DESCRIPTION OF THE COURSE OF STUDY

Course code	**0912-7LEK-C6.10-O**	
Name of the course in	Polish	**Okulistyka**
	English	**Ophthalmology**

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Medicine
1.2. Mode of study	Full-time
1.3. Level of study	Uniform Master's studies
1.4. Profile of study*	General academic
1.5. Person preparing the course description	
1.6. Contact	

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	**English**
2.2. Prerequisites*	Anatomy, physiology

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes		Lectures: 15 h Classes: 15 hours Practical classes: 15 hours (including 3 hours of
3.2. Place of classes		Lecture – course in the didactic classes at JKU (e-learning) Classes and practical classes Department of Ophthalmology WSZ Kielce
3.3. Form of assessment		Lecture – Exam; Classes and practical classes – Credit with grade
3.4. Teaching methods		seminar lecture, discussion, case study in natural conditions
3.5. Bibliography	**Required reading**	1.C.A Bradford- Okulistyka,Podręcznik dla studentów,Urban-Partner,Wrocław 2006 2.M.H.Niżankowska- Okulistyka,podstawy kliniczne, PZWL Warszawa 2007
	Further reading	

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1 Course objectives (including form of classes)

Goals of objective:

C1.Introduce students to anatomy, physiology, and pathophysiology of the visual system
C2.Presentation of the most important diagnostic methods of the visual system
C3.Introduce students to the diseases of the visual system including neuropthalmology

Classes/Practical classes:

C4.Presentation of the ophthalmic condictions associated with general diseases (i.e. diabetes mellitus, Lyme disease) requiring interdisciplinary therapy
C.5.Providing knowledge about conservative treatment, surgical treatment and laser therapy
C6.Providing knowledge about management of eye injuries

4.1 Detailed syllabus (including form of classes)

Lectures:

1.Anatomy,physiology and pathophysiology of the visual system
2.Errors of refraction
3.Orbital diseases, diseases of the protective system of the eye, diseases of the lacrimal gland
4.Conjunctival diseases, corneal diseases, sclera diseases
5.Uvea diseases
6.Glaucoma
7.Lens diseases
8.Retinal diseases (retinal detachment, vascular diseases, degenerative diseases)
9.Strabismus and neurophthalmology
10.Diagnostic methods in ophthalmology, including imaging tests (OCT,HRT,USG,AF)
11.Systemic and local ophthalmic treatment. Conservative and surgical treatment.
12.Injuries of the visual system. Emergency ophthalmic first aid.

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4.1. Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
	within the scope of **KNOWLEDGE:**	
W01	knows eligibility rules as well as basic and most common complications of surgery and other invasive diagnostic and treatment procedures;	F.W3.
W02	knows postoperative treatment and analgesic therapy as well as post-operative monitoring;	F.W5.
W03	knows the issues concerning modern imaging tests, in particular: a) basic radiological symptomatology of diseases, b) instrumental methods and imaging techniques used to perform medical treatments, c) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents;	F.W10.
W04	knows eye diseases, in particular: a) knows and explains the causes, symptoms, principles of diagnosis and therapeutic management of the most common ophthalmic diseases, b) knows ophthalmic complications of systemic diseases with their ophthalmological symptomatology and proper procedures in these cases, c) knows surgical treatment in the diseases of the eye, d) knows the basic groups of drugs used in ophthalmology, their side effects and interactions, e) knows groups drugs used in general, with associated complications and ophthalmic contraindications and explain their mechanism;	F.W11.
	within the scope of **ABILITIES:**	
U01	assesses patient's general condition, consciousness and awarenes;	E.U7.
U02	performs differential diagnosis of the most common diseases in adults and children;	E.U12.
U03	assesses and describes the somatic and mental state of patients;	E.U13.
U04	recognizes states of a direct threat to life;	E.U14.
U05	plans diagnostic, therapeutic and preventive procedures;	E.U16.
U06	conducts analysis of the potential side effects of each drug and the interaction between them;	E.U17.
U07	qualifies the patient for home treatment and hospitalization;	E.U20.
U08	defines states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease;	E.U21.
U09	interprets laboratory tests/results and identifies the reasons for deviations;	E.U24.
U10	plans specialist consultations;	E.U32.
U11	assists during a typical surgery, prepares the surgical site and locally anesthetizes operated area;	F.U1.
U12	complies with the aseptic and antiseptic rules;	F.U3.
U13	manages simple wounds and changes sterile surgical dressing	F.U4.
U14	performs ophthalmologic screening;	F.U19.
U15	recognizes ophthalmic conditions that require immediate medical specialist support and provides initial, qualified assistance in cases of injury to the physical and chemical properties of the eye;	F.U20.

4.4. Methods of assessment of the intended learning outcomes																					
Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study *			Group work*			Others*		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...
W01	+																				
W02	+																				
W03	+																				
W04	+																				
U01												+									
U02												+									
U03												+									
U04											+										
U05											+										
U06												+									
U07												+									
U08												+									
U09											+										
U10												+									
U11												+									
U12												+									
U13												+									
U14												+									
U15												+									

**delete as appropriate*

4.5. Criteria of assessment of the intended learning outcomes		
Form of classes	**Grade**	**Criterion of assessment**
lecture (L)	3	61-68% Mastering the content of the curriculum at the basic level, chaotic answers, necessary leading questions
	3,5	69-76% Mastering the content of the curriculum at the basic level, systematized answers, requires the teacher's help.
	4	77-84% Mastering the content of the curriculum at the basic level, systematic and independent answers. Problem solving in typical situations.
	4,5	85-92% The scope of the presented knowledge goes beyond the basic level based on the supplementary literature provided.
	5	93-100% The scope of the presented knowledge goes beyond the basic level based on self-acquired scientific sources of information.
classes (C)*/ practical classes	3	Mastering the content of the curriculum at the basic level, chaotic answers, necessary leading questions
	3,5	Mastering the content of the curriculum at the basic level, systematized answers, requires the teacher's help.
	4	Mastering the content of the curriculum at the basic level, systematic and independent answers. Problem solving in typical situations
	4,5	The scope of the presented knowledge goes beyond the basic level based on the supplementary literature provided.
	5	The scope of the presented knowledge goes beyond the basic level based on self-acquired scientific sources of information.

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

Category	**Student's workload**
	Full-time studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	***40***
*Participation in lectures**	15
*Participation in classes, seminars, laboratories**	25
*Preparation in the exam/ final test**	
*Others**	
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	***10***
*Preparation for the lecture**	10
*Preparation for the classes, seminars, laboratories**	
*Preparation for the exam/test**	
*Gathering materials for the project/Internet query**	
Preparation of multimedia presentation	
*Others (please specify e.g. e-learning)**	
TOTAL NUMBER OF HOURS	***50***
ECTS credits for the course of study	**2**

Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)

27.01.2021 Magdalena Kaj