

COURSE INFORMATION					
Course Title	Code	Semester	COURSE INFORMATION		
			Lecture+Practice+Labrotory Hour	Credits	ECTS
OPHTHALMOLOGY (Clinical Clerkship)	MED 502	5/9-10	28+52	5	5*

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites	The student that joins this course, should have at least the Phase 4 knowledge level in medical faculty.
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Language of Instruction	English
Course Level	Second-cycle higher education (i.e. QF-EHEA-2, EQF-LLL-7, TYYÇ-7) with Master's Degree/ "Regulated Professions" legislation by EU 2005/36/EC Directive
Course Type	Compulsory
Course Coordinator	Vildan Öztürk
Instructors	Sinan Tatlıpınar, Belkıs Ilgaz Yalvaç, Raciha Beril Küçümen, İlke Bahçeci Şimşek, Vildan Öztürk, Alp Kayıran
Assistants	Can Şirolu
Goals	To convey necessary knowledge on pathology, symptomatology, clinics and pharmacology of eye diseases, to equip with skills and attitudes required for an appropriate approach to management of eye patients
	For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf

Week 1

	Day 1	Day 2	Day 3	Day 4	Day 5	
Content	09.00 - 09.50	Introductory Session (Introduction to Ophthalmology)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	
	10.00 - 11.20	Lecture Anatomy Alp Kayıran		Lecture Methods of Examination Vildan Öztürk		
	11.30 - 12.00	Clinical experience	Student Group Study	Student Group Study	Student Group Study	
	12.00 - 12.50	Lunch	Lunch	Lunch	Lunch	
	13.00 - 13.50	Clinical Experience (Outpatient)	Lecture Refractive Errors Alp Kayıran	Lecture Conjunctiva Vildan Öztürk	Lecture Cornea Alp Kayıran	Lecture Tear Film and Lacrimal Apparatus İlke Şimşek
	14.00 - 14.50		Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)
	15.00 - 15.50					

16.00 - 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00 - 17.50					

Week 2

	Day 6	Day 7	Day 8	Day 9	Day 10
09.00 - 09.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)
10.00 - 10.50			Case Based Learning Red Eye Vildan Öztürk		
11.00 - 11.20			CBL Eye emergency Vildan Öztürk		
11.30 - 12.00	Student Group Study	Student Group Study	Student Group Study	Student Group Study	Student Group Study
12.00 - 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00 - 13.50	Lecture Glaucoma B. Ilgaz Yalvaç	Lecture Retinal Detachment and Intraocular Tumours Sinan Tatlıpınar	Lecture Contact Lens and Refractive Surgery Vildan Öztürk	Lecture Diseases of the Lens B. Ilgaz Yalvaç	Lecture Uveal Tract Alp Kayıran
14.00 - 14.50	Lecture ³ Lids and Orbit İlike Şimşek	Lecture ³ Retinal Vascular Diseases Sinan Tatlıpınar	Clinical Experience (Outpatient)	Lecture Ocular Manifestations of Systemic Diseases Alp Kayıran	Clinical Experience (Outpatient)
15.00 - 15.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)		Clinical Experience ¹ (Outpatient)	
16.00 - 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00 - 17.50					

Week 3

	Day 11	Day 12	Day 13	Day 14	Day 15
09.00 - 09.50	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Independent Learning
10.00 - 10.50					
11.00 - 11.20			Lecture Pediatric Ophthalmology İlike Şimşek		Assessment Session Written Exam
11.30 - 12.00	Student Group Study	Student Group Study	Student Group Study		
12.00 - 12.50	Lecture Macular Degeneration and Hereditary Retinal Dystrophies Sinan Tatlıpınar	Lecture Neuro-Ophthalmology B. Ilgaz Yalvaç	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Lunch
13.00 - 13.50	Lunch	Lunch	Lunch	Lunch	Assessment Session Oral
	Lecture				

14.00 - 14.50	Strabismus <i>İlke Şimşek</i>	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Clinical Experience (Outpatient)	Exam
15.00 - 15.50	Clinical Experience (Outpatient)				Program Evaluation Session Review of the Exam Questions, Evaluation of the Program (Ophthalmologis t in charge)
16.00 - 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	
17.00 - 17.50					

Learning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1. Describe anatomy of eye and appendages and orbit,	1,1,3	1,2,3	A, C
2. Classify refractive errors and different methods of treatment	1,1,3	1,2,3	A, C
3. Describe physiologies and pathologies of the cornea, conjunctiva, lacrimal system, eyelids and the orbit, explain mechanisms of occurrence, signs and symptoms, methods of examination and ancillary tests, and treatment options of these pathologies.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C
4. State signs and symptoms of different lenticular diseases including cataracts, indications and methods of surgical treatments.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
5. Explain pathophysiology, diagnostic and treatment methods and pharmacology of various glaucoma types	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C
6. Classify uveitic syndromes with respect to affected anatomical sites, signs and symptoms and describe different treatment options	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3,12	A, C
7. Describe mechanisms of occurrence, signs and symptoms, methods of examination and ancillary tests, and treatment options of vascular and age related diseases of retina,	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
8. Explain pathophysiology, risk factors, signs and symptoms, preventive measures and different treatment methods of retinal detachment,	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
9. Describe signs, symptoms and examination methods of neuroophthalmological diseases, interpret relationship with neurological diseases and anatomical locations of lesions.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
10. Explain signs, symptoms and examination methods of pediatric ophthalmological diseases and strabismus types and classify the treatment options.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12	1,2,3	A, C
11. Describe signs, symptoms, examination methods recognize differential diagnosis and classify the treatment options of red eye diseases.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,7 - 1,1,8 - 1,1,9 - 1, 1,10 - 1,1,12	1,2,3,12	A, C

12. Describe signs, symptoms, examination methods of eye trauma and emergency, recognize differential diagnosis and classify treatment options depending on the urgency.	1,1,1 - 1,1,2 - 1,1,3 - 1,1,4 - 1,1,6 - 1,1,12 - 2,5,1 - 2,5,4	1,2,3,12	A, C
13. Interpret ocular manifestations of systemic diseases.	1,1,1 - 1,1,3 - 1,4,1	1,2,3	A, C
14. Outlines methods of examination in ophthalmology.	1,1,7 - 1,1,8	1,2,3	A, C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study
Assessment Methods:	A: Testing B: Presentation C: Homework

COURSE CONTENT		
WEEK	SUBJECT	Study Materials
1		
1	Introductory Session	Materials for the course provided by instructor
1	Lecture Anatomy	Materials for the course provided by instructor
1	Lecture Refractive Errors	Materials for the course provided by instructor
1	Lecture Methods of Examination	Materials for the course provided by instructor
1	Lecture Conjunctiva	Materials for the course provided by instructor
1	Lecture Cornea	Materials for the course provided by instructor
1	Lecture Tear Film and Lacrimal Apparatus	Materials for the course provided by instructor
WEEK	SUBJECT	
2		
1	Lecture Glaucoma	Materials for the course provided by instructor
1	Lecture Lids and Orbit	Materials for the course provided by instructor
1	Lecture Retinal Detachment and Intraocular Tumours	Materials for the course provided by instructor
1	Lecture Retinal Vascular Diseases	Materials for the course provided by instructor
1	Lecture CBL Red Eye	Materials for the course provided by instructor

1	Lecture CBL Trauma and Emergency in Ophthalmology	Materials for the course provided by instructor
1	Lecture Contact Lens and Refractive Surgery	Materials for the course provided by instructor
1	Lecture Diseases of the lens	Materials for the course provided by instructor
1	Lecture Ocular Manifestations of Systemic Diseases	Materials for the course provided by instructor
1	Lecture Uveal Tract	Materials for the course provided by instructor
WEEK SUBJECT		
3		
1	Lecture Macular Degeneration and Hereditary Retinal Dystrophies	Materials for the course provided by instructor
1	Lecture Strabismus	Materials for the course provided by instructor
1	Lecture Neuro – Ophthalmology	Materials for the course provided by instructor
1	Lecture Pediatric ophthalmology	Materials for the course provided by instructor
3	Assessment Session	Materials for the course provided by the instructor
3	Program Evaluation Session Review of the Exam Questions, Evaluation of the Program	Materials for the course provided by the instructor

RECOMMENDED SOURCES		
Textbook	<ul style="list-style-type: none"> • Ophthalmology: A Short Textbook by J. Amann, Gerhard K. • Wills Eye Manual The Wills Eye Manual: Office and Emergency Room Diagnosis and Treatment of Eye Disease, by Nika Bagheri MD, Brynn Wajda MD, Charles Calvo MD, Alia Durrani MD • MEEI Manual of Ophthalmology by Peter K. Kaiser MD, Neil J. Friedman MD, Roberta Pineda MD • Basic Ophthalmology: Essentials for Medical Students, 10th ed. • Lang, Atlas Ophthalmology PDF 	
Additional Resources	<ul style="list-style-type: none"> • http://www.icoph.org/dynamic/attachments/resources/icoemergencyhandbook2010_1.pdf • https://timroot.com/opthobook/ • https://www.atlasophthalmology.net/ • https://eyewiki.org/Main_Page • https://www.columbiaeye.org/eye-library • http://webeye.ophth.uiowa.edu/eyeforum/ • https://eyeguru.org/ • http://www.meduniwien.ac.at/augen/englisch/steps.htm# • www.retinapodcast.com • www.eyes4ears.com • Lecture notes 	

MATERIAL SHARING

Documents	Via google classroom
Assignments	Student ppt presentations
Exams	Not shared

ASSESSMENT	
Questions Types (Pencil-PaperTests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	80%
Extended Matching Questions	10%
Key Feature Questions	10%
Total	100 %
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)
Structured Oral Exam (SOE)	35%
Objective Structured Clinical Exam (OSCE)	10% 5%
Case Based Learning (CBL quiz)	5%
quiz	
Total	50 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	50%
Other Assessments Methods and Tools	50%

COURSE CATEGORY	Expertise/Field Courses
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COURSE'S CONTRIBUTION TO PROGRAMME						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1.	Basic Professional Competencies					

1.1. Clinical Competencies	x
1.2. Competencies Related to Communication	x
1.3. Competencies Related to Leadership and Management	x
1.4. Competencies Related to Health Advocacy	X
1.5. Competencies Related to Research	x
1.6. Competencies Related to Health Education and Counseling	x
2. Professional Values and Perspectives	
2.1. Competencies Related to Law and Legal Regulations	x
2.2. Competencies Related to Ethical Aspects of Medicine	x
2.3. Competencies Related to Social and Behavioral Sciences	x
2.4. Competencies Related to Social Awareness and Participation	x
2.5. Competencies Related to Professional Attitudes and Behaviors	x
3. Personal Development and Values	
3.1. Competencies Related to Lifelong Learning	x
3.2. Competencies Related to Career Management	x
3.3. Competencies Related to Protection and Development of Own Physical and Mental Health	x

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity or day	Duration (Hour)	Total Workload (Hour)
Course Duration (3 weeks)	15	5.5	82.5
Hours for off-the-classroom study (Pre-study, practice, review/week)	15	4	60
Homework	1	2	2
Exam	2	2	4
Total Work Load			148.5
Total Work Load / 30 (h)			4.95
ECTS Credit of the Course			5