



Ophthalmology

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full-time program
Type of module/ course	Obligatory
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	Katedra i Klinika Okulistyki Warszawskiego Uniwersytetu Medycznego ul. Lindleya 4, 02-005 Warszawa, tel.: 22 5021554 e-mail: okulistyka@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	prof. Dariusz Kęcik MD, PhD
Course coordinator	prof. Dariusz Kęcik MD, PhD; okulistyka@wum.edu.pl
Person responsible for syllabus	Piotr Maciejewicz MD, PhD; piotr.maciejewicz@wum.edu.pl
Teachers	prof. Dariusz Kęcik MD, PhD; okulistyka@wum.edu.pl Joanna Brydak-Godowska MD, PhD; joanna.brydak-godowska@wum.edu.pl Dorota Kopacz MD, PhD; dorota.kopacz@wum.edu.pl Agnieszka Lach MD; agnieszka.lach@wum.edu.pl Piotr Maciejewicz MD, PhD; piotr.maciejewicz@wum.edu.pl Iwona Świtka-Więclawska MD, PhD; iwona.switka-wieclawska@wum.edu.pl

2. BASIC INFORMATION			
Year and semester of studies	IIIrd year, V semester	Number of ECTS credits	1
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		6	0,2
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		9	0,4
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		10	0,4

3. COURSE OBJECTIVES	
O1	To understand steps of ophthalmological examination and possibility of refraction correction
O2	To know pathophysiology, symptoms and eye disease treatment.
O3	To know rules of the eye trauma diagnosis and treatment

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING	
Code and number of effect of learning in accordance with standards of learning	Effects in time
Knowledge – Graduate* knows and understands:	
E.W13.	principles of diagnostics of eye diseases, including eye injuries;
E.W14.	the role of focal infections in eye diseases;
E.W20.	conditions, when the patient should be referred to hospital;

C.W4.	species of bacteria, viruses and fungi which are the most common etiological factors of infections;
Skills– Graduate* is able to:	
D.U10.	work in a multidisciplinary team, in a multicultural and multinational environment;;
E.U4.	interpret the results of laboratory tests
E.U19.	discuss and diagnose selected diseases of the optical and protective system of the eye;
F.U6.	interpret the results of additional tests and consultations;

5. ADDITIONAL EFFECTS OF LEARNING	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	-
Skills– Graduate is able to:	
S1	-
Social Competencies – Graduate is ready for:	
SC1	-

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminar	S1 – Seminar 1 -Anatomy and physiology of the eye. Discussion of the elements of the protective apparatus of the eye, the bone structure of the orbit, the structure of the eyeball and the operation of the oculomotor muscles	E.W13.
	S2- Seminar 2 - Refraction of the eye Overview of the types of refractive errors of the eye: myopia, hyperopia and astigmatism, and refractive surgery of the cornea	E.U19.,E.W13.
	S3- Seminar 3 -Selected ocular disorders and their pathogenesis Discussion of the pathophysiology, symptoms and treatment options for macular degeneration of the retina, retinal detachment and glaucomatous neuropathy	E.W14., C.W4.
	S4- Seminar 4 -Ophthalmological emergency Discussion of ophthalmic conditions requiring urgent medical	E.W14.

	attention, sudden vision loss, sudden deterioration of visual acuity, strabismus, double vision, "flashes" in front of the eye, iris in the field of vision	
	S5-Seminar 5 - Pharmacology in relation to eye Discussion of groups of drugs used in the treatment of eye diseases, possible side effects and interactions with general therapy	E.U4.
	S6-Seminar 6 -Lasers In ophthalmology Discussion of the basics of the impact of laser radiation on tissues, safety rules for working with laser devices, the possibility of using laser therapy in the diagnosis and treatment of eye diseases	E.W20.
Practicalclasse	PC1-Steps of ophthalmological examination Ophthalmological history, assessment of the eye protection apparatus, examination of the anterior segment of the eye in a slit lamp	E.W13.,E.W20.,C.W4.,E.U4.
	PC2-Refractive errors and method of correction Optotypes, visual acuity testing for distance and near vision, selection of spectacle correction, rules for applying contact lenses	E.U19.
	PC3-Intraocular pressure Contact and non-contact methods of intraocular pressure measurement, pachymetry, correct values of intraocular pressure. Symptoms and treatment of acuteangleclosure	E.W13.
	PC4-Visual field Kinetic and static method of visual field testing. Examples of changes depending on the location of damage to the visual pathway	F.U6.
	PC5-First aid In the ocular trauma Technique and principles of first aid after eye injuries and burns, lifting the upper eyelid, rinsing the conjunctival sac	E.W13.
	PC6-Strabismus An indicative and precise examination of eye mobility and double vision. Stereoscopicvisiontests	E.W20.
	PC7-Dry eye syndrome Evaluation of tear secretion, tear film layer tests. Symptoms and possible treatment of dry eye syndrome	C.W4., E.U4.
	PC8-Ocular involvement in systemic disease and Interdisciplinary cases Methods of assessing symptoms and pathological changes in the eyes associated with the coexistence of general diseases such as diabetes, hypertension and rheumatic diseases	F.U6. D.U10.

7. LITERATURE
Obligatory
Materials from the seminars
Supplementary
J.J. Kanski: Clinical ophthalmology – selected problems

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
E.W13., E.W14., E.W20., E.U19., D.U10., F.U6., C.W4. E.U4.	Presence and activity during the course Written test on the last day of course – 40 single-choice questions. Revision credit in oral form in the Department of Ophthalmology at a date to be confirmed with the Department Secretariat.	Form of receiving credit in a subject. Grades: 2.0 (failed)<21points 3.0 (satisfactory) 21-25 3.5 (rather good)26-30 4.0 (good) 31-34 4.5 (more than good)35-37 5.0 (very good) 38-40

9. ADDITIONAL INFORMATION
Course time: 7.45 am – 10.00 am Classes are held in Ophthalmology Clinic, Lindleya street 4, pavilion 5. Warsaw. Presence on all lectures is mandatory. In case of absence student should contact withdr Piotr Maciejewicz email: piotr.maciejewicz@wum.edu.pl tel: 22 5021554

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ATTENTION The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers
