

**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE**

**PHASE V**

**ENGLISH MEDICINE PROGRAM**

**COURSE of OPHTHALMOLOGY**

**2022/2023 Academic Year**

**COURSE GUIDEBOOK**

**Course Code: Med 5013**

**Course Topic Code: MED5-OPHT**

**\*This guide has been prepared by the Department of PEDIATRIC SURGERY Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

**PREFACE**

**Dear Students,**

Welcome to the Ophthalmology Course program which is an important part of your education.

In this course program, which is going to continue for two weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

 **Department of Ophthalmology**

**GENERAL INFORMATION on COURSE**

**Course Title :** Ophthalmology

**Main Department of Course :** Surgical Sciences

**Department Responsible for Course :** Ophthalmology

**Course Code :** MED-5013
**Course Type :** Required

**Duration of the Course :** 2 weeks

**Teaching Method of the Course :** Formal

**ECTS :** 3

**Language :** English

**Head of the department : Prof. Dr. Aylin Karalezli**

**Teaching Staff :**

|  |  |  |
| --- | --- | --- |
| **Teaching Staff** | **Subject area** | **Theoretical Course duration (Hours)** |
| Prof. Dr. Aylin Karalezli | Ophthalmology | 12 |
| Assoc. Prof. Dr. Sabahattin Sül | Ophthalmology | 12 |
| Assist. Prof. Dr. Hüseyin Cem Şimşek | Ophthalmology | 14 |
| Assist. Prof. Dr. Ahmet Kaderli | Ophthalmology | 16 |

**Coordinator of the Department Education Program :** Prof. Dr. Aylin Karalezli

**Coordinator of the Course Education Program** Prof. Dr. Aylin Karalezli

**Coordinator of the Course Examinations :** Assist. Prof. Dr. Ahmet Kaderli

**Coordinator of Course Assessment and Evaluation :** Assist. Prof. Dr. Ahmet Kaderli

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 ahmetkaderli@mu.edu.tr

**TEACHING METHODS-TECHNIQUES**

**1**. **Theoretical lessons**

**2**. **Learning Centered Teaching**

a. Case-based discussion sessions

b. Student case reports,

c. Practical application at the bedside

d. Practical application at the bedside in the outpatient clinic

**3**. **Interactive teaching**

**PHYSICAL SPACES**

|  |  |  |
| --- | --- | --- |
| **Teaching Activity** | **Physical Space** | **Explanation** |
| Theoretical lessons | Morphology Building |  |
| Inpatient bedside practice | Training and Research Hospital  | Ground Floor - Ophthalmology Service |
| Policlinic | Training and Research Hospital | Ground Floor - Ophthalmology Polyclinic |
| Case analysis | Morphology Building |  |
| Problem-based teaching | - |  |
| Special audit applications | Training and Research Hospital |  |
| Private field applications | Training and Research Hospital |  |

**RELATED LEGISLATION**

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

**AIM(S) of the COURSE**

|  |  |
| --- | --- |
| **1** | In this course, it is aimed that students gain sufficient knowledge, skills, and attitudes to evaluate the signs and symptoms of common eye diseases within the scope of the National CEP, to diagnose in primary care conditions, to create / implement / monitor a treatment plan, to perform emergency intervention and to refer them to an ophthalmologist when necessary. |
| **2** | In this course, it is aimed that the students have information about the ways of protection from eye trauma. |

**OBJECTIVE(S) of the COURSE**

|  |  |
| --- | --- |
| **1** | To be able to recognize common diseases in ophthalmology and refer to an ophthalmologist when necessary. |
| **2** | To be able to take medical history from ophthalmology patients, recognize biomicroscopic examination images and make differential diagnosis. |
| **3** | To be able to make ophthalmoscopic evaluations of patients. |
| **4** | To be able to present patient information during visits. |
| **5** | To be able to recognize the causes of red eye. |
| **6** | To be able to recognize the causes of ptosis in the eyelid and make the differential diagnosis. |
| **7** | To be able to diagnose keratitis and referral under appropriate conditions. |
| **8** | To be able to diagnose acute glaucoma or uveitis and referral under appropriate conditions. |
| **9** | To be able to communicate with patients presenting with ocular trauma (physical, chemical), to evaluate and examine the patients, to be able to apply the principles of first approach by making the differential diagnosis. |
| **10** | To be able to recognize surgical problems related to tear duct obstruction. |
| **11** | To be able to recognize the causes of cataract, strabismus, leukocoria. |
| **12** | To be able to explain the causes of sudden vision loss. |
| **13** | To be able to explain and gain skills on how to intervene in diseases that are frequently encountered in society (dry eye, foreign body in the visual pathways, etc.) and what to pay attention to in preventive medicine. |
| **14** | To be able to adapt to operating room working conditions. |
| **15** | To be able to explain the importance of obtaining consent from patients before surgical interventions. |

**INTENDED LEARNING OUTCOME(S)**

|  |  |
| --- | --- |
| **1** | Can recognize common diseases in ophthalmology and refer to an ophthalmologist when necessary. |
| **2** | Can take medical history from ophthalmology patients, recognize biomicroscopic examination images and make differential diagnosis. |
| **3** | Can make ophthalmoscopic evaluations of patients. |
| **4** | Can present patient information during visits. |
| **5** | Can recognize the causes of red eye. |
| **6** | Can recognize the causes of ptosis in the eyelid and make the differential diagnosis. |
| **7** | Can diagnose keratitis and referral under appropriate conditions. |
| **8** | Can diagnose acute glaucoma or uveitis and referral under appropriate conditions. |
| **9** | Can communicate with patients presenting with ocular trauma (physical, chemical), to evaluate and examine the patients, can apply the principles of first approach by making the differential diagnosis. |
| **10** | Can recognize surgical problems related to tear duct obstruction. |
| **11** | Can recognize the causes of cataract, strabismus, leukocoria. |
| **12** | Can explain the causes of sudden vision loss. |
| **13** | Can explain and gain skills on how to intervene in diseases that are frequently encountered in society (dry eye, foreign body in the visual pathways, etc.) and what to pay attention to in preventive medicine. |
| **14** | Can adapt to operating room working conditions. |
| **15** | Can explain the importance of obtaining consent from patients before surgical interventions. |

**DUTIES AND RESPONSIBILITIES OF STUDENTS**

Duration of course is 2 weeks.

In addition to the theoretical courses, “patient practice” courses are carried out during the course.

Students are assigned daily in rotation in general and local operating rooms, Ophthalmology Clinic and Polyclinic.

In outpatient clinic practices, students are expected to present their thoughts on diagnosis and treatment by taking a history and performing a physical examination.

They are expected to learn and comply with sterility conditions and patient safety in the operating room.

Student who is assigned with bedside history taking and physical examination in the service, is expected to present patient information, differential diagnoses, and diagnosis of the patient during the next day's visit.

Students are responsible for completing the course logbook for each application during the course.

During the course program (if no change is notified by the relevant faculty member during the course period), students are expected to fully present for theoretical or practical application. According to the regulation, there is an attendance requirement of 70% in theoretical courses and 80% in applied courses in Phase V.

**RECOMMENDED RESOURCE(S)**

**KEY RESOURCE(S)**

|  |  |
| --- | --- |
| **KEY RESOURCE(S)** | **Matched Course Outcome(s)**  |
| Kanski's Clinical Ophthalmology, 9th Edition | 1,2,3,5,6,7,8,9,10.11.12.13.14.15 |
| Temel Göz Hastalıkları. Akova A, O’dwyer P. 3.Baskı. 2015 | 1,2,3,5,6,7,8,9,10.11.12.13.14.15 |

**ADDITIONAL RESOURCE(S)**

|  |  |
| --- | --- |
| **ADDITIONAL RESOURCE(S)** | **Matched Course Outcome(s)** |
|  |  |
|  |  |

**ASSESMENT and EVALUATION**

**Assessment and Evaluation in the End of Course Evaluation Exam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method** | **Explanation** | **Role in the End of Course Evaluation**  | **% Value for the End of Course Evaluation** |
| **Attendance to Classes** |  | Compulsory |  |
| **Course Logbook** |  | Compulsory |  |
| **Open ended question Theoretical Exam\*** | Open ended question Theoretical Exam |  | 50 |
| **Structured Oral Examination\*\*\*** | Under the supervision of at least two faculty members |  | 50 |
| **Total** |  |  | **100** |

**Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles**

For the right to take the written exam, the student must be evaluated as “adequate” from the criteria specified in the course report.

**Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles**

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

**The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course**

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

**1 st stage:** Open ended question Theoretical Exam

**2 nd stage:** Structured Oral Examination + Bedside Clinical Practice Exam

**Assessment and Evaluation in Resit Examination**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method**  | **Explanation** | **Role in the End of Course Evaluation** | **% Value at the End of Course Evaluation** |
| **Open ended question Theoretical Exam\*** | Open ended question Theoretical Exam |  | 50 |
| **Structured Oral Examination\*\*** | Under the supervision of at least two faculty members |  | 50 |
| **Total** |  |  | **%100** |

**Assessment and Evaluation in Single Course Resit Exam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method**  | **Explanation** | **Role in the End of Course Evaluation** | **% Value at the End of Course Evaluation** |
| **Open ended question Theoretical Exam\*** | Open ended question Theoretical Exam |  | 50 |
| **Structured Oral Examination** | Under the supervision of at least two faculty members |  | 50 |
| **Total** |  |  | **%100** |

|  |
| --- |
| **COURSE LOGBOOK** |
| **STUDENT'S NAME AND SURNAME :****STUDENT'S SCHOOL NO :** **COURSE PERIOD :** |
| **APPLICATION** | **NCEP Clause** | **TEACHING STAFF (SIGNATURE)** |
| **DATE** |  |  |
| 1.Wearing surgical glove (0.5 points) | F15 |  |
| 2.Witnessing operations (0.5 points) | F15 |  |
| 3.Direct Ophthalmoscopy (0.5 points) | F15 |  |
| 4.Excision of corneal foreign body (0.5 points) | E33/E26/331 |  |
| 5.Suturing and removal techniques (0.5 points) | B20 |  |
| 6.Light reflex examination (0.5 points) | E70 |  |
| 7.Ophthalmic examination (0.5 +0.5 points) | E70 |  |
|  8.Informed consent (0.5 points) | F15 |  |
| 9.Contributing to patients visits (0.5 points) | A1 |  |
| 10.Informing families about prevention of foreign body ingestion and aspiration | F15 |  |
| **DECISION: PASS FAIL****Head of Department or Coordinator:****Date:****Signature:** |

|  |
| --- |
| **Faculty of Medicine** **English Medicine Program****Phase V****OPHTHALMOLOGY COURSE****Competence Matrix** |
| **The Name of the Course** | **Po1** | **Po2** | **Po3** | **Po4** | **Po5** | **Po6** | **Po7** | **Po8** | **Po9** | **Po10** | **Po11** | **Po12** | **Po13** |
| **Pediatric Surgery** | **5** | **5** | **5** | **5** | **5** | **3** | **5** | **4** | **5** | **5** | **4** | **5** | **4** |
| **\* Completed according to the following program outcomes. (Score from 0 to 5.)** **PO: Program Outcomes of Faculty of Medicine****PO Link: https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr** |

**TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS**

|  |  |  |
| --- | --- | --- |
| **Intended Learning Outcome** | **TRAINING ACTIVITY MATCHING** | **ASSESMENT AND EVALUATION METHODS MATCHING** |
| 1.Can recognize common diseases in ophthalmology and refer to an ophthalmologist when necessary. | T,V | TE,OE |
| 2.Can take medical history from ophthalmology patients, recognize biomicroscopic examination images and make differential diagnosis. | T,C,V | TE,OE |
| 3.Can make ophthalmoscopic evaluations of patients. | C,V | TE,OE |
| 4.Can present patient information during visits. | C,V | TE,OE |
| 5.Can recognize the causes of red eye. | T,,C,V | TE,OE |
| 6.Can recognize the causes of ptosis in the eyelid and make the differential diagnosis. | CR,T,C,V | TE,OE |
| 7.Can diagnose keratitis and referral under appropriate conditions. | CR,T,C,V | TE,OE |
| 8.Can diagnose acute glaucoma or uveitis and referral under appropriate conditions. | CR,T,C,V | TE,OE |
| 9.Can communicate with patients presenting with ocular trauma (physical, chemical), to evaluate and examine the patients, can apply the principles of first approach by making the differential diagnosis. | CR,T,C,V | TE,OE |
| 10.Can recognize surgical problems related to tear duct obstruction. | CR,T,C,V | TE,OE |
| 11.Can recognize the causes of cataract, strabismus, leukocoria. | CR,T,C,V | TE,OE |
| 12.Can explain the causes of sudden vision loss. | CR,T,C,V | TE,OE |
| 13.Can explain and gain skills on how to intervene in diseases that are frequently encountered in society (dry eye, foreign body in the visual pathways, etc.) and what to pay attention to in preventive medicine. |  CR,T,C,V | TE,OE |
| 14.Can adapt to operating room working conditions. | CR,T,C,V | TE,OE |
| 15.Can explain the importance of obtaining consent from patients before surgical interventions. |  CR,T,C,V | TE,OE |
| **Abbreviations****Teaching Activity:** Theorical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)**Assessment Method:** Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE) |

**INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE POGRAM**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lecture Code\*** | **Hour** | **Lecture Type** | **Lecture Subject** | **Course Aim Matching** | **Course Learning Outcome Matching** | **Activity Matching\*\*** | **Assessment and Evaluation Method matching \*\*** | **Vertical Integration** | **Horizontal Integration** |
|  | 2 | T | Anatomy of the Eye | 1 | 1 | T | 2 |  |  |
|  | 2 | T | Corneal Diseases | 1 | 5,7,9 | T | 2 |  |  |
|  | 2 | T | Cataract | 1 | 11 | T | 2 |  |  |
|  | 2 | T | Ocular Tumors | 1 | 1 | T | 2 |  |  |
|  | 2 | T | Conjunctival Diseases | 1 | 3,13 | T | 2 |  |  |
|  | 2 | T | Anatomy and Physiology of Retina | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Diabetic Retinopathy | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Retinal Artery Occlusions | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Retinal Detachments | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Eye Injuries | 1 | 11 | T | 2 |  |  |
|  | 2 | T | Sudden Vision Loss | 1 | 11 | T | 2 |  |  |
|  | 2 | T | Strabismus | 1 | 11 | T | 2 |  |  |
|  | 2 | T | Senile Macular Degeneration | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Glaucoma | 1 | 8 | T | 2 |  |  |
|  | 2 | T | Uveitis: Differential Diagnosis | 1 | 8 | T | 2 |  |  |
|  | 2 | T | Eyelid Diseases | 1 | 6 | T | 2 |  |  |
|  | 2 | T | Lacrimal System Diseases | 11 | 6 | T | 2 |  |  |
|  | 2 | T | Keratoconus and Treatment Options | 1 | 7 | T | 2 |  |  |
|  | 2 | T | Refraction | 1 | 7 | T | 2 |  |  |
|  | 2 | T | Systemic Diseases and Ocular Involvements | 1 | 13 | T | 2 |  |  |
|  | 2 | T | Orbital Diseases | 1 | 10 | T | 2 |  |  |
|  | 1 | P | Clinical presentation | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Sterility promotion in the operating roomOutpatients from symptoms and signs to differential diagnosis Patient history and physical examination | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Clinical applied practice | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Patient safety and positioning in the operating roomOutpatients from symptoms and signs to differential diagnosis Patient history and physical examination | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Consulting Hour | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Bedside application- corneal foreign body removal | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Conjunctivitis-ophthalmic examination | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Bedside application-ophthalmic examination | 1 | 1,2,3,4,5,14,15 | P | 1 |  |  |
|  | 1 | P | Bedside application-ophthalmic examination | 11 | 1,2,3,4,5,14,15 | P | 1 |  |  |
| **EXPLANATIONS:****\*** Lecture code will be formed by writing 001, 002,… at the end of the code taken from the “Codes for Phase 5 matrix” section.**\*\*Abbreviations****Teaching Activity:** Theorical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)**Assessment Method:** Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)  |

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