Name of the course	"Test tube" baby			Code	
Type of study		J		Year of	3
program	Integrated	studies – Medicin	e on Engli	sh study	
Cycle	U		C	· ·	
Credits (ECTS) :	1,5	Semester		Number of	10+10+5
	,			hours per	
				semester	
				(l+e+s)	
Status of the course:	elective	Preconditi		Comparative	
		ons:		conditions:	
Access to course:	3 rd year			Hours of	
				instructions:	
Course teacher:		Associate profes	sor Snjeza	ana Mardesic MD	PhD
Consultations:					
E-mail address and ph	one	smbrakus@gma	il.com		
number:					
Associate teachers					
		Prof. Katarina V	ukojevic N	MD PhD	
Consultations:					
E-mail address and ph	one				
number:					
The aims of the					
course:			-	about the increas	ing
		of infertility, its			
Learning outcomes	After the end of the course, students will be able to:				
(general and specific	- Identify, describe and explain the most important causes of male and			es of male and	
competences):	female infe	•	2		
		-	• •	assisted reproduct	-
	- Name and explain the most relevant achievements in the field of			he field of	
	assisted reproduction				
	- Identify and explain the positive and negative sides of assisted				
	fertilization		nol moto	erials (articles a	and lactures)
				is and construct of	
	1 1	the Ethical aspect			pinions
Course content	Lectures (1	<u>.</u>		Sumber of hours:	
(Syllabus):		of genital tract		<u>3</u>	
(5)1110115).		gy of genital tract		3	
		"test tube baby"		2	
	•	male and female i	nfertility	2	
				-	
	Seminars (10 hours):		Number o	of hours:
	IVF and ag			4	
		: moral and ethica	ıl issue	4	
		ssisted reproducti		ues 2	
		*	1		

	Exercises (10 hours):			Number of hours:			
	Sperm selection: V		we learn				
	from mother Nature?			2			
	Chromosomes in Humans				2		
	Laboratory practice and methodology overview 1						
Format of						lependent	
instruction					ass	assignments	
(mark in bold)							
	Consultations	Work	with	Field work Other		ner	
		mentor	ſ				
	Remarks: In practicals students search for scientific article				s going		
	through PubMed data base to collect the data from the newest					vest	
	literature about IV	F. Atten	ding the cla	sses and prepa	re for	the	
	seminars.						
Student	Final exam; search	ing the	literature, ad	ctive participat	ion in	lectures,	
<i>responsibilities</i>	seminars and pract	ticals.					
Screening student	Class	Class		Seminar essay		Practical	
work	attendance	partic	ipations			training	
(mark in bold)	Oral exam	Writte	en exam	Continous		Essay	
				assesment			
Detailed evaluation w	ithin a Funancan su	stam of	nointe				
Detailed evaluation w	iunn a European sy	siem oj j	Doinis				
STUDENTS	HOURS		PROPOR	TIONS OF	PRC	PORTION	
RESPONSIBILITIES	5		ECTS CR	EDITS	S OI	F MARK	
Class attendance and			0,5		30%		
participations							
Seminar essay			0,5		30%		
Written exam			0,5		40%		
Oral exam							
Further clarification:							
Assessment of students	s' performance will b	be based	on their gen	neral activity d	luring	the course.	
It will include active pa	articipation in the de	ebates. S	tudents will	have an assig	nment	in which	
they need to analyze an	n article and answer	to 5 que	estions from	the analyzed a	article		
	ations of the study	final gra	ade is obtain	ed:			
According to the regula	ations of the study,	\mathcal{O}					
A = 91-100% 5	ations of the study,	0					
A = 91-100% 5 B = 79 to 90% 4	ations of the study,	0					
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3	ations of the study,	C					
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3 D = 55 to 66% 2	ations of the study,	U					
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3	ations of the study,	U					
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3 D = 55 to 66% 2 F = 0 to 54% 1							
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3 D = 55 to 66% 2	Assisted Reproduc	ctive Tec	chnology Na		•		
A = 91-100% 5 B = 79 to 90% 4 C = 67 to 78% 3 D = 55 to 66% 2 F = 0 to 54% 1		ctive Tec DF HEA	hnology Νε LTH AND	HUMAN SER	•		

	Ton TV Low CK Loh CE Ton IIII Female agains and reare ductive			
	Tan TY, Lau SK, Loh SF, Tan HH., Female ageing and reproductive			
	outcome in assisted reproduction cycles. Singapore Med J. 2014			
	Jun;55(6):305-9.			
	Pokulniewicz M, Issat T, Jakimiuk A. In vitro fertilization and age.			
	When old is too old? Prz Menopauzalny. 2015 Mar;14(1):71-3			
	Sharma R , Agarwal A, Rohra VK , Assidi M, Abu-Elmagd M. Turki			
	RF. Effects of increased paternal age on sperm quality, reproductive			
	outcome and associated epigenetic risks to offspring. Reprod Biol			
	Endocrinol. 2015 Apr 19;13:35.			
	Deonandan R. Recent trends in reproductive tourism and international			
	surrogacy: ethical considerations and challenges for policy. Risk			
	Manag Healthc Policy. 2015 Aug 17;8:111-9			
	Saxena P, Mishra A, Malik S. Surrogacy: Ethical and legal issues.			
	Indian J Community Med.2012 Oct;37(4):211-3			
	Sakkas D, Ramalingam M, Garrido N, Barratt CL. Sperm selection in			
	natural conception: what can we learn from Mother Nature to improve			
	assisted reproduction outcomes? Hum Reprod Update. 2015			
	Nov;21(6):711-26			
Optional literature:	Junqueira LC, Carneiro J, Kelley RO. Basic Histology, 13th Edition:			
•	Text and Atlas			
	Sadler TW. Langman's Medical Embryology, 12th Edition			
	Sapunar D, Saraga Babić M. Puljak L, Vukojevic K, Lovric-			
	Kojundzić S, Carev D. Histology atlas on CD. University of Split			
	School of Medicine, Split, Croatia			
	Sobotta – Histology atlas			
Additional	Quality control analysis by the students and peers, Passing exams			
information about	proportion analysis, University of Mostar Committee for the teaching			
the course	quality control report, Extramural evaluation (National agency team			
	for quality control, TEEP)			

Annexes: calendar classes

The number	TOPICS AND LITERATURE
of teaching	
units	
Ι.	Title: Anatomy and embryology of genital tract
	Short description: Definition and the types of genital tract malformation;
	application of therapeutic potential in science and every-day life.
	Literature: required and optional
II.	Title: History of "test tube baby"
	Short description: Development of reproduction techniques during the history
	Literature: required and optional
III.	Title: Causes of male and female infertility
	Short description: Genetic, environment and PID as a cause of infertility
	Literature: required and optional

IV.	Title: Types of assisted reproduction techniques			
	Short description: Differences between insemination and in vitro fertilization			
	Literature: required and optional			
<i>V</i> .	Title: IVF and age			
	Short description: Does IVF in elderly woman impact the life births ratio			
	Literature: required and optional			