



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Ophthalmology	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	year 4, semester I and II
ECTS credits (incl. semester breakdown)	4
Type/s of training	lectures (4h) /seminars (16h)/practical (36 h)
Form of assessment*	<input type="checkbox"/> graded assessment: <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input checked="" type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input checked="" type="checkbox"/> oral
Head of the Department/ Clinic, Unit	I Chair and Clinic of Ophthalmology prof. Anna Machalińska MD PhD FEBO II Chair and Clinic of Ophthalmology prof. Wojciech Lubiński MD PhD FEBO
Tutor responsible for the module	Prof. Monika Modrzejewska MD PhD
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarski/II-katedra-i-klinika-okulistyki
Language	English

* replace into where applicable

Detailed information

Module objectives		<ol style="list-style-type: none"> To understand steps of ophthalmological examination To understand possibility of refraction correction. To know basic diagnostic procedures in ophthalmology To know pathophysiology, symptoms and eye disease treatment. To know rules of the eye trauma diagnosis and treatment. Practical knowledge: instillation of the drops, reversion of the eyelids
Prerequisite /essential requirements	Knowledge	Student has general knowledge of visual system anatomy and physiology
	Skills	Student know how to take medical history and interpret acquired information
	Competences	Student understands and complies with patient's rights i.e. right to protect personal data, rights of privacy, right of information on health state, right to express conscious consent to treatment. Has ability to create respectful relationship with patient caring for his/her wealth and dignity.

Description of the learning outcomes for the subject /module

No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W1	They know the rules of eye disorders and trauma	K_F. W11, K_F.U20	E
W2	They know the importance of periocular infections	K_F. W11	E
W3	They know the most common bacterial, viral and fungal pathogens in ophthalmology	K_F. W11	E
W4	They know when they should send the patient to the hospital	K_F.U20, K_K17	E
U1	They are able to describe and diagnose some of the eye optic and adnexal system diseases and plan treatment	K_F. W11, K_F.U19	S
U2	They are able to comment on additional diagnostic tests and investigations	K_F.U19, K_F.U20	S
U3	They are able to comment on the results of laboratory investigations	K_F.U19, K_F.U20	S
K1	They are prepared to work with other consultants in multiculture environment	K_K04, K_K18	S

Table presenting LEARNING OUTCOMES in relation to the form of classes

	Learning outcomes	Type of training
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No. of learning outcome		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other ...
W1	They know the rules of eye disorders and trauma		X					
W2	They know the importance of periocular infections		X					
W3	They know the most common bacterial, viral and fungal pathogens in ophthalmology		X					
W4	They know when they should send the patient to the hospital		X					
U1	They are able to describe and diagnose some of the eye optic and adnexal system diseases and plan treatment				X			
U2	They are able to comment on additional diagnostic tests and investigations				X			
U3	They are able to comment on the results of laboratory investigations				X			
K1	They are prepared to work with other consultants in multiculture environment				X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	Anatomy and Physiology of eye, Optics, Refraction.	2	W1, U1, U2, U3
TK02	Orbit, Tumors	2	W1, W2, W3, W4, U1, U2, U3
Seminars			
TK01	Retina part I	2	W1, W3, W4, U1, U2, U3, K1
TK02	Retina part II	2	W1, W3, W4, U1, U2, U3, K1
TK03	Disease of Sclera, eyelid, conjunctiva, cornea	2	W1, W2, W3, W4, U1, U2, U3,
TK04	Cataract, Vitrectomy	2	W1, W2, W3, W4, U1, U2, U3
TK05	Strabismus	2	W1, W3, W4, U1, U2, U3
TK06	Pediatric ophthalmology, ROP	2	W1, W3, W4, U1, U2, U3
TK07	Traumas Neuroophthalmology, choroid	2	W1, W2, W3, W4, U1, U2, U3,
TK08	Glaucoma	2	W1, W2, W3, W4, U1, U2, U3,
Practical classes			

TK01	Repetition of anatomy. Medical history of patients with eye diseases. Examinations of the eye and adnexa in natural light. Procedures in ophthalmology. Intraocular pressure measurements.	5	W1, W2, W3, W4, U1, U2, U3, K1
TK02	Eye drugs. Pupil reflexes. Examination of visual acuity and refraction. Prescription of spectacles. Accommodation	4	W1, U1, U2, U3
TK03	Operating theatre.	5	W1, W4, U1, U2, U3
TK04	Visual field and color vision examination. Electrophysiology.	5	W1, W4, U1, U2, U3
TK05	Biomicroscopy.	4	W1, W2, W3, W4, U1, U2, U3
TK06	Direct and indirect ophthalmoscopy.	4	W1, W2, W3, W4, U1, U2, U3, K1
TK07	Examination of a strabismus patient. Latent and manifest squint. Binocular vision. Localization. Diplopia.	5	W1, W2, W3, W4, U1, U2, U3, K1
TK08	Laser. Angiography. Ultrasonography.	4	W1, W2, W3, W4, U1, U2, U3, K1

Booklist

Obligatory literature:

1. James B., Chew C., Bron A.: Lecture notes on ophthalmology (Blackwell Science Ltd., Oxford 1997)

Supplementary literature:

1. Tarkkanen A.: Principles of ophthalmology (Recallmed Ltd., Vaasa 1995)

2. Kański J.J.: Clinical ophthalmology (Butterworth – Heinemann Ltd., Oxford 1994)

Student's workload

Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	52
Time spent on preparation to seminars/ practical classes	8
Time spent on reading recommended literature	8
Time spent on writing report/making project	-
Time spent on preparing to colloquium/ entry test	-
Time spent on preparing to exam	4
Other	-
Student's workload in total	75
ECTS credits for the subject (in total)	4
Remarks	

* Selected examples of methods of assessment:

EP – written examination
EU –oral examination
ET – test examination
EPR – practical examination
K – colloquium
R – report
S – practical skills assessment
RZC – practical classes report, incl. discussion on results
O –student's active participation and attitude assessment
SL –lab report
SP – case study
PS - assessment of student's ability to work independently
W – entry test
PM – multimedial presentation
other...