

1.	Subject	OTORHINOLARYNGOLOGY			
2.	Code	OM 522			
3.	Study Program	General medicine			
4.	Organizing Institution (Unit, Institute, Chair, Department)	UKIM-Faculty of Medicine Cathedra of otorhinolaryngology			
5.	Educational degree (first or second cycle)	Integrated cycle - first			
6.	Study year /semester	Fifth (V)	Ten th(X)	Number of credits	6
8.	Responsible teacher	Prof. Marina Davcheva Chakar, PhD MD			
9.	Preconditions:	Completed course of VII semester			
10.	Teaching goals of the study program (competencies):				
	<ul style="list-style-type: none"> • Student should learn the main symptoms and signs of certain pathological conditions in otorhinolaryngology • To perform the basic investigations in this area. 				
11.	Contents of the study program: Theoretical course::				
	<ul style="list-style-type: none"> • Clinical anatomy and physiology of the ear, congenital malformations of the external, middle and inner ear, noninflammatory, inflammatory diseases of external ear, acute and chronic middle ear diseases, otogenic complication of otitis, injuries of the middle ear, bone diseases of the middle ear, general aspects of cochlear and retrocochlear hearing loss, treatment of pediatric hearing disorders, vestibular disorders, tumors of the ear, tumors of the cerebellopontine angle, sudden sensorineural hearing loss, temporal bone fractures, diagnosis and management of facial paralysis, auditory rehabilitation • Clinical anatomy immunology and physiology of the nose and paranasal sinuses. morphology of the nasal mucosa, nasal deformities, inflammation of external nose, nasal cavity and facial soft tissues, sinus inflammation, nasal polyposis, rhinosinogenic complications, tumors of the nasal cavity and 				

	<p>paranasal sinuses, allergic rhinitis, vasomotor rhinitis, epistaxis, fractures of the nasal pyramid, tumors of the nose and paranasal sinuses.</p> <ul style="list-style-type: none"> • Anatomy, physiology and immunology of the pharynx, diseases of the nasopharynx, oropharynx, peripheral obstructive sleep apnea syndrome, tumors, diseases of the hypopharynx and esophagus. • Anatomy of the external neck, malformation, inflammation and tumors of the neck, clinical anatomy of the larynx and trachea, malformation of the larynx and trachea, infectious diseases of the larynx and trachea in adults and children, chronic nonspecific laryngitis, foreign-body aspiration and injuries of the larynx and trachea, tumors of the larynx and trachea, airway management, neurogenic disorders of the larynx, clinical aspects of the voice disorders, speech and language disorders. <p>Practical course:</p> <ul style="list-style-type: none"> • Examination of the ear (inspection and otoscopy), clinical hearing tests, basic principles of audiometry, nystagmus classification and tests, • History and clinical examination of the nose, nasal endoscopy, special rhinologic tests, imaging of the nose and paranasal sinuses. • Methods of examining the pharynx, • Symptomatology and examination of larynx (inspection, palpation indirect and direct laryngoscopy) and trachea, imaging of the larynx and trachea, 			
12.	Methods of studying: Interactive lectures, group work, exercises, seminar paper			
13.	Total no. of hours:		90 hours	
14.	Distribution of the available time			
15.	Type of educational activity	15.1	Lectures-theoretical course	30 hours 15 hours seminars
		15.2	Practicals (laboratory, clinical), seminars, team work	45 hours
16.	Other types of activities	16.1	Project assignments	hours
		16.2	Individual tasks	hours
		16.3	Home studying	hours
17.	Assessment of knowledge: points			

17.1	Tests	min.-max.
	2 Continuous tests	
	• Otology and audiology	12-20
	• Nose, paranasal sinuses, Farynx,larynx	12-20
		Total 40 points
	Final exam	Subject: otorhinolaryngology
		min.-max.
		Practical exam 9-10 points
		Oral exam 21-35 points
17.2	Seminar work/project (presentation: written and oral)	min.-max.
	Seminar works	1-3 points
17.3	Active participation	min.-max.
	Theoretical course	points 1-5
	Practical course	points 4-7
18.	Knowledge assessment	up to 59 points
		5 (five) F

criteria: (points/grade)	60 to 68 points	6 (six) E
	69 to 76 points	7 (seven) D
	77 to 84 points	8 (eight) C
	85 to 92 points	9 (nine) B
	93 to 100 points	10 (ten) A
19.	Criteria for obtaining a signature and taking the final exam	C conditional criteria for assessment of knowledge: In order to get a signature for the course, students are requested to actively participate in the activities, including the continual assessment (the tests).
20.	Language of the course	Macedonian
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				
	Mandatory textbooks				
		Author	Title	Publisher	Year
22.1	1	Rudolf Probst ,Gerhard Grevers, Heinrich Iro	Basic otorhinolaryngo logy	Georg Thieme Verlag Stuttgard- New York,	2006
	7				
	Additional literature				
		Author	Title	Publisher	Year
22.2	1	K. J. Lee, M.D.	K.J.LEEs Essential otolaryngology head and neck surgery,	Tenth edition Copyright material by Mc-Grow Hill Companies,	2012