

Subject name Ophthalmology	ECTS Code																
Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE																	
Studies <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 25%;">Field of study</th> <th style="width: 25%;">degree</th> <th style="width: 25%;">mode</th> <th style="width: 25%;">major</th> <th style="width: 20%;">specialization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">medical</td> <td style="text-align: center;">Uniform Master's</td> <td style="text-align: center;">Stationary/non-stationary</td> <td></td> <td></td> </tr> </tbody> </table>		Field of study	degree	mode	major	specialization	medical	Uniform Master's	Stationary/non-stationary								
Field of study	degree	mode	major	specialization													
medical	Uniform Master's	Stationary/non-stationary															
Surname of instructor (instructors)																	
Type of class, method of implementation and specified number of hours	Amount of ECTS points																
A.Type of class <ul style="list-style-type: none"> • lecture, • exercise classes, • clinical exercise classes • seminars, • design classes • laboratories, • lectureship, • diploma seminar, • professional internship.* <p>* mark where applicable</p>	Description of awarding ECTS points: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 70%;">Activity</th> <th style="width: 30%;">Student workload</th> </tr> </thead> <tbody> <tr> <td>Participation in lectures</td> <td style="text-align: center;">15 hours</td> </tr> <tr> <td>Participation in practical classes</td> <td style="text-align: center;">40 hours</td> </tr> <tr> <td>Preparation for practical classes and colloquiums</td> <td style="text-align: center;">10 hours</td> </tr> <tr> <td>Examination preparation</td> <td style="text-align: center;">15 hours</td> </tr> <tr> <td>Consultations</td> <td style="text-align: center;">10 hours</td> </tr> <tr> <td>Total number of hours</td> <td style="text-align: center;">90 hours / 30</td> </tr> <tr> <td>Amount of ECTS points per module</td> <td style="text-align: center;">3ETCS</td> </tr> </tbody> </table>	Activity	Student workload	Participation in lectures	15 hours	Participation in practical classes	40 hours	Preparation for practical classes and colloquiums	10 hours	Examination preparation	15 hours	Consultations	10 hours	Total number of hours	90 hours / 30	Amount of ECTS points per module	3ETCS
Activity		Student workload															
Participation in lectures		15 hours															
Participation in practical classes	40 hours																
Preparation for practical classes and colloquiums	10 hours																
Examination preparation	15 hours																
Consultations	10 hours																
Total number of hours	90 hours / 30																
Amount of ECTS points per module	3ETCS																
B.Method of implementation <ul style="list-style-type: none"> • classes in a didactic room • on-line classes/<i>blended learning</i> • classes outside the didactic room (clinical classes) 																	
C. Amount of hours in accordance with the approved curriculum 15 hours of lectures 40h hours of clinical classes																	
Didactic cycle Semester 07																	
Subject status <ul style="list-style-type: none"> • mandatory / facultative 	Language of instruction Polish																
Didactic methods <ul style="list-style-type: none"> • Lectures with slides and presentations of clinical cases • Informative and problem-focused lectures • Problem-focused teaching (Clinical case analysis) • Didactic discussion 	Forms and methods of passing and general grading criteria or examination requirements <hr style="border-top: 1px dashed black;"/> A. Method of passing <ul style="list-style-type: none"> • examination • passing with a grade* <p>* mark where applicable</p>																

B. Forms of passing:

- written examination: test / with open questions (exercises)/longer written statement
 - **oral-practical assessment**
 - **oral test/colloquium**
 - completion of a semester assignment: preparation of a design or presentation/conducting research and presenting its results(written/oral)/completion of a specified practical work
 - **agreeing on a passing grade based on partial grades received during the course of the semester***
- * mark where applicable

C. Basic grading criteria

Evaluating participation in exercise classes, evaluating preparation for classes, constant observation, partial credit, oral, written, receiving credit for practical classes, oral examination

Definition of preparatory subjects and initial requirements

A. Formal requirements: familiarity with material from the following subjects: physiology, anatomy, interpersonal communications, psychology, sociology, previous clinical subjects

B. Initial requirements: familiarity with the knowledge, abilities and competencies specified for the above-mentioned subjects is required

Subject aim

- C1. Familiarizing the students with principles of diagnosis and treatment in sudden ophthalmological conditions
- C2. Familiarizing the students with principles of treatment in case of an eye injury, burns, sudden blindness
- C3. Familiarizing the students with principles and specificity of ophthalmological procedures
- C4. Familiarizing the students with aspects of pre- and postoperative prophylaxis

Curriculum**A. Lecture content : 5 lectures 3 h each = 15h**

1. Anatomy of the eye with particular emphasis on the topographic conditions of the cranio-facial skeleton
2. Eye refraction system
3. Diagnostic methods in ophthalmology
4. Role of focal infections in eye disease
5. Ophthalmological symptoms in systemic diseases
6. Diagnostic methods of the most common focal diseases
7. Review of the collaboration between an ophthalmologist and a cranio-facial skeleton surgeon in case of a patient with orbital injuries

B. Content of clinical exercise classes: 40h (block classes)

1. Vision acuity testing, autorefractometry, examining the anterior and posterior segments of the eye
2. Diagnosis and treatment in sudden ophthalmologic conditions
3. Principles of ophthalmological first aid in cases of injuries, foreign objects, burns to the eye surface
4. Examination of the placement and mobility of the eyeball as well as methods of measuring exophthalmos
5. Examining the anterior segment of the eye, eyelid eversion, diagnostic coloring of the cornea
6. First aid kits in sudden ophthalmological conditions
7. Conjunctivitis
8. Examining the anterior and posterior segments of the eye
9. Interpretation of the results of additional examinations in focal diseases
10. Ophthalmological examination and presenting selected cases of patients of Ophthalmic Clinic, Ophthalmology Ward, and Admission Room.

Literature					
<p>A. Literature required to receive a final credit for classes (pass an exam): Okulistyka Vaughana i Asbury'ego, Scientific edition of the Polish edition: Edward Wylęgała. Wydawnictwo Czelej 2012 Edward Wylęgała, Mariola Bartusek. Zabiegi pielęgnacyjno-lecznicze w okulistyce. Katowice 2008 Maria Hanna Nizankowska. Okulistyka – podstawy kliniczne -, PZWL. 2007</p> <p>B. Supplementary literature J. Kański. Okulistyka kliniczna Wrocław 2009</p>					
Educational effects:					
Effect no	Description of an educational effect	Reference to field of study related effects	Reference to areas of effects		
Knowledge:					
W1	Knows the principles of qualifying the patient for basic operative and invasive diagnostic and treatment procedures, the principles of performing them and the most common complications	F.W3	M2P_W3		
W2	Knows the principles of perioperative safety, preparing the patient for surgery, performing general and local anesthesia and controlled sedation	F.W4	M2P_W4		
W3	Knows eye diseases, especially: <ul style="list-style-type: none"> a) knows and explains the causes, symptoms, principles of diagnosis and therapeutic treatment of the most common ophthalmological diseases, b) knows ophthalmological complications of systemic diseases along with the ophthalmologic symptomatology as well as the appropriate methods of behavior in such cases, c) knows surgical treatment of specific eye diseases, d) knows the basic groups of medications used in ophthalmology, their harmful side effects and interactions, e) knows groups of generally used medications, with which ophthalmological complications and contraindications are associated and explains their mechanisms 	F.W11	M2P_W11		
Abilities:					
U1	Assists with typical operative surgical procedures, prepares the operating field and applies general and local anesthesia to the area being operated	F.U1	M2P_U1		
U2	Can use basic surgical instruments	F.U2	M2P_U2		
U3	Follows the principles of asepticism and antisepticism	F.U3	M2P_U3		
U4	Treats a simple wound, puts on and changes a sterile surgical bandage	F.U4	M2P_U4		
U5	Conducts an ophthalmological screening	F.U19	M2P_U19		
U6	Diagnoses ophthalmological conditions requiring immediate specialized help and provides initial qualified help in case of physical and chemical eye injuries	F.U20	M2P_U20		
Methods used in the verification of educational effects					
Educational effect	Type of grade				
	colloquiums	Solving problems during exercise classes	Solving problems in groups	Oral-practical examination	Written examination
W1	X	x			
W2	X	X			

W3	X	X			
U1	X	X		X	
U2	X	X		X	
U3	X	X		X	
U4	X	X		X	
U5	X	X		X	
U6	X	X		X	

Criteria of evaluating educational effects					
Educational effect	For a grade of 3	For a grade of 3.5	For a grade of 4	For a grade of 4.5	For a grade of 5
W1	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U1	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U2	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U3	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U4	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U5	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%

U6	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
-----------	---	---	---	---	--