



**48SJ-OPHT**  
**ECTS: 3**  
**YEAR: 2023Z**

**OPHTHALMOLOGY**  
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**COURSE CONTENT**  
**CLASSES**

Ophthalmology classes (practical clinical exercises). 1. Cataract: medical history taking, diagnostics (autorefractometry, non-contact tonometry, specular microscopy, slit lamp examination, supervised intraocular lens calculation, assist in USG of an eyeball), cataract surgery observation, taken part in a planning of cataract patients' treatment. 2. Glaucoma: medical history taking, diagnostics (non-contact tonometry, assist in: applanation tonometry, gonioscopy, visual field testing, glaucoma OCT), discussion about patients' treatment, assist in glaucoma surgeries: trabeculectomy, goniosynechiolysis, laser iridotomy. 3. Uveal tract inflammation: medical history, diagnostics (slit lamp examination to assess symptoms in anterior, intermediate and posterior part uveitis, intraocular pressure examination, assist in USG of the eyeball), assist in a process of additional tests planning, assist in conservative and surgical treatment, assist in planning of additional consultations. 4. Vascular disorders of the retina: A. retinal artery occlusion. B. retinal venous occlusion. C. diabetic retinopathy. D. hypertension retinopathy. Medical history, diagnostics (slit lamp examination, tonometry, assist in fundoscopy, assist in fluorescein angiography, OCT of the retina, fundus colour photography) 5. Retinal detachment and pars plana (posterior) vitrectomy: symptoms of retinal detachment, diagnostics of retinal detachment: indirect ophthalmoscopy, assistance in fundoscopy with tree-mirror Goldman lens, assist in USG of the eyeball examination, assist in planning of therapeutic procedures (laser therapy, pneumoretinopexy, scleral buckling surgery, assist in posterior vitrectomy) 6. First aid in ophthalmology: medical history in emergency patient, assist in examination of the injured eye (visual acuity, tonometry, examination of the eye adnexa, bone structure palpation, eye movement examination, exophthalmos examination, slit lamp examination, ophthalmological USG, OCT of the retina, fluorescein angiography, CT and MRI scans of the sockets and the head. Main concern on: foreign body of the ocular surface and practical skill of first aid with an upper eyelid everting and foreign body remove, chemical injuries of the eye with practical skills in eye surface flushing, acute angle closure: diagnostic and differentiation with iridocyclitis; sudden painless lost of vision (therapeutic window- 4 hours, risk factors of stroke and treatment with thrombolysis). 7. Direct ophthalmoscopy and assessment of normal and oedematous optic disc. 8. Anatomy and physiology of organ of vision - written entry test. 9. Clinical case of chosen ophthalmological disease. 10. Students' questions.

**LECTURES**

1. Basics in ophthalmology 2. Diagnostic in ophthalmology 3. Main ophthalmic operations 4. Basic eye diseases

**EDUCATIONAL OBJECTIVE:**

The ability of recognition and treatment of common eye diseases. The knowledge of diagnostic procedures used in ophthalmology. The ophthalmic knowledge necessary in each medical faculty

**DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES**

Codes of learning outcomes in a major field of study: M/NM+++ , M/NMA\_P7S\_UW+,

Codes of learning outcomes in a major area of study: D.U6.+ , F.U19.+ , F.U20.+ , F.W11.+ , K.1.+ , K.2.+ , K.3.+ , K.4.+ , K.5+ , K.6.+ , K.7.+ , KA7\_UU3+,

**LEARNING OUTCOMES:**

**Knowledge**

W1 - The ability of recognition and treatment of common eye diseases. The knowledge of diagnostic procedures used in ophthalmology. The ophthalmic knowledge necessary in each medical faculty.

**Skills**

U1 - Basics ophthalmic skills in each physician work.

**Social competence**

K1 - Student- patient, physician- patient social relationships.

**BASIC LITERATURE**

1) G. Lang, Ophthalmology. A pocket textbook atlas. 3rd edition, rev. and enl., wyd. Thieme, 2016

**SUPPLEMENTARY LITERATURE**

1) M. Batterbury, B. Bowling, C. Murphy., Ophthalmology : an illustrated colour text. 3rd edition., wyd. Elsevier Churchill Livingstone, 2009 ; 2) J. Olver, L. Cassidy, G. Jutley, L. Crawley., Ophthalmology at a glance.2nd edition., wyd. Willey Blackwell., 2014 ; 3) A. T. Gerstenblith, M. P. Rabinowitz, The Wills eye manual: office and emergency room diagnosis and treatment of eye disease., wyd. Lippincott Williams & Wilkins, 2012

**Course/module:**

Ophthalmology

**Fields of education:**

**Course status:** mandatory  
**Course group:** B - przedmioty kierunkowe

**ECTS code:**

**Field of study:** Medicine

**Specialty area:** Medicine

**Educational profile:** General academic

**Form of study:** full-time

**Level of study:** uniform master's studies

**Year/semester:** 4 / 7

**Type of course:**

Classes, Seminar, Lecture

**Number of hours per semester/week:** Classes: 40, Seminar: 5, Lecture: 15

**Teaching forms and methods**

Classes(K1, U1, W1) : 1. Practic use of theoretic knowlegde in ophthalmic ward: work with ophthalmic patients- from medical history till diagnosis and treatment. 2. Ophthalmic first aid (physical and chemical injuries). 3. Direct ophthalmoscopy with identification of optic disc and big vessels of the retina. Red reflex disturbances. 4. Explanation of student's opththalmic knowledge troubles, Seminar(K1, W1) : Additional presentation of theoretical ophthalmic knowledge with students' interaction, Lecture(K1, W1) : Professor's oral basic ophthalmic presentation Final test- at the last lecture

**Form and terms of the verification results:**

CLASSES: Oral test - 1. Entry test on ophthalmic anatomy at first class (each student can score: 0-5 points) 2. Chosen ophthalmic case oral presentation- at the last class (each student can score: 0-5 points) 3. Ability of recognition of basic ophthalmic cases. 4. Ability of ophthalmic first aid. 5. Direct ophthalmoscopy with optic disc, big vessels and red flex disturbances identification(K1, U1, W1) ; SEMINAR: Oral test - 1. Oral answer for presenter's questions. 2. Each student prepares presentation on previously given topic (student can score: 0-10 points) .(K1, U1, W1) ; LECTURE: Written exam - Final multiple choice written test (80 questions)- minimal score required for the test pass- 70% of correct answers. Test fails without 70% points of correct answers- repeat required of final written test . Required all opththalmic knowledge. Place and time: last lecture. The final note is compound of: written final test score (max. 80% of final note)+ seminar score (max. 10% of final note)+ classes score (max. 5% of entry test+ max. 5% of final case presentation)(W1)

**Number of ECTS points:** 3

**Language of instruction:** English

**Introductory courses:**

human anatomy and physiology, neurology, internal medicine, general surgery, pharmacology

**Preliminary requirements:**

anatomy and physiology of human vision system- precolloquium (first day of classes):

anatomy and physiology of vision system

**Name of the organizational unit offering the course:**

Katedra Okulistyki,

**Person in charge of the course:**

dr n. med. Janusz Pieczyński,

**Course coordinators:**

**Notes:**

## Detailed description of the awarded ECTS points - part B

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### **OPHTHALMOLOGY** **OPHTHALMOLOGY**

The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	40 h.
- participation in: seminar	5 h.
- participation in: lecture	15 h.
- consultation	5 h.
	65 h.

2. Student's independent work:

- ophthalmic theoretical knowledge based on basic and recommended books and articles.	10 h.
	10 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 75 h : 25 h/ECTS = 3,00 ECTS  
on average: **3 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	2,60 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	0,40 ECTS points,