Name of the course	**Maxillofacial Surgery**			***Code***	MSE509
Study program:	Integrated university study program, Medicine			***Year of study:***	5
Credits (ECTS):	1.0	***Semester:***	X	***Number of hours per semester (l+s+e):***	20 6+7+7
Status of the course:	obligatory	***Preconditions:***	According to the Rulebook on Studying	***Comparative conditions:***	/
Access to course:	Fifth year students			***Hours of instruction:***	According to schedule
***Course teacher*:**	Full Professor Predrag Knežević, MD, PhD				
Consultations:	As agreed with students				
E-mail address and phone number:	pknezev@kbd.hr				
Associate teachers	Associate professor Emil Dediol, MD, PhD Mario Kordić, MD, MSc, Senior Assistant Goran Šimić, MD, MSc, Senior Assistant Tanja Šimić Bilandžija, MD, Senior Assistant				
Consultations:	As agreed with students (by phone and e-mail)				
E-mail address and phone number:	korda333@gmail.com; goransimic129@gmail.com; tanjasb@gmail.com 036 / 336 - 306, - 309;				
Course objectives:	- To enable students to acquire appropriate knowledge about the causes, clinical findings, diagnosis and treatment of most pathological conditions of the face, jaw, oral cavity, oropharynx, paranasal sinuses, large salivary glands and neck that are in the field of maxillofacial surgeon. - To enable students to acquire appropriate skills that enable diagnosis, first aid and problem solving in the field of maxillofacial surgery at the level of primary practice. - Educate students to acquire positive attitudes that are important for their communication with patients, colleagues and associates in solving medical problems.				
Learning outcomes (general and specific competences):	After completing the course, the students will acquire the following knowledge, skills and attitudes: **General competencies:** During their studies, they will be able to plan independent learning by critically and self-critically questioning scientific truths. They will be able to demonstrate personal qualities (teamwork and personal contribution, interest, active listening and building positive relationships with group members, ability to defend their views in an argumentative manner). **Specific competencies:** They will know the surgical anatomy of the organs and regions of the head and neck that are in the domain of the maxillofacial surgeon and use their knowledge to understand the surgical procedures in maxillofacial surgery. They will be able to use the basics of clinical physiology, embryology and histology to explain pathological conditions of the head and neck region that are in the domain of the maxillofacial surgeon. They will be able to perform diagnostics and treatment at the level required for the work of a medical doctor in primary practice on the basis of acquired knowledge of etiopathogenesis, clinical picture and diagnosis of diseases in the field of maxillofacial surgery. They will be able to use specific instruments for basic diagnostic procedures in maxillofacial region and determine the condition of the organs and regions of the head and neck. Based on the above acquired knowledge and skills, they will be able to implement the transfer of knowledge, prevention and basics of treatment of injuries and diseases in the field				

	of maxillofacial surgery at the level of primary practice. They will be able to provide first aid in emergencies in the head and neck region, especially facial and jawbone fractures and soft tissue injuries. Learning outcomes will be evaluated during classes by continuous testing of knowledge - insight into the acquired practical skills in exercises, through practical work and clinical examination of patients in the clinic and ward, discussions during seminars and the final exam.			
Syllabus/Course content (in brief):	In the course of maxillofacial surgery, students will acquire knowledge and skills that enable them to actively implement prevention, diagnosis and treatment of injuries and diseases of the head and neck at the level of primary care physicians. The student should fully master propaedeutics, clinical examination and be able to independently diagnose and perform simpler procedures.			
Type of instruction (mark in bold)	**Lectures**	**Exercises (clinical practicals)**	**Seminars**	**Independent assignments**
	Consultations	Work with mentor	Field work	Other
	Notes: The teaching day begins with lectures, followed by seminars and ends with exercises. The student actively participates in the seminar in processing certain teaching topics. During the exercises, the student gets acquainted with the clinical examination of patients and gets acquainted with the instruments used for the diagnosis and treatment of diseases that are in the domain of the subject. Students first learn to use the aforementioned aids on each other, and then use them to examine patients. In the outpatient department, polyclinic and in the ward the student assists to specialists or independently performs diagnostic procedures or therapeutic interventions under the supervision and assistance of a specialist. In the operating rooms, the student learns about materials, instruments, devices and procedures that are specific to maxillofacial surgery. Follows and assists in head and neck surgeries, independently performs primary treatment of minor wounds under the supervision of a specialist.			
Student responsibilities	Attendance and active participation in teaching; seminar obligations; practical work with patients in surgeries, inpatient wards and operating room; colloquium; final exam. Students will be monitored and graded based on: • Active participation in seminars and exercises, • Analysis of teaching texts, developing one's own critical thinking about the material and the way of presenting and defending one's position, • Cooperation in small groups on practical work in the processing of patients and patient documentation during classes • Demonstrated knowledge at the practical skills exam and at the final exam			
Screening and evaluation of students (mark in bold)	**Class attendance**	**Class participation**	Seminar work	**Practical work**
	Colloquium - Practical exam	**Final exam**	Continuous assessment	Essay

Detailed evaluation within the European Credit Transfer System

STUDENT RESPONSIBILITES	**HOURS (ESTIMATE)**	**SHARE IN ECTS**	**SHARE IN GRADE**
Class attendance and participation	20	0.6	0%
Colloquium – Practical exam	5	0.2	0%
Final exam (written/oral)	5	0.2	100%
TOTAL:	30	1	100%

Students who have attended classes regularly have the right to take the exam. A student who missed more than 20% of exercises or the rest of the course, in agreement with the assistant, will do the compensation at the Polyclinic for Maxillofacial Surgery, University Clinical Hospital in Mostar or in agreement with the assistant present a seminar topic. They can take the exam with assistant's certificate of the completed obligations.

The exam in Maxillofacial Surgery includes:

1) Colloquium - includes a test of acquired clinical skills and is conducted as:
- written test
- test of performing clinical skills - interpretation of patient findings (radiological, laboratory, pathohistological)

Participation in classes (minimum 80%) and passing the colloquium are the conditions for taking the final exam.

2) The final exam (first exam deadline) is conducted exclusively by a written test (30 questions, multiple choice, one correct answer).

SCORING AND GRADES

Excellent (5)	28-30
Very good (4)	25-27
Good (3)	20-24
Sufficient (2)	17-19
Insufficient (1)	0-16

The remedial exam (all subsequent deadlines for students who did not take the exam, did not pass the exam or want a higher grade) is oral. The list of questions is available to students and the exam consists of 4 questions (traumatology, malformations and deformities, tumors, inflammatory diseases of the head and neck).

Required literature:	**1.** Lukšić et colleagues: Maxillofacial surgery, "Naklada Ljevak" University of Zagreb, 2023. 2. Lecture handouts and selected relevant articles
Additional literature:	Presentations of lectures are available to students. Video presentations of skills performed on education medical models are available to students at the course website.
Additional information about the course	Methods of monitoring the quality of teaching: - Student questionnaire - Analysis of the quality of teaching by students and teachers - Analysis of exam results - Report of the Quality assurance office - Self-evaluation and external evaluation (visit of the team from Quality assurance office)

Annexes: calendar classes

Number and identification of teaching unit (L-lecture, S-seminary, P-practicals):	TOPICS AND LITERATURE
L1	Title: Introduction to maxillofacial surgery - origin and history of the profession
	Literature: 1
L2	Title: Traumatology of the face and jaw
	Literature: 1
L3	Title: Deformities of the face and jaw
	Literature: 1
L4	Title: Tumors of the head and neck
	Literature: 1
L5	Title: Inflammation in the head and neck region

	Literature: 1
L6	Title: Malformations of the face and jaw
	Literature: 1
S1	Title: Classification of skin flaps
	Literature: 1
S2	Title: Reconstructions and aesthetic surgery of the head and neck.
	Literature: 1
S3	Title: Odontogenic inflammations - principles of treatment
	Literature: 1
S4	Title: Osteosynthesis of the mandible and maxilla - principles of treatment
	Literature: 1
S5	Title: Neck dissections - classification
	Literature: 1
S6	Title: Lip and palate surgery - surgical techniques
	Literature: 1
S7	Title: Preoperative planning in orthognathic surgery
	Literature: 1
P1	Title: Clinical examination of patients
	Literature: 1
P2	Title: Suturing a wound on a model
	Literature: 1
P3	Title: Setting of IMF; types of OS in the MF region
	Literature: 1
P4	Title: Local flaps in the head and neck region
	Literature: 1
P5	Title: Postoperative care of MF patients
	Literature: 1
P6	Title: Analysis of pre- and postoperative X-rays in facial bone fractures
	Literature: 1
P7	Title: Analysis of dental models, clinical photographs and X-rays in deformities
	Literature: 1