Name of the course	"Test Tube" Baby						MSESES06		
Type of study program:	Integrated university studies, Medicine				Year of	study:	3		
Credits (ECTS):	1.5	Semeste	er:	VI	Numbe hours p semeste (l+s+e)	er	25 (10+10+5)		
Status of the course:	elective	Precond	litions:	According to Rulebook	the Compa		/		
Access to course:	Third year medical students				Hours of instruc	•	According to schedule		
Course teacher:	Associa	Associate professor Snjezana Mardesic MD PhD							
Consultations:	As agree	As agreed with students							
E-mail address and phone number:		smbrakı	smbrakus@gmail.com						
Associate teachers:		Prof. Ka	Prof. Katarina Vukojevic MD PhD						
Consultations:	As agree	As agreed with students							
E-mail address and phone number:									
The aims of the course:	The aim of the course is to enable students to understand and gain knowledge about increasing occurrence of infertility, its causes and treatments.						wledge about the		
Laguring		_		•					
Learning outcomes (general and specific competences):	After the end of the course, students will be able to: - Identify, describe and explain the most important causes of male and female infertility								
	 Name and explain different types of assisted reproduction techniques Name and explain the most relevant achievements in the field of assisted reproduction Identify and explain the positive and negative sides of assisted fertilization. Critically judge educational materials (articles and lectures), and participate in argumentative discussions and construct opinions Describe the Ethical aspects of IVF 								
Course content (Syllabus):	Lectures: Anatomy of genital tract; Embryology of genital tract; History of "test tube baby"; Causes of male and female infertility. Seminars: IVF and age? Surrogacy: moral and ethical issue; Types of assisted reproduction techniques. Exercises: Sperm selection: What can we learn from mother Nature? Chromosomes in Humans; Laboratory practice and methodology overview.								
Format of instruction (mark in bold) Consultation			Exercises		Seminars		lependent ignments		
		tions	Work with mentor Fig.		Field work	Oth	ner		
	Remarks: In practicals students search for scientific articles going through database to collect the data from the newest literature about IVF.								
Student responsibilities:	Attending the classes and prepare for the seminars; searching the literature; active participation in lectures, seminars and practicals; final exam.								
Screening student work:	Class attendance		Class Sem participations		Seminar essay	y Pra	cticaltraining		
(mark in bold)	Oral exam				Continuous assessment	Ess	ay		
Detailed evaluation within a European system of points									
STUDENTS H RESPONSIBILITIES		HOURS		PROPORTIONS OF ECTS CREDITS		PROF MAR	PORTIONS OF K		
Class attendance and participations		25	25		0.9		30%		
Seminar essay		10		0.3			30%		

Total	45	1.5	100%			
Further clarification:						
Assessment of students' performance will be based on their general activity during the course. It will include active						
participation in the debates. Students will have an assignment in which they need to analyze an article and answer						
to 5 questions from the analyzed article. Evaluation is descriptive (pass/fail).						
	Assisted Reproductive Technology National Summary Report, US DEPARTMENT					
	OF HEALTH AND HUMAN SERVICES Centers for Disease Control and Prevention,					
	2014					
	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					
	•	Surrogacy: Ethical and legal issu	ues.Indian J Community			
M	ed.2012 Oct;37(4):211-3		·			
		Garrido N, Barratt CL. Speri				
	conception: what can we learn from Mother Nature to improve assisted reproduction					
	tcomes? Hum Reprod Update	e. 2015 Nov;21(6):711-26				
Optional literature:						
· ·	eans of course quality control	:				
	udent questionnaire					
_	uality analysis by students and					
	Analysis of student passing rate					
	Office for course quality control report Self-evaluation and out of institutional evaluation (visits by quality control teams)					
Se	elf-evaluation and out of instit	utional evaluation (visits by qua	ality control teams)			

10

0.3

40%

Annexes: calendar classes

Written exam

The number of teaching units	TOPICS AND LITERATURE				
I.	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				
V.	Title: IVF and age				
	Short description: Does IVF in elderly woman impact the life births ratio				
	Literature: required and optional				