

MED 662 - COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Ophthalmology (Clinical internship)	MED 662	Phase 6/11-12	<u>120</u>	5	5*

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

GENERAL INFORMATION	
This course is for Phase VI students of Yeditepe University Faculty of Medicine.	
Prerequisites	Obligatory (main) courses of Phase V should be completed.
Coordination Office	Yeditepe University Hospital.
Email address for inquiries	statlipinar@yeditepe.edu.tr
Attendance	Students are required to attend to at least 80% of the classes.
Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Elective course
Course Coordinator	Sinan Tatlıpınar, MD Prof.
Lecturers/Instructors	Sinan Tatlıpınar, MD Prof. Raciha Beril Küçümen, MD Prof. İlke Bahçeci Şimşek, MD Prof. Özge Yabaş Kızıloğlu MD Assoc. Prof. Vildan Öztürk, MD Assist. Prof. Alp Kayıran, MD Assist. Prof.
Assistants	
Goals	The aim of the elective course is to equip the intern with enriched knowledge and skills in the preferred medical specialty.
Content	The elective internship is a 1-month rotation for the 6th year medical students which has been chosen by the students from the area elective courses in the curriculum. Like the other rotations, evaluation of student performance will be based on overall clinical performance both in hospital and outpatient clinics, case papers, the attitudes toward patients, participation in seminars and overnight calls, regular attendance at scientific meetings, lectures and case conferences, the level of scientific and practical knowledge and consulting skills. Ratings of students recorded with required projects and will be performed as “passed “or “failed” with an overall evaluation score of 100.

Learning Outcomes At the end of this elective internship, the student should be able to:	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1. Describe anatomy of eye and appendages and orbit,	1,1,1 1,1,2	1,2,3	A, C
2. Classify refractive errors and different methods of treatment	1,1,3-1,1,6	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.	1,1,6-1,1,7 1,1,8-2,1,1 2,1,2- 2,1,3 2,4,2-2,5,1- 2,5,3 3,1,2- 3,1,3	1,2,3,12	A, C

4. State signs and symptoms of different lenticular diseases including cataracts, indications and methods of surgical treatments.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3	A, C
5. Explain pathophysiology, diagnostic and treatment methods and pharmacology of various glaucoma types	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3,12	A, C
6. Classify uveitic syndromes with respect to affected anatomical sites, signs and symptoms and describe different treatment options	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	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,	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3	A, C
8. Explain pathophysiology, risk factors, signs and symptoms, preventive measures and different treatment methods of retinal detachment,	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	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.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3	A, C

10. Explain signs, symptoms and examination methods of pediatric ophthalmological diseases and strabismus types and classify the treatment options.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3	A, C
11. Describe signs, symptoms, examination methods recognize differential diagnosis and classify the treatment options of red eye diseases.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,35	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.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3,12	A, C
13. Interpret ocular manifestations of systemic diseases.	1,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	1,2,3	A, C
14. Outlines methods of examination in ophthalmology.	11,1,6-1,17 1,1,8-2,1,1 2,1,2-2,1,3 2,4,2 2,5,1-2,5,3 3,1,2-3,1,3	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 1	SUBJECT	Study Materials

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 2	SUBJECT	
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 3	SUBJECT	
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

COURSE MATERIALS	
Text Books and Reading Material	<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.

	<ul style="list-style-type: none"> 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

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE	
INTERN PHYSICIAN EVALUATION FORM	
This form includes evaluation components for intern physicians and is the basis of the passing grade for internship.	
Intern's name and surname:	
Intern number:	
Internship program name:	
Dates of start and end for internship program:	
1. Evaluation of Cognitive Competencies	
* <i>The level of competency</i> should be determined based on <i>participation in educational activities</i> (Title 1 on the <i>Intern Logbook</i>) and the observations of the Faculty Member / Internship Training Supervisor / Head of the Department for the intern.	
	*Competency Level
1.1. Clinical reasoning and decision making The stages of decision making process in an evidence based manner; to determine preliminary / differential diagnosis/diagnoses, to order appropriate diagnostic tests, to achieve an appropriate definitive diagnosis and treatment (interventional or not).	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>
1.2. Professional knowledge During the educational activities (case discussions, educational visits, faculty member seminars, intern physician seminars, etc.) to answer the questions, to ask the questions, to start a discussion, to contribute to the discussion, to display an understanding of the subject.	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>
1.3. Literature review and seminar presentation Preparation based on evidence of higher scientific strength, presenting the subject in a solid logical reasoning with in a reference to essential check points, mastering the subject, answering the questions asked.	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>
Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department	
2. Evaluation of Competencies for Basic Medical Practice	
* <i>The level of competency</i> should be determined based on <i>basic medical practice</i> (Title 2 on the <i>Intern Logbook</i>) and the observations of the Faculty Member / Internship Training Supervisor / Head of Department for the intern.	
	* Competency Level

Basic medicine practices based on <i>Intern Logbook</i>	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department		
3. Evaluation of Professional Competencies for Medicine		
	* Competency Level	
3.1. Communicating with patients and relatives	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
3.2. Compliance in hospital rules (i.e. standard operating procedures, SOPs)	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
3.3. Working in a team and collaborating and communicating with team members	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
3.4. Performing given tasks	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
3.5. Diligence on attendance and participation in scientific activities	Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/>	
Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department		
Evaluated Competencies	Total Score (Over 100) (For each section below, the score below 70 obtained by the Intern is a reason for inadequacy.)	Impact on Internship End Score
Cognitive Competencies	Score:....	20%
Competencies for Basic Medical Practice	Score:....	60%
Professional Competencies for Medicine	Score:....	20%
*If the competency level for the intern is determined as “does not meet the expectations” in any part of the evaluation form, the intern is considered to be unqualified . In this condition, FF is given as a letter grade. **If the intern physician is deemed inadequate due to absenteeism , FA is given as a letter grade.		

Internship Evaluation End Score:

Letter Grade:.....

Score Range	Letter Grade	Credit Rating
90 – 100	AA	4.0
80 – 89	BA	3.5
70 – 79	BB	3.0
65 – 69	CB	2.5
60 – 64	CC	2.0
0 – 59	FF	
Absent	FA	

**Attendance	Absence \leq 20%	Absence > 20%
	<input type="checkbox"/>	<input type="checkbox"/>
Decision	Qualified	Unqualified
	<input type="checkbox"/>	<input type="checkbox"/>

Date:

COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices	Contribution				
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.		x			
Competency 1.1.2. Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management.		x			
Competency 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.		x			
Competency 1.1.4. Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health.					
Competency 1.1.5. Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience.		x			
Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.		x			
Competency 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.		x			
Competency 1.1.8. Provides healthcare services considering patient and employee health and safety.					
Competency 1.1.9. Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services.					
COMPETENCE AREA-2 / Professional Values and Approaches	Contribution				
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5
Competency 2.1.1. Considers good medical practices while performing the profession.		x			
Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.		x			
Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.		x			
Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.					

COMPETENCE 2.2. Health Advocate					
Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health.					
Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.					
Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.					
Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.					
COMPETENCE 2.3. Leader-Manager					
Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.					
Competency 2.3.2. Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution.					
COMPETENCE 2.4. Team Member					
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.					
Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.		x			
Competency 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice.					
COMPETENCE 2.5. Communicator					
Competency 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.		x			
Competency 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.					
Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.				x	
COMPETENCE AREA-3 / Professional and Personal Development	Contribution				
COMPETENCE 3.1. Scientific and Analytical Approach	1	2	3	4	5
Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.					
Competency 3.1.2. Accesses and critically evaluates current literature related to their profession.	x				
Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process.	x				
Competency 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.					
COMPETENCE 3.2. Lifelong Learner					
Competency 3.2.1. Manages effectively individual study processes and career development.					
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.					
Competency 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process.					

Intern Assessment Form

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

Academic Year:	
Student's Name and Surname:	
Student's Number:	
Department where the internship has taken place:	
Starting and ending dates of the internship:	
Internship success grade:	

- Please assess student success separately for each category over a hundred points.
- Indicate your favorable or unfavorable observations and assessments of the student other than the categories listed below in the "Other Evaluations" section.
- Specify the average of the grades for each category and the letter grade according to the list provided below and indicate Pass or Fail.

Assessment Criteria		
85-100	AA	
75-84	BA	
65-74	BB	
60-64	CB	
50-59	CC	
0 -49	F	FAIL
	F2	DID NOT ATTEND

Assessment Category	Over 100 Points			
General appearance				
History taking and physical examination skills				
General knowledge in medicine				
Physician patient interaction skills and respectful attitude of ethical standards				
Interaction with her/his peers and other medical personnel and team work mentality				
Skills of correctly defining medical problems and providing solutions to them				
Motivation and professional interest				
Timely and full attendance of the progressing activities during the internship				
Taking responsibility and fulfillment mentality of these during the internship				
Success in the seminars presented and scientific discussions participated				
Success in laboratory activities				
Other thoughts				
TOTAL				
AVERAGE (Including the letter grade)				
RESULT	PASS		FAIL	

Instructor /Head of the Clinique:

Date:

Thank you for filling out the form completely with maximum possible objectivity and meticulousness.

TIPE. F.01.Rev 1. 09.01.2014

ECTS ALLOCATION			
Activity	Quantity	Duration (Hours)	Total Workload (Hours)
Clinical Experience	45	2	90
Clerkship Guide Compilation	20	1	20
Independent Learning Hours	45	1	45
Assessment	2	2.5	5
Total Work Load			160
Total Work Load / 30 (h)			5.3
ECTS Credits			5