Attachment No. 3		Course program of the first cycle of studies				
1.	Course title	General surgery				
2.	Code	DMMGS3				
3.	Study program	Dentistry - integrated first and second cycle of studies				
4.	Organizer of the study program (unit, i.e. institute, department, division)	University "Ss. Cyril and Methodius" in Skopje, Faculty of Medicine – Skopje, Department of Surgery				
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies				
6.	Academic year/semester	Year	3	Semester	6	
7	Course workload expressed in ECTS credits	5				
8.	Teacher	Teacher in charge: Prof. Dr. Elizabeta Mirchevska Zhogovska Teachers included in the course: Prof. Dr. Simon Trpeski Prof. Dr. Lazar Todorovikj Prof. Dr. Risto Cholanchevski Prof. Dr. Aleksandar Chaparoski Prof. Dr. Oliver Stankov Prof. Dr. Gjorge Jota Assc. Prof. Dr. Aleksandra Gavrilovska Dimovska Assc. Prof. Dr. Borislav Kondov Assc. Prof. Dr. Vladimir Rendevski				
9.	Language in which the curriculum is conducted	English				
10.	Necessary prerequisites for taking and passing the course	Completed all compulsory subjects from the second year and passed all compulsory subjects from the first year				
11.	Course objectives (competences) and learning outcomes:	The student will learn and master the skills within the framework of rational diagnostics and modern treatment of surgical diseases. • The student will become familiar with the basic principles of diagnosing, surgical preparation, and treatment within the framework of general surgery. • Basic knowledge of basic surgical principles. • Basic knowledge of wounds and wound healing. • Basic knowledge of surgical oncological diseases and anesthesiology. • Knowledge of asepsis, antisepsis, and infection control. • Knowledge of craniocerebral and craniofacial injuries.				
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Theoretical teaching – lectures Chapter 1. – General surgery • Introduction to surgery. Basic surgical principles. Operating room and basic surgical instruments. Asepsis, antisepsis, and infection control. Non-specific and specific surgical infections – 3 classes • Systemic response to injury. Mechanical injuries. Initial care and treatment of the wounded. Fractures, dislocations, and distortions. Injuries in military conditions and treatment of injuries in war conditions –2 classes				

		• Wounds, wound healing, wound treatment. Thermal injuries - 3 classes • Infections of the head and neck - 2 classes • Cutaneous defects. Closure of cutaneous defects with flaps. Skin transplantation – 4 classes • Bleeding, hemostasis, and blood transfusion – 2 classes • General anesthesia, principles and types. Anesthesia for dentists and local anesthesia. Craniocerebral injuries and space compression syndrome – 3 classes • TEST 1 – first colloquium on the topics covered so far • Peripheral nerve injuries. Trigeminal neuralgia. Brain and spinal cord tumors – 3 classes • Spontaneous intracranial hemorrhages, quantitative disorders of consciousness (GCS), degenerative diseases of the spinal column (spinal stenosis, disc herniation, spondylolisthesis) – 2 classes • Medial and lateral neck cysts, palatoschisis, cheiloschisis, cheilo-palato-schisis - 2 classes • Childhood injuries – 2 classes • Fractures of the spinal column, pelvis, upper and lower extremities – 3 • Thyroid and parathyroid diseases. Esophageal diseases, foreign bodies in the esophagus. Breast Diseases – 3 classes • Tumors of the respiratory tract. Foreign bodies in the respiratory tract – treatment. Chest injuries – 2 classes • Diseases of the arteries, veins, and lymphatics - 3 classes • Diseases of the kidney, ureter, urethra, prostate and bladder – 3 classes • Abdominal injuries, acute abdominal pain, stomach diseases. Diseases of the liver, biliary tract and pancreas – 3 classes Results from chapter 1: The student will learn and master the skills within the framework of rational diagnostics and modern treatment of surgical diseases. Total:……..45 classes Practical teaching – exercises Total:.....30 classes		
13	Interrelation of subjects			
14.	Detailed description of the teaching and working methods for the subject	Interactive lectures, exercises for students in the outpatient clinic and operating room, introduction to surgical instruments, and use of some of them. Working in smaller groups for exercises, with a responsible mentor/assistant, who is responsible for implementing the educational practical process in all areas.		
15.	Total available time	150 classes		
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching. classes	45
		16.2.	Exercises (laboratory, lecture), seminars, teamwork: classes	30
		16.3.	Practice: classes	
17.	Other forms of activities	17.1.	Project assignments: classes	
		17.2.	Independent assignments: classes	
		17.3.	Home study - assignments	75 classes
18	Signature requirements	To receive a signature, the student must attend theoretical classes, actively participate in practical classes, and take continuous tests. To take the final exam in an exam session, the student must have passed each of the planned continuous tests with a minimum of 60% points. If the student has not passed the continuous tests during the semester, the student takes a complete exam (during the exam session, the student first takes the failed continuous tests, and then takes the final exam). The grade for the course is formed according to the grade table, and based on the sum of the points from all activities, continuous tests, and the final exam.		
19	Method of assessment			
	19.1.	Tests: points		20 points min. 12 – max. 20
	19.2.	Seminar paper/project, written and oral presentation: points		15 points 1. Teaching – 5 points * Attendance at theoretical classes

				30%-50% 1 point 51%-70% 3 points 71%-100% 5 points 2. Exercises – 10 points * Attendance at practical classes 30%-50% 6 points 51%-70% 8 points 71%-100% 10 points
	19.3.	Final exam: points		65 points min. 39 – max. 65
20	Grading criteria (points/grade)		from 59 points	5 (five) (F)
			60 to 68 points	6 (six) (E)
			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 teaching		Self-evaluation by students, control of assistants in carrying out practical teaching 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.	Prof. Dr. Elizabeta Mirchevska Zhogovska; Prof. Dr. Boro Dzhonov; Prof. Dr. Svetozar Antovikj; Prof. Dr. Vladimir Mirchevski; Prof. Dr. Lazar Todorovikj; Prof. Dr. Oliver Stankov; Prof. Dr. Simon Trpeski; Prof. Dr. Borislav Kondov	General surgery for dental students	University "Ss. Cyril and Methodius", Faculty of Medicine - Skopje; Department of Surgery	2024
2.	Courtney M. Townsend, Jr., MD, R. Daniel Beauchamp, MD, B. Mark Evers, MD, and Kenneth L. Mattox, MD	Sabiston Textbook of Surgery,19th Edition	Part of the Macedonian government's program for textbook translation	2012
3.	Department of Surgery	Special surgery	University "Ss. Cyril and Methodius" Faculty of Medicine Skopje	2013

22.2. Additional literature

Ord. No.	Author	Title	Publisher	Year
1.	G. Kondov	Thoracic surgery	McAway	2009
2.	J. Ugrinovski S. Jovkovski I. Pangovski K. Lozance V. Stoleski	Neurosurgery	Makedonska Kultura Skopje	2002

		3.	Marija Sholjakova et al.	Anesthesiology and resuscitation	Biografika	2007