Attachment No. 3		Course program for the first cycle of studies				
1.	Course title	Forensic medicine and dentistry				
2.	Code	DMMFM6				
3.	Study program	Dentistry - integrated first and second cycle of studies				
4.	Organizer of the study program (unit, i.e., institute, department, division)	UKIM - Faculty of Dentistry – Skopje, Department of Forensic Medicine				
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies				
6.	Academic year/semester	Year	6	semester	11	
7	Course workload expressed in ECTS credits	3				
8.	Teacher (in case of multiple	Teacher in charge: Asst. Dr. Natasha Bitoljanu				

	teachers, designated teacher in charge)	*The teaching is conducted by all professors of the Department of Forensic Medicine.
9.	Language in which the curriculum is conducted	English
10.	Necessary prerequisites for taking and passing the course	Complete compulsory subjects from the fifth year and passed all compulsory subjects from the fourth year.
11.	Course objectives (competences) and learning outcomes:	From the theoretical teaching - knowledge of forensic medical autopsy and indications, death and types of death, signs of death, and cause of death. Knowledge of forensic traumatology, identification of gender, age, and forensic DNA analysis. Broader knowledge of dental identification in individual cases and procedures in mass accidents. Broader knowledge of expert examination, qualification of bodily injuries, and expert examination of injuries to the stomatognathic system. From practical teaching - capable of recognizing different types of injuries, recognizing and describing injuries to the stomatognathic system, capable of taking biological traces for forensic examination, capable of writing a medical certificate and issuing a medical certificate for injuries to the stomatognathic system, broader knowledge of DNA identification through dental tissue, capable of examining teeth during an autopsy, capable of recording dental status in Interpol forms, broader knowledge of bite analysis and identification of the perpetrator.
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Theoretical instruction - lectures Chapter 1 - Forensic medicine…15 classes. Introduction, subject of study, tasks, Forensic medical autopsy, indication, types.....2 classes - Thanatology - Agony, death, types of death, cause of death, early and late signs of death.....2 classes - Forensic traumatology - mechanical injuries...3 classes - Asphyxial, nutritional, psychological injuries……2 classes - Physical, chemical injuries……...2 classes - Murder, suicide, accident……..2 classes - Identification of living, dead, skeletonized…...2 classes Outcomes from chapter 1: The students will have knowledge of death, types of death, types of injuries, injuries of the stomatognathic system 2. Chapter - Forensic Dentistry...15 classes - Dental identification, procedure, and analysis, Dental identification in mass accidents, Dental documentation.....2 classes - Age identification through the dentition, Determining gender and race through dental and craniofacial characteristics.....2 classes - Developmental and acquired changes in teeth, Comparison of antemortem and postmortem dental characteristics, DNA identification from dental tissue.....3 classes - Soft tissue injuries, bites, Classification of injuries to the stomatognathic system.....2 classes - Forensic medical examination, Qualification of bodily injuries.....2 classes - Criminal liability of doctors, Medical error, negligent treatment.....2 classes - Expertise in dentristy, Most common errors and negligent treatment among dentists, Criminal liability of dentists.....2 classes Outcomes from chapter 2: Broader knowledge of dental identification in individual cases and procedures in mass accidents. Broader knowledge of forensic examination, qualification of bodily injuries, and forensic examination of injuries to the stomatognathic system. Total: .....30 classes Practical teaching - exercises

		- From the first chapter …7..... classes - From the second chapter ..8..... classes. Total .....15 classes			
13	Interrelation of subjects	Medical error, negligent treatment in the treatment of diseases and injuries of the stomatognathic system			
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, laboratory or clinical exercises, presentation and performance of procedures in dental identification, demonstration of instruments and methods used, presentation of cases			
15.	Total available time	90 classes			
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching classes	30 classes	
		16.2.	Exercises (laboratory, auditorium), seminars, teamwork: classes	15 classes	
		16.3.	Practice: classes		
17.	Other forms of activities	17.1.	Project assignments: classes		
		17.2.	Independent assignments: classes		
		17.3.	Home study - assignments	45 classes	
18	Signature requirements	In order to receive a signature and take the final exam, the students must attend theoretical and practical instruction and earn a minimum score.			
19	Grading method				
	19.1.	Tests: points		12-20 points	
	19.2.	Seminar paper/project, written and oral presentation: points		5 points Lectures 3-5 points Exercises 3-5 points	
	19.3.	Final exam: points		42 – 70 points	
20	Grading criteria (points/grade)		up to 59 points	5 (five) (F)	
			from 60 to 68 points	6 (six) (E)	
			from 69 to 76 points	7 (seven) (D)	
			from 77 to 84 points	8 (eight) (C)	
			from 85 to 92 points	9 (nine) (B)	
			from 93 to 100 points	10 (ten) (A)	
21.	Method of monitoring the quality of instruction	Self-evaluation by students, control by assistants in carrying out practical instruction, and assessment of the students' success, as well as the pass rate of students who have passed the course			

22. Literature

22.1. Required literature

Ord. No.	Author	Title	Publisher	Year
1.	Vincent J. Dimaio, Dominic Dimaio	Forensic Pathology	Tabernakul	2010
2.	Milosh Tasikj et al.	Forensic Medicine	Zmaj, Novi Sad	2007
3.	Brkikj H. et al.	Forensic Dentistry	Shkolska knjiga, Zagreb	2000
4.	Janeska B. et al.	Practicum - Forensic Medicine	Institute of Forensic Medicine, Faculty of Medicine Skopje	2019

22.2. Additional literature

Ord. No.	Author	Title	Publisher	Year

		1.	Zechevech et al.	Forensic Medicine and Deontology	Medicinska Naklada, Zagreb	2004
		2.	C. Michael Bowers	Forensic Dental Evidence, An Investigator's Handbook	Elsevier academic press	2004