GENERAL INFORMATION		
Course name	**Ophthalmology**	
Course director	**Assoc. Prof. Josip Barać, MD, PhD**	
Assistants	Assoc. Prof. Dubravka Biuk, MD, PhD	
Study program	**Integrated undergraduate and graduate university study program Medical Studies in German**	
Course status	Mandatory	
Year of study, semester	5th year, 10th semester	
Credits allocated and form of instruction	ECTS student workload	**6**
	Number of teaching hours (L+S+E)	**60** (30+10+20)

COURSE DESCRIPTION

Course objectives

The aim of the course is to enable students to acquire knowledge related to the key principles of ophthalmology and treatment of eye disorders. Students will become familiar with the epidemiology, pathophysiology and clinical manifestations of eye diseases, as well as diagnostic and therapeutic procedures regarding certain diseases. A multidisciplinary approach to eye diseases, evidence-based medicine and problem-oriented ophthalmology will be emphasized.

Course requirements

There are no specific requirements for this course except those defined in the study program curriculum.

Learning outcomes at the Programme level

1.1., 1.2., 2.1., 2.2., 2.3., 3.1., 4.2.

Expected learning outcomes *(5-10 learning outcomes)*

Knowledge

1. Describe the basic anatomy of the eye and orbit
2. Explain the physiology of the eye
3. List and recognize emergency situations in ophthalmology and eye injuries
4. Classify conjunctival and corneal inflammations
5. Recognize lens diseases
6. Distinguish retinal vascular diseases
7. Group tumors of the eye and ocular adnexa
8. List the types of glaucoma
9. Differentiate individual forms of retinopathy

Skills

1. Perform a basic visual acuity test
2. Conduct eye inspection and palpation, twist the eyelid, rinse the tear duct under supervision
3. Conduct an eye examination in focal lighting and using a biomicroscope with a slit lamp; Apply eye drops and ointments
4. Perform direct ophthalmoscopy and list methods of retinal ablation surgery
5. Under supervision, measure the eye pressure using Goldmann applanation tonometry; Take a digital measurement of the eye pressure
6. Examine the field of vision using the confrontation method and conduct an examination of the pupil (direct and indirect reaction)

7. Examine the ocular motility, perform the Cover-uncover test and list the surgical procedures for strabismus surgery

Course content

Definition of ophthalmology, classification of ophthalmology into subspecialties, diagnostic and therapeutic procedures in ophthalmology, brief history of ophthalmology, anatomy, embryology, general and special pathology. Diseases of the orbit, eyelids, lacrimal apparatus, conjunctiva, cornea and sclera, middle layer of the eye, retina, lens and vitreous, glaucoma, neuro-ophthalmology, eye refraction, strabismus, orthoptics and pleoptics, injuries.

Form of instruction	☒lectures ☒seminars and workshops ☒exercises ☐distance learning ☐field course	☐individual assignments ☐multimedia and Internet ☐laboratory ☐mentoring activities ☐other

Student obligations

Come to class prepared by studying the recommended literature for each unit and actively participate in all forms of instruction. The student must participate in at least 70% of classes to pass the course.

Monitoring student learning

Attendance	x	Active participation	x	Seminar paper		Experimental work	
Written exam	x	Oral exam	x	Essay		Research	
Project		Continuous assessment		Paper		Practical work	x
Portfolio							

Assessment and evaluation of students during class and on the final exam

Students' performance will be evaluated during class and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During classes, a student can earn a maximum of 100 points. Students can earn a maximum of 20 points during classes through different types of activities. On the final exam, students can earn a maximum of 80 points. The final grade represents the sum of the points earned during classes and on the final exam.

Mandatory reading

1. Kanski JJ. Klinische Ophthalmologie: Lehrbuch und Atlas. Urban & Fischer: 2008

Additional reading

1. Sachsenweger M, Klauß V, Nasemann J, Ugi I. Duale Reihe Augenheilkunde. Thieme: 2002

The number of copies of mandatory reading in proportion to the number of students currently taking this course

Title	*Number of copies*	*Number of students*
Kanski JJ. Klinische Ophthalmologie: Lehrbuch und Atlas. Urban & Fischer: 2008	A purchased license for online textbooks shall be used https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3faboId%3d264117 Access will be granted to all students enrolled in the study program	

Quality monitoring methods ensuring the acquisition of knowledge upon completion, skills and competences

The quality of course performance is monitored through an anonymous student survey on the quality of the organization and conduction of classes, the course content and the work of professors. The usefulness of the lectures from the students' perspective, the curriculum content, the professor preparedness, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. The curriculum and its execution are administratively compared. The participation of students in lectures and exercises, as well as the excuses for missing classes, are controlled and analyzed.