

1	Subject	ANESTHESIA AND SEDATION			
2	Code	DAS111			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	Department of Maxillofacial Surgery			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	3/6	7	Number of credits	3
8	Teacher	Teachers from Department of Maxillofacial Surgery			
9	Preconditions	Passed all compulsory courses of 1 and 2 semester. Signatures of 3 and 4 semester courses			
10	Teaching goals: The student should be able to set an indication of the type of anesthesia depending on the general condition of the patient, the volume and severity of the intervention and other subjective and objective parameters. The student should be familiar with both theoretical and practical skills of local anesthesia techniques. The student should be theoretically acquainted with the techniques of sedation and their application in anxious patients.				
11	Brief content				
	Theoretical course				Class
	Pathways for orofacial pain sensation. Cranial nerves of head and neck and their implications in electrical stimulation of muscle nociceptors which produces and pain. Fundamentals of Impulse Generation and Transmission.				1
	Anesthesia & Analgesia. These different kinds of Anesthesia, local, general and sedation or monitored anesthesia care.				1
	History of the Development and Evolution of Local Anesthesia, Physical–chemical characteristics. Mode of action of local anaesthetics				1
	Vasoconstrictors and types of local anesthesia.				1
	Various techniques of local anesthesia				1
	Medical Emergencies, overdose and Complications during local anesthesia.				1
	The role of farmaci-sedation, psychosedation and sedation				1
	Farmacosedation about medicaments and a route of administration.				1
	A health assessment, The ASA physical status classification system, and stress reduction protocol				1
	Benzodiazepines (benzos), Opioids and sedative medicaments				1
	Inhalation sedation, Nitrous oxide (laughing gas or nitrous) in outpatient ambulatory				1
	Monitoring computed-assisted and delivery of sedation				1
	General anesthesia, mode of action and practical aspects of their phases				1
	Procedural sedation and general anesthesia				1
	Side effects and complications of general anesthesia				1
	Total				15
	Practical lessons:				Class
	Physical and Psychological Evaluation of patient's health status prior to the presenting medical problem/ Preoperative evaluation and preparation for local anesthesia. Guidelines and preparing the patients for sedation and general anesthesia. Indications and contraindications for local and general anesthesia regarding sedation. Techniques of local and general anaesthesia in operating theatre as classroom. Show and study/learning some teaching competencies. Common local complications associated with local anesthesia				15

	Total			15
	Seminars			Class
	Elaboration of topics from the relevant material, presentation of the topics by the students and active involvement of the students until discussion of the given topic.			15
12	Methods of studying: class room oriented lectures, interactive lectures, group work, practical training, seminar paper			
13	Total available time	90 classes		
14	Organization of the course	15 classes - theoretical course, 15 classes- practical course, 15 classes - seminars, 45 classes - home individual learning and other activities		
15	Forms of teaching activities	15.1.	Theoretical course	15 classes
		15.2.	Practical course, seminars	Practical course- 15 classes Seminars – 15 classes
16	Other forms of activities	16.1.	Project tasks	
		16.2.	Individual tasks	
		16.3.	Individual (home) learning	45 classes
17	Method of assessment	17.1.	Tests	30 points
		17.2.	Active participation, seminar paper/project (oral/written presentation)	10 points
		17.3.	Final (oral) exam	60 points
18	Grading criteria (points / grade)	Up to 59 points		5 (five) (F)
		from 60 to 67 points		6 (six) (E)
		from 68 to 75 points		7 (seven) (D)
		from 76 to 84 points		8 (eight) (C)
		from 85 to 93 points		9 (nine) (B)
		from 94 to 100 points		10 (ten) (A)
19	Requirement for signature and taking the final exam	<p>The student is required to actively follow all of the planned activities.</p> <p>Conditional criteria for assessment of knowledge:</p> <p>In order to get a signature, the student should obtain minimum points in both theoretical and practical courses, and to present seminar paper;</p> <p>In order to take the final exam, the student should obtain the minimum points from activity and test;</p> <p>If the student has not obtained the minimum points in the continual assessments, he/she in next exam session will have paper part of the exam (40 points) and final exam (60 points)</p>		
20	Language of the course	English		
21	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities		
22	Literature			
	22.1.	Mandatory textbooks		
		No.	Author	Title

		1	Stanly Malamed	Sedation	Mosby	2009
		2	Popovik-Monevska D.	Authorized (Lectures)		
		3	Stanly Malamed	Sedation	Mosby	2009
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
			Peterson	Contemporary Oral and maxillofacial surgery	Mosby	2014