
		UNIVERSITY OF EAST SARAJEVO					
		Faculty of Medicine Foca					
		Study program: medicine					
		Integrated academic studies		VI study year			
Full subject title		Ophthalmology					
Department		Surgery department, Faculty of Medicine Foca					
Subject code		Subject status		Semester		ECTS	
ME-02-1-058-11		compulsory		XI		3	
Professor/-s		Prof. Nada Avram, MD, PhD					
Associate/-s							
Number of lectures/ teaching workload (per week)			Individual student workload (in hours per semester)			Coefficient of student workload S_0 ¹	
L	E	SP	L	E	SP	S_0	
2	2	0	2*15*0,5	2*15*0,5	0*15*0,5	0,5	
total teaching workload (in hours, per semester) $2*15 + 2*15 + 0*15 = 60$			total student workload (in hours, per semester) $2*15*0,5 + 2*15*0,5 + 0*15*1 = 30$				
Total subject workload (teaching + student): $60 + 30 = 90$ hours per semester							
Learning outcomes		The knowledge acquired during the course of Ophthalmology enables a medical doctor to:					
		1. Quickly and accurately diagnose emergency eye conditions and provide appropriate urgent care.					
		2. Timely identify eye injuries and administer proper first aid (especially chemical injuries).					
		3. Evert the eyelid and remove sub-tarsal foreign bodies.					
		4. Timely recognize anomalies in the eyes and ocular adnexa and refer such children to an ophthalmologist.					
		5. Timely recognize strabismus in young children and promptly refer them to an ophthalmologist.					
		6. Identify the need for wearing glasses in children and adults and refer them to an ophthalmologist.					
		7. Recognize and diagnose basic eye diseases, treat them independently, or participate in their treatment according to the ophthalmologist's recommendation.					
General competencies		Medical doctors acquire the following competencies:					
		1. Possess knowledge of specific diagnostic algorithms.					
		2. Capable of making appropriate therapeutic decisions.					
		3. Able to express themselves and communicate in a manner that is understandable and acceptable to the patient.					
		4. Willing to accept responsibility and make appropriate medical decisions.					
Preconditions		Requirement for taking the exam: passing all exams of the fifth year of the medical faculty					
Teaching methods		Oral lectures, clinical exercises and simulator exercises.					
Subject content per week		Program of lectures					
		1. Introduction to Ophthalmology. Preventable blindness.					
		2. Eyelids.					
		3. Lacrimal apparatus. Orbit.					
		4. Conjunctiva. Tear film, composition.					
		5. Cornea. Sclera.					
		6. Lens. Uveal tract.					
		7. Glaucoma.					
		8. Retina. Vitreous.					
		9. Retinal vascular disease.					
		10. Disorders of macula.					
		11. Ocular trauma. Emergency eye conditions (Ocular emergencies)					

¹The coefficient of student workload S_0 is calculated as it follows:

- a) for the study programs not going through the licensing process: $S_0 = (\text{total workload in semester for all of the subjects } 900 \text{ hrs} - \text{total teaching workload } L+E \text{ in semester for all of the subjects } 870 \text{ hrs}) / \text{total teaching workload } L+E \text{ in semester for all of the subjects } \text{ hrs} = \text{ }.$ Consult form content and its explanation.
- b) for the study programs going through the licensing process, it is necessary to use form content and its explanation.

	12. Refraction. Acomodation.				
	13. Binocular vision.Strabismus				
	14. Ocular and adnexal tumors.				
	15. Optic nerve. Neuroophthalmology.				
	Practical ophtalmology				
	1. Introduction on ocular examination. Basis of anamnesis in ophthalmology. Examination with a biomicroscope.				
	2. Examination of the eyelids, lacrimal apparatus and bulbs). Ocular surgery - video (operations of the eyelids, orbit, lacrimal apparatus).				
	3. Examination of the conjunctiva. Red eye. Characteristics of tear film.				
	4. Examination of the cornea. Corneal staining. Foreign body of the cornea and conjunctiva.				
	5. Examination of the anterior chamber, iris and pupil.				
	6. Pupil area. Red reflex. Lens and cataract.				
	7. Examination of the fundus (direct ophthalmoscopy). Ocular surgery - video II (cataract, glaucoma operations, keratoplasty, buckling)				
	8. Indirect ophthalmoscopy and basic pathological changes in the fundus.				
	9. Measurement of intraocular pressure. Testing visual fields.				
	10. Basic therapeutic procedures. Application of medications in ophthalmology.				
	11. Specialized ophthalmologic examinations (pachymetry, perimetry, amsler grid, color vision testing, gonioscopy, fluorecsein angiography, indocyanine green angiography, optical coherence tomography, heidelberg retinal tomography, electrophysiologic testing				
	12. Refractive anomalies. Correction of refractive anomalies. Autorefractometer.				
	13. Strabology (diagnostic, Hirschberg test, cover-uncover test, diplopia testing – red glass, duction and version examination)				
	14. Ocular emergencies.				
	15. Work in ophthalmology outpatient clinic.				
Compulsory literature					
Author/s		Publication title, Publisher	Year	Pages (from-to)	
Paul Riordan-Eva, Emmet T. Cunningham		Vaughan &Asbury's General Ophthalmology, 19 th Edition	2018.		
Additional literature					
Author/s		Publication title, Publisher	Year	Pages (from-to)	
Student responsibilities, types of student assessment and grading	Grading policy			Points	Percentage
	Pre-exam activities				
	lecture/exercise attendance			30	30%
	seminar paper			20	20%
	Final exam				
	practical			10	10%
	Wtitten test			40	40%
	TOTAL			100	100 %
Датум овјере	June 17th 2024				

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