

| COURSE INFORMATION | | | | | |
|---|------------|----------|--|---------|------|
| Course Title | Code | Semester | COURSE INFORMATION Lecture+Practice+Labrotory Hour (independent learning) | Credits | ECTS |
| OTORHINOLARYNGOLOGY & HEAD AND NECK SURGERY (Clinical Clerkship) | MED 504 | 5/9-10 | 26+44 | 4 | 4* |

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

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| 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 | Müzeyyen Doğan | | | | | | | | | | | | | | | | | | |
| Instructors | İlhan Topaloğlu, Müzeyyen Doğan, Zeynep Alkan, Hasan Deniz Tansuker, Ziya Bozkurt, Ömer Faruk Birkent | | | | | | | | | | | | | | | | | | |
| Assistants | - | | | | | | | | | | | | | | | | | | |
| Goals | To convey necessary knowledge on historical development of otorhinolaryngology, current and future applications of diagnostic and treatment methods, to convey necessary knowledge on clinical conditions related to otorhinolaryngology (<i>head and neck oncology, rhinology, laryngology, otology, facial plastic and reconstructive surgery, voice and speech disorders, neuro-otology, audiology and hearing sciences, vestibular system, congenital and genetic diseases, head and neck cancers, allergic and immunologic diseases</i>), To equip students with knowledge, skills and attitudes required to manage clinical conditions related to otorhinolaryngology at primary care setting | | | | | | | | | | | | | | | | | | |
| Content | <p>For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf</p> <table border="1"> <thead> <tr> <th colspan="6">Week 1</th> </tr> <tr> <th></th> <th>Day 1</th> <th>Day 2</th> <th>Day 3</th> <th>Day 4</th> <th>Day 5</th> </tr> </thead> <tbody> <tr> <td>09.00-09.50</td> <td>Introductory Session (Introduction to ENT) İlhan Topaloğlu</td> <td>Lecture Acute Otitis Media İlhan Topaloğlu</td> <td>Lecture Hearing Loss Müzeyyen Doğan</td> <td>Lecture Vertigo H.Deniz Tansuker</td> <td>Lecture Diseases of the Oral Cavity H.Deniz Tansuker</td> </tr> </tbody> </table> | Week 1 | | | | | | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | 09.00-09.50 | Introductory Session (Introduction to ENT) İlhan Topaloğlu | Lecture Acute Otitis Media İlhan Topaloğlu | Lecture Hearing Loss Müzeyyen Doğan | Lecture Vertigo H.Deniz Tansuker | Lecture Diseases of the Oral Cavity H.Deniz Tansuker |
| Week 1 | | | | | | | | | | | | | | | | | | | |
| | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | | | | | | | | | | | | | | |
| 09.00-09.50 | Introductory Session (Introduction to ENT) İlhan Topaloğlu | Lecture Acute Otitis Media İlhan Topaloğlu | Lecture Hearing Loss Müzeyyen Doğan | Lecture Vertigo H.Deniz Tansuker | Lecture Diseases of the Oral Cavity H.Deniz Tansuker | | | | | | | | | | | | | | |

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|---------------|---|--|---|---|--|
| 10.00 - 10.50 | Lecture Anatomy and Physiology of the Ear Müzeyyen Doğan | Lecture Chronic Otitis Media İlhan Topaloğlu | Lecture Hearing Loss Müzeyyen Doğan | Lecture Tinnitus H.Deniz Tansuker | Lecture Diseases of the Oropharynx H.Deniz Tansuker |
| 11.00 - 11.50 | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) İlhan Topaloğlu | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) H.Deniz Tansuker | Clinical Experience (Outpatient) H.Deniz Tansuker |
| 12.00- 12.50 | Luch | Luch | Luch | Luch | Luch |
| 13.00 - 13.50 | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) İlhan Topaloğlu | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) H.Deniz Tansuker | Clinical Experience (Outpatient) H.Deniz Tansuker |
| 14.00 - 14.50 | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) İlhan Topaloğlu | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) H.Deniz Tansuker | Clinical Experience (Outpatient) H.Deniz Tansuker |
| 15:00 - 17:50 | Independent Learning | Independent Learning | Independent Learning | Independent Learning | Independent Learning |

| Week 2 | | | | | |
|---------------|--|---|--|---|---|
| | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 09.00- 09.50 | Lecture Rhinitis and Sinusitis H.Deniz Tansuker | Lecture Salivary Gland Diseases Zeynep Alkan | Lecture Anatomy and Physiology of the Larynx Müzeyyen Doğan | Lecture Essential audiology and Newborn hearing screen Ö.Faruk Birkent | Lecture Lymph Nodes Pathologies and Neck Masses Zeynep Alkan |
| 10.00 - 10.50 | Lecture Rhinitis and Sinusitis H.Deniz Tansuker | Lecture Sleep Apnea, Snoring and their Treatment İlhan Topaloğlu | Lecture Malignant Tumors of the Larynx Müzeyyen Doğan | Lecture Essential audiology and Newborn hearing screen Ö.Faruk Birkent | Lecture Lymph Nodes Pathologies and Neck Masses Zeynep Alkan |
| 11.00 - 11.50 | Clinical Experience (Outpatient) H. Deniz Tansuker | Clinical Experience (Outpatient) Zeynep Alkan | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Ö.Faruk Birkent | Clinical Experience (Outpatient) Zeynep Alkan |
| 12.00- 12.50 | Lunch | Lunch | Lunch | Lunch | Lunch |
| 13.00 - 13.50 | Clinical Experience (Outpatient) Hasan Deniz Tansuker | Clinical Experience (Outpatient) Zeynep Alkan | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Ö.Faruk Birkent | Clinical Experience (Outpatient) Zeynep Alkan |

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|---------------|---|---|---|--|---|
| 14.00 - 14.50 | Clinical Experience (Outpatient) H.Deniz Tansuker | Clinical Experience (Outpatient) Zeynep Alkan | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Ö.Faruk Birkent | Clinical Experience (Outpatient) Zeynep Alkan |
| 15:00 - 17:50 | Independent Learning | Independent Learning | Independent Learning | Independent Learning | Independent Learning |

| Week 3 | | | | | |
|---------------|---|---|--|---|--|
| | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 09.00-09.50 | Lecture Ent Emergencies Ziya Bozkurt | Lecture Maxillofacial Trauma Ziya Bozkurt | Lecture Congenital Laryngeal and Voice Disorders Müzeyyen Doğan | Clinical Experience (Outpatient) Müzeyyen Doğan | Assessment Session (Written Exam) |
| 10.00-10.50 | Lecture Ent Emergencies Ziya Bozkurt | Lecture Deep Neck Infections Ziya Bozkurt | Lecture Congenital Laryngeal and Voice Disorders Müzeyyen Doğan | Clinical Experience (Outpatient) Müzeyyen Doğan | |
| 11.00-11.50 | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Müzeyyen Doğan | |
| 12.00-12.50 | Lunch | Lunch | Lunch | Lunch | Lunch |
| 13.00-13.50 | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Müzeyyen Doğan | Program Evaluation Session Review of the Exam Questions Evaluation of the Program Müzeyyen Doğan |
| 14.00-14.50 | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Ziya Bozkurt | Clinical Experience (Outpatient) Müzeyyen Doğan | Clinical Experience (Outpatient) Müzeyyen Doğan | |
| 15:00 - 17:50 | Independent Learning | Independent Learning | Independent Learning | Independent Learning | Independent Learning |

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| Learning Outcomes | Programme Learning Outcomes | Teaching Methods | Assessment Methods |
|--|--------------------------------------|-------------------------|---------------------------|
| 1. Describe external, middle and inner ear diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 2. Explain tinnitus, hearing loss and balance problems | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 3. Explain anatomy and physiology of larynx and ear | PO.1.1.5 | 1,2,3 | A, B |
| 4. Distinguish between benign and malignant tumors at basic level in oropharyngeal diseases. | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 5. Distinguish between benign and malignant tumors at basic level in nasopharyngeal diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 6. Describe diagnosis and medical treatment of rhinitis and paranasal sinus diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 7. Explain interventions to otorhinolaryngological emergencies | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 8. Describe diseases related to adenoid and tonsillary tissue | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 9. Describe diagnosis and treatment of salivary gland diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 10. Explain assessment of laryngeal diseases at basic level | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 11. Distinguish between benign and malignant laryngeal diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 12. Explain basics of deep neck infections | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3 | A, B |
| 13. Explain basics of maxillofacial traumas | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 14. Outline basics of facial paralysis | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |

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| 15. Describe interpretation of audiological and early screening tests at basic level | P.O.1.1.6, P.O.1.4.1, PO.1.4.2 | 1,2,3,4 | A, B |
| 16. Outline diseases related to neck mass | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 17. Describe basics and medical treatment of laryngopharyngeal reflux | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 18. Describe sleep apnea and snoring problem and surgical treatment of those diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 19. Describe lymph nodes pathologies | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 20. Tell surgical techniques of incision in tracheostomy, tracheotomy, coniotomy | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3 | A, B |
| 21. Describe voice and speech disorders and treatments of those diseases | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |
| 22. Tell basics of head-neck tumors | P.O.1.1.3, P.O.1.1.7, PO.1.1.9 | 1,2,3,4 | A, B |

Teaching Methods: 1: Lecture, 2: Question-Answer, 3: Discussion, 4: Case Study

Assessment Methods: A: Testing B: Practical examination

| COURSE CONTENT | | |
|-----------------------|---|---|
| WEEK | SUBJECT | Study Materials |
| 1 | Introductory Session | Materials for the course provided by instructor |
| | Lecture Anatomy and Physiology of the Ear | Materials for the course provided by instructor |
| | Lecture Acute Otitis Media | Materials for the course provided by instructor |
| | Lecture Chronic Otitis Media | Materials for the course provided by instructor |

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|---|---|
| Lecture Hearing Loss | Materials for the course provided by instructor |
| Lecture Vertigo | Materials for the course provided by instructor |
| Lecture Tinnitus | Materials for the course provided by instructor |
| Lecture Diseases of the Oral Cavity | Materials for the course provided by instructor |
| Lecture Diseases of the Oropharynx | Materials for the course provided by instructor |
| WEEK SUBJECT 2 | |
| Lecture Rhinitis and Sinusitis | Materials for the course provided by instructor |
| Lecture Salivary Gland Diseases | Materials for the course provided by instructor |
| Lecture Sleep Apnea, Snoring and their Treatments | Materials for the course provided by instructor |
| Lecture Anatomy and Physiology of the Larynx | Materials for the course provided by instructor |
| Lecture Malignant Tumors of the Larynx | Materials for the course provided by instructor |
| Lecture Essential audiology and Newborn hearing screen | Materials for the course provided by instructor |
| Lecture Lymph Nodes Pathologies and Neck Masses | Materials for the course provided by instructor |
| WEEK SUBJECT 3 | |
| Lecture Ent Emergencies | Materials for the course provided by instructor |
| Lecture Maxillofacial Trauma | Materials for the course provided by instructor |
| Lecture Deep Neck Infections | Materials for the course provided by instructor |
| Lecture Congenital Laryngeal and Voice Disorders | Materials for the course provided by instructor |
| Assessment Session | Materials for the course provided by the instructor |
| 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"> • Bailey's Head and Neck Surgery - Otolaryngology by Jonas T. Johnson • Cummings Otolaryngology, ed.7 by Paul W. Flint; Bruce H. Haughey; Valerie J. Lund; K. Thomas Robbins; J. Regan Thomas; Marci M. Lesperance; Howard W. Francis • Ear, Nose and Throat and Head and Neck Surgery by Ram S. Dhillon; Charles A. East • Rhinology by David W. Kennedy • ENT Secrets by Melissa A. Scholes; Vijay R. Ramakrishnan • Hearing Loss by Jos J. Eggermont • Otolaryngology Board Review: Pearls of Wisdom Third Edition - 3rd Edition (eBook) by Mary Talley Bowden, PRINT ISBN: 9780071769686 E-TEXT ISBN: 9780071770033 |
| Additional Resources | <ul style="list-style-type: none"> • https://www.bcm.edu/departments/otolaryngology-head-and-neck-surgery/education/grand-rounds • https://media.bcm.edu/documents/2013/ec/otolaryngology-core-curriculum.pdf • https://www.entnet.org/ • https://teachmemedicine.org/ear-nose-and-throat/ • https://www.entuk.org/sites/default/files/files/Ear%20Nose%20and%20Throat%20The%20Offici%20-%20SFO%20UK%20-%20compressed.pdf |

| MATERIAL SHARING | |
|-------------------------|----------------------|
| Documents | Via google classroom |
| Assignments | - |
| Exams | Not shared |

| ASSESSMENT | |
|--|---|
| Questions Types (Pencil-PaperTests) | Proportion (in Pencil-Paper Tests) |
| Multiple Choice Questions | 60% |
| Extended Matching Questions | 15% |
| Key Feature Questions | 10% |
| Short Response Essay Questions | 15% |
| Total | 100 % |
| Other Assessment Methods and Tools | Proportion (in Pass/Fail Decision) |
| Objective Structured Clinical Exam | 100% |
| Total | 100% |
| Pass/Fail Decision | Proportion |

| | <i>(in Pass/Fail Decision)</i> |
|-------------------------------------|--|
| Pencil-Paper Tests | 75% |
| Other Assessments Methods and Tools | 25% |

COURSE CATEGORY

Expertise/Field Courses

| 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 | 75 |
| Hours for off-the-classroom study (Pre-study, practice, review/week) | 15 | 3 | 45 |

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|----------------------------------|---|---|------|
| Homework | - | - | - |
| Exam | 2 | 1 | 2 |
| Total Work Load | | | 122 |
| Total Work Load / 30 (h) | | | 4.06 |
| ECTS Credit of the Course | | | 4 |