

<i>Name of the course</i>	<b>Ophthalmology</b>			<b>Code</b>	
<i>Type of study program Cycle</i>	Integrated university study, medicine			<b>Year of study</b>	V
<i>Credits (ECTS) :</i>	<b>4</b>	<i>Semester</i>	X	Number of hours per semester (1+e+s)	70 (18+38+14)
<i>Status of the course:</i>	mandatory	<i>Preconditions:</i>	Passed all exams of the 4 <sup>th</sup> year	<i>Comparative conditions:</i>	
<i>Access to course:</i>	5 <sup>th</sup> year medical students			<i>Hours of instructions:</i>	According to schedule
<i>Course teacher:</i>	Assistant professor Antonio Sesar, MD, PhD				
<i>Consultations:</i>	Per agreement				
<i>E-mail address and phone number:</i>	<a href="mailto:antoniosesar@yahoo.com">antoniosesar@yahoo.com</a> / +38763345500				
<i>Associate teachers</i>	Professor Irena Sesar, MD, PhD Darija Jurišić, MD, PhD Anita Pušić Sesar, MD, MSc Ivka Čović, MD, MSc Kristina Kevilj, MD, MSc				
<i>Consultations:</i>					
<i>E-mail address and phone number:</i>					
<b><i>The aims of the course:</i></b>	The aims of this course are: getting acquainted with the structure and function of a healthy eye, recognizing basic eye disorders and diseases, getting acquainted with the basics of clinical examination and diagnosis, as well as the underlying principles of an eye as an organ.				
<b><i>Learning outcomes (general and specific competences):</i></b>	<p><u>General outcomes:</u></p> <ul style="list-style-type: none"> <li>Analyzing and remembering the symptoms of eye diseases.</li> <li>Evaluation and synthesis of adopted knowledge in ophthalmology in addition to previously acquired knowledge.</li> <li>Applying the ability to participate in interdisciplinary teams and applying the knowledge in clinical practice.</li> </ul> <p><u>Specific outcomes:</u></p> <ul style="list-style-type: none"> <li>Remembering the specifics of the ocular anamnesis.</li> <li>Applying a basic ophthalmologic examination.</li> <li>Remembering the type and degree of ocular pathology and diagnose of urgent ophthalmological conditions.</li> <li>Understanding and applying the basic and specific diagnostic tests as well as the possibilities of modern treatment of various ophthalmic diseases.</li> </ul>				

	<ul style="list-style-type: none"> <li>Analyzing the diagnostic tests and treatment possibilities in a reasoned manner.</li> </ul>			
<b>Course content (Syllabus):</b>	Class is consisted of 15 teaching units. Each unit consists of 1-3 hours of lectures, 1 hour of seminars with knowledge-testing and assessments and 2-4 hours of practice with assistants for the practical application of acquired knowledge through the examination of patients in the outpatient clinic.			
<b>Format of instruction (mark in bold)</b>	<b>Lectures</b>	<b>Exercises</b>	<b>Seminars</b>	Independent assignments
	Consultations	Work with mentor	Field work	Other
	Notes: Class from each unit begins with lectures. At seminars, students actively participate and critically discuss the thematic set for which they have to be prepared in advance. In the exercises students learn about the basics of ophthalmologic examination, analysis of symptoms and recognition of specific ocular pathology.			
<b>Student responsibilities</b>	Students are required to attend classes, it is allowed to miss 20% of class. They have to be prepared for an active participation in seminars. The prerequisite for the oral exam is a pre-passed written exam			
<b>Screening student work (mark in bold)</b>	<b>Class attendance</b>	<b>Class participations</b>	Seminar essay	Practical training
	<b>Oral exam</b>	<b>Written exam</b>	Continuous assessment	Essay
<b>Detailed evaluation within a European system of points</b>				
<b>STUDENTS RESPONSIBILITIES</b>	<b>HOURS</b>	<b>PROPORTIONS OF ECTS CREDITS</b>	<b>PROPORTION S OF MARK</b>	
Class attendance and participations		1	0%	
Written exam		1,5	50%	
Oral exam		1,5	50%	
<p>Additional clarifications:</p> <p>The exam consists of a written and oral part. Written exam consists of a total of 50 questions ("multiple choice"), and the grade is obtained in accordance with the current Study Regulations. Both parts of the exam form an equal share in the final grade (by 50%). In case that student passes a written exam and does not satisfy at the oral exam, the passed written part is admitted for the entire current academic year, and each student take the oral part of the</p>				

exam on each subsequent term. The list of oral exam questions is provided at the beginning of the course.

According to the Book of Rules, the final grade is obtained as follows:

A = 91-100% 5 (excellent)

B = 79 to 90% 4 (very good)

C = 67 to 78% 3 (good)

D = 55 to 66% 2 (sufficient)

F = 0 to 54% 1 (inadequate)

<b>Required literature:</b>	Mandic et al, Ophthalmology, Medicinska naklada, Zagreb, 2014.
<b>Optional literature:</b>	Bušić et al. Seminaria of Ophthalmologica, Cerovski, Osijek, 2011
<b>Additional information about the course</b>	Monitoring methods of teaching quality: <ul style="list-style-type: none"> <li>- student questionnaire</li> <li>- quality analysis by students and teachers</li> <li>- exam results analysis</li> <li>- report of the office for teaching quality</li> <li>- external evaluation (visit of team for quality control)</li> </ul>

Annexes: calendar classes

<b>The number of teaching units</b>	<b>TOPICS AND LITERATURE</b>
<b>I.</b>	Title: History, introduction to ophthalmology, anatomy, embryology and physiology of the eye.
	Short description: ophthalmological terminology, texture and function of the eye
	Literature: mandatory and supplementary
<b>II.</b>	Title: General symptomatology and clinical review in ophthalmology. Specifications in ophthalmology
	Short Description: Symptoms of eye disease, basics of vlinical examination, ophthalmology diagnosis
	Literature: mandatory and supplementary
<b>III.</b>	Title: Spine, coupler. Keratitis, conjunctivitis. Differential diagnosis of the red eye. Transplantation of the cornea
	Short Description: Material and function, corneal and connective tissue

	disorders, diagnosis and treatment, corneal transplantation Literature: mandatory and supplementary
<b>IV.</b>	Title: Heavy, suction machine. Dry eye, narrow eye. Brief Description: Material and function, eyelid and dehydral disorders, diagnosis and treatment Literature: mandatory and supplementary
<b>V.</b>	Title: Orbit. Orbital cellulitis. Dystroid ophthalmopathy. Short Description: The material and function, orbit diseases, diagnosis and treatment Literature: mandatory and supplementary
<b>VI.</b>	Title: Lens, cataract surgery. Short description: Lens composition and function, cataracts, cataract surgery Literature: mandatory and supplementary
<b>VII.</b>	Title: Eye refraction, refractive anomalies, refractive surgery. Contact lenses Short Description: Refractive basics, shortness, lateral vision, astigmatism, spectrometric and contact lens correction, refractive surgery Literature: mandatory and supplementary
<b>VIII.</b>	Title: Glaucoma. Treatment of glaucoma. Acute angular glaucoma. Short Description: Pathophysiology and glaucoma classification, specific diagnosis, medicaments, laser and surgery Literature: mandatory and supplementary
<b>IX.</b>	Title: Strabology, ophthalmology for children. Short description: types of strabismus, weakness and treatment, peculiarities of ocular pathology in children's age Literature: compulsory and supplementary
<b>X.</b>	Title: Retina 1 (vascular and degenerative diseases). Short Description: Vascular and degenerative rash diseases, retinal ablation, symptoms, diagnosis and treatment Literature: mandatory and supplementary
<b>XI.</b>	Title: Retina 2 (macula diseases), vitreous. Short description: macular diseases, symptoms, diagnosis and treatment, intravitreal drug use, vitreous disease Literature: mandatory and supplementary
<b>XII.</b>	Title: Uvea. Uveitis, endophthalmitis. Particularity of the immune reaction of the eye. Short Description: Material and function, uvea diseases, diagnosis and treatment Literature: mandatory and supplementary
<b>XIII.</b>	Title: Neuroophthalmology. Optical neuritis. Stopwatch. Short Description: Nervus ophthalmicus diseases, diagnosis and treatment, ocular manifestation of neurological disorders Literature: mandatory and supplementary
<b>XIV.</b>	Title: Eye injuries, emergency Situations in ophthalmology. Short description: open and closed eye injuries, procedure in emergency ophthalmologic conditions

	Literature: mandatory and supplementary
<b>XV.</b>	Title: Eye cancer.
	Short Description: Eyelid and joints, intrabulbaric tumors, orbital tumors, diagnosis and treatment
	Literature: mandatory and supplementary
<b>XVI.</b>	Title: Overview of ophthalmology surgery
	Short description: phacoemulsification, trabeculotomy, vitreoretinal surgery, ophthalmologic and reconstructive surgery, enucleation, evisceration, exertion, dakriocistorinostomy, strbismus surgery
	Literature: mandatory and supplementary
<b>XVII.</b>	Title: Pharmacotherapy in ophthalmology
	Short description: types of ophthalmic drugs, peculiarities of the method of application and ophthalmic drugs
	Literature: compulsory and supplementary