NAME OF THE COURSE	FORENSIC BIOLOGY					
Code	**FZ108**	Year of study	1.			
Course teacher	Damir Marjanović, PhD, Full professor	Credits (ECTS)	3			
Associate teachers	Josip Crnjac, professor Livia Slišković, MSc	Type of instruction (number of hours)	L	S	E	F
			15	15	15	
Status of the course	Mandatory	Percentage of application of e-learning	/			

COURSE DESCRIPTION	
Course objectives	Train and teach students to recognize different biological traces which can be found at the crime scene, the ways in which they should be collected, packaged and shipped to the expertise and testing in terms of forensic identification and individualization.
Course enrolment requirements and entry competences required for the course	Requirements for course enrollment are defined by the Regulations at the University Department of Forensic Sciences and by the Regulations on Studies and System of Studies at the University of Split.
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	1. Identify different biological traces at the scene. 2. Recommend best method for evidence collection. 3. Critical assessment of the use of the methods for evidence collection. 4. Provide rules for handling of exempted trace. 5. Recommend rules and guidelines for packaging of biological evidence and prevention of contamination. 6. Assess the origin of potential biological traces. 7. Classify methods of determining the biological trace.

Course content broken down in detail by weekly class schedule (syllabus)		
	L1+E1	Basics of general and molecular biology: structure and functioning of cells, characteristics of different types of tissue. Defining the basic concepts of population biology.
	L2+E2	Defining the basic concepts of animal, plant and human anatomy and physiology, Principles of Plant and Animal biology: taxonomy, reproduction, metabolism, molecular genetic characteristics.
	L3+E3	The basic postulates of forensic biology in the study of biological traces of human origin
	L4+E4	Basics of forensic serology. Peculiarities of body fluids. The collection, testing and storage of traces of blood, semen and saliva.
	L5+E5	Identification and individualization of persons through analysis of phenotypic markers, identification and individualization of people by analyzing hair samples.
	L6+E6	Use of traces of animal origin in judicial and police investigations. Basic forensic entomology.
	L7+E7	Using traces of plant origin in judicial and police investigations. Basics of forensic palynology.

	L8+E8	Future developments in forensic biology and value of "biological evidence" in court.
	S1-10	Seminars

Format of instruction	☒ lectures ☒ seminars and workshops ☒ exercises ☐ *on line* in entirety ☐ partial e-learning ☐ field work	☐ independent assignments ☐ multimedia ☐ laboratory ☐ work with mentor ☐ (other)
Student responsibilities	Regular attendance of classes, writing of seminar papers.	

Screening student work *(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)*						
	Class attendance	0,5	Research		Practical training	0,5
	Experimental work		Report		(Other)	
	Essay		Seminar essay	0,5	(Other)	
	Tests		Oral exam		(Other)	
	Written exam	1,5	Project		(Other)	

Grading and evaluating student work in class and at the final exam	Assessment and evaluation of students' work is done in a way that the total of 25 points as it is possible to achieve, 20% (5 points) can be achieved by student's assessment of the seminar paper and the remaining 80% (20 points) is established in written exam consisting of 20 questions. The largest number of points that a student can earn is the 25. Grades: 13-15 sufficient; 16-19 good, 20-23 very good; 24-25 excellent

Required literature (available in the library and via other media)	**Title**	**Number of copies in the library**	**Availability via other media**
	Marjanović, D., Primorac, D.; Forenzična genetika: teorija i aplikacija; LELO, Sarajevo, 2013.	Library of Department	
	Gunn, A., Essential Forensic Biology, Chichester: John Willey & sons, 2009.	Library of department	
	Primorac, D., Marjanović D., ET AL. Analiza DNA u sudskoj medicini i pravosuđu. Zagreb: Medicinska naklada, 2008.	University Library	

Optional literature (at the time of submission of study programme proposal)	Materials from lectures and seminars
Quality assurance methods that ensure the acquisition of learning outcomes	- Analysis of success of the study in all courses in study progarmme - Student survey on quality of teachers and teaching for each course in study programme - Final exam conducted by course teacher examines all learning outcomes of course
Other (as the proposer wishes to add)	/