decision making**: demonstrate observational and critical skills in development and implementation of solutions to practical problems in providing diagnostic procedures, independently apply urgent measures for life protection.

2.2. **Communication skills**: provide positive interactions with patients, associates, other health professionals and the general public through oral and written forms of communication (including E-communication).

2.3. **Teamwork skills**: with professional and responsible behaviour make significant contribution to various situations and interprofessional groups, and the work of professional organizations and committees.

### 3. Professional skills

3.1. **Diagnostic procedures in radiology**: Independently work in diagnostic and therapeutic radiologic technology in human and veterinary medicine and other areas of applying the evidence-based methods in radiologic technology. Possess and improve the necessary clinical skills and effective communication with health team members, patients and their families. Plan, manage and handle tasks and processes as well as resources in radiology and radiologic technology. Assess data and statistical information on resources which serve as a basis for long-term planning. Check documentation, confidential information and statistical data related to patients, manage and control quality in radiology.

3.2. **Diagnostic procedures in interventional radiology**: work independently or as a part of a team with a radiologist when performing radiologic diagnostic and dignostic-therapeutic interventional procedures (vascular and non-vascular): analogue and digital diagnostic radiology; conventional contrast imaging methods with interventional procedures, fluoroscopy with targeted radiographic imaging. Use of sophisticated methods based on the latest guidelines and protocols in interventional radiology.

3.3. **Diagnostic procedures in radiotherapy and oncology**: work independently or as a part of a team with a specialist in radiotherapy and oncology based on the latest knowledge and evidence. Ensure, check and carry out the quality control of radiation procedures in cooperation with a responsible person in the team. Inform patients about possible side effects of radiation and their basic care.

### 3. Professional skills

3.4. **Diagnostic procedures in nuclear medicine**: work independently or as a part of a team with a specialist in nuclear medicine. Independently prepare radionuclides and participate in labelling radiopharmaceuticals. Separate single doses (activities) and activity measurements with dose calibrators. Participate in taking a patient's medical history, prepare patients for gamma camera imaging. Operate sophisticated devices with modern methods of the evidence-based nuclear medicine. Inform patients about possible side effects and their basic care.

3.5. **Organizational skills**: plan, organise and provide health care in diagnostic procedures based on acquired knowledge and skills applying principles important for independent and team work, cooperate with other stakeholders in the health sector (public and private), including participation in the practical training of health staff based on acquired knowledge and skills.

3.6. **Information skills**: work independently or as a part of a team for using information technology in radiologic technology. Participating in generating and testing of the hardware and software solutions and monitoring their radiologic implementation Supervise management and maintenance of digital image archives , viewing stations and IT solutions and technologies.

3.7. **Research skills**: explain scientific foundations of the evidence-based diagnostic procedures, including sufficient understanding of the structure, physiological functions and behaviour of the healthy and the sick as well as the relationship between health condition and physical and social environments

# 4. Independence and resposibility

4.1. **Independence**: demonstrate independence in organization of education, leadership and management, development of strategies and business plans relevant to the profession

4.2. **Responsibility**: apply legal and ethical principles of the profession in independent and team work; carry out activities related to continuing professional education and contributes to the development of the profession.

### **II. COURSE CATALOGUE WITH LEARNING OUTCOMES**

Upon completion of the study the Master of Radiologic Technology will be able to:

- 1. Apply knowledge of the evidence-based diagnostic procedures, basics of law and economics, health insurance system, health statistics.
- 2. Independently run and manage radiology workflow from areas of expertise as part of a radiology management team.
- 3. Evaluate diagnostic and therapeutic procedures in radiologic technology according to the adopted protocols and evidence-based professional standards.
- 4. Plan and analyse material, human and other resources and organize work in the organizational unit.
- 5. Prepare devices, equipment, accessories and materials (including emergency equipment) for the implementation of diagnostic and therapeutic procedures according to the professional standards and protocols.
- 6. Apply IT technologies in diagnostic radiology and interventional radiology based on professional standards and protocols.
- 7. Perform the ultrasound examinations, computed tomography (CT), digital subtraction angiography (DSA), magnetic resonance imaging (MR), functional magnetic resonance imaging (fMRI) and PET-CT based on the latest guidelines and protocols.
- 8. Apply and perform imaging and therapeutic procedures in radiotherapy based on professional standards and protocols.
- 9. Research and apply the latest methods of radiologic technology in forensics and other areas beyond diagnostic and intervention technology based on the latest guidelines and protocols.
- 10. Implement and coordinate procedures for ionizing radiation protection based on positive legal regulations and secondary legislation.
- 11. Dispose of medical waste materials based on positive legal regulations and secondary legislation.
- 12. Apply methods of management, verification and quality control in the health system.
- 13. Understand and apply teaching in the educational institutions, educate health professionals, patients and their families.
- 14. Act according to the principles of professional ethics and deontology and positive legal regulations and secondary legislation.
- 15. Use information technology and databases to improve professional knowledge and skills.

#### I and II SEMESTER – LEARNING OUTCOMES AT THE STUDY LEVEL

CODE	COURCE	DRT														
CODE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ZSZ701	Health Law	+													+	
ZSZ702	Ethics in Health Care														+	
ZSZ703	Patient' Right	+													+	
ZSZ704	Health insurance systems	+	+										+			
ZSZ705	Information systems in health care		+				+						+			+
ZSZ706	Human Resources Management	+	+		÷								+			
ZSZ707	Health Care Management	+	+		+								+			
ZSZ708	Economics in health care	+	+		+								+		+	
ZSZ709	Quality control in healthcare		+		+								+		+	
ZSZ710	Pedagogy	+												+		
ZSZ711	Didactics and teaching methods	+												+		
ZSZ712	Health statistics	+												+		+
ZSZ713	Scientific research paper					+								+		+
ZSR701	IT technologies in radiologic technology			+		+	+	+								+
ZSR702	Interventional and angiographic evidence- based methods			+		+		+			+	+				+

#### III and IV SEMESTER – LEARNING OUTCOMES AT THE STUDY LEVEL

		DRT														
CODE	COURSE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Methods and technology															
ZSR703	in evidence-based nuclear	+		+		+	+	+			+	+				+
	medicine															
760704	Evidence-based MRI															
ZSR704	methods and technology	+		+		+	+	+								+
760705	Evidence-based CT															
ZSR705	methods and technology	+		+		+	+	+				+				+
	Methods and technology in															)
ZSR706	evidence-based oncology	+		+		+	+	+	+		+	+				+
	and radiotherapy															
750707	Evidence-based digital															
Z5R707	radiographic systems*	+		+		+	+	+				+				+
	Computerised evidence-				7											
ZSR708	based radiological	+		+		+	+	+	+			+				+
	methods*															
	Integrated devices in															
ZSR709	evidence-based	+		+		+	+	+	+		+	+				+
	diagnostics*															
70740	Patient position in clinical															
ZSR/10	trials*	+		+		+										+
	Quality control in															
ZSR/11	radiological technology*	+		+		+	+	+	+		+		+			+
760710	Security of medical data and															
ZSR/12	information systems*	+		+		+	+		+							+
ZSR713	Forensic radiography	+				+	+	+		+						+
70 71 4	Applied radiography in															
Z5K/14	other areas*	+				+	+	+		+						+
ZSR715	Master's thesis	+					+							+		+

### **III. MANDATORY AND ELECTIVE COURSES**

		LIST OF COURSES					
Year of study	/: 1						
Semester: I	. i II.						
STATUS	CODE	COURSE	(	ГСТС			
STATUS	CODE	COURSE	L	S	Е	F	ECIS
	ZSZ701	Health law	35	5	5	0	4
	ZSZ702	Ethics in health care	20	20	0	0	4
	ZSZ703	Patient's right	35	5	5	0	4
	ZSZ704	Health insurance systems	30	5	0	0	4
	ZSZ705	Information systems in health care	10	15	10	0	4
	ZSZ706	Human Resources Management	20	5	10	0	4
	ZSZ707	Basics of management in health care	20	5	10	0	4
	ZSZ708	Economics in health care	20	20	0	0	4
Mandator	ZSZ709	Quality control in healthcare	20	15	0	0	4
У	ZSZ710	Pedagogy	20	20	0	0	4
	ZSZ711	Didactics and teaching methods	20	20	0	0	4
	ZSZ712	Health statistics	5	10	10	0	3
	ZSZ713	Scientific research paper	5	10	15	0	3
	ZSR701	IT technologies in radiologic technology	15	15	30	0	5
	ZSR702	Interventional and angiographic evidence- based methods	10	10	30	0	5
	TOTAL		285	180	125	0	60

Кеу

- L lectures
- S seminars
- E exercises

F – field practice

		LIST OF COURSES						
Year of study	<i>ı</i> : 2.							
Semester: II	ll i IV							
STATUS CODE COURSE			(	5.070				
STATUS	CODE	COURSE	L	L S E F				
	ZSR703	Methods and technology in evidence-based nuclear medicine	20	20	30	0	10	
	ZSR704	Evidence-based MRI methods and technology	20	20	30	0	10	
	ZSR705	Evidence-based CT methods and technology	20	20	30	0	10	
	ZSR706	Methods and technology in evidence-based oncology and radiotherapy	20	20	30	0	10	
	ZSR707	Evidence-based digital radiographic systems*	15	15	30	0	5	
	ZSR708	Computerised evidence-based radiological methods*	10	10	30	0	5	
Mandator y *Elective	ZSR709	Integrated devices in evidence-based diagnostics*	10	10	30	0	5	
	ZSR710	Patient position in clinical trials*	10	10	30	0	5	
	ZSR711	Quality control in radiological technology*	10	10	30	0	5	
	ZSR712	Security of medical data and information systems*	10	10	30	0	5	
	ZSR713	Forensic radiography	15	15	30	0	5	
	ZSR714	Applied radiography in other fields	15	15	30	0	5	
	ZSR715	Master's thesis	0	335	0	0	15	
	TOTAL		175	510	360	0	95	

Кеу

L – lectures

S – seminars

E – exercises

F – field practice

## IV. EXAM AND COURSE ENTRY REQUIREMENTS

		COURSE ENTRY	
CODE	COURSE	REQUIREMENTS	EXAM ENTRY REQUIREMENTS
757701		_	In accordance with the Ordinance on the
232701	Health law	-	Study and System of Studying
		-	In accordance with the Ordinance on the
252702	Ethics in health care		Study and System of Studying
757702	Patient's right	-	In accordance with the Ordinance on the
232705			Study and System of Studying
757704	Health insurance systems	-	In accordance with the Ordinance on the
252704			Study and System of Studying
757705	Information systems in	-	In accordance with the Ordinance on the
	health care		Study and System of Studying
ZSZ706	Human Resources	-	In accordance with the Ordinance on the
	Management		Study and System of Studying
ZSZ707	Basics of management in	-	In accordance with the Ordinance on the
	health care		Study and System of Studying
ZSZ708	Economics in health care	-	In accordance with the Ordinance on the
			Study and System of Studying
ZSZ709	Quality control in	-	In accordance with the Ordinance on the
	healthcare		Study and System of Studying
ZSZ710		-	In accordance with the Ordinance on the
	Pedagogy		Study and System of Studying
757711	Didactics and teaching	-	In accordance with the Ordinance on the
	methods		Study and System of Studying
ZSZ712		-	In accordance with the Ordinance on the
	Health statistics		Study and System of Studying
757713	Scientific research paper	-	In accordance with the Ordinance on the
			Study and System of Studying
75R701	IT technologies in	-	In accordance with the Ordinance on the
2010/01	radiologic technology		Study and System of Studying
	Interventional and	-	In accordance with the Ordinance on the
ZSR702	angiographic evidence-		Study and System of Studying
	based methods		
	Methods and technology	-	In accordance with the Ordinance on the
ZSR703	in evidence-based nuclear		Study and System of Studying
	medicine		
758701	Evidence-based MRI	-	In accordance with the Ordinance on the
2517/04	methods and technology		Study and System of Studying
758705	Evidence-based CT	-	In accordance with the Ordinance on the
231703	methods and technology		Study and System of Studying

	Methods and technology	-	In accordance with the Ordinance on the
750706	in evidence-based		Study and System of Studying
258700	oncology and		
	radiotherapy		
750707	Evidence-based digital	-	In accordance with the Ordinance on the
238707	radiographic systems*		Study and System of Studying
	Computerised evidence-	-	In accordance with the Ordinance on the
ZSR708	based radiological		Study and System of Studying
	methods*		
	Integrated devices in	-	In accordance with the Ordinance on the
ZSR709	evidence-based		Study and System of Studying
	diagnostics*		
750710	Patient position in clinical	-	In accordance with the Ordinance on the
231710	trials*		Study and System of Studying
750711	Quality control in	-	In accordance with the Ordinance on the
2517711	radiological technology*		Study and System of Studying
750710	Security of medical data	-	In accordance with the Ordinance on the
238712	and information systems*		Study and System of Studying
750712	Forensic radiography	-	In accordance with the Ordinance on the
238713			Study and System of Studying
750711	Applied radiography in	-	In accordance with the Ordinance on the
231714	other fields*		Study and System of Studying
750715	Master's thesis	-	In accordance with the Ordinance on the
231713			Study and System of Studying

# **V. CURRICULA OF MANDATORY AND ELECTIVE COURSES**

NAME OF THE COURSE     Health Care Law       Code     ZSZ701													
Code	ZSZ701		Year of study	1.									
Course teacher	Full prof PhD	fessor, Jozo Čizmić,	Credits (ECTS)	4									
	Assistan	t professor Nina	Type of instruction	L	S	Е	Т						
Associate teachers	Mišić Ra	Year of study       1.         offessor, Jozo Čizmić,       Credits (ECTS)       4         nt professor Nina adanović, PhD       Type of instruction (number of hours)       L       S       E       T         ory       Percentage of application of e-learning       20%       20%         COURSE DESCRIPTION         uirements											
Status of the course	Obligato	bligatory Percentage of application of e-learning COURSE DESCRIPTION											
		COURS	E DESCRIPTION										
Course enrolment requirements and entry competences required for the course	No requ	irements		2									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>en</li> <li>fro</li> <li>dis</li> <li>be</li> <li>exi</li> <li>act</li> <li>an</li> <li>exi</li> <li>lial</li> </ul>	umpletion of the cours umerate basic criteria or domestic and forein cuss the issues of lega tween doctors – other plain the rights and ob tivities and evaluation alyze the work and or isting codes of ethics a bility.	e, students will be able to: of the legal responsibility of gn legislation, including lega Il liability in cases of teamwor health professionals – patie ligations of healthcare profe of healthcare activities; ganization of professional ch and deontology as well as dis	healthca l practice ork regarc ents; essionals ambers in sciplinary,	ire profes ; ling the r in perform n accorda , civil and	elationals a elations ming thei ance with criminal	rising						
	L1 L2	<ul> <li>1/ The concept an other scientific di care activities.</li> <li>2/ The concept he health care meas organizational for</li> </ul>	d content of health care righ sciplines and principles of p ealthcare protection and soci sures, the level of health care	its, relation performin ial care fo care, con	onship to og health or health, tent and	5							
Course content broken down in detail by weekly class schedule (syllabus)L33 / The rights and obligations of health workers in performing their activities (Provision and withholding of assistance; Mutual relations between health professionals and patients; Appeal of conscience; Confidentiality; Reporting obligation; Management and filing of medical records; Selection of another physician; Search of doctors' offices; Health workers as witnesses and experts).5L44/ Ensuring quality of health services (Professional training; Supervision of the work of health professionals; professional2													
	L5	5/ Chambers). 5/ Chamber of h chamber; Except Chamber; Public a Bodies of the Char the Chamber Coop	ealth workers (Mandatory as ions to the mandatory as uthority of the Chamber; Cha nber; Supervision of the wor peration with the Ministry of	associatio ssociatior amber's a k of the C f Health a	on in the in the activities; Chamber; nd other	2							

		bodies; In Statute; F members Chamber)	form inan nip	ing the Chamb cing of the Cl fee and oth	er; Ge hambe er fir	eneral acts er; Mutual nancial ob	of the aid fur ligation	Chambei nd; Payir s of th	r - ng ne			
	L6	6/ Discipli violations bodies; D Proper ap liability).	nary ; Ma iscip plica crimi	responsibility on njor and minor linary measure ation of the law nal and civil lial	of heal r disci es; Fin w; Sta bility.	Ith profession plinary offore; Disciplin tute of Lim	onals (d ense; d nary pro nitation	lisciplina lisciplina oceeding s; Offens	ry ry s; se	2		
	L7	7 / Code of medical ethics and deontology and other codes of medical professionals.							2			
	L8	Criminal liability of health workers, review of incrimination according to the Criminal Code							6			
	L9	Liability f Obligation	or c is	lamage in he	althca	re, review	of the	e Law o	on	6		
	S1	Case stud	y							5		
	E1	Case stud	y							5		
Format of instruction	X lectures X seminars a X exercises and on line partial e-l field worl	ures       independent assignments         inars and workshops       independent assignments         rcises       induitimedia         on line in entirety       independent assignments         tial e-learning       work with mentor         d work       (other)										
Student responsibilities	Regular clas Active partic Password fo	egular class attendance. ctive participation in the teaching process. assword for AAI EduHr electronic identity for access to e - learning										
Screening student work (name the	Class attendance	1		Research			Practica	l trainin	g			
proportion of ECTS credits for each	Experimenta work	al		Report								
activity so that the total number of ECTS	Essay			Seminar essa	y		(	Other)				
credits is equal to the	Tests			Oral exam			(	Other)				
ECTS value of the course)	Written exa	m 3		Project			(	Other)				
	Verification	n indicato	rs			Success (points)		Rating	shar	e (%)		
	Written ex	am				20			10	00		
	Total	00										
evaluating student				RATIO OF SUC	CESS /	AND EVALU	ATION					
work in class and at	Achieved s	success	C	riterion				rating				
the final exam	percentage	e (%)		o oto minimum	oritor	ia			ffici	ant (2)		
	70-7	79,9 79 9	11		criter	ld		su		ent (2)		
	80-8	39.9	al	bove average s	uccess	3		ve	rv ga	od (4)		
	90-1	100	0	utstanding suc	cess	-		ex	celle	ent (5)		
Required literature (available in the		90-100 outstanding success excellent ( Title Copies in the library other										

library and via other	Jozo Čizmić, Ljubica Žunić, OSNOVE ZDRAVSTVENOG 4 /
media)	PRAVA, 2014., Sveučilište u Splitu
Optional literature (at	<ol> <li>Čizmić, J., Medicinsko pravo – pojam, izvori, načela, Zbornik radova s</li></ol>
the time of	Poslijediplomskog tečaja stalnog medicinskog usavršavanja I. kategorije, Split, 2007
submission of study	11-36 (predavanje, domaća recenzija, objavljeni rad, znanstveni). <li>Žunić, Lj., Mihanović, F,. Značaj poznavanja medicinskog prava za zdravstvene</li>
programme proposal)	radnike. Radiološki vjesnik 4/2009. str. 4-10. <li>Law on Health Care, (Narodne novine no. 100/18, 125/19, 147/20)</li> <li>Law on Patients' Rights (Narodne novine, no. 169/04, 37/08)</li> <li>Law on Midwifery, (Narodne novine, no. 120/08, 145/10)</li> <li>Law on Medical Practice (Narodne novine, no. 87/09)</li> <li>Law on Physiotherapy (Narodne novine, no. 120/08)</li>
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>
Other (as the proposer wishes to add)	

Health Care Ethics       7\$7702													
ZSZ702		Year of study	1.										
Assistant Ćurković,	professor Ana PhD	Credits (ECTS)	4										
Assistant Jeličić, Pł	professor Ana D	Type of instruction (number of hours)	L 20	S 20	E T 0 0 eeds in practice olvement in the 2,1 2 1,2 1,2 1,2								
Obligator	γ	Percentage of application of e-learning	20%										
	COURS	E DESCRIPTION											
No requi	rements												
After con	npleted the course, the enumerate basic know explain basic knowled develop autonomy in explain to the patient treatment explain the philosoph explain legal and ethi integrate legal and ethe analyze and participa	he student will be able to: wledge on medical ethics dge on bioethics, causes of it decision making and care al t all necessary information to by of the profession cal codes of the profession thical codes of the profession te in ethical judgment.	ts origin a bout patio p increase n in the w	nd its ne ent e his invo rork	eds in pr lvement	actice in the							
L,S L,S L,S L,S L,S L,S L,S L,S L,S L,S	Medical ethics (o country); origin an on bioethics; Eur bioethics in Cro interdisciplinarity; The philosophy of ethics (nursing eth Main ethical theo ethics of duty, util Principlism in hea (nursing) profession Moral excellence of codes of different The patient as act Reorientational m complete human Ethical anlysis and Ethical models of Intuitive and critic Bioethics in nurism Integrative model	rigin, development in the m nd development of bioethic ropean roots of bioethics; patia; principlism; ethical pluriperspectivism in medic nursing and healthcare profe- nics and its historical develop pries in medical activities, itarian ethics and ethics of c of the are, identity and integ on and knowledge and skills/ of healthcare professionals i professions. ive participant in the treatm nodel of health care – focu- being. I ethical decision-making in h decision.making. cal thinking and action in pra- ng and other professions. – interdisciplinarity and plue rofessional (regional) ethic	world an s; differe develop pluralis al practic essions; (i oment. ethics o are. rity of he <u>techne</u> , n practice ent proce s on per- nealth car	d in our nt views ment of sm and regional) f virtue, ealthcare e; ethical ess. son as a re. tivism. ealthcare	2, 1, 2, 1, 2, 1, 2, 1, 2, 1, 2, 2, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1       2       1       2       1       2       1       2       1       2       1       2       1       2							
	ZSZ 702 Assistant Ćurković, Assistant Jeličić, Pr Obligator Obligator After con E,S L,S L,S L,S L,S L,S L,S L,S L,S L,S L	Health Care Ethics         ZSZ702         Assistant professor Ana	Health Care Ethics           ZSZ702         Year of study           Assistant professor Ana Jeličić, PhD         Credits (ECTS)           Assistant professor Ana Jeličić, PhD         Type of instruction (number of hours)           Obligatory         Percentage of application of e-learning           COURSE DESCRIPTION           No requirements           After completed the course, the student will be able to:           •         enumerate basic knowledge on medical ethics           •         explain basic knowledge on bioethics, causes of it           •         develop autonomy in decision making and care al           •         explain to the patient all necessary information to treatment           •         explain the philosophy of the profession           •         explain legal and ethical codes of the profession           •         analyze and participate in ethical judgment.           L,S         Medical ethics (origin, development of bioethics; bioethics; European roots of bioethics; bioethics (nursing ethics and its historical develop           L,S         Main ethical theories in medical activities, ethics of duty, utilitarian ethics and ethics of c           L,S         Min ethical theories in medical activities, ethics of different professions.           L,S         Moral excellence of healthcare professionals i codes of different professions.	Health Care Ethics           ZSZ702         Year of study         1.           Assistant professor Ana Curković, PhD         Credits (ECTS)         4           Assistant professor Ana Jeličić, PhD         Type of instruction (number of hours)         L           Obligatory         Percentage of application of e-learning         20%           Obligatory         Percentage of application of e-learning         20%           No requirements          20%           After completed the course, the student will be able to:            •         enumerate basic knowledge on medical ethics            •         explain basic knowledge on bioethics, causes of its origin a develop autonomy in decision making and care about pati            •         explain to the patient all necessary information to increase treatment            •         explain legal and ethical codes of the profession            •         integrate legal and ethical codes of the profession in the w analyze and participate in ethical judgment.         L,S           L,S         Medical ethics (origin, development of bioethics; differe on bioethics; European roots of bioethics; develop bioethics in Croatia' principlism; ethical pluralis interdisciplinarity; pluriperspectivism in medical practic of ethics (nursing ethics and its historical development.           L,S         Main ethical theories in medical activ	Health Care Ethics           ZSZ702         Year of study         1.           Assistant professor Ana Curković, PhD         Credits (ECTS)         4           Assistant professor Ana Jeličić, PhD         Type of instruction (number of hours)         L         5           Obligatory         Percentage of application of e-learning         20%         20           COURSE DESCRIPTION         COURSE DESCRIPTION         8         8           After completed the course, the student will be able to:         •         •           •         enumerate basic knowledge on medical ethics         •         explain basic knowledge on bioethics, causes of its origin and its nee           •         develop autonomy in decision making and care about patient         •         explain to the patient all necessary information to increase his invo treatment           •         explain to the patient all necessary information to increase his invo treatment         •         explain legal and ethical codes of the profession           •         intergrate legal and ethical codes of the profession in the work         •         analyze and participate in ethical judgment.           L,S         Medical ethics (origin, development of bioethics; different views on bioethics; furopean roots of bioethics; development of bioethics in Croatia; principlism; ethical pluralism and interdisciplismin health care, identity and integrity of healthcare (nursing) profession and knowledge and skills/tech	Health Care Ethics           ZSZ702         Year of study         1           Assistant professor Ana Jeličić, PhD         Credits (ECTS)         4           Assistant professor Ana Jeličić, PhD         Type of instruction (number of hours)         2         2         0           Obligatory         Percentage of application of e-learning         20%           COURSE DESCRIPTION           No requirements           After completed the course, the student will be able to:           • explain basic knowledge on medical ethics           • explain basic knowledge on medical ethics           • explain to the patient all necessary information to increase his involvement treatment           • explain the philosophy of the profession           • explain the philosophy of the profession           • explain legal and ethical codes of the profession in the work           • analyze and participate in ethical judgment.           L,S         Medical ethics (origin, development of bioethics; different views on bioethics; in Croatia; principlism; ethical pluralism and interdisciplinarity; pluriperspectivism in medical practice.         1, S							

	r											
		heal	thcare	prof	essionals; ide	entity	and integ	grity of	healthca	re		
		prof	essions	; hea	althcare profe	ssion	s – science	and skil	ls.			
	L,S	Ethi	cal ana	alysis	and ethica	l dec	ision-mak	ing of	healthca	re	2,1	
		prof	essiona	ıls.								
	L,S	Intu	itive an	d cri	tical thinking a	and a	cting in pro	ofessiona	al practic	e.	2,1	
	⊠ lectures					□ in/	donondont	assignm	onts			
	🛛 seminar	s and	worksh	nops			utimodia	assignin	ients			
Format of instruction	□ exercise	S										
FORMAL OF INSTRUCTION	🗆 on lin	<i>e</i> in e	ntirety				oratory					
	□ partial e	-learr	ning				ork with m	entor				
	🗆 field wo	rk					(other	.)				
Churchauch	Regular cla	ss att	endanc	æ.	L							
Student	Active part	icipat	ion in t	he te	eaching proce	ss.						
responsibilities	Password f	or AA	l EduHı	r eleo	ctronic identit	y for	access to e	e - learni	ng			
Screening student	Class		1.0		Posoarch			Dractics	Itrainin	T		
work (name the	attendance	ć	1,0		Research			Practica	n traininį	3		
proportion of ECTS	Experimen	tal			Report							
credits for each	work				Report							
activity so that the	Essay				Seminar essay	/		(	Other)			
credits is equal to the	Tests				Oral exam			(	Other)			
ECTS value of the course)	Written ex	am	3,0		Project			(	Other)			
,	Verification indicators Success								Rating	share	» (%)	
	(points)								1141116	Jinar	. (/0)	
	Written exam 30									10	0	
	Total 30									10	0	
Grading and	50 100											
evaluating student	RATIO OF SUCCESS AND EVALUATION											
work in class and at	Achieved success Criterion rating											
the final exam	percentag	ge (%)										
	60·	-69,9		me	ets minimum	ria	suffici			nt (2)		
	70-	-79,9		ave	erage success					good	(3)	
	80	-89,9		abo	ove average si	ucces	S		vei	ry go	od (4)	
	90	-100		ou	tstanding succ	cess		_	ex	celle	nt (5)	
				_				Num	ber of	Ava	ailability via	
				Т	itle			copie	s in the	ot	her media	
					<u>cl.:</u>		1 1 1.1.	lib	rary			
Required literature	Kesina I. E	cika u ndoud	zdravs	tvu.	Skripta za di	loms	ke studije	·				
(available in the	(lecture ha	naou	is for gr	auu	ate study prog	granni	ne). 40%					
media)	lukić L Skri	nta 72	nrodd	inlor	nske i dinlom	sko zd	ravstvono					
inculuy	studije (ch	antero	; 7-12)	(lect	ure handouts	for	llavstverie					
	undergrad	uate a	nd grad	duat	e study progra	amme	e). 40%					
	Bagatin J. E	tika u	zdravs	stvu.	(course mate	rials).	20%	1				
	LJ.Zergolle	m-Ču	pak, Bic	oetik	a i biomedicin	a, Pei	rgamena, Z	Zagreb, 2	006; R.L.	Luca	s, Bioetika za	
Optional literature (at	svakoga, V	akoga, Verbum, Split, 2007; N.Gosić, Bioetika in vivo, Pergamena. Zagreb. 2005: N.Gosić.										
the time of	Bioetička edukacija, Pergamena, Zagreb 2005; A. Frković, Medicina i bioetika, Pergamena,											
submission of study	Zagreb, 2010; L. Tomašević, Moralno-teološki aspekt palijativne skrbi i hospicijskog pokreta											
programme proposal)	u: I. ŠEGOT	A (ur	edio), B	lioet	ika i palijativn	a meo	dicina. VI. I	Bioetički	okrugli s	tol (I	BOS6) Rijeka,	
	u: I. ŠEGOTA (uredio), Bioetika i palijativna medicina. VI. Bioetički okrugli stol (BOS6) Rijeka,											

	str. 103-111; L. Tomašević, Smrt i njezino (ne)dostojanstvo, u: V.VALJAN (ur.), Integrativna bioetika i izazovi suvremene civilizacije, Zbornik radova Prvog međunarodnog bioetičkog simpozija u Bosni i Hercegovini (Sarajevo, 32.III1.IV. 2006.), Bioetičko društvo u BIH, Sarajevo, 2007: str.259-271.
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	E Patient's Right									
Code	ZSZ703		Year of study	1.						
Course teacher	Full prof PhD	essor, Jozo Čizmić,	Credits (ECTS)	4						
Associate teachers	Assistan Mišić Ra	t professor Nina danović, PhD	Type of instruction (number of hours)	L	S	E	Т			
Status of the course	Obligato	ry	Percentage of application	20%	5	5	0			
		COURS								
Course enrolment		000110								
requirements and entry competences required for the course	No requ	irements								
	Upon co	mpletion of the cours	e, students will be able to:							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	• • •	explain specialist, the defend patient's right identify cases of viola explain to patients th international convent	eoretical and practical knowl ts; ition of patient's rights; eir rights that are guarantee tions and declarations.	edge abou ed by Croa	ut the pa Itian regu	tient's riu Ilations,	ghts;			
	L1	1/ The concept o	f the patient's rights,			4				
	L2	2/ Legal sources	national and international			2				
		(Law on the Protection of Patients' Rights, the Convention on Human Rights and Biomedicine, the Convention on the Rights of the Child, Declaration on the Rights of Patients in Europe),								
	L3	3/ Principles of humanity and ava	3/ Principles of protection of patients' rights (principles of humanity and availability),							
	L4	4 / The right to co	4 / The right to co-decision,							
	L5	5/ The right to in	1							
	L6	6/ The right to se	6/ The right to second opinion,,							
	L7	7/ Refusing to re-	7/ Refusing to receive information,							
Course content	L8	8/ Accepting and	8/ Accepting and refusing diagnostic or treatment procedure,							
broken down in detail	L9	9/ Protection of p	patient who is not able to give	ve his con	sent,	1				
by weekly class	L10	10/ Pr scientific research	otection of patient who i ,	s the su	bject of	1				
schedule (synabus)	L11	11/ Interventions	on the human genome			1				
	L12	12/ The right of a	ccess to medical records			2				
	L13	13/ The right to c	onfidentiality (professional s	secret),		2				
	L14	14/ The right to m	naintain personal contacts			1				
	L15	15/ The right to v	oluntary abandonment of he	ealth facil	ities,	1				
	L16	16/ The right to p	rivacy,			1				
	L17	17/ The right to c	ompensation of damage,,			2				
	L18	18/ The Commissi	ion for Protection of Patient	ts' Rights	regional	1				
		government and t	the Ministry of Health (stru	cture and	area of					
		activities, procedu	ire in front of the committee	e, penaltie	es),					
	L19	19/ Protection of	patients' right associations,			1				
	L20	20/ Realization o	t patients' individual rights,			1				

	L21	21/ Cor	npulso	ory hospitalizat	ion.					2
	L22	22/ The pregnane Croatia	crimin cy, le	al offense of in gal aspects o	nfantio f euth	cide, unlaw nanasia in	ful term the Re	nination epublic	of of	4
	S1	1/ Case s	studv		u					5
	E1 2	2/ Case s	study							5
	X lectures X seminars a	nd work	shops		□ inc □ mi	lependent : ultimedia	assignm	ients		
Format of instruction	X exercises	in ontire	.+		🗆 laboratory					
		earning	ety		□wc	ork with me	entor	ntor		
	□ partial e-learning □ field work □ (other)									
	Regular class	s attenda	ance							
Student responsibilities	Active partic Password fo	r AAI Edu	n the uHr ele	teaching proce ectronic identit	ess. ty for a	access to e	- learnii	ng		
Screening student work (name the	Class attendance	1,0		Research			Practica	l trainin	g	
proportion of ECTS credits for each	Experimenta work	al		Report						
activity so that the total number of ECTS	Essay			Seminar essa	y		(	Other)		
credits is equal to the ECTS value of the	Tests			Oral exam			(	Other)		
course)	Written exar	m 3,0		Project			(	Other)		
	Verificatior		Success (points)		Rating	share	e (%)			
	Written exa			20			10	0		
	Total 20 10							0		
Grading and	DATIO OF SUCCESS AND EVALUATION									
work in class and at	Achieved success Criterion rating									
the final exam	percentage	e (%)		chtenon			i u ting			
	60-6	i9,9	m	meets minimum criteria				su	fficie	nt (2)
	70-7	'9,9	a١	verage success					good	(3)
	80-8	9,9	al	oove average s	uccess	5		ve	ry go	od (4)
	90-1	L00	0	utstanding suc	cess		r	ex	celle	nt (5)
Required literature (available in the library and via other				Title			Num copies lib	ber of s in the rary	Ava ot	ailability via ther media
media)	Jozo Čizmić PRAVA, 20	, Ljubic 014., Sve	a Žur eučilišt	nić, OSNOVE e u Splitu	ZDRA	/STVENOG		4		/
	1. Čizr	mić, J., I	Pravo	pacijenata na	obav	iještenost,	s pose	bnim os	svrto	m na zaštitu
Optional literature (at	tajr	nosti po	dataka	o zdravstver	nom s	tanju pacij	enta. Z	bornik F	Pravr	og fakulteta
the time of	Sve	ucilista u	I KIJEC	1. 29 (2008) , 1	; 227-2 dne na	275 (Clanak	, znanst	veni) 25/10-1	ר/ ד⊿	0)
submission of study	2. LdW	v on Pati	ent's F	Rights (Narodr	ine novi	ine. no 160	)/10,10,1 3/04 37	20/19, 1 /08)	.+//2	U)
programme proposal)	4. Law	v on Mid	wiferv	(Narodne nov	ine, no	o. 120/08. 1	145/10)	,,		
	5. Law	on Nur	sing (N	larodne novine	e, no. 1	121/03, 117	7/08, 57	//11)		

	<ol> <li>Law on Medical Practice (Narodne novine, no. 87/09)</li> <li>Law on Physiotherapy (Narodne novine, no. 120/08)</li> </ol>
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	Health Insurance Systems							
Code	ZSZ704		Year of study	1.				
Course teacher	Full prof PhD	fessor Mirko Klarić,	Credits (ECTS)	4				
	Assistan	it professor Nada	Type of instruction	L	S	Е	Т	
Associate teachers	Tomaso	vić Mrčela, MD, PhD	(number of hours)	30	5	0	0	
	Obligato	ory	Percentage of application	20%				
Status of the course			of e-learning					
	ſ	COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the course	No requ	irements						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cc – exp – com – com – ana – exp	ompletion of the cour lain the financing of the ment on the financin ment on the supplem lyze additional health lain the financing of h	se students will be able to: ne compulsory health insurar g of the voluntary health insu nentary health insurance; insurance, private health ins ealthcare facilities in the net	nce; urance; urance; work of p	ublic hea	Ith care s	service.	
Course content broken down in detail by weekly class schedule (syllabus)	The crisis of Formal function health of Croatiar health of Croatiar health of Systems Health i health s through direct p insurand paymen states an <b>3.</b> His funding. concept Contribu Contribu health i contribu	e rights of the individu the social state. Public organizational struct ing of the system. Sys care protection. Tertia in Institute of Public H are in the Republic of <b>2. Financing models</b> finition and functions of health systems of insurance model (Bist systems model. Tax-f contributions. Volur bayment of health ca ce, the participation of t of health services). nd other countries. <b>Financing of the heal</b> t torical development . Contributions as an it of contributions. Ty utions for pension insu- ution based on compu- utions on salary. Cont- insurance in the eve- ution for the use of heal	al and the change of the stat administration reform. Healt cures. Primary health care tem integration. Rational use ary health care protection. I lealth - the structure and fu Croatia. <b>of health insurance</b> s of the health care system organisations. National heal marck model). Liberal marke inanced health care system intary health insurance. Pers areprotection (direct payme f citizens in paying a portion of Comparative presentation of the care system in the Republion of health care system finance pes of compulsory contribu- intance based on generational alsory individual capitalized sa- tributions for basic health in the f accidents at work an ealthcare abroad. Employment	e charact th organi: protectic of availal nformal of nctioning . Method th mode et model . The he onal med ent for s of health of f health lic of Croa cing. Sou e pension tions. Co solidarity avings - th surance. d occupa nt insurar	er. Globa zation an on. More organizat g. The ne ds of fina l. (Bever (Americ alth syst dical savi ervices n care costs systems atia rces of f and heal ntributio / - the firs ne secon Special d nce. Spec	ilization a d manage cost-ef ities. Sec ional stru- twork of ancing of idgean m an mode tem is fir ings acco not cover s and ado of EU m inancing. Ith system of EU m inancing. St pensior d pensior contribut iseases.	and the ement. fective ondary ucture. public f three nodel). I). The hanced bunt. A red by ditional ember Public ns. The salary. n pillar. n pillar. ion for Special ibution	

	compulsory hea insurance. Contr of contributions compulsory con doctors. Taxes f Capital investme participation fee Private financing - expenditure or savings, premiu voluntary pensio insurance. Dona bonds and pub Ministry of Healt of the financing in the Republic voluntary health private health in network).	Ith insur ibution r. Croatiar tribution rom the ents. Inte- ents. Inte- ents. Inte- ents. Inte- ms for son insura- tions. So lic-privat ch and So of the hea of Croa n insurar nsurance,	ance. The base ates for compuls in Institute for He is and taxes on state budget and erest. Dividends. ads from voluntan from employme supplementary a noce. The rights purces of public- e partnerships. cial Welfare and alth system. The tia (financing of noce, supplement , financing of he	for ory ir alth I incod d the Direc ry ins ent. F and resul priva The the C direc direc f the al he ealth	calculation nsurance. C nsurance. F me from e budgets o ct payment urance. Con Premiums f private hea ting from s te financin relationshi croatian Inst ctions of ref compulso ealth insura care institu	of cont control of Practical employme f local ar is of pati ntributio for life in alth insu suppleme g of the p betwe titute for forms of t ry healt ance, add utions in	ributions for calculation examples of ent and oth nd regional ents (admin uns for volun surance wit arance and entary and health syste en the Gov Health Insu the public hea the public	or compulsory and collection calculation of her income of governments. istrative fees, tary insurance h elements of premiums of private health em. Municipal vernment, the rance in terms ealth financing financing of Ith insurance, health service
Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and workshops</li> <li>□ exercises</li> <li>□ on line in entirety</li> <li>□ partial e-learning</li> <li>□ field work</li> </ul>				independent assignments multimedia laboratory work with mentor (other)			
Student responsibilities	Regular class attendance. Active participation in the teaching process. Password for AAI EduHr electronic identity for access to e - learning							
Screening student	Class attendance		Research			Practica	l training	
proportion of ECTS credits for each	Experimental work		Report					
activity so that the total number of ECTS	Essay		Seminar essay	y 2.0	)	(0	Other)	
credits is equal to the	Tests		Oral exam			()	Other)	
ECTS value of the course)	Written exam	2.0	Project			()	Other)	
	Su	uccess Inc	dicator		Maximal	points	Weight of scor	the partial e (%)
	Written exam	/ www.blaw			30		5	50 0
Grading and	presentation)	(probleti	n solving,		30			0
evaluating student work in class and at	In total				60		1	00
the final exam			CRITERIA	A FOF		i		
	Achieved or	verall %)	Criterion				G	irade
	60-69.9	9	meets the mini	mum	criteria		suffi	cient (2)
	70-79.9	9	average succes	S			go	od (3)

		80-89.9	above-average success		v	ery good (4)		
	L	90-100		6	excellent (5)			
			Title	Numb copies i libra	er of in the ary	Availability via other media		
Required literature (available in the library and via other media)	N z fa Z J. z fa S V 2 1 S O S N	Airko Klarić Upravr dravstvene zaštite 2004. akultet u Zagrebu. 40 % oran Šinković Financiu – Klarić, M. (ur.): Aktua akonodavstva i pravne p akultet u Splitu i Grad No iniša Zrinščak Zdravsi rtlogu reformi i suvreme 007. Revija za socijal 5 % Siniša Zrinščak Sustavi snovna obilježja i aktual ocijalnu politiku, god. 6, Airoslav Mastilica zaštite u L. Kovačić (u zdravstvenoj zaštiti. Zagreb. 10 %	no-politički aspekti sustava Magistarska radnja, Pravni ranje javnog zdravstva u Čizmić, Inosti zdravstvenog orakse. 2011. Pravni ovalja. 20 % tvena politika Hrvatske. U enih društvenih izazova nu politiku, god. 14, br. 2., 2007. i zdravstvene politike u svijetu: ni procesi 1999. Revija za br 1, 1999. 15 % Financiranje zdravstvene ur.): Organizacija i upravljanje u 2003. Medicinska naklada,					
Optional literature (at the time of submission of study programme proposal)		<ol> <li>G. Carrin i drugi: A Simulation Model of Financial Needs and Government Budget Options for the Functioning of the Health System: Technical document, World Health Organization, Geneva, No. 21. january, 1998.</li> <li>Schonbach, K.: Marketorjentirung der Krankenkassen auf der Grundlage von Gesundheitszielen, Arbeit und Socialpolitikm br, 3. – 4., 1997</li> </ol>						
Quality assurance methods that ensure the acquisition of exit competences	Students and lecturers' analysis of the quality of teaching, - Analysis of the exam success rate, - Reports of the Teaching Control Committee, - External evaluation (visits by the quality control teams of the National Agency for Quality Control - external evaluation and self-analysis							
Other (as the proposer wishes to add)								

NAME OF THE COURSE	E	Health Care Inform	nation Sys	tems						
Code	ZSZ705		Year of stu	ıdy	1.					
Course teacher	Full prot PhD	fessor Ana Jerončić,	Credits (E	CTS)	4					
Associate teachers	Mr. sc. F Jerončić	Renato-Zdenko	Type of in: (number c	struction of hours)	L 10	S 15	E 10	Т 0		
Status of the course	Obligato	pry	Percentag of e-learni	e of application	20%					
	•	COURS	E DESCRIPT	TION						
Course enrolment requirements and entry competences required for the course	No requ	irements		~	2					
	Upon co	ompletion of the cours	se, student	s will be able to:						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Def</li> <li>Pro</li> <li>Des fror</li> <li>Dist</li> <li>List dat</li> <li>Des</li> <li>App reso</li> <li>List info</li> </ul>	Define basic concepts related to health information systems. Provide examples of healthcare information systems in Croatia Describe the basic operation of clinical decision support and other models that learn from data Distinguish models that learn from data in terms of their interpretability and reliability List basic biomedical and health knowledge resources in books, journals, electronic databases, and other sources Describe the major approaches used to indexing knowledge-based content Apply advanced searching techniques to the major biomedical and health knowledge resources List ways to protect the privacy and security of health information in health information systems								
Course content broken down in detail by weekly class schedule (syllabus)	<ol> <li>Topics:</li> <li>1. Hea</li> <li>2. Info</li> <li>Inte</li> <li>3. Clin</li> <li>4. Hea</li> <li>5. Info</li> <li>In total:</li> </ol>	<ol> <li>Topics:</li> <li>Healthcare data, information, and knowledge (1L+1S+1P)</li> <li>Information systems in healthcare; Electronic health records; Standards and Interoperability (3L+5S+3P)</li> <li>Clinical decision support (3L+5S+2P)</li> <li>Health information privacy and security (1L+1S)</li> <li>Information retrieval from medical knowledge resources (2L+3S+5P)</li> <li>In total: 10 lectures + 15 seminars + 10 practicals</li> </ol>								
Format of instruction	⊠ lectur ⊠semin ⊠exerci □ on lin □ partia	res aars and workshops ises ae in entirety al e-learning work		<ul> <li>independent a</li> <li>multimedia</li> <li>laboratory</li> <li>work with me</li> <li>(other)</li> </ul>	assignme entor	nts				

m 2.0 Success m oer (prob n) d overall cs (%) 59.9	Research Report Seminar essay Oral exam Project Indicator lem solving, CRITERIA Criterion	2.0 Ma	Practic Practic	(Other) (Other) (Other) (Other) Weigh	ng It of the partial score (%) 50 50 100							
m 2.0 Success m oer (prob n) d overall cs (%) 59.9	Report Seminar essay Oral exam Project Indicator Ilem solving, CRITERIA Criterion	2.0	aximal points 30 30 60 ADING	(Other) (Other) (Other) Weigh	1t of the partial score (%) 50 50 100							
m 2.0 Success m oper (prob n) d overall cs (%) 59.9	Seminar essay Oral exam Project Indicator Iem solving, CRITERIA Criterion	2.0	aximal points 30 30 60 ADING	(Other) (Other) (Other) Weigh	nt of the partial score (%) 50 50 100							
m 2.0 Success m oper (prob n) d overall cs (%) 59.9	Oral exam Project Indicator Iem solving, CRITERIA Criterion	FOR GRA	aximal points 30 30 60 ADING	(Other) (Other) Weigh	nt of the partial score (%) 50 50 100							
m 2.0 Success m oer (prob n) d overall cs (%) 59.9	Project Indicator Iem solving, CRITERIA Criterion	FOR GRA	aximal points 30 30 60 ADING	(Other)	nt of the partial score (%) 50 50 100							
Success m per (prob n) d overall cs (%) 59.9	Indicator	FOR GRA	aximal points 30 30 60 ADING	Weigh	nt of the partial score (%) 50 50 100							
m per (prob n) d overall cs (%) 59.9	lem solving, CRITERIA Criterion	FOR GR	30 30 60 ADING		50 50 100							
d overall ss (%)	CRITERIA Criterion	FOR GR/	60 ADING		100							
d overall s (%) 59.9	CRITERIA Criterion	FOR GR	60 ADING		100							
d overall :s (%) 59.9	CRITERIA Criterion	FOR GR	ADING									
d overall :s (%) 59.9	Criterion			CRITERIA FOR GRADING								
.s (%) 59.9				Grade								
60-69.9 meets the minimum criteria					sufficient (2)							
79.9	average success				good (3)							
39.9	above-average s		\	very good (4)								
100		.855	Nun	nher of								
Title					Availability via other media							
Josipa Kern i Mladen Petrovečki, ur. Medicinska informatika, 2009., Medicinska naklada.					-							
<ol> <li>Lynda R Hardy (editor). Fast Facts in Health Informatics for Nurses, 1st edition. Springer, 2020</li> <li>Volpe S. Health Informatics: Multidisciplinary Approaches for Current and Future Professionals: HIMSS Book Series, 2022.</li> <li>Callahan Hunt E, Breckenridge Sproat S, et al. The Nursing Informatics Implementation Guide (Health Informatics): Springer, 2004</li> </ol>												
<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>												
	ion. Sprin pe S. Heal ane Profes ahan Hun lementat g quality a ssing rate ee for co evaluatic	ion. Springer, 2020 be S. Health Informatics: Multi are Professionals: HIMSS Book ahan Hunt E, Breckenridge Sp lementation Guide (Health Inf g quality analysis by students a ssing rate analysis ee for control of teaching rep evaluation	ion. Springer, 2020 be S. Health Informatics: Multidisciplin are Professionals: HIMSS Book Series, 2 ahan Hunt E, Breckenridge Sproat S, et lementation Guide (Health Informatics g quality analysis by students and teach ssing rate analysis ee for control of teaching reports evaluation	ion. Springer, 2020 be S. Health Informatics: Multidisciplinary Approach are Professionals: HIMSS Book Series, 2022. ahan Hunt E, Breckenridge Sproat S, et al. The Nursi lementation Guide (Health Informatics): Springer, 20 g quality analysis by students and teachers ssing rate analysis ee for control of teaching reports evaluation	ion. Springer, 2020 be S. Health Informatics: Multidisciplinary Approaches for Cur are Professionals: HIMSS Book Series, 2022. ahan Hunt E, Breckenridge Sproat S, et al. The Nursing Inform lementation Guide (Health Informatics): Springer, 2004 g quality analysis by students and teachers ssing rate analysis ee for control of teaching reports evaluation							

NAME OF THE COURSE		Human Resource Management										
Code	ZSZ706			Year of stu	ıdy	1 <sup>st</sup>						
Course teacher	Dejan Kr professo	užić, Phl r tenure	D, Full	Credits (E	CTS)	4						
Associate teachers	Ana Jura associate Ante Mih lecturer	s, PhD, e nanović,	Researc PhD, Senic	h Type of in (number c	struction f hours)	L 20	S 5	E 10	Т 0			
Status of the course	Obligato	ry		Percentag of e-learn	e of application	of application Up to 50%						
	<u></u>		COU	RSE DESCRIPT	ION							
Course enrolment requirements and entry competences required for the course	No requi	rements	5		~	$\mathbf{i}$						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	The mair resource Individua (1) (2) (3) (4) (5) V	a learnin s in a m al learnir Enable s develop Identify Design, Criticall selectio	g outcome odern orga ng outcome students to ment - car and valori evaluate a y review ar n models. various inc	of the course nization. es: independent eer. ze various asp nd implement id determine entives for mo	: Identify opport ly design and ma ects of human re a compensatior the adequacy of otivation and mo	unities an unage thei esource m system. selected r nitor their	d manage r professionanagement ecruitment r realizationationationationationationationation	human onal nt. nt and on.				
Course content broken down in detail by weekly class schedule (syllabus)		<ul> <li>Significance and specifics of management of human resources as the most important resource of the organization.</li> <li>Changes in the environment and human resource management. Job analysis and job design.</li> <li>Planning human resource needs and its possible outcomes.</li> <li>Staff recruitment, selection and hiring.</li> <li>Introduction to work and staff training. Career management.</li> <li>Personnel preparation and development. Selection of preparation and development methods.</li> <li>Employee performance assessment.</li> <li>Motivation to work. Motivation theories.</li> <li>Rewarding and compensation system. Forms of compensation.</li> </ul>										
Format of instruction	<ul> <li>Labor relations and trade u</li> <li>X lectures</li> <li>X seminars and workshops</li> <li>X exercises</li> <li>I on line in entirety</li> <li>X partial e-learning</li> <li>I field work</li> </ul>				X independent assignments X multimedia I laboratory work with mentor (other)							
Student responsibilities	Regular o Active pa Password	class atte articipati d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identi	ss. ty for access to e	- learning	<b>.</b>					
Screening student work (name the	Class attendar	ice	0,40	Research		Practical	training	0,80				

proportion of ECTS credits for each	Experimental work		Report						
activity so that the	Essay		Seminar essay		(	Other)			
credits is equal to the	*Tests		Oral exam		(	Other)			
ECTS value of the course)	*Written exam	2,80	Project		(	Other)			
	* Successful passing of both tests/colloquia replaces the written exam. Each of the tests carries 40 points. At all forms of knowledge testing (test, written exam) it is necessary to achieve a minimum								
	Eval	uation ind		Share in overall grade					
	Attendance and seminars (for 1	d activity o 00% atten		10	),O				
	Written exam o	or two wri	tten tests	70		70	),0		
	Practical trainin	ng		20		20	),0		
Grading and	Total			100		10	00		
evaluating student work in class and at the final exam	PERFORMANCE AND GRADE RATIO								
	Achieved suce percentage (	cess %)	Cr	iteria		Gra	ade		
	60%-69%	n	neets the minimu	m criteria		suffici	ent (2)		
	70%-79%	a	verage success			goo	d (3)		
	80%-89%	а		very go	ood (4)				
	90% and above exceptional success excellent (5)								
	Title					lumber of pies in the library	Availability via other media		
Required literature	Juras, A. (2021). Osnove menadžmenta u zdravstvu. OZS,								
(available in the library and via other	Sveučilište u Spli Belak, V. (2014).	tu, odabra Menadžn							
media)	Noe i sur. (2006)	. Menadži							
	Written course n	naterials f							
	Alfirević, N., Pavić, I., Matić, I. (2007). Menadžment – Priručnik za nastavu, EFST, selected chapters.								
Optional literature (at	Berman, E., Bow u javnoj službi –	man, J., W Paradoksi	/est, J. i Van Wart , procesi i problei	:, M. (2018). Upra mi. Mate d.o.o., Z	vljan agrel	je ljudskim p o.	otencijalima		
submission of study	Buble, M. (2006)	. Menadži	ment. Ekonomski	fakultet Split, Spl	it, oc	labrana pogl	avlja.		
programme proposal)	Fried, B. (2018). Administration P	Fundamei ress, Chic	ntals of Human Re ago, USA.	esources in Health	ncare	e, 2nd Editior	n. Health		
	Niles, N. (2019). Basic Concepts of Health Care Human Resource Management, 2nd Edition. Jones & Bartlett Learning, Burlington, USA.								

Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Survey on the quality of teaching and teaching materials</li> <li>Class attendance and teaching activities (periodic review by the head of studies)</li> <li>Exam or two tests passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>
Other (as the proposer wishes to add)	

NAME OF THE COURSE	:	Health Care Manag	gement								
Code	ZSZ707		Year of study 1 <sup>st</sup>								
Course teacher	Dejan K Full prot	ružić, PhD, fessor tenure	Credits (EC	CTS)	6						
Associate teachers	Ana Jura Researc Ante Mi Senior le	as, PhD, h associate hanović, PhD, ecturer	Type of ins (number o	struction f hours)	L 20	S 5	E 10	Т 0			
Status of the course	Obligato	pry	Percentag of e-learni	e of application ng	Up to 50%						
-	COURSE DESCRIPTION										
Course enrolment requirements and entry competences required for the course	No requirements										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>The main learning outcome of the course: Identify the possibilities and ways of managing a modern health organization.</li> <li>Individual learning outcomes: <ol> <li>Identify and valorize different aspects of health care organization management.</li> <li>Determine the adequacy of the existing organization and design a more appropriate way of planning and implementing goals in the health care organization.</li> <li>Critically review strategic, tactical, and operational planning in a health care organization.</li> <li>Valorize various incentives for motivation and propose an adequate leadership style for the health care organization.</li> <li>Critically review and determine the adequacy of selected quality control models and tools in the health care organization.</li> </ol> </li> </ul>										
Course content broken down in detail by weekly class schedule (syllabus)	<ul> <li>management and socially responsible business.</li> <li>Health care as an environment for management. Business, technological, social and legal-political environment of health care.</li> <li>Conceptual definition of management. Basic principles, theories and functions of health management.</li> <li>Management in health care: methods, techniques and tools.</li> <li>Planning as a function of management. Concept, content, levels and time horizon of planning.</li> <li>Nature and purpose of planning. Stages of the planning process. Responsibility for planning in health care organizations.</li> <li>Conceptual definition of organizing as a function of management. Designing an organizational structure. Hierarchical and non-hierarchical organizations.</li> <li>Staffing as a function of management. Basic features of leadership, leadership models and modern approaches to leadership.</li> <li>Basic principles of managerial control - the concept, process and areas of control. Implementation of the control function in health care organizations.</li> <li>Socially responsible business and ethics in healthcare.</li> </ul>										
Format of instruction	X lectur	res		X independent a	ssignmer	nts					

	X seminars and	X multimedia								
	X exercises	□ laboratory								
	□ <i>on line</i> in e	□ work with mentor								
	X partial e-learni	ng			(other)					
	□ field work				(,	,				
	Regular class att	endance.								
Student	Active participat	ion in the	teaching proce	SS.						
responsibilities	Password for AA	I EduHr el	ectronic identit	ty for acce	ess to e	- learnir	ng.			
	Class attendance	0,40	Research			Practica	l trainin	g	0,80	
Screening student work (name the	Experimental work		Report							
proportion of ECTS credits for each	Essay		Seminar essa	у		(	Other)			
activity so that the	*Tests		Oral exam			(	Other)			
credits is equal to the	*Written exam	2,80	Project			(	Other)			
ECTS value of the course)	* Successful passing of both tests/colloquia replaces the written exam. Each of the tests carries 40 points. At all forms of knowledge testing (test, written exam) it is necessary to achieve a minimum of 60% of the total number of points.									
	Evaluation indicators					Success Share i			in overall grade	
						(points)		(%)		
	Attendance and activity on lectures and							10	),0	
	seminars (for 100% attendance)									
	Written exam o		70			70,0				
	Practical trainin		20			20,0				
Grading and	Total				100			100		
work in class and at the final exam	PERFORMANCE AND GRADE RATIO									
	Achieved suc	Criteria			Grade					
	60%-69%	num criteria			sufficient (2)					
	70%-79%				good (3)					
	80%-89%	uccess			very good (4)					
	90% and abo	ress			excellent (5)					
	Title					copies in the library		vailability via other media		
Required literature (available in the library and via other media)	Juras, A. (2021). <i>Osnove menadžmenta u zdravstvu</i> . OZS, Sveučilište u Splitu.									
	Belak, V. (2014). <i>Menadžment u teoriji i praksi,</i> odabrana poglavlja.									
	Buble, M. (2006). <i>Menadžment</i> . Ekonomski fakultet Split, Split, odabrana poglavlja.									

	Written course materials from lectures and exercises in e- form							
Optional literature (at the time of submission of study programme proposal)	<ul> <li>Alfirević, N., Pavić, I., Matić, I. (2007). <i>Menadžment – Priručnik za nastavu</i>, EFST, selected chapters.</li> <li>Fried, B. (2018). <i>Fundamentals of Human Resources in Healthcare, 2nd Edition</i>. Health Administration Press, Chicago, USA.</li> <li>Kalauz, S. (2014). <i>Organizacija i upravljanje u zdravstvenoj njezi</i>. Medicinska naklada, Zagreb.</li> <li>Murray, E. (2017). <i>Nursing leadership and management: For patient safety and quality care</i>. FA Davis Company, Philadelphia, SAD.</li> </ul>							
Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	<ul> <li>Survey on the quality of teaching and teaching materials</li> <li>Class attendance and teaching activities (periodic review by the head of studies)</li> <li>Exam or two tests passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>							

NAME OF THE COURSE	E	Health Care Econo	ealth Care Economics							
Code	ZSZ708		Year of study							
Course teacher	Prof. Žej Prof. Lar	lko Mrnjavac, PhD na Kordić, PhD	Credits (ECTS)							
Associate teachers			Type of instruction (number of hours)	L 20	S 20	E	T			
Status of the course	Obligato	ry	Percentage of application	Ū	0					
Course enrolment requirements and entry competences required for the course	No requirements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Upon completion of the course, students will be able to apply advanced economic theore and methods to different part of the health system, their critical review, and independent economic research in this area.</li> <li>Individual learning outcomes: <ul> <li>state economic terminology;</li> <li>analyze the economic way of thinking;</li> <li>explain the functioning of health care in the Republic of Croatia,</li> <li>develop the methods of economic analysis in modern healthcare economics;</li> <li>indicate the economic rationality in the selection and assessment of the medical justification for certain treatments;</li> <li>develop critical thinking;</li> <li>apply adopted knowledge about the world and national experiences in providing health care protection;</li> <li>predict changes in the wider community that affect the development and</li> </ul> </li> </ul>									
	Type of instruction	Num stuo ho	ber of dent ours							
Course content broken down in detail	L and S Introduction: health economics in international perspective (The importance of economics in health care and healthcare protection, economic way of thinking about health care protection (rational choice, the market and its limitations, external effects, public goods,microeconomic decisions and microeconomic policies)									
schedule (syllabus)	LandS	L and S The demand for health and health services; Demand, elasticity and health:								
	L and	L and S Production, health and health care: efficient use of inputs, Cost of delivering health services;								
	Land	S Basic market mo	Basic market model; Supplier-induced demand and agency; 2 + 2							
	Ublic-private parnership ih health –critical review;									

	L and S Health insurance around the word –voluntary insurance-based							2 + 2		
	system, social insurance system and parallel system									
	L and S Health systems around the world; Reliance on the state: public health service systems							2 + 2		
	L and S Challenges of financing thehealth systems nowedays:								2 + 2	
		L and S Croatia health system review - Analysis of health care referms								2+2
	in Croatia								2 ' 2	
	L and S The theoretical bases of economic evaluation; Economic								2 + 2	
	evaluation vs EU funding;									
	X lectures						assignments			
	x seminars and	worksho	ps			uependent	assignin	ents		
Format of instruction	□ exercises				u m	ultimedia				
Format of instruction	□ on line in ent	irety			ш Ia П	boratory				
	partial e-lear	ning			L w	ork with me	entor			
	$\Box$ field work					(other)				
Student	Regular class at	tendance	e.							
responsibilities	Active participation in the teaching process.									
	Password for AAI EduHr electronic identity for access to e - learning.									
Screening student	Class	0.5		Research	1		Practica	l trainin	g	
work (name the	attendance				_				0	
proportion of ECIS	Experimental		Report		0.5					
creans jor each	WORK									
total number of ECTS	Essay	-	Seminar essay	inar essay		(Other)				
credits is equal to the	Tests	1	Oral exam			(Other)				
course)	Written exam 1			Project			(Other)			
	Evaluation indicators					Succe	ss	Share i	in ov	erall grade
					(points)			(%)		6)
	Attendance and activity on lectures and					2,5			5	
	seminars (for 100% attendance)					40			80.0	
	Written exam or two written tests					40		80,0		
Creding and						7,5			15,0	
Grading and										
work in class and at the final exam	PERFORMANCE AND GRADE RATIO									
	Achieved success					Criteria Grad				de
	percentage (%)									
	60%-69%			meets the minimum criteria			sufficient (2)			ent (2)
	70%-79%			average success			good (3)			1 (3)
	80%-89%			above average success			very good			od (4)
Required literature (available in the	90% and above exceptional success							excellent (5)		
	Title					Num copies	mber of ies in the		ailability via	
							lib	rary	0	ther media
norary and via other	Authorized lectures and presentations on course's web									Merlin
ineula)	page									
	McPake, B., Normand, C. Health economics: an		Merlin							
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	international perspective, second edition 2008.									
	(selected chapters)									
	Phillips, J.C.Health Economics: an introduction for health		Merlin							
	professionals 2005. Blackwell Publishing Ltd, USA.									
	(selected chapters)									
	Vehovec, M. (ur.) 2014. O zdravstvu iz ekonomske		Web							
	perspektive, Ekonomski institut, Zagreb. (selected									
	chapters)									
	1. Documents and reports by national and internation	nal healthcare ii	nstitutions							
	2. The most recent papers. Some of them:									
	• Kordić, L., 2022. Mesuring hospital efficiency and	effectiveness, ir	n Pržiklas							
	Družeta, R., Skare, M. and Kraljević Pavelić, S. (eds	s.) 2022. Novel I	Perspectives of							
	Personalized Medicine and Healthcare Systems, N	lova Science Pul	blishers, New							
	York.		haalah in							
	<ul> <li>Kordic, L., Wirnjavac, Z., Bejakovic, P., 2022. Privat</li> <li>Držiklas Družeta, P., Škara, M. and Kraliović Pavali</li> </ul>	e investment in	nealth, In							
	Przikias Drużela, K., Skare, W. anu Kraljevic Paven Porspostiwos of Porsonalized Medicino and Health	c, S. (eus.) 2022	. NOVEL							
	Publishers New York	icare systems, r								
	<ul> <li>Šimudić B. Kordić I. Mrnjavac Ž. 2022 Health ;</li> </ul>	tourism in Croat	tia – Questioning							
Ontional literature (at	economic impact and policy regulation in Pržiklas	Družeta R Šk	are M and							
the time of	Kraliević Pavelić, S. (eds.) 2022. Novel Perspective	s of Personalize	d Medicine and							
submission of study	Healthcare Systems, Nova Science Publishers, Nev	w York.								
programme proposal)	• Kordić, L., 2017. Ownership versus efficiency: A cr	oss-country cor	nparation of							
programme proposal)	health systems, DIEM: Dubrovnik International Ec	onomic Meetin	, g, Managing							
	Business Growth in a Volatile Environment, Vol. 3	, No. 1, 288-299	).							
	• Arnerić, J., Kordić, L., 2017. Contribution of Private	e Sector to the I	Effectiveness of							
	Health Care Provision, Proceedings of the 14th Int	ernational Sym	posium on							
	OPERATIONAL RESEARCH, SOR'17, Zadnik Stirn, L.	, Kljajić Borštna	r, M., Žerovnik, J.,							
	Drobne, S. (ed.), Slovenian Society Informatika – S	Section for Oper	ational Research,							
	Ljubljana, September 27-29 2017, Bled, Slovenia,	359-364.								
	<ul> <li>Kordić, L., Simundić, B., 2017. The efficiency of he</li> </ul>	alth tourism inf	rastructure in							
	Croatia, 11th International Days of Statistics and E	Economics, Conf	ference							
	Proceedings, Löster, T., Pavelka, T. (ed.), Libuše M	acáková, Melar	ndrium,							
	September 14-16 2017, Prague, Czech Republic, 7	34-743.								
Quality assurance	<ul> <li>Teaching quality analysis by students and teachers</li> </ul>									
methods that ensure	<ul> <li>Exam passing rate analysis</li> </ul>									
the acquisition of exit	<ul> <li>Committee for control of teaching reports</li> </ul>									
competences	External evaluation									
Other (as the	7									
proposer wishes to										
add)										

NAME OF THE COURSE	SE Health Care Quality Control							
Code	ZSZ709		Year of study	1.				
Course teacher	Associat Obad, M	e professor Ante D, PhD	Credits (ECTS)	4				
Associate teachers	Assistant Tomasov	t professor Nada <i>v</i> ić Mrčela, MD, PhD	Type of instruction (number of hours)	L	S	E	Т	
Status of the course	Obligato	ry	Percentage of application	20%				
Course enrolment requirements and entry competences required for the course	No requi	rements						
Course objectives	The stud	ent will learn what is what is a quality mana	a quality control system in h agement methodology.	ealth care	e, what it	s compo	nents	
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After con • analyze patients • apply • explain health ca • explain	After completing the course the student will be able to: • analyze the relationship between the outcomes of health care and the health needs of patients (health service users); • apply the Donabedian model in assessing the quality of health care • explain the quality indicators and the functioning of the quality monitoring system in health care; • explain the total quality management in health care						
Course content broken down in detail by weekly class schedule (syllabus)	L	The course co knowledge and management in h The thematic un process of qua individual depe systematization of Defining quality. Quality of health Quality as a facto Quality costs. Total quality mar	ntent includes theoretica skills needed for success health care. its are organized to bette lity management and po ending on their positio of jobs in the health institution quality in modern business en care or of competitiveness. hagement.	I and ful total r underst sitioning on with on:	practical quality tand the of the in the nt.	2		

									_
	S Or Sa Te	ientatior tisfation am work	n towards service of employees	users	5			4	
	L Qu Qu Do	iality goa iality ma inabedia	als. nagement method n's concept of	ds an healt	d technique th care qu	es iality as	ssessment	4	_
	(aı	(analysis in the field of structure, processes and outcomes)							
	L Sta	Standards and norms in healthcare. International norms.						6	
	L He Qu	lealth care quality assessment. Quality indicators in health care						6	
	S Au	dit for th	ne purpose of asse	essing	g the quality	of heal	th care.	5	
	S Qu	Quality assurance of health care						6	
Format of instruction	x lectures x seminars and exercises on line in partial e-lear field work	ectures       Independent assignments         eminars and workshops       Independent assignments         exercises       Independent assignments         Imultimedia       Independent assignments							
Student responsibilities	Regular class at Active participa Password for A	tendanc tion in tl Al EduHr	e. he teaching proces electronic identit	ss. y for	access to e	- learnir	ıg.		
Screening student work (name the	Class attendance	1	Research	Practical training					
proportion of ECTS credits for each	Experimental work		Report						
activity so that the total number of ECTS	Essay		Seminar essay	/ 1,0	)	()	Other)		
credits is equal to the	Tests		Oral exam			()	Other)		
ECTS value of the course)	Written exam	2,0	Project			(0	Other)		
	Eva	aluation	indicators		Succe (point	ss s)	Share in ov (۶	verall grade %)	
	Seminar essay	,			20		4(	),0	
	Written exam				30		60	),0	-
Caradiana and	Total				50		1	00	]
evaluating and evaluating student work in class and at			PERFORMAN	ce ai	ND GRADE F	RATIO			
the final exam	Achieved su	ccess	(	Criter	ia		Gra	ade	]
	percentage	(%)						(-)	
	60%-699	6	meets the minim	ium d	criteria		suffici	ent (2)	-
	/0%-799	/o	average success				goo	a (3)	-
	80%-89%	<i>6</i>	above average su	ucces	5		very g	000 (4)	{
	90% and at	love	exceptional succ	255			excell	ent (5)	

Required literature (available in the library and via other	Title	Number of copies in the library	Availability via other media	
media)	Tomasović Mrčela N, Obad A. teaching texts. OZS, 2021.			
Optional literature (at the time of submission of study programme proposal)	Skoko H, Upravljenje kvalitetom, 2000., Sinergija 30% Kovačić L, ur. Organizacija i upravljanje u zdravstvenoj zaš Medicinska naklada, 15% Čulig, J. – Zovko, V., Priručnik za procjenu radnog učinka, 2 Grada Zagreba, 50% Prüs, A. – Groult, E., Rushbrook P, ed., Safe management o Organization, 5%	titi, 2003., 2001., Zavod za of wastes from	javno zdravstvo health-care activiti	es, 1999., World
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>			
Other (as the proposer wishes to add)				

NAME OF THE COURSE		Pedagogy						
Code	ZSZ710		Year of study	1st				
Course teacher	Tonća Ju Professo	ukić, PhD, Associate or	Credits (ECTS)	4				
	-		Type of instruction	L	S	E	Т	
Associate teachers			(number of hours)	20	20	0	0	
Status of the course	Obligato	pry	Percentage of application of e-learning	20%				
		COURS	E DESCRIPTION					
Course objectives	To enab	le students to underta	ake pedagogical activities.					
Course enrolment requirements and entry competences required for the course	No requ	irements		5				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cc • • •	explain the nature ar and training - training explain the basic con explain socio-historic development; explain methods and technical, physical, h explain pedagogical of development in cogn describe the specifics describe the charactor explain the importan society; explain the structure ISCED levels.	e, students will be able to: ad function of pedagogy as the g of people; cepts of pedagogy – traditio i function of pedagogy on the aspects of pedagogical active ealth, ethical, and aestheticated development theories and le itive, conative and psychom s of andragogic practices; eristics of Waldorf and Mont ce of pedagogical activities i and basic characteristics of	neory and nal and m e process vities in in aspects of vels of qu otor aspe essori per n training the schoo	I practice nodern vi of training tellectua f training ialitative act; dagogy; for a life ol system	e of educa ews; ng and so I, labor, ;; personal e in the pl accordin	ation ociety ity ural g to	
Course content broken down in detail by weekly class schedule (syllabus)	Course of applicat aimed a	content refers to the t ion of pedagogical the t training students for	heoretical and practical knov eory, organisation and admir successful pedagogical worł	vledge, sk nistration <.	tills, the s	kills of pr ational ac	ractical tivities	

	Туре		Them	atic units		Hours
	Sci	entific de	finition of	pedagogy -	epistemological	4 L
	cha	racteristics,	goals and	objectives, ba	asic concepts of	
	pe	lagogy, ped	agogyand other	sciences		
	Edu	ication, i	pbringing and	training as	basic pedagogical	1 L
	cat	egories, ori	gin and develo	pment, charact	er and content of	
	tra	ning.				
	Soc	io-historica	l dimension of p	bedagogy – edu	cation, upbringing	1 L
	and	l training as	s conditioned p	rocesses, man	– work – society –	
	tra	ning.				
	Pe	lagogical th	eories of perso	onality develop	oment – stages of	4 L
	dev	elopment,	aspects and le	vels of qualita	tive development,	
	the	role of a te	acher in motiva	ting students f	or "learning".	
	ي Ası	ects of p	edagogical acti	ivities in the	training process,	4 L
	an int	ellectual, la	bour, technica	l, physical, he	ealth, ethical and	
	aes de	thetic aspe	cts.			
	— Me	thods of	pedagogical	activities, pe	rsonality profile,	1 L
	rela	itionship be	tween teacher	– student – lea	rning process.	
	An	dragogy –	special discipli	ine in the sci	entific system of	1 L
	pe	lagogy – spe	ecific features, p	process of life-l	ong learning.	
	Alt	ernative peo	lagogical theori	es and practice	s – Montessori and	1 L
	Wa	Idorf pedag	ogy.			
	Ira	ining for li	fe in a multic	ultural commu	inity, intercultural	1L
	up	oringing, ea	ucation and trai	ning.		
	Bas	ics of me	esearch, research	I L		
	pro the	oretical and	lysis and nedag		n, nermeneulics,	
	Edu	ication syst	ams - ISCED	school system	in the Republic of	11
	Cro	atia Currici	ulum as nedago	gical category	in the Republic of	16
	Dis	Discussion on pedagogical issues. Analysis of some sources of				
	ars ac	pedagogical literature and pedagogical practice – from students'				
	ie ser	seminar papers.				
	sen					
	⊠ lectures		 	🛛 independent	assignments	
	🗵 seminars an	l workshops	s ¦	⊠ multimodia	assignments	
Format of instruction	exercises					
	🗆 on line in en	irety		□ laboratory	ontor	
	D partial e-lea	ning				
	□ field work		1		)	
Chudant	Regular class at	tendance.				
Student	Active participa	tion in the t	teaching proces	s.		
responsibilities	Password for A	Al EduHr ele	ectronic identity	/ for access to e	e - learning.	
Screening student	Class	1 5	Bosoarch		Practical training	
work (name the	attendance	1,5	Research		Practical training	
proportion of ECTS	Experimental		Report			
credits for each	work		Report			
activity so that the total number of ECTS	Essay		Seminar essay	1	(Other)	
credits is equal to the	Tests		Oral exam		(Other)	

ECTS value of the course)	Written exam	1,5	Project		(C	(Other)			
		ors	Succe (point	Success (points)		e in the grade (%)			
	Written or oral	exam		7	7		70 %		
	seminar		3		30 %				
Creding and	Total 10 100 %								
evaluating student work in class and at	RATIO OF SUCCESS AND EVALU						grade		
the final exam	(%)	2	mosts the mini	num critorio			ufficient (2)		
	70 - 84 9	/o //				5	good (3)		
	85 - 94 9	/o %	above-average			v	g000 (3) erv good (4)		
	95 - 100	%	exceptional suc	cess		e	ery good (4)		
		/0	exceptional suc						
			Title		Numb copies libra	er of in the ary	Availability via other media		
Required literature (available in the library and via other media)	<ol> <li>Milat, J. (2005). Pedagogija (ili) Teorija osposobljavanja. Zagreb: Školska knjiga.</li> </ol>						no		
	2. Milat, J. (2007). Epistemologija pedagogije: dileme, pitanja, moguća rješnja. <i>Pedagogijska istraživanja,</i> 4(2),						yes		
	189-201.								
	3. PPT – presenta	ations fro	-		yes				
	4. Scientific papers of students' choice						yes		
Optional literature (at the time of submission of study programme proposal)	<ul> <li>Chabot, <i>učilo</i>. Za</li> <li>Delors,</li> <li>Glasser,</li> <li>Gudjon:</li> <li>Matijev Zagreb:</li> <li>Miljkovi <i>u praksu</i></li> <li>Seitz, M <i>odgajat</i></li> </ul>	D., & Ch agreb: Ed J. (Ed.) (1 W. (200 s, H. (199 ić, M., Bi Školska I ić, D., Đu u. Zagreb I., & Hally relje ili pe	nabot, M. (2009). uca. .998). <i>Učenje - bl</i> 5). <i>Kvalitetna ško</i> 4). <i>Pedagogija -</i> lić, V., & Opić, S. knjiga i Učiteljski ranović, M., & Vi : IEP-D2, Učiteljs wachs, U. (1997). dagoge. Zagreb:	Emocionalna p ago u nama. Zag ola. Zagreb: Educ temeljna znanja (2016). Pedagoo fakultet Sveučili dić, T. (2019). Oc ki fakultet Sveuč Montessori ili V Educa	edagogija greb: Edu ca. . Zagreb: gija za uči šta u Zag dgoj i obi ćilišta u Za Valdorf?:	a, osjeć Ica. Educa. itelje i n rebu. razovan agrebu. knjiga	ati kako bi se nastavnike. ije: iz teorije za roditelje,		
Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	<ul> <li>Teaching quality analysis by students and teachers</li> <li>Exam passing rate analysis</li> <li>Committee for control of teaching reports</li> <li>External evaluation</li> </ul>								

NAME OF THE COURSE	Didactics and Teaching	Methodology						
Code	ZSZ711	Year of study	1st					
Course teacher	Tonća Jukić, PhD, Associate Professor	Credits (ECTS)	4					
Associate teachers		Type of instruction (number of hours)	L	S	E	Т		
Status of the course	Obligatory	Percentage of application	20%	20	0	0		
	COURS	E DESCRIPTION						
Course objectives	To enable students to und from the profession.	o enable students to undertake pedagogical activities within the educational program						
Course enrolment requirements and entry competences required for the course	No requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Upon completion of the con- explain the mutua and their function</li> <li>explain didactics teaching work;</li> <li>explain what the s</li> <li>plan the teaching teaching subjects in explain the teleol training teaching;</li> <li>plan educational, find</li> <li>describe methods application;</li> <li>describe the procestopics, methodication success;</li> <li>explain didactic, methodication;</li> <li>create a written planet content of teaching;</li> <li>analyze the procestopics, methodication;</li> <li>use teaching aids in use digital technol</li> <li>use didactic, methopics, evaluation</li> </ul>	urse, students will be able to I relationship between didac and importance for successf and teaching methodologie chool curriculum is and wha process in achieving the g in schools; ogical importance of teachi functional and instructional to and methodological form edure of conducting the teach of a specific teaching unit; an for the implementation of ory or instructional worksh esses of identifying and formu al units (subjects); n teaching; ogy for the preparation and a odological and professional of an and assessment of teaching	t it involv oals and ing as a casks; s of tea hing proc plementa medical) of a metho eet as a lating tea carrying c medical k ng perfor	teaching ng and te othesis o es; objectiv process ching – ess from tion and base for odical un base for odical un ching go ching go out of tea mance.	method aching; f scientif es of ind of learnin specifics selection d evaluat the selec it (subjec or indepe- als and ta ching act ge in mon	ologies fic and ividual ng and of its of the tion of tton of tts); endent usks for ivities; itoring		
Course content broken down in detail by weekly class schedule (syllabus)	The course refers to the application of pedagogica activities aimed at training implementation of the reprogramme – recording, requirements and design of	theoretical and practical k I theory, organization and students for successful peda nethodology for the deve description and analysis of f programme documentatior	nowledge agogical v lopment work, s	e and sk stration vork. Sen of teac ystemati	ills of pr of educa ninars: Pr hing pla zation o	ractical ational ractical n and f work		

	Туре	T	hematic units	Hours			
		Didactics – definition: th	e relationship between pedagogy –	2 L			
		didactics – teaching meth	odology, basic concepts. Education as				
		a training process, mer	mbers of the educational process.				
		Organisational hypothesi	s of the modern teaching (socio-				
		cultural, antropological an	id psychological).	1			
		Gnoseological base of the	teaching process.	1 L			
		National general and "	school" curricula - methodological	2 L			
		approach to curriculum	development; curriculum monitoring				
		and evaluation.					
		Structure and stages of th	e teaching process.	2 L			
		Establishing and formulati	ng the goal and tasks of the teaching:	1 L			
		educational, functional an	d instructional tasks of the teaching.				
		Teaching methodologies a	and forms.	2 L			
	es	Macro and micro planning	and preparation of teaching classes.	1 L			
	tur	Didactic and method	dological function, choice and	1 L			
	leo	implementation of media	in teaching. The use of ICT in teaching				
		processes.					
		The use of didactic syste	ems in medical training – traditional	3 L			
		approach, problem-solving	g teaching, module structured classes,				
		multimedia approach, inte	egrated teaching.				
		Laboratory work and pra	3 L				
		worksheets.					
		Monitoring of progress,	1 L				
		performance, monitoring					
		assessment, recordkeeping of monitoring documentation,					
		evaluation and assessment of students' performance.					
		Lifelong learning, persor	nality profile, relationship between	1 L			
		teacher – student – tea	aching process. Training for lifelong				
		learning.					
		Establishing and formulati	ng the teaching goals and tasks of one	5 S			
		methodical unit based o	n practical examples. Analysis of a				
		procedure of completing t	he "Preparation for teaching" form for				
	ars	one methodical unit ac	cording to the teaching plan and				
	Jinë	programme of the chose	en subject and area. Design of one				
	sen	laboratory and one istruct	ional worksheet.	45.0			
		A teaching process given b	y students in stimulated conditions on	15.5			
		the basis of independen	the student's sleep				
		with the participation of a	I students in the group				
		with the participation of a	il students in the group.				
	⊠ lectures						
	Seminal	rs and workshops	independent assignments				
		c	🗵 multimedia				
Format of instruction		s a in antiraty	🗆 laboratory				
		le in entirety	□ work with mentor				
	니 partial e	-learning	□ (other)				
	⊔ field wo	rk					
	Regular cla	ss attendance.					
Student responsibilities	Active part	icipation in the teaching pro	ocess.				
	Password f	assword for AAI EduHr electronic identity for access to e - learning.					

Screening student work	Class attendance	1,5	Research			Practical tra	ining		
(name the proportion of	Experimenta Lwork		Report						
activity so that the total	Essay		Seminar essay	1		(Othe	er)		
equal to the ECTS value	Tests		Oral exam	(Other		er)			
of the course)	Written exam	1,5	Project		(Othe	er)			
	Indicators Suc (po					ccess oints)	Share	in the grade (%)	
	Written exam					7		70 %	
	Seminar					3		30 %	
	Total					10		100 %	
Grading and evaluating	RATIO OF SUCCESS AND EVALUATION								
and at the final exam	Success - p (%	ercentage 6)	criterion					grade	
	60 - 6	59 %	meets the min	nimum criteria			sufficient (2)		
	70 – 7	9,9 %	average succe	ess	is			good (3)	
	80-8	9,9 %	above-averag	e success ve			ery good (4)		
	90-1	00 %	exceptional st	lccess	_		e	excellent (5)	
			Title			Number copies in t library	of A	vailability via other media	
Required literature	1. Kostović-V predmeta pri knjiga (chapte	/ranješ, V irodoslovno ers 4- 10, 1-	<b>Title</b> . (2015). <i>Meta</i> og područja. Za 4)	odika agreb:	<i>nastave</i> Školska	Number copies in t library 3	of A the o	vailability via other media No	
Required literature (available in the library and via other media)	1. Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (2 nastave. Elect	/ranješ, V irodoslovno ers 4- 10, 1 2014). <i>Me</i> cronic editi	Title . (2015). Meta og područja. Za 4) todički priručnih on ZS.	odika agreb: k za iz	nastave Školska zvođenje	Number copies in t library 3	of A	vailability via other media No Yes	
Required literature (available in the library and via other media)	<ol> <li>Kostović-V predmeta pri knjiga (chapte</li> <li>Milat, J. (20 nastave. Elect</li> <li>Milat, J. (20 tekstova zo</li> </ol>	/ranješ, V irodoslovno ers 4- 10, 1 2014). Me cronic editi 19). Osnov	Title . (2015). Meta og područja. Za 4) todički priručni on ZS. ve didaktike s me	odika agreb: k za iz etodika	nastave Školska zvođenje pm: izbor	Number copies in t library 3 -	of A the C	vailability via other media No Yes Yes	
Required literature (available in the library and via other media)	1. Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.	Vranješ, V irodoslovno ers 4- 10, 1- 2014). Me cronic editi 219). Osnov pripren studija S	Title . (2015). Meta og područja. Za 4) todički priručni on ZS. ve didaktike s me nanje ispita veučilišta u Spi	odika agreb: k za iz etodiko za s litu. El	nastave Školska zvođenje om: izbor studente lectronic	Number copies in t library 3	of A of A	vailability via other media No Yes Yes	
Required literature (available in the library and via other media)	1. Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.	/ranješ, V irodoslovno ers 4- 10, 1 2014). Me cronic editi 19). Osnov pripren studija S	Title . (2015). Meta og područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi	odika agreb: k za iz etodika za s litu. El	nastave Školska zvođenje om: izbor studente lectronic	Number copies in t library 2 3 2 -	of A contract of the A contrac	vailability via other media No Yes Yes	
Required literature (available in the library and via other media)	<ol> <li>Kostović-V predmeta pri knjiga (chapte</li> <li>Milat, J. (20 nastave. Elect</li> <li>Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1 2014). Me cronic editi 19). Osnov pripren studija S tations fro a Aldan, D.	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik	odika agreb: k za iz etodika za s litu. El itu. El	nastave Školska zvođenje om: izbor studente lectronic vstvene	Number copies in t library 3 - - - njege: priruč	of A A	vailability via other media No Yes Yes Yes astavnike.	
Required literature (available in the library and via other media)	1. Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS. 4. PPT presen • Abou Zagra	/ranješ, V irodoslovno ers 4- 10, 1 2014). <i>Me</i> cronic editi 19). <i>Osnov</i> <i>pripren</i> <i>studija S</i> tations fro Aldan, D. eb: Medicio	Title . (2015). Meta og područja. Za 4) todički priručni on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada.	odika agreb: k za iz etodiko za s litu. El a zdra	nastave Školska zvođenje om: izbor studente lectronic	Number copies in t library 3 - - - njege: priruč	of Ainthe	vailability via other media No Yes Yes Yes astavnike.	
Required literature (available in the library and via other media)	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>4. PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1 2014). Me cronic editi 19). Osnov pripren studija S tations fro Aldan, D. eb: Medicin par, L. & Ma	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200	odika agreb: k za iz todiko za s litu. El a zdra 2). Did	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z	Number copies in t library 3 2 3 2 - - - - - - - - - - - - - - - -	of the nik za n	vailability via other media No Yes Yes Yes astavnike.	
Required literature (available in the library and via other media)	<ol> <li>Kostović-V predmeta pri knjiga (chapte</li> <li>Milat, J. (20 nastave. Elect</li> <li>Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jense</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1- 2014). Me cronic editi 219). Osnov pripren studija S tations fro a Aldan, D. eb: Medicin har, L. & Ma en, E. (2003	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 8). Super-nastave	odika agreb: k za iz etodika za s litu. El a zdra 2). Did a: nast	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro	Number copies in t library 3 - - - njege: priruč Zagreb: Škols ategije za kvo	of A A A A A A A A A A A A A A A A A A A	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu	
Required literature (available in the library and via other media) Optional literature (at	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>4. PPT presen</li> <li>Abou Zagro Bogn</li> <li>Jense školu</li> </ol>	/ranješ, V irodoslovno ers 4- 10, 1 2014). <i>Me</i> cronic editi 19). <i>Osnov</i> <i>pripren</i> <i>studija S</i> tations fro Aldan, D. eb: Medicin nar, L. & Ma en, E. (2003	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 B). Super-nastava Educa.	odika agreb: k za iz todiko za s litu. El a zdra 2). Did a: nast	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro	Number copies in t library 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	of the nik za n ka knjig alitetnu	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu	
Required literature (available in the library and via other media) Optional literature (at the time of submission	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jense školu</li> <li>Jense</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1- 2014). Me cronic editi 19). Osnov pripren studija S tations fro a Aldan, D. eb: Medicin har, L. & Ma en, E. (2005 1. Zagreb: E	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 B). Super-nastava 5). Poučavanje s	odika agreb: k za iz todiko za s litu. El a zdra 2). Did a: nast mozgo	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro	Number copies in t library 3 - - - njege: priruč Zagreb: Škols ategije za kvo mu. Zagreb:	of the fink za n ka knjig alitetnu Educa.	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jense</li> <li>Jurči</li> </ol>	/ranješ, V irodoslovno ers 4- 10, 1 2014). Me cronic editi 19). Osnov pripren studija S tations fro Aldan, D. eb: Medicin ar, L. & Ma en, E. (2005 J. Zagreb: E en, E. (2005	Title . (2015). Meta bg područja. Za 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 B). Super-nastava Educa. 5). Poučavanje s 14). Kompetent	odika agreb: k za iz etodika za s litu. El a zdra 2). Did a: nast mozga nost r	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro om na un	Number copies in t library 3 - - - - - - - - - - - - - - - - - -	of Arithe	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu didaktičke	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jensa školu</li> <li>Jensa</li> <li>Jurčin dime</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1- 2014). Me cronic editi 19). Osnov pripren studija S tations fro a Aldan, D. eb: Medicin har, L. & Ma en, E. (2003 V. Zagreb: E en, E. (2009 ć, M. (2019)	Title . (2015). Meta bg područja. Zi 4) todički priručnih on ZS. ve didaktike s me nanje ispita veučilišta u Spl m classes. (2019). Metodik nska Naklada. atijević, M. (200 8). Super-nastava Educa. 5). Poučavanje s 14). Kompetent	odika agreb: k za iz etodiko za s litu. El a zdra 2). Did a: nast mozgo nost r vanja,	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro om na ur nastavnil 11(1), 77	Number copies in t library 3 - - - - - - - - - - - - - - - - - -	of the nik za n ka knjig alitetnu Educa. oške i	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu didaktičke	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 nastave. Elect 3. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jense školu</li> <li>Jense</li> <li>Jurči dime</li> <li>Kyria</li> </ol>	Vranješ, V irodoslovno ers 4- 10, 1- 2014). Me cronic editi 19). Osnov pripren studija S tations fro a Aldan, D. eb: Medicin har, L. & Ma en, E. (2009 v. Zagreb: E en, E. (2009 ć, M. (2009) ć, M. (2009)	Title . (2015). Meta bg područja. Za todički priručnih on ZS. re didaktike s meta nanje ispita veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 B). Super-nastava iduca. 5). Poučavanje s 14). Kompetent agogijska istražin 01) Temeljna na	odika agreb: k za iz etodiko za s litu. El a zdra 2). Did a: nast mozgo nost r vanja, astavno	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stro om na u nastavnil 11(1), 72 a umijeć	Number copies in t library 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	of A fine A final field of the	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu didaktičke	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	<ol> <li>Kostović-V predmeta pri knjiga (chapte 2. Milat, J. (20 tekstova za zdravstvenog edition ZS.</li> <li>PPT presen</li> <li>Abou Zagra</li> <li>Bogn</li> <li>Jense</li> <li>Školu</li> <li>Jense</li> <li>Školu</li> <li>Jense</li> <li>Mati</li> </ol>	/ranješ, V irodoslovno ers 4- 10, 1 2014). <i>Me</i> cronic editi 19). <i>Osnov</i> <i>pripren</i> <i>studija S</i> tations fro a Aldan, D. eb: Medicin ar, L. & Ma en, E. (2003 v. Zagreb: E en, E. (2003 v. Zagreb: E en, E. (2003 v. Zagreb: E en, E. (2004 v. Zagreb: E en, E. (2004 v. Zagreb: E en, C. (2004) cou, C. (2005) jević, M. &	Title . (2015). Meta bg područja. Zi 4) todički priručnih on ZS. ve didaktike s meta veučilišta u Spi m classes. (2019). Metodik nska Naklada. atijević, M. (200 B). Super-nastava Educa. 5). Poučavanje s 14). Kompetent agogijska istraži 101) Temeljna na Radovanović, D	odika agreb: k za iz todika za s litu. El a zdra 2). Did a: nast mozga nost r vanja, astavna . (2011	nastave Školska zvođenje om: izbor studente lectronic vstvene aktika. Z avne stru nastavnil 11(1), 7 a umijeć 1). Nasto	Number copies in t library 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	of Arithe	vailability via other media No Yes Yes Yes astavnike. ga. i uspješnu didaktičke	

Quality assurance	<ul> <li>Teaching quality analysis by students and teachers</li> </ul>
methods that ensure the	Exam passing rate analysis
acquisition of exit	Committee for control of teaching reports
competences	External evaluation
Other (as the proposer	
wishes to add)	

NAME OF THE COURSE	SE Statistics in Health Care									
Code	ZSZ712			Year of stu	ıdy	1.				
Course teacher	Antonela Assistant	Matana Profess	a, PhD or	Credits (E0	CTS)	3				
Associate teachers				Type of in: (number c	struction of hours)	L 5	S 10	E 10	Т 0	
Status of the course	Obligato	ry		Percentag of e-learni	e of application	20%				
COURSE DESCRIPTION										
Course enrolment requirements and entry competences required for the course	No requi	rements	5			5				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cor	<ul> <li>oon completion of the course, students will be able to:</li> <li>solve problems in data processing;</li> <li>use statistical analysis;</li> <li>analyze the data presentation;</li> <li>analyze scientific reports on medical research</li> </ul>								
	Type Thematic units							Ηοι	irs	
	L,S,E Statistical tests.						3	3		
Course content	L,S,E	Anal	ysis of cont	ingency table	s.			4		
Course content	L,S,E	Testi	ng of differ	rent types of r	numerical data.			5		
by weekly class	L,S,E	Data	connection	n.				5		
schedule (syllabus)	L,S,E	L,S,E Probability, basic rules for the calculation of probability. 3								
	L,S,E Evaluation of data presentation and analysis of scientific reports 5									
	on medixcal researches – guidelines for assessment of different									
		type	s of researd	ch organizatio	ns.					
	⊠ lecture	es			independent	assignme	nts			
	⊠ semin	ars and	worksnops		□ multimedia					
Format of instruction		ses								
		<i>line</i> in ei	ntirety		🗆 work with me	entor				
	D partial	l e-learn	ing		□ (other	□ (other)				
	L field w	/ork			-					
Student responsibilities	Active pa	irticipati	ion in the te	eaching proce	ess.	loarning				
Scrooning student	Class					- learning	•			
work (name the	attendan	ce		Research		Practical	training			
proportion of FCTS	Experime	ental								
credits for each	work			Report						
activity so that the	Essay			Seminar essa	v	(0)	ther)			
total number of ECTS credits is equal to the	Tests			Oral exam	7	(0)	ther)			
ECTS value of the	Written e	exam	3.0	Project		(Ot	ther)			
Grading and evaluating student	The final %).	mark fr	om the cou	irse is calculat	ed from the poir	nts from th	ne writte	n exam (:	100	

work in class and at	Grading (%)	Criteria			Grades			
the final exam	60-69.9	meets the minimum criteria		su	fficient (2)			
	70-79.9	average success			good (3)			
	80-89.9	above-average success		ve	ry good (4)			
	90-100	outstanding success		ous	standing (5)			
		Title	Num copies lib	ber of s in the rary	Availability via other media			
Required literature (available in the library and via other	Ferenczi&Muirhead (2 Statistika i epidemiolog Epidemiology-(prijevod naklada. 80%	012) Doktor u jednom potezu: gija. One Stop Doc Statistics and Marušić A . ur.). Medicinska						
media)	naklada. 80%         Bilić Zulle, Lidija; Đogaš, Zoran; Grčević, Danka; Huić,         Mirjana; Ivanić, Ana; Katavić, Vedran; Lukić, Ivan         Krešimir; Marušić, Ana; Marušić, Matko, Petrak, Jelka;         Petrovečki, Mladen; Sambunjak, Dario (2013) Uvod u         znanstveni rad u medicini, (5. izdanje), Medicinska         naklada 20%							
Optional literature (at the time of submission of study programme proposal)	<ol> <li>Petz, B. Osnovi Naklada Slap 2</li> </ol>	ne statističke metode za nematema 004.	atičare.	5. izdanj	je. Jastrebarsko:			
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Teaching quality an</li> <li>Exam passing rate a</li> <li>Committee for cont</li> <li>External evaluation</li> </ul>	alysis by students and teachers analysis trol of teaching reports						
Other (as the proposer wishes to add)								

NAME OF THE COURSE	E	Scientific Research Work								
Code	ZSZ713			Year of stu	dy	1.				
Course teacher	Davorka professo	Sutlovic or with te	, Full enure	Credits (EC	CTS)	3				
				Type of ins	struction	L	S	E	Т	
Associate teachers			Cientific Research Work         Year of study       1.         Itlovic, Full with tenure       Credits (ECTS)       3         Type of instruction (number of hours)       L       S       E         Percentage of application of e-learning       20%       10       15         COURSE DESCRIPTION         ments       COURSE DESCRIPTION         ments       Thematic units       Ho         Critical reading of articles (guidelines for different organisation: intersect research, case study, randomly controlled trials, systematic examinations).       Ho         Fundamentals of evidence-based medicine PICO scheme.       3,2         Implementation of independent research.       2,2         Itirerature search data processing       2,2         Virting a thesis       1,         Interpretation of research results       1,         s and workshops is       independent assignments is (idependent assignments)       1,         s and workshops       independent assignments       1,         s and workshops       1,       1,							
Status of the course	Obligato	ory		Percentage of e-learni	e of application ng	20%				
			COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requ	requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After the	<ul> <li>er the completed course, the students will be able to:</li> <li>analyze scientific papers;</li> <li>apply evidence-based medicine</li> <li>carry out independent research</li> </ul>								
	Туре	e Thematic units							urs	
	L, S, E	L, S, E Critical reading of articles (guidelines for different organisation: 3 intersect research, case study, randomly controlled trials, systematic examinations).							,2	
Course content	L, S, E	L, S, E Fundamentals of evidence-based medicine PICO scheme.								
broken down in detail	S, E Implementation of independent research.							2,	2	
schedule (syllabus)	S,E Literature search						1,	2		
somedule (synabus)	S,E	L, S, E       Fundamentals of evidence-based medicine PICO scheme.         S, E       Implementation of independent research.         S,E       Literature search         S,E       Scientific research data processing							2	
	S, E	Writ	ing a thesis	5				1,	3	
	S, E	Inter	pretation o	of research res	sults			1,	2	
Format of instruction	<ul> <li>☑ lectur</li> <li>☑ semir</li> <li>☑ exerc</li> <li>□ on</li> <li>□ partia</li> <li>□ field v</li> </ul>	res hars and ises <i>line</i> in e al e-learr work	workshops ntirety ing		<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with media</li> <li>(other</li> </ul>	assignme entor )	nts			
Student responsibilities	Regular Active p Passwor	class att articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identit	ss. y for access to e	- learning	Į			
Screening student work (name the	Class attenda	ass 1 Research Practical training								
proportion of ECTS credits for each	Experim work	ental		Report						
activity so that the total number of ECTS	Essay			Seminar essa	4	(O	ther)			
credits is equal to the	Tests			Oral exam		(O	ther)			
course)	Written	exam	1	Project	1	(O	ther)			

	Indicat	ors	Succes	S	Share	e in the grade
			(point	s)		(%)
	Written exam		30			50
	Project		30			50
Grading and	Total		60			100 %
evaluating student		RATIO OF SUCCESS A	AND EVALU	ATION		
the final exam	Success - percentage	criterion				grade
	60 - 69 %	meets the minimum	criteria		S	sufficient (2)
	70 – 79,9 %	average success				good (3)
	80 – 89,9 %	above-average succ	ess		v	ery good (4)
	90 - 100 %	exceptional success			6	excellent (5)
Required literature		Title		Numb copies libra	er of in the ary	Availability via other media
library and via other media)	Marušić, M., urednik, Uv izd. 2013 Zagreb, Medicir Ferenczi, E. – Muirhead, iednom potezu, 2011., Za	od u znanstveni rad n nska naklada 80% N., Statistika i epide ngreb Medicinska nakl	medicini, 5. miologija u ada. 20%			
	1. Dav RA. Gastel N	I. How to write and p	ublish a scie	ntific pa	per. 6th	edition.
	Westnort Conne	ecticut: Greenwood P	ress 2006		, , , ,	
	2 Long T. Socie M	How To Poport Statis	tics in Modi	sino: An	antatod	Cuidalinas for
	2. Lang 1, Secie IVI.	and Doviewore and	adition Dhi	ladalahi		ricen Cellege of
Optional literature (at	Authors, Eultors	, and Reviewers, Zhu	edition. Phi	ladelphi	a: Amei	Ican College of
the time of	Physicians, 2006		C			
submission of study	3. Ogrinc GS, Head	rick LA. Fundamental	s of Health C	are Imp	roveme	ent. Oakbrook
programme proposal)	Terrace (II): USA	Joint Commission Re	sources, 200	)8.		
	4. 4. Committee or	n Assessing Integrity in	n Research E	nvironm	nents. li	ntegrity in
	Scientific Resear	ch. Washington DC: I	nstitute of N	1edicine	and Na	itional Research
	Council.					
Quality assurance	<ul> <li>Teaching quality ana</li> </ul>	lysis by students and	teachers			
methods that ensure	<ul> <li>Exam passing rate an</li> </ul>	alysis				
the acquisition of exit	<ul> <li>Committee for contr</li> </ul>	ol of teaching reports				
competences	<ul> <li>External evaluation</li> </ul>					
Other (as the proposer wishes to add)	$\mathbf{)}$					

NAME OF THE COURSE	E	IT in R	adiologic <sup>-</sup>	Technology					
Code	ZSR701			Year of stu	dy	1.			
Course teacher	Assistan Mihano <sup>,</sup>	t Profess vić, PhD	sor Frane	Credits (EC	CTS)	5			
Associate teachers				Type of ins (number o	struction f hours)	L 15	S 15	E 30	Т 0
Status of the course	Obligato	ory		Percentag of e-learni	e of application	20%			
			COU	RSE DESCRIPT	ION				
Course enrolment requirements and entry competences required for the course	No requ	o requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – mar – orga syst – sup dep – sup and – join – sup	<ul> <li>Jpon completion of the course, students will be able to:</li> <li>manage the team for development and maintenance of RIS/PACS systems;</li> <li>organize and evaluate management and maintenance of digital imaging archive systems as well as informatic solutions and technologies;</li> <li>supervise management and archiving of all digital data generated at the rad department/clinic;</li> <li>supervise the quality control of work and work processes adopted according to Cr and international standards;</li> <li>join the process of generating and testing hardware and software solutions;</li> </ul>							es and diology roatian gist.
Course content broken down in detail by weekly class schedule (syllabus)	Type L,S,E	Cour theo tech from etc	rse content pretical and nologies. S n the the a	The The course co practical know tudents are in bove mention	natic units ontent relates to wledge from the troduced to all ed field, such as	the acqu field of m medical si DICOM,	isition of iedical IT tandards HL7, IHE	Ηοι 15,15,	ırs 30
Format of instruction	X lecture X sen X exerci: <i>O on</i> partia	es ninars an ses <i>line</i> in e al e-learr work	d worksho ntirety ling	ps	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with me</li> <li>(other</li> </ul>	ent assignments a mentor her)			
Student responsibilities	Regular Active p Passwor	class att articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identit	ss. y for access to e	- learning	ŗ.		
Screening student work (name the	Class attenda	nce	0,5	Research		Practical	training	2	
proportion of ECIS credits for each activity so that the	Experim work	ental		Report					
total number of ECTS	Essay			Seminar essa	y 1	(O	ther)		
credits is equal to the ECTS value of the	Tests			Oral exam		(O	ther)		
course)	Written	exam	1,5	Project		(O	ther)		

	Indicat	ors	Success	Shar	e in the grade			
			(points)		(%)			
	Class attendance		5		10			
	Seminar essay		30		60			
	Written exam		15		30			
Grading and	Total		50		100			
evaluating student work in class and at		RATIO OF SUCCESS A	AND EVALUATIO	N				
the final exam	Success - percentage	criterion			grade			
	60 - 69 %	meets the minimum	criteria		sufficient (2)			
	70 – 79.9 %	70 – 79,9 %average success						
	80 - 89.9 %	above-average succ	ess		verv good (4)			
	90 - 100 %	exceptional success			excellent (5)			
		Title Number of copies in the library						
Required literature (available in the library and via other	Janković S, Mihanović F. ( Splitu. Sveučilišni odjel zo studij radiološke tehnolo	Course materials. Sve Iravstvenih studija. Di gije. 80%	učilište u plomski					
Required literature (available in the library and via other media)	Janković S, Mihanović F. ( Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr	Course materials. Sve Iravstvenih studija. Di gije. 80% nologije i računala. 20	učilište u plomski 03. 10%					
Required literature (available in the library and via other media)	Janković S, Mihanović F. ( Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a	Course materials. Sve dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp	učilište u plomski 03. 10% ohers,					
Required literature (available in the library and via other media)	Janković S, Mihanović F. ( Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- Radiologists and Health (	Course materials. Sve dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200	učilište u plomski 03. 10% ohers, 03.					
Required literature (available in the library and via other media)	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi	Course materials. Sve Iravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 20 a Limited, London. 10	učilište u plomski 03. 10% ohers, 03. %					
Required literature (available in the library and via other media)	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski	Course materials. Sve dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf	učilište u plomski 03. 10% ohers, 03. % ormatički rječnik	k, Naklada I	_jevak, Zagreb,			
Required literature (available in the library and via other media) Optional literature (at	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000.	Course materials. Sve dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf	učilište u plomski 03. 10% ohers, 03. 03. % ormatički rječnik	k, Naklada I	.jevak, Zagreb,			
Required literature (available in the library and via other media) Optional literature (at the time of	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covir	Course materials. Sve dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto	učilište u plomski 03. 10% ohers, 03. % ormatički rječnik n: Dictionary of 0	k, Naklada I Computer a	_jevak, Zagreb, and Internet			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covin Terms, Barron's Educatio	Course materials. Sve dravstvenih studija. Di gije. 80% pologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition	učilište u plomski 03. 10% ohers, 03. % formatički rječnik n: Dictionary of ( 1, 2003.	s, Naklada I Computer a	-jevak, Zagreb, and Internet			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covir Terms, Barron's Educatio www.gehealthcare.com;	Course materials. Sver fravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips.	učilište u plomski 03. 10% ohers, 03. % ormatički rječnik n: Dictionary of ( 1, 2003. com; www.medi	k, Naklada I Computer a cal.siement	Ljevak, Zagreb, and Internet s.com; selected			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health G Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covin Terms, Barron's Educatio www.gehealthcare.com; articles and websites <u>htt</u>	Course materials. Sver dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips. o://www.ncbi.nlm.nih	učilište u plomski 03. 10% ohers, 03. ormatički rječnik n: Dictionary of ( 1, 2003. com; www.medi .gov/pubmed/	c, Naklada I Computer a cal.siemen	-jevak, Zagreb, and Internet s.com; selected			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	Janković S, Mihanović F. d Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covir Terms, Barron's Educatio www.gehealthcare.com; articles and websites http Students and lecturers' a	Course materials. Sve dravstvenih studija. Di gije. 80% hologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips. p://www.ncbi.nlm.nih nalysis of the quality o	učilište u plomski 03. 10% ohers, 03. ormatički rječnik n: Dictionary of 0 , 2003. com; www.medi .gov/pubmed/ of teaching,	s, Naklada I Computer a cal.siemen	-jevak, Zagreb, and Internet s.com; selected			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covin Terms, Barron's Educatio www.gehealthcare.com; articles and websites http Students and lecturers' a - Analysis of the exam sur-	Course materials. Sver dravstvenih studija. Di gije. 80% hologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips. o://www.ncbi.nlm.nih nalysis of the quality o ccess rate,	učilište u plomski 03. 10% ohers, 03. ormatički rječnik n: Dictionary of ( 1, 2003. com; www.medi .gov/pubmed/ of teaching,	x, Naklada I Computer a cal.siemen	-jevak, Zagreb, and Internet s.com; selected			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covin Terms, Barron's Educatio www.gehealthcare.com; articles and websites http Students and lecturers' a - Analysis of the exam suc- Reports of the Teaching	Course materials. Sver dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips. o://www.ncbi.nlm.nih nalysis of the quality o ccess rate, control Committee,	učilište u plomski 03. 10% ohers, 03. ormatički rječnik n: Dictionary of ( 1, 2003. com; www.medi .gov/pubmed/ of teaching,	x, Naklada I Computer a cal.siemen	Ljevak, Zagreb, and Internet s.com; selected			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Janković S, Mihanović F. G Splitu. Sveučilišni odjel zo studij radiološke tehnolo M. Medvedec. Nove tehr Oakly J. Digital Imaging- a Radiologists and Health C Greenwich Medical Medi M. Kiš: Englesko-hrvatski 2000. D.A. Downing, M.A. Covir Terms, Barron's Educatio www.gehealthcare.com; articles and websites <u>http</u> Students and lecturers' a - Analysis of the exam sur - Reports of the Teaching - External evaluation (visi	Course materials. Sver dravstvenih studija. Di gije. 80% nologije i računala. 20 a Primer for Radiograp Care Professionals. 200 a Limited, London. 10 /hrvatsko-engleski inf ngton, M.M. Covingto nal Series; 8th edition www.medical.philips.co p://www.ncbi.nlm.nih nalysis of the quality of ccess rate, ; Control Committee, ts by the quality cont	učilište u plomski 03. 10% ohers, 03. 007 ormatički rječnik n: Dictionary of 0 n, 2003. <u>com; www.medi</u> .gov/pubmed/ of teaching, rol teams of the	k, Naklada I Computer a cal.siemen National A	Ljevak, Zagreb, and Internet <u>s.com</u> ; selected			

NAME OF THE COURSE	E	Eviden	ce-based	Interventior	and Angiogra	phy Met	hods		
Code	ZSR702			Year of stu	ıdy	1.			
Course teacher	Assistan Batinić,	it Profess MD, PhD	sor Tonči	Credits (E	CTS)	5			
Associate teachers	Doc.dr.s Mentors	sc. Ivana s from te	Štula aching bas	es Type of in	struction	L	S	E	Т
				(number c	nours)	15	15	30	0
Status of the course	Obligato	ory		Percentag of e-learni	e of application	20%			
	<u>.</u>		COU	RSE DESCRIPT	ION				
Course enrolment requirements and entry competences required for the course	No requ	irements	5		~	2			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – pari – app – pari – pari	pon completion of the course, students will be able to: participate in teamwork when conducting digital angiography – DSA; apply work stations for processing digital images in the field of angiography recor participate in PTA imaging of blood vessels; participate in performing embolisation of blood vessels; participate in stenting of blood vessels; participate in transcatheter cytostatic application; participate in fluoroscopically-guided cytological puncture and biopsy; participate in ultrasond-, CT- and/or MSCT-guided cytological puncture and biops participate in providing nephrostomy, drainage of bile ducts, cysts and abscesses; apply principles, modes and technologies for using angiography devices (DSA, Rc DSA, Filters, Optimisation of radiation dose for patients and staff during							rding; sy; ; otating device
Course content broken down in detail by weekly class schedule (syllabus)	Type L,S,E	The prac angi plair	course con tical know ography di detectors	Ther tent relates to ledge from gital devices	natic units the acquisition the field of in with plain detec	of theore nterventic ctors and	tical and nal and dynamic	Hou 15,15,	ırs 30
Format of instruction	□X lecto □X sem □X exer □ on □ partia □ field	ures inars and rcises <i>line</i> in e al e-learn work	d workshop ntirety ing	05	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with m</li> <li>(other</li> </ul>	nt assignments nentor er)			
Student responsibilities	Regular Active p Passwor	class atte articipat rd for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identi	ss. y for access to e	- learning	<i>z</i> .		
Screening student	Class		0.5	Research		Practical	training	2	
work (name the	attenda	nce	- ,-						
proportion of ECTS credits for each	Experim work	iental		Report					
activity so that the	Essay			Seminar essa	y 1	(0	ther)		

total number of ECTS	Tests		Oral exam		(0	Other)		
ECTS value of the course)	Written exam	1,5	Project		(0	Other)		
		Indicat	ors	Succe (poin	ess ts)	Share	e in the grade (%)	
	Written exam			60			100	
	Total			60			100	
Grading and evaluating student		RATIO OF SUCCESS AND EVALUATION						
work in class and at the final exam	Success - pero (%)	Success - percentage criterion (%)					grade	
	60 - 69	%	meets the minim	um criteria		S	ufficient (2)	
	70 – 79,9	%	average success				good (3)	
	80 – 89,9	%	above-average su	iccess		V	ery good (4)	
	90 - 100	%	exceptional succe	ess		e	excellent (5)	
Required literature			Title		Numb copies libr	per of in the ary	Availability via other media	
(available in the library and via other	Hebrang A., Lovr naklada, Zagreb.	enčić M. 50%	Radiologija. 2007.	Medicinska				
media)	Mašković J, Jank radiologije. 2003 Split. 50%	ović S.Oc 8.Medici	labrana poglavlja i nski fakultet Sveuč	ntervencijske ilišta u Splitu,				
Optional literature (at the time of submission of study programme proposal)	<ol> <li>Mašković J, inženjere n</li> <li>Available li and digitali</li> <li><u>www.gel</u> http://www</li> </ol>	Cambj-S nedicinsk iterature zators. nealthc v.ncbi.nli	Sapunar L Kompjut e radiologije. (Autl provided by produ are.com; www.l m.nih.gov/pubmed	erizirana tomo horized hando ucers of angiog <u>medical.phil</u> I/	ografija i o uts) 2004 graphy di ips.com	digitalna 4. gital rad <u>1</u> ;	a radiografija za liographic devices	
Quality assurance methods that ensure the acquisition of exit competences	Students and lec - Analysis of the - Reports of the - External evalua Control, externa	turers' a exam suc Teaching tion (visi I evaluat	nalysis of the quali ccess rate, Control Committe ts by the quality co ion and self-analys	ty of teaching, ee, ontrol teams o is.	, f the Nat	ional Ag	ency for Quality	
Other (as the proposer wishes to add)								
					_	_		

NAME OF THE COURSE	Evidence-based Ap	proach to Meth	ods and Techno	ology in I	Nuclear	Medicin	ie		
Code	ZSR703	Year of stu	ıdy	2.					
Course teacher	Full professor Ante Pun MD, PhD	da, Credits (EG	CTS)	10					
Associate teachers	Assistant Professor Ana Žižić, MD, PhD Assistant Professor Ves Torlak, PhD	ela (number c	struction of hours)	L 20	S 20	Е 30	Т 0		
Status of the course	Obligatory	Percentag of e-learni	e of application	20%					
		COURSE DESCRIPT	TION						
Course enrolment requirements and entry competences required for the course	No requirements		2	$\mathbf{S}$					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>Upon completion of the</li> <li>prepare radionuclio</li> <li>arrange individual of</li> <li>participate in taking gamma camera imaging;</li> <li>handle NM instrum SPECT digital image integrity of the acquimage;</li> <li>participate in provider of the vision field procedures that medical staff and devices, participate in the medical staff and devices, participate</li> </ul>	e course, students des and participat doses (activities) a g medical history a aging (in collabora propriate position mentation to: cho ges, follow the p uired image, repla ding radionucleide ity of work stan medical radiology eras – «peaking», d; partial partici , monthly or and programme that patients: adhere the in optimisation measures (if neede	will be able to: e in labelling radio and measure activ and preparing pat ition with a docto ns to be examine rocess of image ce collimatores, p e therapy; dards at NM de r engineers perf intrinsic or exstrin pation in period nualy - a range provides protec to the principles in of radiat d)	opharmae ities by u ients to b r); ed by me for provie acquisition partment orocess ar partment orocess ar partment or partment partment orocess ar partment orocess ar partment oroces partment orocess ar partment orocess ar pa	ceuticals; sing dose e examin eans of g ding stat on, analy nd print the es: daily ependent sisment of lity cont neters the neters the n ionisin ection, a section a	e calibato ned by ma gamma c ic, dinam vse quali he acquir quality o tly (eg. f the unif rol proc nat have g radiati pply pro and impl	eans of amera aic and ty and ed NM control energy formity edures to be on for tective ement		
Course content broken down in detail by weekly class schedule (syllabus)	Type L,S,E practical k medicine nephrology	e         Thematic units         Hours           The course content relates to the acquisition of theoretical and practical knowledge that involves application of nuclear medicine methods in oncology, haemathology, cardiology, nephrology, urology, gastroenerology and endocrinology.         20,20,30							
Format of instruction	X□ lectures □X seminars and works X□ exercises □ on line in entirety □ partial e-learning	shops	<ul> <li>independent a</li> <li>multimedia</li> <li>laboratory</li> <li>work with me</li> <li>(other)</li> </ul>	assignme ntor	nts				

	□ field work								
Student responsibilities	Regular class att Active participat Password for AA	endance ion in the I EduHr e	e teaching process electronic identity	s. for a	iccess to e	- learning	g.		
Screening student work (name the	Class attendance	2	Research			Practical	trainin	g 4	
proportion of ECTS credits for each	Experimental work		Report						
activity so that the total number of ECTS	Essay		Seminar essay			(0	ther)		
credits is equal to the	Tests		Oral exam			(0	ther)		
course)	Written exam	4	Project			(0	ther)		
	Written exam	Indicators Success Share in the grade (points) (%) n exam 30 50							
	Practical trainir	al training 30 50							
Grading and evaluating student	Total		RATIO OF SUCCE	ESS A	ND EVALU	ATION		100	
work in class and at the final exam	Success - perc (%)	centage	criterion				grade		
	60 - 69	%	meets the minin	num	criteria		sufficient (2) good (3)		
	80 – 89,9 % above-average success						V	good (3) erv good (4)	
	90 - 100	%	exceptional succ	cess			e	excellent (5)	
			Title			Numb copies i libra	er of in the iry	Availability via other media	
Required literature (available in the library and via other media)	<ol> <li>Ivančević D (u naklada, Zagreb</li> <li>St. Vincent's H</li> <li>S.E. : Single-phot primer, The Soci Madison Avenue</li> <li>Prezentacije i</li> </ol>	r) Klinički 1999. Hospital M ton emiss ety of Nu e, NY 100 nastavni	a nuklerna medici Melbourne.; Englis sion computed ton Iclear medicine 19 16. materijal s web-a	ina,M sh R.J mogr 986, 1	ledicinska I., Brown aphy: A I36				
Optional literature (at the time of submission of study programme proposal)	1. S. Janković, D. Medicinska nakl 2. <u>www.gehealth</u> articles and web 3. http://www.n	Eterović ada Zagre icare.com sites icbi.nlm.r	: Fizikalne osnove eb, 2002. n; <u>www.medical.pl</u> nih.gov/pubmed/	i klir hilips	nički aspekt <u>.com</u> ; <u>www</u>	i medicir v.medica	nske diji I <u>.sieme</u>	agnostike, <u>ns.com</u> :; selected	
Quality assurance methods that ensure the acquisition of exit competences	Students and lec - Analysis of the - Reports of the - External evalua Control, externa	cturers' a exam suo Teaching ition (visi I evaluati	nalysis of the qua ccess rate, Control Committ ts by the quality c ion and self-analy	lity o ee, contro sis.	f teaching, ol teams of	the Nati	onal Ag	ency for Quality	
Other (as the proposer wishes to add)									

NAME OF THE COURSE		Eviden	ce-based	Approach to Methods and Technology in MRI					
Code	ZSR704			Year of study 2.					
Course teacher	Associate Krešimir	e profes: Dolić, N	sor ID, PhD	Credits (E0	CTS)	10			
Associate teachers	Assistant Lovrić Ko Assistant Mihanovi Assistant Štula, ME Ivan Skeji	profess jundžić, profess ić, PhD profess ), PhD ić, bacc.	or Sanja MD, PhD or Frane or Ivana rad. techn	Type of in: (number c	struction f hours)	L 20	S 20	E 30	Т 0
Status of the course	Obligator	ТУ		Percentag of e-learni	e of application ng	20%			
		COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	No requii	o requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon con - parti the r - perfo - parti apply - sort i - mana - modi	pon completion of the course, students will be able to: participate in development of new protocols and imaging sequences in agre the radiologist for the purpose of improving the quality of diagnostic imagin perform MRI and MRA scans; participate in scientific-research teamwork when MRI tests are performed applying new methods and software solutions; sort images manage MRI image database modify image formats						agreeme ging proc ed by me	nt with cedure; eans of
	Туре			Ther	natic units			Ηοι	ırs
Course content broken down in detail	L,S,E	Phys devid	ical princip ces.	les and opera	ting modes of m	agnetic re	esonance	10,10	),15
schedule (syllabus)	L,S,E	Appl well	ication of N as in the fi	VIRI imaging r eld of scientifi	nethods in all are c research.	eas of me	dicine as	10,10	),15
Format of instruction	X lectur X semin X exerc <i>on l</i> partial	Well as in the field of scientific research.         IX lectures         IX seminars and workshops         IX exercises         Independent assignments         Imultimedia         Imultimedia </td <td></td> <td></td>							
Student responsibilities	Regular c Active pa Passworc	lass atte rticipati for AA	endance. on in the t I EduHr ele	eaching proce ctronic identi	ss. y for access to e	- learning	<i>7</i> .		
Screening student	Class attendan	ce	1	Research	2	Practical	training	2	
proportion of ECTS	Experime work	ental		Report					
activity so that the	Essay			Seminar essa	y 2	(0	ther)		

total number of ECTS	Tests		Oral exam		(C	Other)		
ECTS value of the course)	Written exam	3	Project		(C	Other)		
		Indicat	ors	Succe (poin	ess ts)	Share	in the grade (%)	
	Class attendan	ce		10			10	
	Seminar essay			60			60	
	Report			30			30	
Grading and	Total			100			100	
evaluating student work in class and at			RATIO OF SUCCE	SS AND EVALU	ATION			
the final exam	Success - pero (%)	centage		grade				
	60 - 69	%	meets the minim	um criteria		S	ufficient (2)	
	70 – 79,9	)%	average success				good (3)	
	80 – 89,9	)%	above-average s	uccess		Ve	ery good (4)	
	90 - 100	%	exceptional succ	ess		e	xcellent (5)	
Required literature		Title Number of copies in the library						
library and via other media)	<ol> <li>S. Janković, D. aspekti medicins Zagreb, 2002.</li> <li>Presentations</li> </ol>	Eterović ske dijagr and cou	:: Fizikalne osnove nostike, Medicinsk rse materials from	i klinički a naklada the website.				
Optional literature (at	Literature availa	ble from	MRI device produ	cers				
the time of	2.www.gehealth	icare.com	<u>n;www.medical.ph</u>	<u>ilips.com; www</u>	w.medica	l.sieme	<u>ns.com</u> :;	
submission of study	odabrani članci i	web stra	anice					
programme proposal)	3. http://www.n	cbi.nlm.r	hih.gov/pubmed/					
Quality assurance	Applysis of the	cturers a	nalysis of the qual	ity of teaching,	•			
methods that ensure	- Reports of the	Teaching	Control Committe	סמ				
the acquisition of exit	- External evalua	ition (visi	ts by the quality c	ontrol teams o	f the Nat	ional Ag	encv for Quality	
competences	Control, externa	l evaluat	ion and self-analys	sis.				
Other (as the								
proposer wishes to								
add)								

NAME OF THE COURSE	E	Evidence-based Approach to Methods and Technologies in CT								
Code	ZSR705			Year of stu	ıdy		2.			
Course teacher	Associate Tade Tad	e profes lić, MD,	sor PhD	Credits (E	CTS)		10			
Associate teachers				Type of in: (number o	struct of hou	ion irs)	L 20	S 20	E 30	Т 0
Status of the course	Obligato	ry		Percentag of e-learni	e of a ng	pplication	20%			1
	-		COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requi	rements	5			~	5			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co - partici as per - apply from C - apply fusion - partici and ve	on completion of the course, students will be able to: articipate in CT examinations and diagnostic procedures, dynamic and CTA tests as a perfusion CT scans; oply modern software equipment for processing CT images and "raw" data obta om CT and MSCT scans; oply modern software equipment for processing images such as (3D, 4D, VRT, In usion, SSD, Stereo Image, Real time 3D, virtual endoscopy, densitometry software, articipate in digital CT coronary angiography and ventriculography with images of and venticular function							as well otained Image e, etc.); of heart	
	Type			Ther	natic	units			Но	urs
Course content broken down in detail by weekly class	L,S,E	Phys as w Appl	ical princip ell as recor ication of (	les and operanstruction of in Tand MSCT a	ting n nages is an i	nodes of CT s/layers from maging me	and MSC m "raw" thod in a	CT devices materials. Il areas of	10,10,	.15
schedule (syllabus)		med	icine as we	ll as in the fie	ld of s	scientific re	search.			
Format of instruction	□X lectu □X semi □X exero □ on □ partia □ field w	ires nars and cises <i>line</i> in e l e-learn vork	d workshop ntirety ing	25	□ in □ m □ la □ w □	dependent ultimedia boratory ork with mo (other	assignm entor )	ents		
Student responsibilities	Regular o Active pa Password	class atte articipat d for AA	endance. ion in the t I EduHr ele	eaching proce	ess. ty for	access to e	- learnir	ıg.		
Screening student work (name the	Class attendar	nce	1	Research	2		Practica	l training	2	
proportion of ECTS credits for each	Experime work	ental		Report						
activity so that the total number of ECTS	Essay			Seminar essa	y 2		(0	Other)		
credits is equal to the	Tests			Oral exam			(Other)			
course)	Written e	exam	3	Project			(0	Other)		
Grading and evaluating student			Indicator	S		Succe (poin	ess ts)	Share ii	n the gra (%)	de

work in class and at	Class attendance		10			10
the final exam	Seminar essay		60			60
	Report		30			30
	Total		100			100
		RATIO OF SUCCESS A	AND EVALU	ATION		
	Success - percentage (%)	criterion				grade
	60 - 69 %	meets the minimum criteria			5	sufficient (2)
	70 – 79,9 %	average success				good (3)
	80 – 89,9 %	above-average succe	ess		v	ery good (4)
	90 - 100 %	90 - 100 % exceptional success				excellent (5)
Required literature	Title			Numb copies libra	er of in the ary	Availability via other media
library and via other media)	<ol> <li>S. Janković, D. Eterović: Fizikalne osnove i klinički aspekti medicinske dijagnostike, Medicinska naklada Zagreb, 2002.</li> <li>Presentations and course materials from the website.</li> </ol>					
Optional literature (at the time of submission of study programme proposal)	1. Literature available fro 2. <u>www.gehealthcare.co</u> selected papers and web 3. http://www.ncbi.nlm.	om CT and MSCT devic m; <u>www.medical.philip</u> osites nih.gov/pubmed/	ce producers os.com; www	s. w.medica	al.sieme	ens.com:;
Quality assurance methods that ensure the acquisition of exit competences	Students and lecturers' a - Analysis of the exam su - Reports of the Teaching - External evaluation (vis Control, external evaluat	nnalysis of the quality of ccess rate, g Control Committee, its by the quality cont cion and self-analysis.	of teaching, rol teams of	the Nati	ional A្	gency for Quality
Other (as the proposer wishes to add)						

NAME OF THE COURSE	E	Evidence-based App Radiotherapy	roach to Methods and Tech	nology in	Oncolog	y and				
Code	ZSR706		Year of study	2.						
Course teacher	Assistan Boraska	t Professor Tihana Jelavić, MD, PhD	Credits (ECTS)	10						
Associate teachers			Type of instruction	L	S	E	Т			
Status of the course	Obligato	pry	Percentage of application	20	20	30	0			
	<u>.</u>	COURS	E DESCRIPTION							
Course enrolment requirements and entry competences required for the course	No requ Upon co – use	pon completion of the course, students will be able to: • use linear accelerator; • use CT simulator;								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul> <li>use</li> <li>prep</li> <li>app</li> <li>part</li> <li>cons</li> <li>isot</li> <li>cost</li> <li>cost</li> <li>perf</li> <li>tato</li> <li>recc</li> <li>follo</li> <li>expl</li> <li>and</li> <li>sugg</li> </ul>	<ul> <li>use CT simulator;</li> <li>prepare necessary instruments and other equiment needed for radiotherapy;</li> <li>apply IGRT and new methods in radiotherapy;</li> <li>participate in construction of radiotherapy masks;</li> <li>construct protection shields together with lung shields;</li> <li>construct a mould for application of intracavitary radiotherapy and percutaneo isotope therapy;</li> <li>costruct splints for children to fix the limbs;</li> <li>perform imaging procedures of defined radiation fields during planning;</li> <li>tatoo central point and peripheral points of radiation fields;</li> <li>record data in patients' radiotherapy protocols;</li> <li>follow and maintain demarcated radiation fields;</li> <li>explain the patient about potential difficulties occurring as a consequence of radiation and suggest conversation with the doctor;</li> </ul>								
Course content broken down in detail by weekly class schedule (syllabus)	Type L,S,E	Physical principles devices and their brachytherapy tre controlling linear simulation, contro New techniques a - ART – Adaptive - IMRT- Intensity - MLC- Multileaf - IGRT – Image G - MVCB – Megav - Softwares for p imaging diagnosti - CT and MSCT d	Thematic units         Physical principles and operating modes of radiotherapeutic         devices and their functions, teletherapy treatment units,         brachytherapy treatment units, computers in radiotherapy,         controlling linear accelerator, controlling simulator, CT         simulation, controlling Co-60 device.         New techniques and devices for radiotherapy planning.         - ART – Adaptive Radiation Therapy         - IMRT- Intensity Modulated Radiation Therapy         - MLC- Multileaf Collimator         - IGRT – Image Guided Radiation Therapy         - MVCB – Megavoltage Cone Beam Imaging Package         - Softwares for planning and applying radiotherapy as well as imaging diagnostic equipment							
Format of instruction	X lectur	es	□ independent	assignme	nts					

	X seminars and v	workshop	S	🗆 multimedia											
	X exercises			🗆 lal	boratory										
	□ <i>on line</i> in e	ntirety		□ w	ork with me	entor									
	partial e-learr	ning			(other	)									
	□ field work				•	•									
Churchenet	Regular class att	endance.													
Student	Active participat	ion in the	e teaching proces	ss.											
responsibilities	Password for AA	l EduHr e	electronic identity	y for	access to e	- learnin	g.								
Screening student	Class	1	Desservels	2		Duestical	tusisis	- 2							
work (name the	attendance	T	Research	2		Practical	training	g Z							
proportion of ECTS	Experimental		Donort												
credits for each	work		кероп												
activity so that the	Essay		Seminar essay	2		(0	ther)								
total number of ECIS credits is equal to the	Tests		Oral exam			(	)ther)								
ECTS value of the		2	Ducient				() () () () () () () () () () () () () (								
course)	Written exam	3	Project			(L	ither)								
		Indicat	ors		Succe	ess	Share	e in the grade							
					(poin	ts)		(%)							
	Class attendance				10			10							
	Seminar essay				60		60								
Crading and	Report				30			30							
ovaluating student	Total				100	)		100							
work in class and at			RATIO OF SUCC	ESS A	AND EVALU	ATION									
the final exam	Success - perc	centage	criterion					grade							
	(%)														
	60 - 69 % meets the mir			mum	criteria		S	ufficient (2)							
	70 – 79,9 % average succe							good (3)							
	80 – 89,9 % above-averag				success			ery good (4)							
	90 - 100	%	exceptional suc	cess			e	excellent (5)							
	Number of Availabi							Availability	via						
			Title	co		copies	in the	other med	ia						
<b>Required literature</b>	1 Čerejie Krejie	- Duniži (		Cla		libra	ary								
(available in the	1. Samija, Krajina	a, Purisic:	RADIOTERAPIJA	, GIO	bus Zagreb										
library and via other	1990 2 S. Janković D.	Etorović	· Eizikalna osnov		nički										
media)	2. 3. Jaliković, D.		ostiko Modicine		aklada										
	aspekti medicinske dijagnostike, Medicinska naklada														
	Zagreb, 2002.														
	Zagreb, 2002. 3 Presentations	and cour	se materials from	n the	e website			3. Presentations and course materials from the website.							
Ontional literature (at	Zagreb, 2002. 3. Presentations	and cour	se materials from	n the	e website. evice produ	ICERS									
Optional literature (at the time of	Zagreb, 2002. 3. Presentations 1. Literature ava 2.www.gehealth	and cour ilable fro	se materials from m radiotherapeu	n the itic d	e website. evice produ s.com: www	ucers. w.medica	l.sieme	ns.com:: selec	cted						
Optional literature (at the time of submission of study	Zagreb, 2002. 3. Presentations 1. Literature ava 2.www.gehealth articles and web	and cour ilable fro care.com sites	se materials from m radiotherapeu n;www.medical.p	n the itic d	e website. evice produ <u>s.com</u> ; <u>wwy</u>	ucers. w.medica	l.sieme	<u>ns.com</u> :; seled	cted						
Optional literature (at the time of submission of study programme proposal)	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n	and cour ilable fro care.com sites cbi.nlm.r	se materials from m radiotherapeu n; <u>www.medical.p</u> nih.gov/pubmed/	m the itic d philip	e website. evice produ <u>s.com</u> ; <u>www</u>	ucers. w.medica	l.sieme	<u>ns.com</u> :; seled	cted						
Optional literature (at the time of submission of study programme proposal)	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec	and cour ilable fro icare.com sites icbi.nlm.r cturers' al	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua	m the itic d <u>philip</u> / ality o	e website. evice produ s.com; www	ucers. w.medica	l.sieme	<u>ns.com</u> :; selec	cted						
Optional literature (at the time of submission of study programme proposal) Quality assurance	Zagreb, 2002. 3. Presentations 1. Literature ava 2.www.gehealth articles and web 3. http://www.n Students and lec - Analysis of the	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate,	m the itic d <u>philip</u> / ality (	e website. evice produ <u>s.com</u> ; <u>www</u> of teaching	ucers. w.medica	l.sieme	<u>ns.com</u> :; seled	cted						
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec - Analysis of the - Reports of the	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc Teaching	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate, Control Commit	m the itic d philip ality o tee,	e website. evice produ s.com; www of teaching,	ucers. w.medica	l.sieme	<u>ns.com</u> :; seled	cted						
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec - Analysis of the - Reports of the - External evalua	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc Teaching ttion (visi	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate, Control Commit ts by the quality	m the itic d <u>philip</u> ality d tee, conti	e website. evice produ s.com; www of teaching rol teams o	ucers. w.medica , f the Nati	I.sieme	<u>ns.com</u> :; selec	lity						
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec - Analysis of the - Reports of the - External evalua Control, externa	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc Teaching ttion (visi l evaluati	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate, Control Commit ts by the quality on and self-analy	m the itic d <u>philip</u> ality d tee, conti ysis.	e website. evice produ <u>s.com</u> ; <u>www</u> of teaching rol teams o	ucers. w.medica , f the Nati	I.sieme	<u>ns.com</u> :; seled	lity						
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec - Analysis of the - Reports of the - External evalua Control, externa	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc Teaching tion (visi l evaluati	se materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate, Control Commit ts by the quality on and self-analy	m the itic d philip ality o tee, contr ysis.	e website. evice produ <u>s.com; www</u> of teaching, rol teams o	ucers. w.medica , f the Nati	I.sieme	<u>ns.com</u> :; selec	lity						
Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to	Zagreb, 2002. 3. Presentations 1. Literature ava 2. <u>www.gehealth</u> articles and web 3. http://www.n Students and lec - Analysis of the - Reports of the - External evalua Control, externa	and cour ilable fro care.com sites cbi.nlm.r cturers' an exam suc Teaching tion (visi l evaluati	rse materials from m radiotherapeu n;www.medical.p nih.gov/pubmed/ nalysis of the qua ccess rate, Control Commit ts by the quality on and self-analy	m the itic d philip ality d tee, contr ysis.	e website. evice produ s.com; www of teaching rol teams o	f the Nati	l.sieme	<u>ns.com</u> :; selec	lity						

NAME OF THE COURSE		Evidence-based Approach to Digital Radiographic Systems									
Code	ZSR707			Year of stu	dy	2.					
Course teacher	Stipan Ja professo	inković, l r with te	MD, Full enure	Credits (EC	TS)	5	2. 5 L S E T 15 15 30 0 20% g methods of presentation; fusion, SSD, Stereo Image, Re ty devices; es and image transmission; n operating theaters; nography images; intergrated detectors; oftwares. Hours ield of digital itizers for and integration				
				Type of ins	truction	L	Systems         S       E         15       30         15       30         thods of presentation;         n, SSD, Stereo Image,         vices;         d image transmission;         erating theaters;         apply images;         grated detectors;         ares.         Hour         of digital         s for         integration         d         systems         ments         hing.         cal training       1	Т			
Associate teachers				(number o	f hours)	15	15	30	0		
Status of the course	Elective			Percentage of e-learning	e of application	20%					
	<u> </u>		COU	RSE DESCRIPT	ION						
Course enrolment requirements and entry competences required for the course	No requi	rements	5			5					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – appl – appl – use time – use – perf – perf – perf – use – perf – perf – perf – perf	<ul> <li>pon completion of the course students will be able to:</li> <li>apply digital and/or digitalized conventional contrasting methods of presentation;</li> <li>apply digital fluoroscopy with dynamic detectors;</li> <li>apply digital linear tomography;</li> <li>use modern software equipment (3D,4D,VRT, Image fusion, SSD, Stereo Image, Retime 3D) for image processing;</li> <li>use fluoroscopy and fluorography with mobile radiology devices;</li> <li>perform imaging with mobile digital radiography devices and image transmission;</li> <li>perform imaging with mobile digital diascopic devices in operating theaters;</li> <li>perform digital mamography and process digital mammography images;</li> <li>perform imaging with digital radiography devices with intergrated detectors;</li> <li>use digitalizators and phosphor plates;</li> <li>perform digital dental radiography;</li> </ul>							n; e, Real ı;		
Course content broken down in detail by weekly class schedule (syllabus)	Type L,S,E	Theo radio digit of th mod	oretical and ography de ization of r ose digital alities as w	Then I practical know vices with flat adiographic im systems into r rell as their into	natic units wledge from the detectors and d nages. Applicatic adiography devi egration into RIS	e field of d igitizers fo on and inte ices and S/PACS sys	igital or egration tems	Hou 15,15,	ırs 30		
Format of instruction	X lecture X semina X exercis On partia	es ars and v ses <i>line</i> in er l e-learn vork	vorkshops ntirety ing		<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with media</li> <li>(other</li> </ul>	assignme entor )	nts				
Student responsibilities	Regular o Active pa Passwore	class atte articipati d for AA	endance. ion in the t I EduHr ele	eaching proce	ss. y for access to e	- learning	[.				
Screening student	Class		0,5	Research	0,5	Practical	training	1			
work (name the proportion of ECTS credits for each	Experime work	ental		Report							
activity so that the	Essay			Seminar essay	/ 1	(O	ther)				

total number of ECTS	Tests		Oral exam		(0	Other)			
ECTS value of the course)	Written exam	2	Project		(0	Other)			
		Indicate	ors	Succe (point	ss :s)	Share	e in the grade (%)		
	Written exam			60			100		
	Total 60 100								
Grading and evaluating student			RATIO OF SUCCE	SS AND EVALU	ATION				
the final exam	Success - perc (%)	entage	criterion				grade		
	60 - 69 9	%	meets the minim	ium criteria		s	ufficient (2)		
	70 – 79,9	%	average success				good (3)		
	80 – 89,9	%	above-average s	uccess		v	ery good (4)		
	90 - 100	%	exceptional succ	ess		e	excellent (5)		
		Title Number of copies in the library							
(available in the library and via other media)	tomografija i digitalna radiografija za radiološke tehnologe. (Authorized course material) 2004. 2. S. Janković, D. Eterović: Fizikalne osnove i klinički aspekti medicinske dijagnostike, Medicinska naklada Zagreb, 2002. 3. Presentations and course materials from the website.								
Optional literature (at the time of submission of study programme proposal)	1. Oakly J. Digita Professionals. Gr 2. Prokop M., Ga New York, 2003 3. Literature ava 4. <u>www.gehea</u> <u>www.medical</u> 5. http://www.n	l Imaging reenwich Ianski M. Ilable frou Ithcare. .siemen cbi.nlm.n	- a Primer for Rad Medical Media Li Spiral and Multis m producers of di <u>com;www.med</u> <u>IS.COm</u> :; odabrar ih.gov/pubmed/	iographers, Rad mited, London, lice Computed gital radiograph dical.philips.co ii članci i web s	diologist 2003. Tomogr hy device <u>com</u> ; tranice	s and He apy of tl es and d	ealth Care he Body. Thieme, igitizers.		
Quality assurance methods that ensure the acquisition of exit competences Other (as the	Students and lec - Analysis of the - Reports of the - External evalua Control, external	turers' ar exam suc Teaching tion (visit I evaluati	nalysis of the qual cess rate, Control Committe s by the quality c on and self-analys	ity of teaching, ee, ontrol teams o sis.	f the Nat	tional Ag	gency for Quality		
proposer wishes to add)									

NAME OF THE COURSE	E Evidence-based Approach to Computerised Radiological Methods								
Code	ZSR708			Year of stu	ıdy	2.			
Course teacher	Associat Krešimir	e profes Dolić, N	sor 1D, PhD	Credits (EC	CTS)	5			
Associate teachers				Type of ins (number o	struction f hours)	L 10	S 10	E 30	Т 0
Status of the course	Elective			Percentag of e-learni	e of application ng	20%			
			COU	RSE DESCRIPT	ION				
Course enrolment requirements and entry competences required for the course	No requi	rements	5						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – use com – use reso – use subs	<ul> <li>use knowledge, competences and skills related to diagnostic application of computerized tomography devices;</li> <li>use knowledge, competences and skills related to diagnostic application of magnetic resonance imaging;</li> <li>use knowledge, competences and skills related to diagnostic application of digital substraction angiography.</li> </ul>							
	Туре			Ther	natic units			Ηοι	ırs
Course content broken down in detail by weekly class schedule (syllabus)	Type         Thematic units         Hours           L,S,E         Historical development of computorized diagnostic methods, physical operating principles, parts of devices and operating modes of computorized devices, application of contrasting agents, MR, CT, DSA in diagnostics of specific organ systems: head and neck, thorax, abdomen, pelvis, extremities, skeletal/joint system         10,10,30						30		
Format of instruction	□X lectu □X sem □X exer □ on □ partia □ field v	ures inars and cises <i>line</i> in e l e-learn vork	d workshop ntirety ling	05	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with media</li> <li>(other</li> </ul>	assignme entor	nts		
Student responsibilities	Regular Active pa Passwor	class atte articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identit	ss. sy for access to e	e - learning	ŗ.		
Screening student work (name the	Class attendar	nce	0,5	Research	0,5	Practical	training	1	
proportion of ECIS credits for each	Experime work	ental		Report					
activity so that the total number of FCTS	Essay			Seminar essa	y 1	(O	ther)		
credits is equal to the	Tests			Oral exam		(O	ther)		
ECTS value of the course)	Written	exam	2	Project		(O	ther)		

	Indicat	ors	Succes	s	Share	e in the grade		
	Class attandance		(point:	S)		(%)		
			5			10		
	Seminar essay		30		20			
	Tetel		100			30		
Grading and	Total		100			100		
evaluating student work in class and at		RATIO OF SUCCESS /	AND EVALUA					
the final exam	Success - percentage	criterion				grade		
	(%)				8			
	60 - 69 %	meets the minimum		5	sufficient (2)			
	70 – 79,9 %	average success				good (3)		
	80 - 89,9 %	above-average succ	ess		V	ery good (4)		
	90 - 100 %	exceptional success				excellent (5)		
		90 - 100 % exceptional success						
		Title		copies	in the	Availability via		
<b>.</b>				library		other media		
Required literature	1. Hebrang A., Klarić Čus	tović (ur). Radiologija.						
(available in the	Medicinska naklada, Zag	reb, 2006.						
media)	2. Mašković J, Cambj-Sapunar L Kompjuterizirana							
ineula)	tomografija i digitalna ra	diografija za radiološk	e					
	tehnologe. (Autorizirana	skripta) 2004.						
	3. Presentations and cou	rse materials from the	e website.					
	1. Kelly LL. Computed to	mography.Iz Ballinger	P.W, Frank	E.D: Me	rrill´s at	las of		
	radiographic positions ar	nd radiologoc proced	ures, Volum	e III pp 3	329-355	, Mosby, St		
Optional literature (at	Louis 2003							
the time of	2. Oakly J. Digital Imagin	g- a Primer for Radiog	raphers, Rad	diologist	s and H	ealth Care		
submission of study	Professionals. Greenwich	Medical Media Limit	ed, London, -	2003.				
programme proposal)	3. Prokop M. Spiral and I	Multislice Computed	omograpy o	of the Bo	ody. Thi	eme, New		
	YORK, 2003.	ih gou/pubmod/						
	4. http://www.http://inin.i	nn.gov/pubmeu/	oftoaching					
Quality assurance	- Analysis of the evam su	ress rate	or teaching,					
methods that ensure	- Reports of the Teaching	Control Committee						
the acquisition of exit	- External evaluation (visi	ts by the quality cont	rol teams of	the Nat	ional A	gency for Quality		
competences	Control, external evaluat	ion and self-analysis.						
Other (as the		/						
proposer wishes to								
add)								

NAME OF THE COURSE		Evidence-based Approach to Integrated Equipment in Diagnostics							
Code	ZSR709			Year of stu	dy	2.			
Course teacher	Full prof Ante Pur Mr. sc. D	essor nda, MD, arijo Rad	, PhD dović	Credits (EC	TS)	5			
				Type of ins	truction	L	S	E	Т
Associate teachers				(number o	f hours)	10	10	30	0
Status of the course	Elective			Percentage of e-learni	e of application	20%			
	<u> </u>		COU	RSE DESCRIPT	ION				
Course enrolment requirements and entry competences required for the course	No requi	rements	;		5	2			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – hano – hano – hano – hano – hano – use tabu – use – gart cour	boon completion of the course students will be able to: handle "hybrid" modalities, i.e. devices that connect functional and morphologica imaging in the area of nuclear medicine and MSCT; hanle PET CT and MSCT – Biograph; handle SPECT – CT and MSCT; handle Gamma camera, Gamma camera coincidence imaging systems; use computer at the level of basic operatiing systems, computer applications (text and tabular processing systems), i specific NM applications; use programme for aquisition and analysis of digital NM images; participate in in-vitro measuring procedures that require a range of different scintillation counters and detectors.							ological ext and illation
Course content broken down in detail	Type L,S,E	Type         Thematic units           Course content is related to acquisition of theoretical and practical knowledge in applying methods from nuclear medicine to "hybrid" modalities i.e. devices that connect					Hou 10,10,	ırs 30	
by weekly class schedule (syllabus)		func med	tional and icine and N	morphological ASCT.	imaging in the a	area of nu	clear		
Format of instruction	X lectu X semi X exer <i>on</i> partia field v	ires inars and cises <i>line</i> in ei l e-learn vork	d workshop ntirety ing	05	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with media</li> <li>(other</li> </ul>	assignme entor )	nts		
Student responsibilities	Regular o Active pa Passwor	class atte articipati d for AA	endance. ion in the t I EduHr ele	eaching proce	ss. y for access to e	- learning	J.		
Screening student	Class attendar	ice	1	Research		Practical	training	2	
work (name the proportion of ECTS credits for cach	Experime work	ental		Report					
activity so that the	Essay			Seminar essa	/	(0	ther)		

total number of ECTS	Tests		Oral exam		(Othe	er)	
ECTS value of the course)	Written exam	2	Project		(Othe	er)	
		Indicat	ors	Succe (point	ss S s)	hare in (	the grade (%)
	Written exam			20		50	
	Practical trainin	ng		20			50
	Total			40		1	L00
Grading and evaluating student work in class and at			RATIO OF SUCCES	SS AND EVALU	ATION		
the final exam	Success - pero (%)	centage	criterion			1	grade
	60 - 69	%	meets the minim	um criteria		suff	icient (2)
	70 – 79,9	)%	average success			go	ood (3)
	80 - 89,9	9 %	above-average su	uccess		very	good (4)
	90 - 100	90 - 100 % exceptional success					ellent (5)
			Title	Number o copies in t library	of A he	vailability via other media	
Required literature (available in the library and via other	1. Ivančević D (u naklada, Zagreb	r) Kliničk 1999.					
media)	S F · Single-nhot	ton emis	sion computed ton	nogranhy: A			
	primer , The Soc	iety of N	uclear medicine 19	986, 136			
	Madison Avenue	, NY 100	16.				
	3. Presentations	and cou	rse materials from	the website.			
Optional literature (at	1. S. Janković, D. Medicinska nakl	Eterović	:: Fizikalne osnove	i klinički aspekt	ti medicinske	e dijagr	nostike,
the time of	2.www.gehealth	icare.con	n:www.medical.ph	ilips.com: wwv	v.medical.sie	emens.	com:: selected
submission of study	articles and web	sites					,
programme proposal)	3. http://www.n	cbi.nlm.r	nih.gov/pubmed/				
Ouality assurance	Students and lec	turers' a	nalysis of the qual	ity of teaching,			
methods that ensure	- Analysis of the	exam su	ccess rate,				
the acquisition of exit	- Reports of the	Teaching	Control Committe	e,	the Nation		ov for Quality
competences	Control externa	l evaluat	ion and self-analys	is		ai Agen	cy for Quality
Other (as the			ten and sen analys				
proposer wishes to add)							

NAME OF THE COURSE	E	Patient-centred Clinical Research								
Code	ZSR710			Year of stu	dy	2.				
Course teacher	Stipan Ja professo	anković, or with te	MD, Full enure	Credits (EC	CTS)	5				
Associate teachers				Type of ins (number o	struction f hours)	L 10	S 10	E 30	Т 0	
Status of the course	Elective			Percentag of e-learni	e of application	20%	_			
	I		COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requ	irements	5			5				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cc – expla proje – dem proje – prov durin – prep – critic	explain, organize and present (partly) clinical research projects; explain the establishment of procedures (partly) for participation in clinical research projects; demonstrate procedures and inform patients that will participate in clinical research projects; provide support for patients who will participate in clinical research projects before, during and after the project; prepare informed consent – procedure; critically evaluate patients' behaviour when in critical state.							esearch esearch before,	
	Type	Type Thematic units Hours								
Course content broken down in detail by weekly class schedule (syllabus)	L,S,E	The obta mea qual and cont	role of pati- ined from p surements. ity and relia researcher <u>ext of resea</u>	ents in clinica batients by mo What influen ability of data bias in clinica arch project.	trials. Research eans of survey qu ces and how doe obtained. Comm research. Projec	and data uestionnai es it influe nunication ct plan in t	res or nce the skills the	or 10,10,30 e the ills		
Format of instruction	□X lect □X sem □X exen □ on □ partia	ures ninars and rcises <i>line</i> in e al e-learn work	d workshop ntirety ing	95	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with me</li> <li>(other</li> </ul>	assignme entor )	nts			
Student responsibilities	Regular Active p Passwor	class atte articipat rd for AA	endance. ion in the to I EduHr ele	eaching proce ctronic identit	ss. y for access to e	- learning	ļ.			
Screening student work (name the	Class attenda	nce	0,5	Research	1	Practical	training	1,5		
credits for each	work	ental		Report						
activity so that the	Essay			Seminar essa	y 1	(O <sup>1</sup>	ther)			
credits is equal to the	Tests			Oral exam		(01	ther)			

ECTS value of the course)	Written exam	1	Project		(C	ther)		
	Written exam	Indicato	ors	Succe (point	ess ts)	Share	e in the grade (%) 100	
	Total			60			100	
Grading and evaluating student work in class and at the final exam	Success - perc (%) 60 - 69 9	centage %	RATIO OF SUCCE criterion meets the minim	SS AND EVALUATION grad			grade	
	70 – 79,9	%	average success				good (3)	
	80 - 89,9	%	above-average s			V	ery good (4)	
Required literature	90 - 100	Title Number of copies in the library						
(available in the library and via other media)	<ol> <li>Švajger A. Sp</li> <li>2004:21-35.</li> <li>Jonsen AR, Si</li> <li>izd. New York: I</li> <li>Presentations</li> </ol>	isi medici iegler M, McGraw- and cour	inske etike. Zagre Winslade WJ. Clir Hill, 2002:173-98. se materials from	o: CBE, ical ethics. 5. the website.				
Optional literature (at the time of submission of study programme proposal)	1. Beauchamp TI Press, 2001:283- 2. Rumboldt Z. E 3. <u>http://www.n</u> 4. <u>www.publicati</u>	., Childre 336. tička pita cbi.nlm.n onethics.	ss JF. Principles of nja u kliničkim ist <u>ih.gov/pubmed/</u> org.uk; <u>www.coc</u> ł	biomedical etl aživanjima. Vr nrane.org	hics. Oxfc bosn 200	ord: Oxf 5;9:333	ord University 3-41.	
Quality assurance methods that ensure the acquisition of exit competences	Students and lec - Analysis of the - Reports of the - External evalua Control, external	turers' ar exam suc Teaching tion (visit I evaluati	nalysis of the qual cess rate, Control Committe is by the quality c on and self-analys	ity of teaching, ee, ontrol teams o is.	f the Nati	ional Ag	gency for Quality	
Other (as the proposer wishes to add)								

NAME OF THE COURSE	E	Quality Control in Radiologic Technology							
Code	ZSR711			Year of stu	ıdy	2.			
Course teacher	Stipan Ja professo	anković, or with te	MD, Full enure	Credits (E	CTS)	5			
Associate teachers				Type of in: (number c	struction f hours)	L 10	S 10	E 30	Т 0
Status of the course	Elective			Percentag of e-learni	e of application ng	20%			8
	•		COU	RSE DESCRIPT	ION				
Course enrolment requirements and entry competences required for the course	No requ	irements	5			2			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co – mar – inte the – app – parti acco	<ul> <li>manage, record and analyze quality in radiologic technology;</li> <li>integrate quality system as a compulsory activity of the business processes relating to the provision of health care;</li> <li>apply principles of risk management;</li> <li>participate in accreditation processes for business and organization programmes in accordance to positive regulations and international quality standards.</li> </ul>							nting to mes in
Course content broken down in detail by weekly class schedule (syllabus)	Type         Thematic units         Hou           I         Definition of Quality Control. Total Quality Management         59500000000000000000000000000000000000						urs 30		
Format of instruction	□X lecto □X sem □X exer □ on □ partia □ field v	ures inars and cises <i>line</i> in ei il e-learn work	d workshop ntirety ing	05	<ul> <li>independent</li> <li>multimedia</li> <li>laboratory</li> <li>work with me</li> <li>(other</li> </ul>	assignme entor )	nts		
Student responsibilities	Regular Active p Passwor	class atte articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identi	ss. Ty for access to e	- learning			
Screening student work (name the proportion of ECTS credits for each	Class attendar Experim work	nce ental	0,5	Research Report	1	Practical	training	1,5	
activity so that the	Essay			Seminar essa	y 1	(O	ther)		
credits is equal to the	Tests			Oral exam		(O	ther)		
course)	Written	exam	1,0	Project		(O	ther)		
	Indicators	Succes	SS c)	Share	e in the grade				
--	--	--	----------	------------------------	---------------------------------				
	Written exam	(point: 60	5)		100				
	Total	60		100					
Grading and evaluating student	RATIO O	F SUCCESS AND EVALUA	ATION						
the final exam	Success - percentage criterior (%)	1			grade				
	60 - 69 % meets t	he minimum criteria		S	ufficient (2)				
	70 – 79,9 % average	success			good (3)				
	80 – 89,9 % above-a	verage success		v	ery good (4)				
	90 - 100 % exception	onal success		e	excellent (5)				
Required literature (available in the	Title			er of in the iry	Availability via other media				
library and via other media)	<ol> <li>Skoko, Hrvoje "Upravljanje kvali Consult, 2000.</li> <li>Presentations and course mater</li> </ol>	tetom", M.E.P. ials from the website.	$\sim$						
Optional literature (at the time of submission of study programme proposal)	<ol> <li>Dean T. Jamison, J. G. Breman i sur. "Priorities in Health", The World bank, 2006.</li> <li>J. Ransley &amp; H. Ingram "Developing Hospitality Properties &amp; Facilities", Elsevier, 2004.</li> <li>Nicholas R. Hicks &amp; J. A. Muir Gray "Evidence-based Medicine", Financial Times Healthcare Management Reports, 1998.</li> <li>http://www.nchi.nlm.nih.gov/nubmed/</li> </ol>								
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Students and lecturers' analysis of the quality of teaching,</li> <li>Analysis of the exam success rate,</li> <li>Reports of the Teaching Control Committee,</li> <li>External evaluation (visits by the quality control teams of the National Agency for Quality Control external evaluation and self-analysis</li> </ul>								
Other (as the proposer wishes to add)									

NAME OF THE COU	IE OF THE COURSE Safety of Medical D				ata and Information Systems					
Code	ZSR712			Year of st	udy	2.				
Course teacher	Assistan Frane N	it Profe lihanov	ssor ić, PhD	Credits (E	CTS)	5				
Associate				Type of ir	Type of instruction		S	E	Т	
teachers				(number	of hours)	10	10	30	0	
Status of the course	Elective			Percentag	e-learning					
		COURSE DESCRIPTION								
Course enrolment requirements and entry competences required for the course	No requ	No requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cc – use – use	<ul> <li>Upon completion of the course, students will be able to:</li> <li>use the program for image processing in radiology;</li> <li>use information systems in health care in the Republic of Croatia.</li> </ul>								
	Type Th			Ther	matic units			Hours		
Course content broken down in detail by weekly class schedule (syllabus)	L, S, E	Type       Thematic units       Hours         The course content comprises the following topics:       1. Structure and organisation of radiologic data.       10, 10, 30         L, S, E       2. Patients' imaging data.       10, 10, 30         3. Classifications and data sets in the radiologic technology.       1. Information systems in radiology.       1. Information technology in the service of patients.         Safety and protection of data.       10, 10, 30       1. Information technology in the service of patients.								
Format of instruction	□X lect □X sem □X exe □ on □ partia	ures hinars a rcises <i>line</i> in al e-lear work	nd workshops entirety ming		<ul> <li>independent assignments</li> <li>multimedia</li> <li>laboratory</li> <li>work with mentor</li> <li>(other)</li> </ul>					
Student responsibilities	Regular Active p Passwoi	class at articipa rd for A	tendance. ition in the tea Al EduHr elect	aching proce tronic identi	ess. ty for access to e -	learning.				
Screening student work <i>(name the</i>	Class attenda	nce	0,5	Research		Practical	training			
proportion of ECTS credits for	Experim work	iental		Report						
each activity so that the total	Essay			Seminar essay	3	(0	ther)			

number of ECTS credits is equal to	Tests		Oral exam				(Other)			
the ECTS value of the course)	Written exam	1,5	Project				(Other)			
		Indicato	rs		Success	ss Share in the grade				
					(points)	) (%)			_	
	Class attenda	nce			5	10		_		
	Seminar essay	/			30			60		_
	Written exam				15			30		_
Grading and	Total				50		1	100		_
evaluating student work in class and at the			RATIO OF SUCCI	SS AND E	EVALUAT	ΓΙΟΝ				
final exam	Succes	s -	criterion				gra	ade		
	percentag	ge (%)								
	60 - 69	%	meets the minim	num critei	ria		suffici	ent (2)		
	70 – 79,	9%	average success				goo	d (3)		
	80 – 89,9 % above-average success						very good (4)			
	90 - 100	90 - 100 % exceptional success					excellent (5)			
Required	ed			Title			mber of ies in the	Avai	labilit	y via
literature							ibrary	oth	er me	dia
literature (available in the	1. Kern J, Petr	ovečki M, u	irednici. Medicir	iska		Ľ	ibrary	oth	ier me	dia
literature (available in the library and via	1. Kern J, Petr informatika. Z	ovečki Μ, ι agreb: Μeα	urednici. Medicir dicinska Naklada	iska ; 2009.			ibrary	oth	ier me	dia
literature (available in the library and via other media)	1. Kern J, Petr informatika. Z 2. Presentatio	ovečki M, u agreb: Meo ons and cou	irednici. Medicir dicinska Naklada rse materials fro	iska ; 2009. m the we	ebsite.		ibrary	oth	ier me	dia
literature (available in the library and via other media)	1. Kern J, Petr informatika. Z 2. Presentatio	ovečki M, u Zagreb: Meo ons and cou	irednici. Medicir dicinska Naklada rse materials fro	iska ; 2009. m the we	ebsite.		ibrary	oth	ier me	dia
literature (available in the library and via other media) Optional	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme</li> </ol>	ovečki M, u Zagreb: Meo ons and cou I JH, Muser	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc	iska ; 2009. m the we	ebsite. Medical I	nform	<b>ibrary</b> natics. Heid	oth elberg:	ier me	dia
literature (available in the library and via other media) Optional literature (at the	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> </ol>	ovečki M, u Zagreb: Meo Ins and cou I JH, Muser g, 1997.	urednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc	iska ; 2009. m the we	ebsite. Medical I	nform	<b>ibrary</b> natics. Heid	oth elberg:	ier me	dia
literature (available in the library and via other media) Optional literature (at the time of	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> </ol>	ovečki M, u čagreb: Meo ins and cou I JH, Muser g, 1997. ide to healt	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2	iska ; 2009. <u>m the we</u> book of N . izd. Lond	ebsite. Medical I don: Arno	nform	<b>ibrary</b> natics. Heid	oth elberg:	ier me	dia
literature (available in the library and via other media) Optional literature (at the time of submission of	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> </ol>	ovečki M, u Jagreb: Meo ons and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed	iska ; 2009. <u>m the we</u> book of N . izd. Long ical Inforr	ebsite. Medical I don: Arno matics: Co	nform old; 20	<b>ibrary</b> natics. Heid 003. ter Applica	oth elberg: tions ir	n Healt	h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomod</li> </ol>	ovečki M, u agreb: Meo ns and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne	rrednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer	iska ; 2009. <u>m the we</u> book of N . izd. Lond ical Inforr ; 2006.	ebsite. Medical I don: Arno matics: Co	nform old; 20	ibrary natics. Heid 003. ter Applica	elberg:	n Healt	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomo</li> <li>Students and le</li> </ol>	ovečki M, u čagreb: Mec ins and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer alysis of the qua	iska ; 2009. im the we book of N . izd. Lond ical Inforr ; 2006. lity of tea	ebsite. Medical I don: Arno matics: Co aching,	nform old; 20	<b>ibrary</b> natics. Heid 003. ter Applica	elberg: tions ir	n Healt	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomo</li> <li>Students and le</li> <li>Analysis of the</li> </ol>	ovečki M, u čagreb: Meo ns and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam suc	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hand h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate,	iska ; 2009. m the we book of N . izd. Lond ical Inforr ; 2006. lity of tea	ebsite. Medical I don: Arno matics: Co aching,	nform old; 20	<b>ibrary</b> natics. Heid 003. ter Applica	elberg:	n Healt	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the	<ol> <li>Kern J, Petri informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomod</li> <li>Students and lei</li> <li>Analysis of the</li> <li>Reports of the</li> </ol>	ovečki M, u lagreb: Meo ns and cou l JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam suce	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ	iska ; 2009. im the we book of N . izd. Lond ical Inforr ; 2006. lity of tea	ebsite. Medical I don: Arno matics: Co aching,	nform old; 20 ompu	<b>ibrary</b> natics. Heid 003. ter Applica	elberg:	h Healt	.h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomo</li> <li>Students and le</li> <li>Analysis of the</li> <li>Reports of the</li> <li>External evalue</li> </ol>	ovečki M, u agreb: Meo ns and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam suc e Teaching o nation (visit	rednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ s by the quality o	iska ; 2009. <u>m the we</u> book of N . izd. Lond ical Inforr ; 2006. lity of tea ree, control te	ebsite. Medical I don: Arno matics: Co aching, eams of th	nform old; 20 ompu	ibrary natics. Heid 003. ter Applica tional Agen	elberg: tions ir	n Healt Quality	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	<ol> <li>Kern J, Petr informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomo</li> <li>Students and le</li> <li>Analysis of the</li> <li>Reports of the</li> <li>External evalu</li> <li>Control, extern</li> </ol>	ovečki M, u čagreb: Meo ns and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam succ e Teaching ( hation (visit al evaluatio	irednici. Medicir dicinska Naklada rse materials fro MA (eds). Hand h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ s by the quality o on and self-analy	iska ; 2009. <u>m the we</u> book of N . izd. Lond ical Inforr ; 2006. lity of tea ee, control te	ebsite. Medical I don: Arno matics: Co aching, eams of th	nform old; 20 ompu	ibrary natics. Heid 003. ter Applica tional Agen	elberg: tions ir	n Healt Quality	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the	1. Kern J, Petr informatika. Z 2. Presentatio 3. Van Bemme Springer-Verlag 4. Coiera E. Gu 5. Shortliffe E, G Care and Biomo Students and le - Analysis of the - External evalu Control, extern	ovečki M, u Jagreb: Meo ons and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam succ e Teaching ( nation (visit al evaluatio	arednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ s by the quality o on and self-analy	iska ; 2009. im the we book of N . izd. Lond ical Inforr ; 2006. lity of tea ee, control te sis.	ebsite. Medical I don: Arno matics: Co aching, eams of th	nform old; 20 ompu	ibrary natics. Heid 003. ter Applica tional Agen	elberg: tions ir	n Healt Quality	.h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes	<ol> <li>Kern J, Petri informatika. Z</li> <li>Presentatio</li> <li>Van Bemme Springer-Verlag</li> <li>Coiera E. Gu</li> <li>Shortliffe E, G</li> <li>Care and Biomod</li> <li>Students and lei</li> <li>Analysis of the</li> <li>Reports of the</li> <li>External evalu</li> <li>Control, external</li> </ol>	ovečki M, u agreb: Meo ns and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam succ e Teaching o lation (visit al evaluatio	rednici. Medicir dicinska Naklada rse materials fro MA (eds). Hand h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ s by the quality o on and self-analy	iska ; 2009. <u>m the we</u> book of N . izd. Lond ical Inforr ; 2006. lity of tea ee, control te sis.	ebsite. Medical I don: Arno matics: Co aching, eams of th	nform old; 20 ompu	ibrary natics. Heid 003. ter Applica tional Agen	elberg: tions ir	n Healt	:h
literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	1. Kern J, Petr informatika. Z 2. Presentatio 3. Van Bemme Springer-Verlag 4. Coiera E. Gu 5. Shortliffe E, G Care and Biome Students and le - Analysis of the - Reports of the - External evalu Control, extern	ovečki M, u (agreb: Meo ons and cou I JH, Muser g, 1997. ide to healt Cimino JJ, u edicine. Ne ecturers' an e exam succ e Teaching ( iation (visit al evaluatio	rednici. Medicir dicinska Naklada rse materials fro MA (eds). Hanc h informatics. 2 rednici. Biomed w York: Springer alysis of the qua cess rate, Control Committ s by the quality o on and self-analy	iska ; 2009. im the we book of M . izd. Lond ical Inforr ; 2006. lity of tea ee, control te sis.	ebsite. Medical I don: Arno matics: Co aching, eams of th	nform old; 20 ompu	ibrary natics. Heid 003. ter Applica	elberg: tions ir	n Healt Quality	dia :h

NAME OF THE COURSE	E Forensic Radiography									
Code	ZSR71	L <b>3</b>		Year of	study	2.				
Course teacher	Assist Frane	ant Prof Mihano	essor vić, PhD	Credits	redits (ECTS) 5					
Associate teachers				Type of of hour	instruction (number s)	L 15	S 15	E 30	Т 0	
Status of the course	Obliga	atory		Percent e-learn	Percentage of application of 20%					
			C	OURSE DES	CRIPTION					
Course enrolment requirements and entry competences required for the course	No re	No requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon - e - e r - a	complet explain d explain ra critically radiogra nalyze a pplicatio	tion of the course lental radiograph adiographic skills evaluate the nee phic imaging and and critically ev on of forensic rad	e, students ny applied in s needed fo eds in foren l available d valuate ir liography.	will be able to: n forensic radiography r ante and post-morte sic radiography relativ levices and application nformation from bro	/; em cases in ve to currer ns; pad-spectru	forension forension for possib for sour	radiogra ilities of ces rela	aphy; ted to	
	Typ	be		Then	natic units		H	lours		
Course content broken down in detail by weekly class schedule (syllabus)	L,S,E	Type         Thematic units         Hours           History and role of forensic radiography in forensic medicine and science. Introduction into medical-legal aspects of forensic radiography, practical approaches and issues in forensic radiography.         15,15,30           Forensic radiography, the role and responsibility of a radiology         15,15,30								
Format of instruction	Technologist in line with evidence-based practice         X lectures         X seminars and workshops         X exercises         on line in entirety         partial e-learning         field work				<ul> <li>independent assig</li> <li>multimedia</li> <li>laboratory</li> <li>work with mentor</li> <li>(other)</li> </ul>	nments				
Student responsibilities	Regul Active Passw	ar class a e particip vord for <i>i</i>	attendance. Dation in the tead AAI EduHr electr	ching proces onic identit	ss. y for access to e - lear	ning.				
Screening student work	Class atten	dance	0,5	Research		Practical tra	aining			
(name the proportion of	Exper I work	imenta «		Report						
ECTS credits for each activity so	Essay			Seminar essay	3	(Oth	er)			
that the total	Tests			Oral exam		(Oth	er)			

number of ECTS credits is equal to the ECTS value of the course)	Written exam	1,5		Project				(Other)		
		Indicat	ors			Success		Share in the	e grade	
						(points)		(%)		
	Class attend	ance				5		10		
	Seminar ess	ау				30		60		_
	Written exa	m				15		30		_
Grading and	Total					50		100		
evaluating student work in class and at the			RAT	IO OF SUCCES	S A	ND EVALUATIO	N			
final exam	Success - p (%	ercentage 6)	crit	erion				grad	de	
	60 - 6	59 %	me	ets the minimu	um	criteria		sufficie	nt (2)	
	70 – 7	9,9 %	ave	rage success	_			good	(3)	
	80 – 89,9 % above-average succ			cce	SS		very go	od (4)		
	90 - 1	00 %	exc	exceptional success				excelle	nt (5)	
Required			٦	<b>Fitle</b>			C	Number of opies in the library	Availabi other i	lity via nedia
literature (available in the library and via other media)	1. Brogdon's J. Thali M.D. 2. Dentalna (2009). Med 3. Presentat	Forensic R , Mark D. V radiografija licinski faku ions and co	adiol iner a i rad ltet, s urse	ogy, Second Ec and B.G. Brogd iologija. Janko Split. materials from	ditic on vić, n th	on by Michael (2010) S. i Miletić, D. e website	-			
Optional literature (at										
the time of	1. <u>http://</u>	www2.le.ac	.uk/d	lepartments/e	mfr	ou/imaging/brie	f-hi	<u>story</u>		
submission of	2.http://v	vww2.le.ac.	uk/d	epartments/er	nfp	u/imaging/ct/W	/hat	:%20is%20CT		
study	3. http://	www.ncbi.i	nim.r	iin.gov/pubme	d/					
proposal)										
Quality	Students and	lecturers' a	nalys	is of the qualit	ty o	f teaching,				
assurance	- Analysis of t	he exam su	, ccess	rate,	,	0,				
methods that	- Reports of t	he Teaching	; Con	trol Committee	e,					
ensure the	- External eva	luation (visi	its by	the quality co	ntro	ol teams of the	Nati	ional Agency f	or Quality	/
acquisition of	Control, exter	mal evaluat	ion a	nd self-analysi	s.					
exit										
Other (as the										
proposer										
wishes to add)										

NAME OF THE O	COURSE	Radiography Applied	in Other Fields					
Code	ZSR714		Year of st	tudy	2.			
Course	Assistan	t Professor	Crodite (F	CTS)	5			
teacher	Frane M	ihanović, PhD	Cieuits (L					
Associate			Type of it	nstruction (number	L	S	E	Т
teachers			of hours)	(	15	15	30	0
Status of the	Floativo		Dorconto	a of application of	20%	15	50	Ŭ
	Elective		Percenta	a of application of	20%			
course		0						
Course								
enrolment	No reau	irements						
requirements								
and entry								
competences								
required for								
the course								
	Upon co	mpletion of the course, s	tudents w	ill be able to:				
Learning	– des	cribe the application of ra	ndiography	in conservation-rest	tauration	;		
outcomes	– des	cribe radiological devices	and their	application in conser	vation, re	estauratio	n;	
expected at	– use	software for radiographic	c digital in	hage-processing				
the level of	– des	cribe possibilities of digita	al radiogra	phic imaging in the f	ield of ea	isel painti	ng and	
the course (4	poly	polychrome wood;						
to 10 learning	– des	<ul> <li>describe possibilities of digital radiographic imaging in the field of stone and render;</li> </ul>						
outcomes)	– des	cribe possibilities of digita	al radiogra	phic imaging in the f	ield of me	etal;		
	- dese	cribe possibilities of digita	ai radiogra	phic imaging in other	r fields.			
	Туре	Through a coriec of la	Inematic units				ours	
		introduced to the app	ectures and	d practical work stud	ents are			
	ISF	conservation and res	plication of digital radiography in itauration as well as in some other fields of radiography in conservation-				15 20	
Courses	L, J, L						15, 50	
Course		restauration						
brokon down		Badiological	devices –	application in conser	vation			
in detail by		restauration	acvices		vacion,			
weekly class		Radiographi	c imaging					
schedule		Software for	radiogram	phic digital image-pro	cessing			
(syllabus)		Digital radio	graphic im	haging of easel paint	ing and			
(-))		polychrome	wood					
		Digital radio	graphic in	naging of stone				
		<ul> <li>Digital radio</li> </ul>	graphic in	aging of metal				
		Digital radio	graphic im	aging in other fields				
	□X lect	ures	0	0 0				
	□X sem	inars and workshops		□ independent assi	gnments			
Format of				🗆 multimedia				
instruction		line in entirety		Iaboratory				
instruction				$\Box$ work with mento	r			
		n e-iearning		□ (other)				
		NOLK						
Student	Active	ciass attenuance.	a process					
responsibilities	Active p	a ucipation in the teachir d for AAI Edukr alactron	ig process	for access to a lear	aina			
	rasswor	a for AAI Euuni electroni	<u>uentity</u>	ioi access to e - iearr	iiiig.			

Screening student work	Class atter	s ndance	0,5	Research			Practi	cal training	1	L	
(name the proportion of	Expe work	rimental		Report							
ECTS credits for each	Essa	y		Seminar essay	2			(Other)			
activity so that the total	Tests	5		Oral exam				(Other)			
number of ECTS credits is equal to the ECTS value of the course)	Writ	ten exam	1,5	Project				(Other)			
	Indicato			tors		Succes (points	s ;)	Share in	the g (%)	grade	
		Class atter	ndance			5			10		_
		Seminar e	ssay			30			60		-
		Written ex	am		_	15			30		_
Grading and		lotal				50			100		
evaluating student work											
the final exam		Suc		criterion	CL33			gra	ade		
		percer	ntage (%)	enterion				8.	auc		
		60	- 69 %	meets the min	imum	criteria		suffici	ent (2	2)	
		70	70.0.%						4 (3)		
		/0-	19,9 /0	average succes	<b>5</b> 5			guu	u (J)		
		70 -	89,9 %	above-average	succe	ess		very g	ood (4	1)	
		70 - 80 - 90 -	89,9 % 100 %	above-average exceptional su	ss succe ccess	255		very goo excell	ood (4 ent (5)	1) )	
Required literature (available in		70 - 80 - 90 -	73,5 % 89,9 % 100 %	above-average exceptional su Title	ss succe ccess	255	Nu cop	very g excell mber of ies in the ibrary	ood (4 ent (5) Avai oth	1) ) ilability her med	via lia
Required literature (available in the library and via other media)	1. Ra Mido 2. Pr	90 - 90 - adiography o dleton (2009	73,5 % 89,9 % 100 % of Cultural M 5.)	above-average exceptional su Title aterial, Janet La materials from t	ss succe ccess ng, An he we	ess drew bsite.	Nu cop I	very g excell mber of ies in the ibrary	ood (4 ent (5) Avai oth	1) ) ilability ner med	via lia
Required literature (available in the library and via other media) Optional literature (at	1. Ra Mido 2. Pr 1.htt 2.htt	adiography of a sentations sp://www.h	99,9 % 100 % of Cultural M 5.) eritagescienc cbi.nlm.nih.g	above-average exceptional su Title aterial, Janet La materials from t ce.ac.uk/Researc ov/pubmed/	ng, An he we	ess drew bsite. jects/project	Nu cop I	very g excell mber of ies in the ibrary	Avai	1) ) ilability ner med	via lia
Required literature (available in the library and via other media) Optional literature (at the time of	1. Ra Mido 2. Pr 1.htt 2.htt	diography of dieton (2009) esentations p://www.h p://www.n	of Cultural M 5.) and course r eritagescienc cbi.nlm.nih.g	average succes above-average exceptional su Title aterial, Janet La materials from t se.ac.uk/Researc ov/pubmed/	ng, An he we	drew bsite.	Nu cop l	very g excell mber of ies in the ibrary	Avai	1) ) ilability ner med	via lia
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Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of	1. Ra Mido 2. Pr 1.htt 2.htt Stud - Ana - Rep - Ext exte	adiography of a second	100 % 100 % 100 % of Cultural M 5.) eritagescienc cbi.nlm.nih.g cturers' analy exam succes Teaching Cor ation (visits b cion and self-i	Title aterial, Janet La materials from t ce.ac.uk/Researc ov/pubmed/	ng, An he we ch_Pro	eams of the	Nu cop I ts/CRS,	/Martin	or Qua	1) ilability her med	via lia
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## VI. LIST OF COURSES, TEACHERS AND ASSOCIATES

CODE	COURSE	TEACHERS
757701		Full professor, Jozo Čizmić, PhD
232701	Health Law	Assistant professor Nina Mišić Radanović, PhD
757702		Assistant professor Ana Ćurković, PhD
232702	Ethics in Health Care	Assistant professor Ana Jeličić, PhD
757702		Full professor, Jozo Čizmić, PhD
232703	Patient's Right	Assistant professor Nina Mišić Radanović, PhD
	Health insurance systems	Full professor Mirko Klarić, PhD
ZSZ704		Assistant professor Nada Tomasović Mrčela, MD,
		PhD
ZSZ705	Information systems in health care	Full professor Ana Jerončić, PhD
		Mr. sc. Renato-Zdenko Jerončić
	Human Resources Management	Dejan Kružić, PhD, Full professor tenure
ZSZ706		Ana Juras, PhD, Research associate
		Ante Minanovic, PhD, Senior lecturer
	Health Care Management	Deian Kružić PhD Full professor tenure
	neurin eure Management	Ana Juras PhD Research associate
ZSZ707		Ante Mihanović, PhD, Senior lecturer
757709	Economics in health care	Full professor Žejlko Mrnjavac, PhD
232708		Associate professor Lana Kordić, PhD
	Quality control in healthcare	Associate professor Ante Obad, MD, PhD
ZSZ709		Assistant professor Nada Tomasović Mrčela, MD,
		PhD
ZSZ710		Tonća Jukić, PhD, Associate Professor
	Pedagogy	
ZSZ711	Didactics and teaching methods	Tonća Jukić, PhD, Associate Professor
757712		Antonela Matana, PhD, Assistant Professor
232712	Health statistics	
ZSZ713	Scientific research paper	Davorka Sutlovic, PhD, Full professor with tenure
75R701	IT Technologies in Radiologic	Assistant Professor Frane Mihanović, PhD
2517/01	Technology	
	Interventional and Angiographic	Assistant Professor Tonči Batinić, MD, PhD
ZSR702	Evidence-based Methods	Doc.dr.sc. Ivana Štula
	Nathada and Tasky stary in	Mentors from teaching bases
ZSR703	Ivietnous and Technology In	Full professor Ante Punda, MD, PhD
	Evidence-based Nuclear Medicine	Assistant FIDIESSULANA DANC ZIZIC, WID, PHD

		Assistant Professor Vesela Torlak, PhD
750704	Evidence-based MRI Methods and	Associate professor Krešimir Dolić, MD, PhD
Z3R704	Technology	
	Evidence-based CT Methods and	Associate professor Tade Tadić, MD, PhD
238705	Technology	
	Methods and Technology in	Assistant Professor
ZSR706	Evidence-based Oncology and	Tihana Boraska Jelavić, MD, PhD
	Radiotherapy	
750707	Evidence-based Digital Radiographic	Stipan Janković, MD, Full professor with tenure
238707	Systems*	
750709	Computerised Evidence-based	Associate professor Krešimir Dolić, MD, PhD
231700	Radiological Methods*	
750700	Integrated devices in evidence-based	Full professor Ante Punda, MD, PhD
231709	diagnostics*	Mr. sc. Darijo Radović
ZSR710	Patient position in clinical trials*	Stipan Janković, MD, Full professor with tenure
750711	Quality control in radiological	Stipan Janković, MD, Full professor with tenure
238/11	technology*	
750710	Security of medical data and	Assistant Professor Frane Mihanović, PhD
238/12	information systems*	
ZSR713	Forensic radiography	Assistant Professor Frane Mihanović, PhD
ZSR714	Applied radiography in other fields*	Assistant Professor Frane Mihanović, PhD
ZSR715	Master's thesis	

## VII. CURRICULUM VITAE OF TEACHERS AND ASSOCIATES

In alphabetical order:

Title, name and last name of the course leader	Assistant professor Tihana Boraska Jelavić, M.D., Ph.D.
Title of the course at the proposed	Evidence based Methodology and Technology in Oncology and
study programme	Radiotherapy
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	tihana_boraska@yahoo.com
Year of birth	1975
Scientist ID	345685
CROSBI profile ID	32455
Research rank and date of the last appointment	Senior scientific associate, 30.6.2021.
Research and teaching or teaching	Assistant professor since 11/2016; employed since 1.6.2019.
rank, and the date of the last	
appointment	
Area and field of appointment into	Oncology and radiotherapy
research rank	
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University Hospital of Split, Department of Health studies university of Split
Date of employment	2014., 1.6.2019.
Job title (professor, researcher,	Clinical doctor; assistant professor
associate teacher, etc.)	
Field of research	Clinical Oncology
Position in the institution	Clinician, Teacher
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	Ph.D.
Institution	School of Medicine Split, University of Split
Place	Split, Croatia
Date	24.3.2007.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2019
Place	Toronto Ontario, Canada
Institution	University Health Network
Field of training	Personalized Learning Program in Radiation Medicine Program
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English, 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Since 2011, teacher on different courses at Kathedra of Clinical
teacher of similar courses (title of	Oncology at Split School of Medicine, University of Split: Medicine,
course, study programme where it	Dental medicine, Pharmacy, Medicine in English; teacher at
nogramme)	and progression of urinary bladder tumors) and at Evidence based
	clinical medicine (Methodics of clinical research): course leader at
	Department for Health studies University of Solit undergraduate
	and graduate level (courses: Evidence based methods and

	technologies in oncology and radiotherapy: Radiotherapy
	planning, Radiotherapy and Oncology)
Authorship of university textbooks from the field of the course	Coauthor of " Clinical Oncology", editors Šamija M, Vrdoljak E, Krajina Z. Medicinska naklada, Zagreb, 2006. Coauthor of "Clinical Oncology", editors Vrdoljak E, Šamija M, Kusić Z, Petković M, Gugić D, Krajina Z. Medicinska naklada, Zagreb, 2013. Coauthor of "Clinical Oncology", editors Vrdoljak E, Belac Lovasić I, Kusić Z, Gugić D, Juretić A. Medicinska naklada, Zagreb, 2018.
Professional and research papers published in the last five years from the field of the course <b>(max 5</b> <b>references)</b>	<ol> <li>Vrdoljak J, Boban T, Petrić Miše B, Boraska Jelavić T, Bajić Ž, Tomić S, Vrdoljak E. Efficacy and safety of TC dose-dense chemotherapy as first-line treatment of epithelial ovarian cancer: a single-institution retrospective cohort study. Jpn J Clin Oncol. 2019 Feb 23. pii: hyz011. doi: 10.1093/jjco/hyz011. [Epub ahead of print]</li> <li>Boraska Jelavić T, Boban T, Brčić L, Vrdoljak E. Is macrocytosis a potential biomarker of the efficacy of dose- dense paclitaxel-carboplatin combination therapy in epithelial ovarian cancer patients? Anticancer Drugs 2017;28(8):922- 927.</li> <li>Jalavić TB, Miša RP, Ban M, Strikić A, Vrdoljak E, Adjuvant</li> </ol>
	<ol> <li>Jelavić TB, Miše BP, Ban M, Strikić A, Vrdoljak E. Adjuvant Chemotherapy in Locally advanced Cervical Cancer after Treatment with Concomitant Chemoradiotherapy- Room for Improvement? Anticancer Research 2015;35 (7):4161-4165</li> <li>Omrcen T, Hrepic D, Boraska Jelavić T, Vrdoljak E. Combination of adjuvant radiotherapy and androgen deprivation therapy after radical prostatectomy in high risk prostate cancer patients - results from retrospective analysis. J Buon 2015;20(4):1061-7.</li> <li>Vrdoljak E, Petrić Miše B, Boraska Jelavić T, Tomić S, Šundov D, Strikić A. Optimal follow-up of ovarian cancer patients. Magazine of European Medical Oncology. 2015;8(1):57- 61.DOI: 10.1007/s12254-014-0188-y. ISSN 1865-5041</li> </ol>
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	
Professional and research projects	
out in the last five years ( <b>max 5</b>	
references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	2008. The course of continuing medical education: "Skills of medical education and scientific work" held at School of Medicine Split, University of Split
PRIZES AND AWARDS	
Prizes and awards for teaching and research	2014. Award for best young oncology researcher of Croatian Oncology Society

Title, name and last name	Assistant professor Ana Ćurković
Title of the course at the proposed	Ethics in Health Care
study programme	
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	ana.curkovic@ozs.unist.hr
Year of birth	1988.
Scientist ID	336731
CROSBI profile ID	31752
Research rank and date of the last	1
appointment	
Research and teaching or teaching	assistant professor, 24.11.2020.
rank, and the date of the last	
appointment	
Area and field of appointment into	Area of biomedicine and health, field of public health and health
research rank	care, branch of social medicine
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University of Split, University Department of Health Studies
Date of employment	1.4.20212.
Job title (professor, researcher,	assistant professor
associate teacher. etc.)	
Field of research	Social medicine
Position in the institution	assistant professor
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	PhD
Institution	Split School of Medicine
Place	Split
Date	29 10 2018
INFORMATION ON ADDITIONAL TRAINU	23.10.2010.
Year	
Place	
Institution	
Field of training	
MOTHER TONGLE AND FOREIGN LANG	
Mother tongue	Croatian
Foreign language and command of	English 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Previous participation in courses as a teaching assistant and
teacher of similar courses (title of	postdoctoral researcher
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	1
from the field of the course	·
Professional and research papers	Lukežić, Marina; Ćurković, Ana; Kolčić, Ivana; Polašek, Ozren.
published in the last five years from	Socioeconomic status and psychological distress do not predict
the field of the course (max 5	mortality risk in the island population of Vis, Croatia // Journal of
references)	Global Health Economics and Policy, 1 (2021), 1; 2021016, 7
	doi:10.52872/001c.29662
	Rehberg, Joshua; Stipčić, Ana; Ćorić, Tanja; Kolčić, Ivana; Polašek,
	Ozren. Mortality patterns in Southern Adriatic islands of Croatia: a
	registry-based study // Croatian Medical Journal, 59 (2018), 3; 118-
	123 doi:10.3325/cmj.2018.59.118

	Stipčić, Ana. Važnost socioekonomskih pokazatelja u određivanju zdravlja i zdravstvenih rizika u južnoj Hrvatskoj, 2018., doktorska disertacija, Medicinski fakultet Split, Split. Šolić, Ivana; Stipčić, Ana; Pavličević, Ivančica; Marušić, Ana Transparency and public accessibility of clinical trial information in Croatia: how it affects patient participation in clinical trials // Biochemia Medica: The journal of The Croatian Society of Medical Biochemistry and Laboratory Medicine, 27 (2017), 2; 259-269
	doi:10.11613/BM.2017.027.
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	Antičević, Vesna; Sindik, Joško; Klarin, Mira; Đogaš, Varja; Stipčić, Ana; Kardum, Goran; Barač, Ivana; Zoranić, Sanja; Perković Kovačević, Marina Effects of social skills training among freshman undergraduate nursing students: a randomized controlled trial // Medica Jadertina, 48 (2018), 1-2; 23-32
Professional and research projects from the field of the course carried out in the last five years ( <b>max 5</b> <b>references</b> )	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Professional development: Development and improvement of pedagogical competencies of university teachers. University of Split, Faculty of Philosophy, CIRCO - Center for Lifelong Research and Development Education (2014)
PRIZES AND AWARDS	
Prizes and awards for teaching and research	Award for the best poster presentation in the category of young researchers, HandsOn: Biobanks 2014, Helsinki, Finland.

Title, name and last name of the	Assistant professor Krešimir Dolić, MD, PhD
course leader	
Title of the course at the proposed	Evidence-based MRI Methods and Technology
study programme	Computerised Evidence-based Radiological Methods
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	kdolic@mefst.hr
Year of birth	1979
Scientist ID	345244
CROSBI profile ID	32462
Research rank and date of the last	May 2015. Assist.prof.
appointment	
Research and teaching or teaching	PhD, April 2013.
rank, and the date of the last	Associate professor, 25.11.2021.
appointment	
Area and field of appointment into	Biomedicine and Health, branch Radiology
research rank	
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University hospital Split/Medical school Split
Date of employment	01.12.2006./30.11.2016.
Job title (professor, researcher,	Associate professor
associate teacher, etc.)	
Field of research	Clinical radiology
Position in the institution	Head of radiology department/ assist.prof.
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	Assist.prof/subspecialist in neuroradiology
Institution	Medical school Split/University hospital Split
Place	Split
Date	2015/2017
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2010-2011, 2013
Place	Buffalo, New York
Institution	Buffalo neuroimaging analysis center/Memorial Sloan Kettering
Field of training	Neuroradiology
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English - 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian - 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	
teacher of similar courses (title of	
course, study programme where it	
is/was held, and level of study	
programme)	

Authorship of university textbooks from the field of the course	<ol> <li>Besenski N, Jankovic S, Buca A. Clinical Radiology of the brain. Coauthor in "Infective and inflammatory disease of the brain". Medicinska naklada Zagreb. 2011.</li> <li>Bešenski N, Jankovic S. "Neuroradiology of the spine". First author in " Demyelinating disease of the spine" and " Infective disease of the spine" and coauthor in "Metabolic disease of the spine" .Medicinska naklada Zagreb. 2013.</li> <li>Vrdoljak E, Samija M, Kusic Z, Petkovic M, Gugic D, Krajina Z. "Clinical oncology". Medicinska naklada Zagreb, 2013. – contributor.</li> <li><u>Saba L, Raz E.</u> Neurovascular Imaging: From Basics to Advanced Concepts. First author of chapter: »CCSVI« . Springer-Verlag New York, 2016</li> <li>Drviš P, Otorhinolaryngology with head and neck surgery, Autor of the chapter: Radiological diagnostics of hearing disorders Redak, Split 2019</li> </ol>
Professional and research papers published in the last five years from the field of the course (max 5 references)	<ol> <li>Pavicic Ivelja M, Dolic K, Marasovic Krstulovic D, Glavina G, Ivic         <ol> <li><u>Case of Acute Disseminated Encephalomyelitis</u> <u>Associated with Cytomegalovirus Reactivation in an</u> <u>Immunocompromised Systemic Lupus</u> <u>Erythematosus Patient.</u> Medicina (Kaunas). 2021 Aug 27;57(9):882.</li> <li>Mihalj M, Dolić K, Jurinović P, Miše NI, Titlić M, Pintarić I. Multiple intracranial schwanomas: case report. Acta Clin Croat. 2016 Jun;55(2):331-3.</li> <li>Pavicic Ivelja M, Ivic I, Dolic K, Mestrovic A, Perkovic N, Jankovic S. Evaluation of cerebrovascular reactivity in chronic hepatitis C patients using transcranial color Doppler. Plos One. 2019 Jun 11;14(6).</li> </ol> </li> <li>Mihalj M, Dolić K, Kolić K, Ledenko V. <u>CSF tap test - Obsolete</u> or appropriate test for predicting shunt responsiveness? A systemic review L Neurol Sci 2016 Mar 15:362:78-84</li> </ol>
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and research	

Title, name and last name of the	Stipan Janković, MD, Full professor with tenure
course leader	
Title of the course at the proposed	Evidence-based Approach to Digital Radiographic Systems
study programme	Patient-centred Clinical Research
	Quality Control in Radiologic Technology
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	stipan.jankovic@ozs.unist.hr
Year of birth	1948
Scientist ID	106463
CROSBI profile ID	11388
Research rank and date of the last	Scientific advisor with tenure
appointment	
Research and teaching or teaching	Tenured full professor of radiology, 3 December 2004
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and health, clinical medical sciences, radiology
	Liniversity Department of Health Studies
Date of employment	1 December 2011
Job title (professor, researcher	Topured full professor
associate teacher, etc.)	
Field of research	Padiology (subspecialisation in neuroradiology)
Position in the institution	Head
INFORMATION ON EDUCATION - Highe	neau
Degree	professor PhD Prim MD
Institution	University of Zagreb
Place	Zagreb
Date	2004
INFORMATION ON ADDITIONAL TRAINI	NG
Year	1985., 1989., 1991., 1993., 1998., 2014
Place	University of Zagreb, Lund – Šweden, Karolinska institut – Sweden,
	Frankfurt, Ospedale San Rafaelle – Milano, Versaille, ST. Joseph
	hospital – New York, etc.
Institution	University of Zagreb, Lund – Sweden, Karolinska institut – Sweden,
	Frankfurt, Ospedale San Rafaelle – Milano, Versaille, ST. Joseph
	hospital – New York, Istanbul, itd.
Field of training	Neuroradiology, Breast radiology
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	French (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	English (2)
(sufficient) to E (evention t)	
[sumilient) to 5 (excellent)	Pussian (2)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Farlier experience as course	
teacher of similar courses (title of	
course, study programme where it	

is/was held, and level of study	
programme)	
Authorship of university textbooks	Janković, Stipan; Lovrić Kojundžić, Sanja; Carić, Ana
from the field of the course	Usnove radiologije za primalje, Split: Sveuciliste u Splitu,
	Sveucilisni odjel zdravstvenih studija, 2014 (Autorska)
	Janković, Stipan, Besenski, Naua Klinička nauroradioogija kraljožnica i kraljožnično moždino
	Zagreh: Medicinska naklada, 2013 (Sveučilišni udžhenik)
	lanković Stinan: Čizmić Jozo
	Liječnička pogreška-medicinski i pravni aspekti. Poslijedinlomski
	tečaj stalnog medicinskog usavršavanja I. kategorije, Split:
	Impresum, 2007 (zbornik)
	Janković, Stipan
	Mamografija i ultrazvuk dojke/Poslijediplomski tečaj I. kategorije -
	tečaj stalnog medicinskog usavršavanja liječnika, Split, 2004, Split:
	Impresum, 2004 (zbornik)
	Janković, Stipan; Polić, Stojan; Petričević, Ante; Bačić, Antun
	Odabrana poglavlja iz hitne medicine, Split: Jedinica za znanstveni
	rad KB Split, 1998 (Autorska)
	Topić, Elizabeta; Primorac, Dragan; Janković, Stipan; Stefanović,
	Mario Modicinska biokomija i laboratorijska modicina u kliničkoj praksi (
	Tonić Elizabeta : Primorac Dragan : Janković Stinan : Štefanović
	Mario (ur.).
	Zagreb: Medicinska naklada, 2018
	Bukovec, Željka; Mirošević, Gorana
	Endokrinološke i metaboličke bolesti // Medicinska biokemija i
	laboratorijska medcina u kliničkoj praksi / Topić, Elizabeta ;
	Primorac, Dragan ; Janković, Stipan ; Štefanović, Mario (ur.).
	Zagreb: Medicinska naklada, 2018. str. 155-157
	Grkovic, Ivica; Miletic, Damir; Kolic, Kresimir; Jankovic, Stipan;
	Badiološka anatomija orofacijalnog područja, anomalije i varijacije
	// Dentalna radiografija i radiologija
	Split: Medicinski fakultet Sveučilišta u Splitu. 2009. str. 103-113
	Janković, Stipan
	Rendgenski uređaji // Radiologija / Hebrang, Andrija ; Klarić-
	Čustović, Ratimira (ur.).
	Zagreb: Medicinska naklada, 2007. str. 33-56
	Drinković, Ivan; Janković, Stipan
	Bolesti dojke // Radiologija / Hebrang, Andrija ; Klarič-Čustović,
	Ratimira (ur.). Zagreh: Impresum 2006. str. 221-229
	lanković Stinan
	Rentgenski uređaji // Radiologija / Hebrang, Andrija : Klarić-
	Čustović, Ratimira (ur.).
	Zagreb: Impresum, 2006. str. 33-60
	Topić, Elizabeta; Salamunić, Ilza; Margetić, Sandra; Getaldić,
	Biserka; Culic, Srdana; Dvornik, Stefica; Simundic, Ana-Maria;
	Stelanović, iviano; Janković, Stipan; Staničić, Ante Suvremeni pristup medicinskoj dijagnostici u primornoj
	zdravstvenoj zaštiti / Tonić Elizabeta : Janković Stinan (ur.)
	Zagreb: Medicinska naklada. 2006
	Seminari iz kliničke radiologije / Janković, Stipan (ur.). Split:
	Medicinski fakultet, 2005 (monografija)
	Janković, Stipan

	Mamografija i ultrazvuk dojke/Poslijediplomski tečaj I. kategorije -
	tečaj stalnog medicinskog usavršavanja liječnika, Split, 2004 Split:
	Impresum, 2004 (zbornik)
	Medicinskobiokemijska dijagnostika u kliničkoj praksi / Topić,
	Elizabeta ; Primorac, Dragan ; Janković, Stipan (ur.). Zagreb:
	Medicinska naklada, 2004 (Udžbenici i skripta)
	Janković, Stipan; Miše, Stjepan; Jakšić, Ana
	Uputstva liječnicima pri upućivanju bolesnika na specijalističku
	diisgnostiku i specijalističko-konzilijarne preglede u Kliničku bolnicu
	Split. 2003. (podatak o recenziji nije dostupan, uputstva).
	Janković. Stipan
	Acta medica Croatica, tematski broj 2002., 2002. (podatak o
	recenziji nije dostupan, urednik časopisa).
	Janković, Stipan; Eterović, Davor
	Fizikalne osnove i klinički aspekti medicinske dijagnostike
	Zagreb: Impresum, 2002
	Janković. Stipan
	Odabrana poglavlia iz gastroenterologije // Odabrana poglavlja iz
	gastroenterologije / Hozo, Izet : Miše, Stiepan (ur.).
	Split: Impresum, 1999. str. 1-1
	Kalaižić, Josip: Janković, Stipan: Rešić, Biserka
	Magnetska rezonancija: Naša iskustva u neuroradiologiji // Zbornik
	radova 2. Kongresa Hrvatskog društva radiologa
	Osijek, Hrvatska, 1998. str. 67-67 (poster, sažetak, znanstveni)
	Janković, Stipan
	Hitna radiološka dijagnostika gastrointestinalnog trakta // Hitna
	stanja u gastroenterologiji / Hozo, Izet ; Miše, Stjepan (ur.).
	Split: Impresum, 1998. str. 61-70
	Janković, Stipan
	Radijacijska oštećenja // Harrison Principi interne medicine /
	Ivančević, Željko (ur.).
	Split: Impresum, 1997. str. 2179-2185
	Janković, Stipan; Mihanović, Frane
	Radiološki uređaji i oprema u radiologiji, radioterapiji i nuklearnoj
	medicini / Janković, Stipan ; Mihanović, Frane (ur.).
	Split: Sveučilište u Splitu, 2015
	Janković, Stipan; Marinović Guić, Maja
	Osnove radiologije za fizioterapeute
	Split: Sveučilište u Splitu, Sveučilišni odjel zdravstvenih studija,
	2014
	Janković, Stipan; Mihanović, Frane
	Uvod u radiologiju
	Split: Sveuciliste u Splitu, Sveucilisni odjel zdravstvenih studija,
	2014
	Dožanski Nadov Janković Stinon, Duža Anto
	Klinička neuroradiologija mozga
	Zagrah: Medicinska naklada 2011
	Zagrev. Weukinska naklaud, 2011 Mamografski prohir raka dojke: Organizacija, rani rezultati j
	kontrola kvalitete (noslijedinlomski tečaj Lkategorije stalnog
	medicinskog usavršavanja). Medicinski fakultat Sveučiličta u Splitu
	Stinan Janković, Damir Miletić
	Dentalna radiografija i radiologija. Snlit: Medicinski fakultet Snlit
	2009 (Autorska)
Professional and research papers	(Loughborough University, School of Sport, Exercise and Health
	Sciences, Loughborough, UK) Novokmet, Natalija; Lela, Ivana; Zajc

published in the last five years from	Petranović, Matea: Havaš Auguštin, Dubravka: Šarac, Jelena: Čoklo,
the field of the course <b>(may 5</b>	Miran: Karelović Deni: Žižić Ana: Škrabić Veselin Stanišić Lada:
references)	Orahovec, Biserka et al
references	Nutritional status before programs, blood glusose and maternal
	Nutritional status before pregnancy, blood glucose and maternal
	body size in pregnancy, and the anthropometry of newborns –
	preliminary insights from the cribs study // 5th International
	Conference on Nutrition and GrowthPariz, Francuska, 2018. str.
	Fuchs, Nives; Novokmet, Natalija; Lela, Ivana; Zajc Petranovic,
	Matea; Havaš Auguštin, Dubravka; Sarac, Jelena; Carić, Tonko;
	Dolanc, Ivan; Karelović, Deni; Skrabić, Veselin et al.
	Impact of pre-pregnancy BMI on blood glucose levels in pregnancy
	and on the anthropometry of newborns – preliminary insights from
	the Croatian Islands' Birth Cohort Study (CRIBS) // Collegium
	antropologicum, 42 (2018), 2; 89-93
	Bukovec, Željka; Mirošević, Gorana
	Endokrinološke i metaboličke bolesti // Medicinska biokemija i
	laboratorijska medcina u kliničkoj praksi / Topić, Elizabeta ;
	Primorac, Dragan ; Janković, Stipan ; Štefanović, Mario (ur.).
	Zagreb: Medicinska naklada, 2018. str. 155-157
	Perinić Lewis, Ana; Zajc Petranović, Matea; Carić, Tonko; Pribačić
	Ambrožić, Vanda; Karelović, Deni; Janković, Stipan; Missoni, Saša
	A sociodemographic profile of the participants in the Croatian
	Islands' Birth Cohort Study (CRIBS)/ Sociodemografski profil
	sudionica u Kohortnoj studiji rođenih na istočnojadranskim otocima
	(CRIBS) // Hrvatski geografski glasnik, 81 (2019), 1; 83-105
	doi:https://.org/10.21861/HGG.2019.81.01.04
	Delale, E.A.; Novokmet, N.; Fuchs, N.; Dolanc, I.; Karelović, D.;
	Janković, S.; Musić Milanović, S.; Cameron, N.; Missoni, S.
	Some determinants of quality of life of pregnant women // Book of
	Abstracts of the 33rd Annual Conference of the European Health
	Psychology Society
	Dubrovnik, Hrvatska, 2019. str. 677-677
	Bočkor, Luka; Delale, Eva Anđela; Carić, Tonko; Novokmet, Natalija;
	Fuchs, Nives; Karelović, Deni; Janković, Stipan; Musić Milanović,
	Sanja; Cameron, Noel; Missoni, Saša
	Health locus of control and quality of life of pregnant women. //
	3rd Congress of Joint European Neonatal Societies (jENS 2019)
	Maastricht, Nizozemska, 2019. str. 101-101
Professional and research papers	Janković, Stipan; Koren, Sonja; Šarić, Matea; Orlandini, Rahela;
In methodology and quality of	Antičević, Vesna; Švaljug, Deana; Buljubašić, Ante
teaching published in the last five	The Croatian Model of University Education for Nurses //
years ( <b>max 5 references</b> )	International Archives of Nursing and Health Care, 4 (2018), 2;
	4:093, 4 doi:10.23937/2469-5823/1510093 Antičević, Vesna;
	Ćurković, Ana; Šarić Gudelj, Ana; Janković, Stipan
	The role of Sociodemographic Characteristics, Types of Internet
	Activities and Psychological Characteristics in the Internet
	Addiction // XII congreso internacional y xvii nacional de psicología
	clínica, Libro de Actas
	Santander, Španjolska, 2019. str. 605-605
	Pavicic Ivelja, Mirela; Ivic, Ivo; Dolic, Kresimir; Mestrovic, Antonio;
	Perkovic, Nikola; Jankovic, Stipan
	Evaluation of cerebrovascular reactivity in chronic hepatitis C
	patients using transcranial color Doppler // PLOS ONE, 14 (2019), 6;
	e0218206, 10 doi:10.1371/journal.pone.0218206
	Delale, Eva Anđela; Novokmet, Natalija; Fuchs, Nives; Dolanc, Ivan;
	Mrdjen-Hodžić, Rafaela; Karelović, Deni; Janković, Stipan; Musić
	Milanović, Sanja; Cameron, Noel; Missoni, Saša

	Stress, locus of control, hope and depression as determinants of quality of life of pregnant women: Croatian Islands' Birth Cohort Study (CRIBS) // Health Care for Women International, 42 (2021), 12; 1358-1378 doi:10.1080/07399332.2021.1882464
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	A prospective study of PFAS exposure and cardiovascular disease outcomes in an Island population, Study period: 4/1/2021 to 3/31/2026
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	For over 40 years, since 1972, I have worked continuously as a doctor, and as a teacher from 1978 until today. During that time I have been the editor, co-editor, author and/or co-author of 30 books. I published over 250 scientific and professional articles, several studies, expertise, over 1000 forensic examinations (over 500 were written independently or in an expert team), moving up from the position of the assistant to the tenured full professor in 2004. From 2005 to 2009 I was Dean of the School of Medicine, University of Split for two terms, and from 2011 until today I have been, with a short break, the Head of the UDHS. I was a Deputy Head of the Clinical Institute of Radiology, University Hospital of Split for 12 years, and the Head of the Clinical Institute for over 18 years. I was a member and/or head of several governing councils in Split and the Republic of Croatia and a member of the ASHE team for re-accreditation. I was a member of the National Council for Higher Education and the National Council for Health of the Republic of Croatia. Since 2004 I have been the Head of the Commission for professional conferences and associations, and promotion of science of the Ministry of Science, Education and Sports, Croatia. I received the European diploma in neuroradiology (ECONR) in 2013. I am included in the bok of the most prominent Croatian doctors, and in the millennium edition of Who is Who in the world (Marquis 2000). I was a military volunteer from April 1, 1991 to June 30, 1996. Now I am a member of the Association of Croatian Homeland War volunteer doctors, and a member of the Association of Croatian Homeland War veterans of the 158. brigade and 6. DP Split and president of the Military Veterans Court of Honour.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	<ul> <li>Split-Dalmatia County award "for significant personal contribution to the development of health care in our county through the development of diagnostic radiology at University Hospital of Split" in 2001.</li> <li>Croatian Medical Association Memorial Award (1997) for "participation in the war", Croatian Medical Association Charter (2003) "in recognition of outstanding contribution to the Association, medical science and health care in the Republic of Croatia"</li> <li>in 2008 Diploma Croatian Medical Association.</li> <li>In April 2004 a Certificate of Appreciation "for the contribution in raising standards of the University Hospital Centre Split"</li> <li>Certificate of Appreciation of the Croatian Society of Radiology "for help and support in all areas of activity."</li> <li>In 2006 an annual national award for promotion and popularization of science in the Republic of Croatia.</li> </ul>

- in 2008 the highest award of the Croatian Medical
Association Ladislav Rakovac Award "for achievements in
the development of health, medical thought and science.
and in particular for the effective work in the Association."
- In 2009 the annual award of the Croatian Anthropological
Society The "Dragutin Gorianović Kramberger" for
outstanding contribution to the development of science
and anthronology in the Republic of Croatia
- Diploma of the Croatian Medical Association on the
occasion of the 135th anniversary" for outstanding
contribution to cherishing honourable tradition of the
Croatian Medical Association, medical science and health
care in Republic of Croatia"
- As the lead author and editor of the best university
textbook"- Dental radiography and radiology", the
Certificate of Appreciation on the occasion of the School
of Medicine Day in 2010
In 2014 "as the author of the best university textbook at
the School of Medicine in Split in the academic year
2012/2013" (Clinical neuroradiology of the spine and
spinal cord) the Certificate of Appreciation and
Pocognition "for continuous and rich publishing activity in
the field of radiology"
A military volunteer from April 1, 1991 to Jupe 20, 1996
when demobilized with the rank of reserve major of
modical profession. For contribution to the defense of the
hemoland and patriotic morits in the war I was awarded
the Common and patriotic ments in the war I was awarded
1002 Modal for Participation in Operation "Storm"
Commemorative Medal of the Homeland's Gratitude and
the Order of the Creatian Trofoil, special Cortificate of
Appreciation from General Anto Cotoving for contribution
in the winning operation "Storm" and the Order of Pan
In the winning operation Storm, and the order of Ball
Jeidulu III Ividi uli 2013.
- III 1985 the ivieud to ivient for contribution to the
- In 2021 University of Split award for contribution to the
development and promotion of the University of Split.

Title, name and last name of the course leader	Tonća Jukić, Ph.D., Associate Professor
Title of the course at the proposed study programme	Pedagogy, Didactics and Teaching Methodology
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	tiukic@ffst.hr
Personal web page	
Year of hirth	1978
Scientist ID	290210
	22126
Research rank and date of the last	senior research associate 7, 2, 2018
annointment	
Research and teaching or teaching	associate professor 1 10 2019
rank and the date of the last	associate professor, 1. 10. 2013.
annointment	
Area and field of appointment into	
research rank	social sciences, pedagogy
Institution of employment	ENI
Data of employment	Faculty of Humanities and Social Sciences, University of Split
Date of employment	1.12. 2006.
Job title (professor, researcher,	associate professor
Side of research	
Field of research	teaching process, pedagogical science
Position in the institution	teacher
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	Ph. D.
Institution	Faculty of Humanities and Social Sciences, University of Zagreb
Place	Zagreb
Date	16. 5. 2011.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2002./2003.
Place	Split
Institution	Forum for Freedom in Education, Zagreb
Field of training	Pedagogy, Didactics
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Experience at Faculty of Humanities and Social Sciences Split:
teacher of similar courses (title of	- Systematic Pedagogy, Study of Pedagogy, Undergraduate
course, study programme where it	study
is/was held, and level of study	<ul> <li>Fundamentals of Pedagogy, Study of Pre-school Education,</li> </ul>
programme)	Undergraduate study
	<ul> <li>Fundamentals of Pedagogy, Teacher Study, Integral study</li> </ul>
	- Systematic pedagogy, Lifelong learning program (PPDMO,
	CIRCO)
	- Pedagogy, Litelong learning program (PPDMS, CIRCO)
	- Creativity as pedagogical challenge, Pedagogy,
	Undergraduate study

	<ul> <li>Extracurricular and after-school activities, Pedagogy, Graduate study</li> <li>Experience at Faculty of Science Split:         <ul> <li>Extracurricular and after-school activities, Lifelong learning</li> </ul> </li> </ul>
	program
Authorship of university textbooks from the field of the course	-
Professional and research papers published in the last five years from the field of the course (max 5 references)	<ol> <li>Nemeth-Jajić, J., &amp; Jukić, T. (2021). Definiranje i uporaba nazivlja za e-izvedbu nastave. <i>Metodički ogledi, 28</i>(1), 89- 114</li> <li>Jukić, T. (2021). Styles of creativity in education. In R. Duev (Ed.) <i>Science and society: contribution of humanities and</i> <i>social sciences</i>. Skopje: Faculty of philosophy in Skopje.</li> <li>Jukić, T. (2019, June). Creativity in Education. In <i>Proceedings of the Seventh International Science</i> <i>Conference Contemporary Education – Conditions,</i> <i>Challenges and Perspectives</i> (pp. 11-16). Southwest University Neofit Rilski.</li> <li>Jukić, T., &amp; Mandarić Vukušić, A. (2017/2018). Crisis of Upbringing and Education: How to become a part of the solution rather than being part of the problem. Vospitanie: Journal of Educational Sciences, Theory and Practice. 10(14), 11-20.</li> </ol>
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	<ol> <li>Jukić, T., &amp; Nemeth-Jajić, J. (2020). Motiviranje adolescenata na čitanje: primjeri dobre prakse. In I. Batarelo Kokić, A. Bubić, T. Kokić, A. Mandarić Vukušić (Ed) Čitanje u ranoj adolescenciji. Split: Filozofski fakultet (pp. 97-121).</li> </ol>
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	-
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	<ul> <li>Faculty of Science and Education University of Split, 6 teaching methodologies</li> <li>Forum for Freedom in Education, Project Reading and Writing for Critical Thinking (RWCT), (since 2006 leads pedagogical-didactic workshops for teachers)</li> </ul>
PRIZES AND AWARDS	
Prizes and awards for teaching and	-
	1

Title, name and last name	Dejan Kružić, PhD Full professor tenure	
Title of the course at the proposed	Human Resources Management	
study programme	Health Care Management	
GENERAL INFORMATION ON COURSE LI	ADER	
E-mail address		
	1954.	
	92243	
CROSBI profile ID	20/10	
appointment	Scientific advisor - tenure	
Research and teaching or teaching	Full professor tenure, 24.5.2018.	
rank, and the date of the last		
appointment		
Area and field of appointment into	Social sciences, Field of Economy, branch Economics of	
research rank	Entrepreneurship	
INFORMATION ON CURRENT EMPLOYM	IENT	
Institution of employment	Faculty of Economics, Business and Tourism Split	
Date of employment	01.03.2003.	
Job title (professor, researcher,	Professor at the Department of management	
associate teacher, etc.)		
Field of research	Crisis management, Entrepreneurship	
Position in the institution	Full professor tenure	
<b>INFORMATION ON EDUCATION – Highe</b>	st degree achieved	
Degree	PhD	
Institution	Faculty of Economics, Business and Tourism Split	
Place	Split	
Date	1983.	
INFORMATION ON ADDITIONAL TRAINI	NG	
Year		
Place		
Institution		
Field of training		
MOTHER TONGUE AND FOREIGN LANG	UAGES	
Mother tongue	Croatian	
Foreign language and command of	English (3)	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
Foreign language and command of	Italian (2)	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
COMPETENCES FOR THE COURSE		
Earlier experience as course	Crisis management; Entrepreneurship; Family business;	
teacher of similar courses (title of	Entrepreneurial planning; Public-private partnership projects;	
course, study programme where it	Postgraduate and graduate university studies;	
is/was neid, and level of study	Undergraduate university and professional study	
programme)	Kenžiá D () Obitalialia za dura teržitura El	
Authorship of university textbooks	Kruzic, D. (ur.), <i>Obiteljsko poduzetnistvo</i> , Ekonomski fakultet	
from the field of the course	iviostar i Ekonomski takultet Split, 2016.	
	buble, IVI., NTUZIC, D.: POUUZETIISTVO – TEUITIOST SAUASNJOSTI I IZAZOV hudućnosti RRIE Zagreb 2006	
Professional and research papers	Kružić D. Wić M. Cindrić I. Cornorato Social Posnoncibility og a	
rioressional and research papers	Reputation Mechanism for the Companies Operating in Media	
	Industry Proceedings of the 7th International OFFL Conference on	
	material of the state and the of the state o	

published in the last five years from the field of the course <b>(max 5</b> )	Governance, Management and Entrepreneurship: Embracing Diversity in Organisations, Zagreb, 2019.
references)	Škokić, V., Kružić, D., <i>Knowledge creation and the need for new research directions in entrepreneurship studies</i> , Management Education and Research in the Upcoming Epoch: Rethinking Discipline and Reconceptualization Modes of Creating Knowledge (Tipurić, D., Aleksić, A., ur.). Ekonomski fakultet Zagreb, Zagreb, 2017.
	Bulog, I., Jukić, I., Kružić, D., <i>Managerial Skills: Does Family</i> <i>Ownership Make a Difference</i> ? Proceedings of the 5th International OFEL Conference on Governance, Management and Entrepreneurship: The Paradoxes of Leadership and Governance in the Postmodern Societx, Tipurić, D., Galetić, F. (ur.), CIRU, Zagreb, 2017.
	Kružić, D. (ur.), <i>Obiteljsko poduzetništvo</i> , Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and research	Medal of the City of Split (2003) for outstanding contribution to local development management and for an overall scientific and professional activities. Award of the Faculty of Economics in Split for the book <i>Family Business</i> (2004). Recognition of the Faculty of Economics in Split for valuable scientific work - for co-authorship of the book <i>Influence of organizational variables on the success of business process improvement programs</i> (2010). Recognition of the Faculty of Economics in Split for valuable scientific work - the book <i>Family Businesses - Life Cycles, Inheritance and Sustainability</i> (2012). Recognition of the Faculty of Economics in Split for valuable scientific work - the book <i>Family Businesses - Life Cycles, Inheritance and Sustainability</i> (2012).
	Restructuring Aluminij d.d. Mostar (2013). Award of the Faculty of Economics in Split for valuable scientific work - for co-authorship of the book Family Entrepreneurship (2015).

Title, name and last name of the	Assist.prof. Sanja Lovric Kojundzic, MD,PhD
course leader	
Title of the course at the proposed	Radiological Vocabulary and Standards
study programme	Radiological Methods in Special Working Fields
	Multiplanar Reconstruction Images of Body Structures
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	lovric.sanja@gmail.com
Personal web page	
Year of birth	1974
Scientist ID	276580
CROSBI profile ID	22950
Research rank and date of the last	PhD
appointment	06.11.2009.
Research and teaching or teaching	Assist.prof
rank, and the date of the last	21.07.2016.
appointment	
Area and field of appointment into	Biomedicine and Health; Clinical Medical Sciences;
research rank	Branch - Radiology
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	Clinical Hospital Split /University of Split, School of Medicine
Date of employment	15.09.2008. / 01.03.2018.
Job title (professor, researcher,	Assist.prof
associate teacher, etc.)	radiology specialist, subspecialist in neuroradiology
Field of research	Medical Radiology
Position in the institution	Head of the Department of Medical Radiology
	radiology specialist, subspecialist in neuroradiology
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	Subspecialist in neuroradiology / Assist.prof.
Institution	Clinical Hospital Split /University of Split, School of Medicine
Place	Split
Date	2015/2017
INFORMATION ON ADDITIONAL TRAINI	NG
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	
Foreign language and command of	- English
foreign language on a scale from 2	5
COMPETENCES FOR THE COURSE	Head of the Department of Medical Padialogy
toachar of similar courses (title of	Lecturer at the Department of Medical Radiology (Creatian and
course study programme where it	English Studies) University of Split School of Medicine
is/was held, and level of study	Lecturer at the postgraduate university study "Biology of
nrogramme)	neonlasms"
programme	Lecturer in several postgraduate courses of the Leategory
	Leader of 3 courses at Health studies - Radiological technology
	(Radiological vocabulary and norms. Multiplanar presentation of
	body structure. X-ray methods in special working conditions)
Authorship of university textbooks	1. Histological atlas: http://www.vms.hr/HistologvAtlas/index.htm
from the field of the course	2. Clinical neuroradiology of the brain (Chapter II: Hereditary brain
	disorders)

	3. Clinical neuroradiology of the spine and spinal cord (Chapter
	VII,Degenerative diseases of the spine)
	4. Basics of radiology for midwives, University of Split, University
	Department of Health Studies
Professional and research papers	1. Lovrić Kojundžić S, Budimir Mršić D, Jelovina I, Benzon B,
published in the last five years from	Tomasović M. The applicability of magnetic resonance imaging
the field of the course (max 5	classification system (MRICS) for cerebral palsy and its
references)	association with perinatal factors and related disabilities in a
	Croatian population-based sample. Croat Med J. 2021 Aug
	31;62(4):367-375. PMID: 34472740.
	2. Marcic Lj, Marcic M, <u>Lovric Kojundzic S</u> , Marcic B, Capkun V,
	Vukojevic K. Personalized Approach to Patient with MRI Brain
	Changes after SARS-CoV-2 Infection. Journal of personalized
	medicine vol. 11,6 442. 21 May. 2021,
	doi:10.3390/jpm11060442
	3. Stula I, <u>Kojundzic SL</u> , Guic MM, Novak K. Carotid artery stenosis
	in correlation with neck and carotid artery anatomy. Vascular.
	2021 May 30:17085381211018603. doi:
	10.1177/17085381211018603. Epub anead of print. PMID:
	54055509. 4. Supara D. Kraić Martinić M. Lourić Kojundžić S. Marčić L
	4. Sundia D, Kinic Martinic M, <u>LOVIC Kojundzic S</u> , Marcic L. Vestibular neuronitis in a vestibular schwannoma patient. Auris
	Nasus Larvay, 2021 Apr 25:S0285-81/6/21)00126-7, doi:
	10 1016/i and 2021 04 003 Enub abead of print_PMID:
	33910770
	5. Šošo D. Alijnović I. Lovric Kojundzic S. Marinović I. Čečuk Jeličić
	E. Marasović Krstulović D. Ultrasound-Verified Peripheral
	Arthritis in Patients with HLA-B*35 Positive Spondyloarthritis.
	Life (Basel) 2021 Jun: 11(6): 524 Published online 2021 Jun
	4. doi: 10.3390/life1106052
Professional and research papers	
In methodology and quality of	
teaching published in the last five	
years (max 5 references)	
Professional and research projects	
from the field of the course carried	
out in the last five years ( <b>max 5</b>	
references)	
Within which program and to what	
extent did the course teacher acquire	
methodological, psychological,	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name of the course leader	Frane Mihanović, PhD, Assistant professor
Title of the course at the proposed	IT in Radiologic Technology
study programme	Evidence-based Approach to Methods and Technology in MRI
	Safety of Medical Data and Information Systems
	Forensic Radiography
	Radiography Applied in Other Fields
GENERAL INFORMATION ON COURSE LI	EADER
E-mail address	frane.mihanovic@ozs.unist.hr
Personal web page	/
Year of birth	1962
Scientist ID	354821
CROSBI profile ID	33405
Research rank and date of the last	Research Associate, 2017.
appointment	
Research and teaching or teaching	Assistant professor, 2017.
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Anatomy
research rank	
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University of Split, University Department of Health Studies
Date of employment	10. 2011.
Job title (professor, researcher,	Assistant professor
associate teacher, etc.)	
Field of research	Radiological technology
Position in the institution	
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	PhD
Institution	University of Split, School of Medicine
Place	Split
Date	July 26, 2016
INFORMATION ON ADDITIONAL TRAINI	NG
Year	
Place	Heisinki Aalta Ulainansitu, Finnish National Depud of Education
Institution	Aalto University, Finnish National Board of Education
	nigher education, Education and employability
Mother tongue	UAGES
Foreign language and command of	
foreign language on a scale from 2	English, 4
(sufficient) to 5 (excellent)	
Foreign language and command of	German 2
foreign language on a scale from 2	Serrindiny 2
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Computers in radiology, New technologies in radiology.
teacher of similar courses (title of	Introduction to scientific work.
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	1. S. Janković, F. Mihanović i suradnici. Radiološki uređaji i
from the field of the course	oprema u radiologiji, radioterapiji i nuklearnoj medicini, Sveučilište
	u Splitu, Sveučilišni odjel zdravstvenih studija, Split, 2015., ISBN
	978-953-7220-21-1

Professional and research papers published in the last five years from the field of the course <b>(max 5</b> <b>references)</b>	<ul> <li>2. F. Mihanović. Computed tomography as a method in conservation and restoration, Saarbrücken, LAP, LAMBERT Academic Publishing, 2013., ISBN 978-3-659-45047-1</li> <li>3. S. Janković, F. Mihanović. Uvod u radiologiju, Sveučilište u Splitu, Sveučilišni odjel zdravstvenih studija, Split, 2013. ISBN 978-953-7220-17-4</li> <li>1. Ivanović, A. i Mihanović, F. (2020). Accuracy of measurements performed on digital panoramic radiographs with and without an extra-oral calibration object. ST-OPEN, 1 (-), 1-11. <a href="https://doi.org/10.48188/so.1.1">https://doi.org/10.48188/so.1.1</a></li> </ul>
	<ol> <li>Bazina AM, Peričić TP, Galić I, Mihanović F, Kovačević N, Galić T. Knowledge and attitudes of water polo coaches about sports-related dental injuries and dental emergency procedures. Dent Traumatol. 2020 Aug;36(4):382-389. doi: 10.1111/edt.12551. Epub 2020 Mar 4. PMID: 32058660.</li> </ol>
	<ol> <li>Marić, Josipa; Bašić, Željana; Jerković, Ivan; Mihanović, Frane; Anđelinović, Šimun; Kružić, Ivana, Facial reconstruction of mummified remains of Christian Saint- Nicolosa Bursa // Journal of cultural heritage, 42 (2020), 249-254 doi:10.1016/j.culher.2019.08.008</li> </ol>
	<ol> <li>Kružić, Ivana; Jerković, Ivan; Mihanović, Frane; Marušić, Ana; Anđelinović, Šimun; Bašić, Željana, Virtual autopsy in legal medicine: literature review and example of application on the mummified remains // Medicine, Law &amp; Society, 11 (2018), 2; 67-90 doi:10.18690/ml&amp;s.11. 2 .67 -90.2018</li> <li>Jerković, Ivan; Kružić, Ivana; Bašić, Željana; Mihanović, Frane; Anđelinović, Šimun,The oldest evidence of calcific myonecrosis? // International journal of osteoarchaeology, 28 (2017), 2; 199-200 doi:10.1002/oa.2641</li> </ol>
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	Estimation of the age of the subjects based on magnetic resonance imaging of the knee using artificial intelligence
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Postgraduate doctoral study, Basic course of communication skills for SOZS employees
PRIZES AND AWARDS	
Prizes and awards for teaching and research	Acknowledgment from SOZS

First and last name and title of teacher	Nina Mišić Radanović, PhD. Assistant professor	
The course he/she teaches in the	Health Law	
proposed study programme	Patient's Right	
GENERAL INFORMATION ON COURSE TE	CACHER	
F-mail address	nina misic radanovic@unist hr	
Personal web page		
Year of hirth	1988	
Scientist ID	348995	
Research or art rank, and date of last		
rank appointment		
Research-and-teaching, art-and-	Assistant professor, 10.7.2018.	
teaching or teaching rank, and date of		
last rank appointment		
Area and field of election into	Scientific area: social sciences	
research or art rank	Scientific field: law	
INFORMATION ON CURRENT EMPLOYM	ENT	
Institution where employed	University of Split, University Department of Forensic sciences	
Date of employment	14.11. 2012.	
Name of position (professor,	Assistant professor	
researcher, associate teacher, etc.)		
Field of research	Criminal law, Criminal procedure law, Civil law, Civil procedure law,	
	Medical law	
Function	Head of Chair of law sciences	
INFORMATION ON EDUCATION – Higher	st degree earned	
Degree	PhD.	
Institution	Faculty of law, University of Mostar	
Place	Mostar	
Date	21.10.2017.	
INFORMATION ON ADDITIONAL TRAININ	NG	
Year		
Place		
Institution		
Field of training		
MOTHER TONGUE AND FOREIGN LANG	JAGES	
Mother tongue	Croatian	
Foreign language and command of	English - 4	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)	the line of the li	
Foreign language and command of	Italian - 3	
(sufficient) to 5 (excellent)		
CONFETENCES FOR THE COURSE	Low in Epropeie colonges, graduate university study of	
of similar courses (name title of	- Law in Forensic sciences - graduate university study of Forensics	
course, study programme where it	<ul> <li>Civil law and civil procedure - graduate university study of</li> </ul>	
is/was offered, and level of study	Forensics	
programme)	<ul> <li>Criminal law - graduate university study of Forensics</li> </ul>	
	- Forensics and liability in medicine - graduate university study	
	of Forensics	
	- Introduction to law I. – undergraduate university study of	
	Forensics	

	<ul> <li>Introduction to law II undergraduate university study of Forensics</li> </ul>
Authorship of university/faculty	
textbooks in the field of the course	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	<ol> <li>MIŠIĆ RADANOVIĆ, Nina: Pristanak pacijenta na medicinski zahvat kao razlog za isključenje protupravnosti, Zbornik radova Pravnog fakulteta u Splitu, god.55. 4/2018. str. 865892.</li> <li>MIŠIĆ RADANOVIĆ, Nina: Novo kazneno djelo prisile prema zdravstvenom radniku, Zbornik radova s međunarodnog kongresa "1. Kongres KOKOZ-a i 3. Hrvatski kongres medicinskog prava s međunarodnim sudjelovanjem", Rabac, 2019., str. 147170.</li> <li>MIŠIĆ RADANOVIĆ, Nina: Prijepori o kaznenoj odgovornosti medicinskih djelatnika za stručnu pogrešku, Godišnjak Akademije pravnih znanosti Hrvatske, Vol. XI. No.1, 2020, str. 41-62,</li> <li>MIŠIĆ RADANOVIĆ, Nina, VUKUŠIĆ, Ivan: Quality standard and causality in healthcare malpractice, ECLIC, Osijek, rujan 2020.</li> <li>MIŠIĆ RADANOVIĆ, Nina: Pravni aspekti odbijanja medicinskog postupka, Godišnjak Akademije pravnih znanosti Hrvatske, XII (2024) - tra 2027</li> </ol>
Drefessional and scholarly articles	(2021.) str. 263287.
published in the last five years in	
subjects of teaching methodology and	
teaching quality (5 works at most)	
Professional, science and artistic	
projects in the field of the course	
carried out in the last five years (5 at	
The name of the programme and the	Seminar for development and training of pedagogical competencies
volume in which the main teacher	of university lecturers, CIRCO - Center for research and development
passed exams in/acquired the	of lifelong learning, February 28, 2013.
methodological-psychological-	
didactic-pedagogical group of	
competences?-pedagoske	
PRIZES AND AWARDS, STUDENT EVALUA	Commendation to the first author of the best scientific work created
scholarly/artistic work	at the University Department of Forensic Sciences published in the academic year 2019/2020
	Acknowledgment for special contribution to the work of the Commission for launching the undergraduate university study of Forensics
Results of student evaluation taken in	Student surveys – average grade 4,8
the last five years for the course that	,
is comparable to the course described	
in the form (evaluation organizer,	
average grade, note on grading scale	
and course evaluated)	

Title, name and last name	Assistant professor Antonela Matana, PhD
Title of the course at the proposed	Statistics in Health Care
study programme	
GENERAL INFORMATION ON COURSE LE	EADER
E-mail address	antmatana@ozs.unist.hr
Year of birth	1989.
Scientist ID	365156
CROSBI profile ID	34453
Research rank and date of the last	Research associate, 10.7. 2019
appointment	
Research and teaching or teaching	Assistant professor, 24.11.2020.
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Basic Medical Sciences
research rank	
INFORMATION ON CURRENT EMPLOYM	
Institution of employment	The University of Split, University Department of Health Studies
Date of employment	20. 4 2021
Job title (protessor, researcher,	Assistant professor
associate teacher, etc.)	
Field of research	Biostatistics
Position in the institution	Assistant professor
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	
Institution	University of Split, School of Medicine
Place	
	21.12.2018
	2010
Place	2013. Split Croatia
Institution	The University of Solit Faculty of Science
Field of training	Bioinformatics and Statistics
Vear	2017
Place	London England
Institution	Imperial College London, London
Field of training	Genome-wide association studies
Year	2017
Place	Split Croatia
Institution	The University of Solit Faculty of Science
Field of training	Bioinformatics and Statistics
Mother tongue	Croatian
Foreign language and command of	English - 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	-
teacher of similar courses (title of	
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	-
from the field of the course	
Professional and research papers	Matana A, Boutin T, Torlak V, Brdar D, Gunjaca I, Kolcic I, et al.
	Genome-wide analysis identifies two susceptibility loci for positive

published in the last five years from the field of the course <b>(max 5</b> <b>references)</b>	thyroid peroxidase and thyroglobulin antibodies. J Clin Endocrinol Metab. 2019. Matana A, Ziros PG, Chartoumpekis DV, Renaud CO, Polasek O, Hayward C, et al. Rare and common genetic variations in the Keap1/Nrf2 antioxidant response pathway impact thyroglobulin gene expression and circulating levels, respectively. Biochem Pharmacol. 2019. Matana A, Popovic M, Boutin T, et al. Genetic Variants in the ST6GAL1 Gene Are Associated with Thyroglobulin Plasma Level in Healthy Individuals. Thyroid. 2019;29(6):886-893. Punda A, Škrabić V, Torlak V, Gunjača I, Boraska Perica V, Kolčić I, Polašek O, Hayward C, Zemunik T, Matana A. Thyroid hormone levels are associated with metabolic components: a cross-sectional study. Croat Med J. 2020 Jul 5;61(3):230-238. Matana A, Brdar D, Torlak V, Boutin T, Popović M, Gunjača I, Kolčić I, Boraska Perica V, Punda A, Polašek O, Barbalić M, Hayward C, Zemunik T. Genome-wide meta-analysis identifies novel loci associated with parathyroid hormone level. Mol Med. 2018 Apr 11;24(1):15.
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	
Professional and research projects from the field of the course carried out in the last five years ( <b>max 5</b> <b>references</b> )	<ul> <li>2021 – Principal investigator at the Institutional project "Adherence to the pattern of the Mediterranean diet and the level of physical activity in children and youth in Croatia"</li> <li>2020 - 2024 Associate at the Croatian Science Foundation "Research project" Regulation of thyroid and parathyroid function and blood calcium homeostasis ", leader prof. Tatijana Zemunik</li> <li>2014 - 2018 Doctoral student at the Croatian Research Institute of Research Project IP-11-2013 No. 1498 "Discovery of new gene loci involved in the regulation of thyroid and thyroid function", leader prof. Tatijana Zemunik</li> </ul>
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Undergraduate study of Mathematics and Informatics at the Faculty of Science in Split, Croatia.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	<ul> <li>2021. University of Split Science Award 2020 in the category of Young Scientists for the best-ranked scientists according to WoSCC and Scopus databases</li> <li>2017. Best Presentation Award, "ICHG 2017: 19th International Conference on Human Genetics, December 18-19 2017", Bangkok, Thailand</li> <li>2012. Scholarship of the European Society of Human Genetics (ESHG) for participation in a training course: "Introduction to the statistical analysis of genome-wide association studies", Department of Genomics of Common Disease, Imperial College London, UK</li> </ul>

Title, name and last name of the	Associate professor Tomislav Omrčen	
course leader		
Title of the course at the proposed	Radiotherapy and Oncology; Planning in Radiotherapy; Evidence	
study programme	based Methodology and Technology in Oncology and Radiotherapy	
GENERAL INFORMATION ON COURSE L	ADER	
E-mail address	tomislavomrcen@yahoo.com	
Personal web page		
Year of birth	1968.	
Scientist ID	345720	
CROSBI profile ID	32531	
Research rank and date of the last	Senior research associate, 21.4.2021.	
appointment		
Research and teaching or teaching	Associate professor, 25.11.2021	
rank, and the date of the last		
Area and field of appointment into	Piemedicine and Health Clinical Medical Sciences Oncology	
Area and held of appointment into	Biomedicine and Health, Clinical Medical Sciences, Oncology	
	IENT	
Institution of employment	School of Medicine, University of Split	
Date of employment	17 11 2016	
Job title (professor, researcher	Professor	
associate teacher, etc.)		
Field of research	Urologic oncology, gastrointestinal tumors	
Position in the institution	Deputy Head Chair of Oncology	
INFORMATION ON EDUCATION - Highe	st degree achieved	
Degree	Medical doctor	
Institution	School of Medicine, University of Zagreb	
Place	Zagreb	
Date	1994	
INFORMATION ON ADDITIONAL TRAINI	NG	
Year	2000-2004 Specialization in Radiotherapy and Oncology	
Place	Split	
Institution	University Hospital Split	
Field of training	Oncology	
MOTHER TONGUE AND FOREIGN LANG	UAGES	
Mother tongue	Croatian	
Foreign language and command of	English, 3	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
Foreign language and command of	German, 2	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
COMPETENCES FOR THE COURSE		
Earlier experience as course	Head of compulsory courses Tumors of childhood, Tumors of the	
teacher of similar courses (title of	digestive system and Tumors of the central nervous system at the	
course, study programme where it	University Postgraduate Specialist Study "Oncology and	
is/was held, and level of study	Radiotherapy", School of Medicine, University of Split.	
programme)		
Authorship of university textbooks	E Vrdoljak, I Belac Lovasić, Z Kusić, D Gugić, A Juretić. Clinical	
Trom the field of the course	oncology. Medicinska naklada, Zagreb 2018.	
Protessional and research papers	1. Vrdoljak E, Magri C, Gamulin M, Boskovic L, <b>Omrcen T</b> , Bajić Z	
the field of the course (may F	et al. Real-world safety and efficacy of nivolumab for $\geq 2nd$	
references)	retrospective cohort study in Croatia, Hungary, and Malta	
	Neoplasma 2021:68(1):208-215.	

	<ol> <li>Omrčen T, Eterović D, Vrdoljak E. Predictors of resistance to abiraterone acetate or enzalutamide in patients with metastatic castration-resistant prostate cancer in post- docetaxel setting: a single-center cohort study. Anticancer Drugs. 2020;31(7):742-746.</li> </ol>
	3. <b>Omrčen T</b> , Katić A, Tomić S, Eterović D, Vrdoljak E. Predictors of outcome in elderly patients with metastatic colorectal cancer: the final results of a prospective phase II study of bevacizumab in combination with capecitabine as first-line treatment. Anticancer Drugs. 2020;31(5):518-522.
	<ol> <li>Soljic M, Mrklic I, Tomic S, Omrcen T, Sutalo N, Bevanda M et al. Prognostic value of vitamin D receptor and insulin-like grpwth factor receptor 1 expression in triple-negative breast cancer. J Clin Pathol. 2018;71(1):34-39.</li> </ol>
	<ol> <li>Omrcen T, Katic A, Vrdoljak E. The role of the multidisciplinary team in the decision making process in stage one testicular cancer – Retrospective cohort analysis. J BUON. 2017; 22(5):1333-1337.</li> </ol>
Professional and research papers In methodology and quality of teaching published in the last five years ( <b>max 5 references</b> )	
Professional and research projects from the field of the course carried out in the last five years ( <b>max 5</b> <b>references</b> )	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

First and last name and title of teacher	Davorka Sutlovic, Full professor with tenure
The course he/she teaches in the proposed study programme	Scientific and Research Work
GENERAL INFORMATION ON COURSE	reacher
Address	R. Boškovića 35, 21000 Split
Telephone number	+385/21/564801
E-mail address	dsutlovic@ozs.unist.hr
Personal web page	http://ozs.unist.hr/o-odjelu/ustroj-odjela/uprava/pomocnik- procelnika-odjela-za-nastavu
Year of birth	1961.
Scientist ID	256403
Research or art rank, and date of last	Scientific advisor with tenure; 2019.
rank appointment	
Research-and-teaching, art-and-	Full professor with tenure 2020.
teaching or teaching rank, and date	
of last rank appointment	
Area and field of election into	Biomedicine and health- Basic medical sciences
research or art rank	Interdisciplinary sciences - Basic medical sciences/pharmacy
INFORMATION ON CURRENT EMPLOYMENT	
Institution where employed	University of Split -University department of health studies / Medical School Split
Date of employment	2019. /2008.
Name of position (professor,	Full professor with tenure
researcher, associate teacher, etc.)	
Field of research	chemistry and instrumental tehniques
Function	Head of the Department of Basic medical sciences; Assistant to the Head of Department for Education
INFORMATION ON EDUCATION - High	est degree earned
Degree	Ph.D.
Institution	UNIVERSITY OF SPLIT- SCHOOL OF MEDICINE
Place	SPLIT
Date	2005
INFORMATION ON ADDITIONAL TRAIN	ING
Year	2018; 2015; 2011; 2007; 2005; 2005; 2005; 2004; 2004; 1998;
Place	Slovenia-Otočec; Italy-Florence; Italy, Pavia and Verona; Greek- Athens; ZAGREB; Germany – Duisburg; ZAGREB; Plitvice; Germany - Darmstadth; PULA ;
Institution	European Societies of Toxicology ; Forensic Toxicology Unit, Department of Health Science, University of Florence; Clinical Hospital; Medical School; Medical School- Department of forensic science and criminology; Shimadzu; Center for Criminalistic Investigation " Ivan Vučetić"; European Societies of Toxicology; Applied Biosystems; European Societies of Toxicology;
Field of training	Specialized toxicology course - Regulatory toxicology; Toxicology; Clinical toxicology; Forensic toxicology; Forensic toxicology; Toxicology; Forensic toxicology; Toxicology; Toxicology; Toxicology
MOTHER TONGUE AND FOREIGN LANC	GUAGES
Mother tongue	Croatian
Foreign language and command of	English (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
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Earlier experience as course teacher	1. UNDERGRADUATE AND GRADUATE: ON MEDICINE STUDY
of similar courses (name title of	from 2000 Forensic science
course, study programme where it	from 2007 Small dose of toxicology
is/was offered, and level of study	from 2007 Drugs Abuse in sport
programme)	
	2. UNDERGRADUATE AND GRADUATE: STUDY OF PHARMACY
	from 2011 Forensic pharmacy
	from 2011 Pharmaceutical toxicology
	3. UNDERGRADUATE AND GRADUATE: STUDY OF MEDICAL
	from 2012 - Food Toxicology
	from 2012 General chemistry and stoichiometry
	from 2019 Analytical chemistry
	from 2019 Organic chemistry
	from 2019 Introduction to scientific work
	4. GRADUATE: STUDY FOR FORENSIC SCIENCES
	from 20102017. Forensic chemistry and toxicology I
	from 20102017. Forensic chemistry and toxicology II
	from 2010 2017. Applied forensic toxicology
	from 2010 2017. Food Toxicology
	5. POSTGRADUATE STUDY:
	5.1.ON MEDICAL SCHOOL SPLIT
	from 2007 Biochemical mechanisms of toxicity
	5.2.ON LAW SCHOOL SPLIT - STUDY OF MEDICAL LAW
	from 2007 Forensic medicine
	from 2007 CSI Split - Medical criminology
	from 2011 Forensic toxicology in human medicine
Authorship of university/faculty	1. SutloviC Davorka, et al. Fundamentals of Forensic
textbooks in the field of the course	Toxicology. Split: Redak; 2011.
	2. Sutlovic Davorka, et al. Food Toxicology. Split: Redak; 2011.
	3. Sutlović Davorka. Basics of chemistry, forensics manual for
	students. Split: Redak; 2013.
	4. Kovačić, Zdravko; Nestić, Marina; Sutlović, Davorka.
	Forensic toxicology // Forensic medicine and deontology/
	iviayer, Davor (ur.). Zagred: iviedicinska naklada, 2018. 153-
Professional scholarly and artistic	1 Sutlović Davorka: Kuret Sendi: Definis Marija
articles published in the last five	New psychoactive and classic substances in pooled urine
years in the field of the course (5	samples collected at the Ultra Europe festival in Split.
works at most)	Croatia // Arhiv za higijenu rada i toksikologiju, <b>72</b> (2021),
	3; 198-204 doi:10.2478/aiht-2021-72-3509 (međunarodna
	recenzija, članak, znanstveni)
	2. Nedoklan, Srđan; Knezović, Zlatka; Knezović, Nina; Sutlović,
	Davorka

	1
Professional and scholarly articles	<ul> <li>Nutrition and mineral content in human teeth through THE CENTURIES // Archives of oral biology, 124 (2021), 105075, 8 doi:.org/10.1016/j.archoralbio.2021.105075 (međunarodna recenzija, članak, znanstveni)</li> <li>Sutlović, Davorka; Ključević, Željko; Kuret, Sendi ABCB1, CYP2B6, and CYP3A4 genetic polymorphisms do not affect methadone maintenance treatment in HCV-positive patients // Arhiv za higijenu rada i toksikologiju, 71 (2020), 4; 353-358 doi:10.2478/aiht-2020-71-3378 (međunarodna recenzija, članak, znanstveni)</li> <li>Patrician, Alexander; Versic-Bratincevic, Maja; Mijacika, Tanja; Banic; Ivana; Marendic, Mario; Sutlović, Davorka; Dujić, Željko; Ainslie, Philip N. Examination of a New Delivery Approach for Oral Cannabidiol in Healthy Subjects: A Randomized, Double-Blinded, Placebo-Controlled Pharmacokinetics Study. // Advances in therapy, 36 (2019), 11; 3196-3210 doi:10.1007/s12325-019-01074-6 (međunarodna recenzija, članak, znanstveni)</li> <li>Ključević, Željko; Benzon, Benjamin; Ključević, Nikola; Veršić Bratinčević, Maja; Sutlović, Davorka Liver damage indices as a tool for modifying methadone maintenance treatment: a cross-sectional study // Croatian medical journal, 59 (2018), 298-306 (međunarodna recenzija, članak</li> </ul>
published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	<ol> <li>2007 Heavy metals in human remains from Klis and Bribir ancient county; LEADER; FUNDING SOURCE - MINISTRY OF SCIENCE, EDUCATION AND SPORTS</li> <li>2007 Cardiovascular effects of wine and its constituents; RESEARCHER -FUNDING SOURCE - MINISTRY OF SCIENCE, EDUCATION AND SPORTS</li> <li>Co-leader of the European project "I-SEE European project on New Psychoactive Substance" (2015-2017)</li> <li>Head of the scientific research project of the Government of the Republic of Croatia "Intoxication with new psychoactive substances - treatment protocol" (2017)</li> <li>Head of the scientific research project of the Government of the Republic of Croatia "Monitoring of intoxications with new psychoactive substances by analysis of urine samples" (2018)</li> </ol>
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Mandatory education at the Medical Faculty Split Tempus Project Training of Trainers in Vienna (2x), Pécs and Zagreb
PRIZES AND AWARDS, STUDENT EVALU	JATION
Prizes and awards for teaching and	
scholarly/artistic work	
Results of student evaluation taken in the last five years for the course	

that is comparable to the course
described in the form (evaluation
organizer, average grade, note on
grading scale and course evaluated)

Title, name and last name of the course leader	Assistant professor Ivana Štula, MD, PhD
Title of the course at the proposed	Computerised Tomography
study programme	Equipment and Workflow Quality Control
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	stulaivana@gmail.com
Personal web page	
Year of birth	1967
Scientist ID	
CROSBI profile ID	40319
Research rank and date of the last	
appointment	
Research and teaching or teaching	Assistant Professor
rank, and the date of the last	
appointment	
Area and field of appointment into	Radiology
research rank	
INFORMATION ON CURRENT EMPLOYN	/IENI
Data of amployment	oniversity of split, school of Medicine
Joh title (professor researcher	Assistant professor
Job title (professor, researcher,	Assistant professor
Field of rosparch	Padialagy
Position in the institution	Kaulology
	est degree achieved
Degree	Doctor of science
Institution	University of Solt School of Medicine
Place	Snlit
Date	08 02 2013
INFORMATION ON ADDITIONAL TRAIN	NG
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANG	JUAGES
Mother tongue	
Foreign language and command of	English 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	German 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Computed tomography
teacher of similar courses (title of	Quality Control of the process and device
course, study programme where it	
is/was neid, and level of study	
programme)	
Authorship of university textbooks	Mašković J, Jankovic S. Selected chapters of interventional
from the field of the course	radiology. University of Splt, School of Medicine, Split 2008.
Professional and research papers	1. Vuković I, Brešković T, Duplančić D, Batinić T, Štula I, Bulat C,
published in the last five years from the field of the course <b>(max 5</b>	Tomić S. Castelman's disease presenting as a tumorous
references)	paracardiac formation. Acta clinica Croatica 2016; 55:161-6.

	2 Krnić D. Družijanić N. <b>Štula I.</b> Čankup V. Krnić D.
	2. Krine D, Družijame N, Stula I, Capkun V, Krine D.
	Incarcerated inguninal hernia mesh repair: Effect on
	testicular blood flow and sperm autoimmunity. Med Sci
	Monit.2016; 22:1524-33
	3. Vidiak V. <b>Štula I</b> . Matijevic F. Kavur I. Sertić Milić H: Blašković
	D. Embeliestion of nulmonary attariayonaus malformations
	D. Embolisation of pullionary artenovenous manormations –
	case series Pol J Radiol 2018; 83: e326-e332
	4. Štula I, Marinović Guić M, Lovrić Kojundžić S, Gabrić J.
	Severe thrombosis of abdominal aorta with distal
	embolism as the only clinical manifestation of
	COVID-19 infection. Hrvatski časopis zdravstvenih
	znanosti, <b>1</b> (2021), 1;34-36 doi:10.48188/hczz.1.1.2
	5. Stula I, Kojundzic SL, Guic MM, Novak K. Carotid artery
	stenosis in correlation with neck and carotid artery anatomy
	Vascular. 2021 May 30:17085381211018603. dol:
	10.1177/17085381211018603.
Professional and research papers	
In methodology and quality of	
teaching published in the last five	
years ( <b>max 5 references</b> )	
Professional and research projects	
from the field of the course carried	
out in the last five years (max 5	
references)	
Within which program and to what	
extent did the course teacher acquire	
methodological, psychological,	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	