

**STUDY GUIDE DEPARTMENT OF ENT  
FOR FOURTH YEAR MBBS STUDENTS**



**DEPARTMENT OF ENT  
KING EDWARD MEDICAL UNIVERSITY, LAHORE**

# TABLE OF CONTENT

<b>TOPIC</b>	<b>PAGE</b>
Introduction to Department	
Introduction to Study Guide	
Organogram	
Faculty	
Objectives of Curriculum	
Structure of Fourth Year	

## **INTRODUCTION OF DEPARTMENT:**

Department of ENT was established in old building of Mayo Hospital in 1943. The department is providing teaching and training to MBBS, BSc. Audiology, BSc Speech language pathology students and post graduate residents of FCPS and M.S ENT. Department of ENT has two units, Unit 1 and Unit 2. Prof Dr. Taimoor Latif Malik is Chairman and head of ENT Unit 1 and Professor Dr. Nukhbat Ullah Awan is head of ENT Unit 2. The teaching faculty includes one professor, one associate professor, one assistant Professor and five senior registrars. The level of education and training for all disciplines is maintained efficiently by implementation of concepts, skills, advance and latest knowledge and teaching methods. Many research projects have been published in national and international impact factor journals. Many research projects are currently in progress.

## **AIMS:**

To create interest in studying and doing post-graduation in ENT and train students to make them finest so that they can compete and deliver best in medical profession and able to provide quality health care by providing best possible and conducive environment.

## **TEACHING STRATEGY**

Use of bridge in, objective based, pretest, participatory/interactive lecture, problem based learning, assessment of test questions according to standardized key, post-test discussion, and summarizing strategies for improving knowledge of students.

## **MESSAGE OF THE VICE CHANCELLOR, PROF. DR. MAHMOOD AYYAZ**

I am honored to step into the educational leadership of the King Edward Medical University. As its Vice Chancellor, I will strive to maintain the tradition of strong, insightful, and forward-thinking leadership of my predecessors. While the challenges and research opportunities in the future will be decidedly different from those faced by the university's previous leaders, but the principles of dedication to outstanding high-impact science, community participation, accountability, and transparency in the decision-making process will guide my vision for the university

As its Vice Chancellor, I am capable of fully embracing the challenges and opportunities that lie ahead and take this as unique opportunity to help shape the future of the medical education and research in my country and will work hard to further vitalize the University by enfolding new and exciting areas of growth and development particularly in Clinical Informatics and Data Sciences.

As a Vice Chancellor, I envision to:

- Provide Academic and Scientific leadership for the University.
- Promote scientific inquiry and discovery to generate new knowledge,
- Identify promising pathways, pursue novel targets, develop innovative diagnostics, and design effective interventions that bring hope and health to the human condition.
- Create opportunities to understand how human health is affected by Medical Education and Research and how this knowledge can be used to reduce morbidity, improve quality of life, and extend longevity.
- Modernize and Standardize Induction, Training, Monitoring and Evaluation in the Under and post graduate programs of the university
- Create a forum for open and ongoing communication between the University and both the public and scientific communities to identify areas for programmatic development, to fully evaluate a problem or opportunity, and to enhance public and scientific awareness of the problem and find a solution, and, when appropriate, coordinate these activities with programmatic efforts with other National and International universities

- Foster the development of programmatic, interdisciplinary research with the Mechanical, Electrical, Textile and Environmental Science Industry of Pakistan and support the development of research careers in these fields
- Work with the other institutes like NIH, the Centers for Disease Control and Prevention, the Environmental Protection Agency, and other relevant scientific institutes to coordinate scientific and training programs.
- Serve as a spokesperson of the University to the Government in Medical Education and Science.

I believe that the University will benefit from my perspective as an active Surgeon–Scientist. The reasons for this are simple and straightforward, I enjoy patient care and research, I see these activities as part of my identity, and throughout my career my research has been driven and inspired by taking care of patients with complex and unexplainable illnesses. I am very excited about my role in the future with the University and am fully committed to serving as its Vice Chancellor. I have decided to take on this responsibility because of my long-standing commitment to Medical education and patient care and my firm belief in our collective responsibility to advance society. With the Blessings of Allah Almighty, I look forward to the work ahead with ALTAPETE as my motto and the ALUMINI of King Edward Medical University as my guiding light.

## **INTRODUCTION TO STUDY GUIDE**

**Dear Students,**

This study guide has been made to take you through the Otorhinolaryngology course set out for you over Third and Fourth year of medical teaching. The course amounts to dedicated teaching in the subject of Otorhinolaryngology and it will take the shape of lectures as well as ward learning, case-based discussions and group discussions.

Otorhinolaryngology is one of the first clinical subjects you will come face to face with after the basic sciences. It is important to understand the importance of this subject as a general practitioner or any other Specialty doctor of future. You may become the point of contact for very important emergency ENT conditions, or other indolent conditions whose timely diagnoses and referral may save a patient from complications. The course has been designed keeping in line the curriculum provided by Pakistan Medical & Dental Council to equip you with the basics of Otorhinolaryngology and to enable you to be the first point of contact for emergencies and for referral when pertinent.

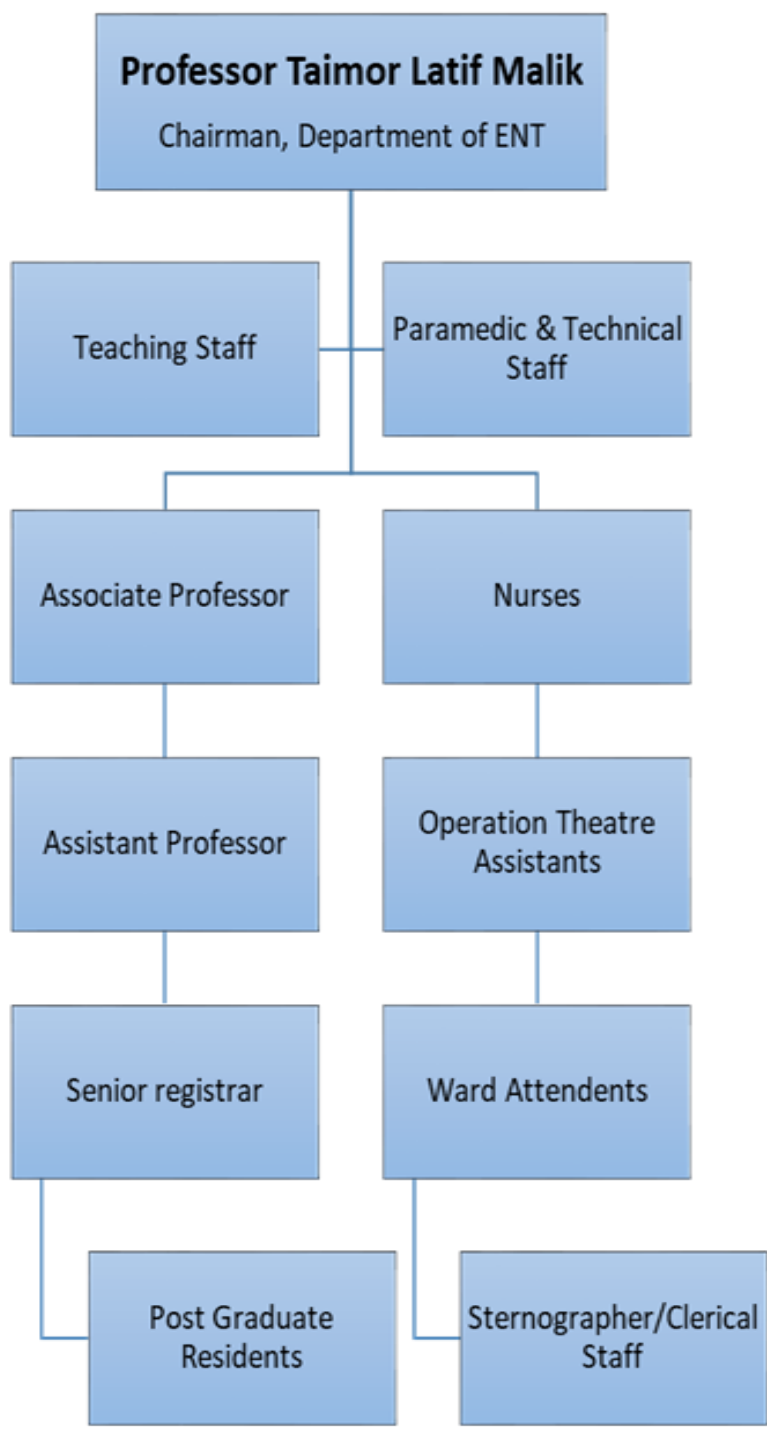
The guide includes information regarding the Department of Otorhinolaryngology. It also elucidates the modules with their learning objectives. Owing to a greater integration, modules and inter-modules will enable necessary nesting with the concurrent subjects.

We extend you heartiest welcome to this Subject of Otorhinolaryngology on behalf of the entire Department. We urge you to go through this study guide for garnering maximum out of the subject and hope to do the same at our end.

Our learning resources are also available online. Personnel are always available in wards to extend guidance as well as any necessary help for the benefit of the students.

Hoping for a great learning experience,

**Department of Otorhinolaryngology (ENT)**  
**King Edward Medical University**



## **KING EDWARD /MEDICAL UNIVERSITY, LAHORE**

### **VISION AND MISSION STATEMENT**

#### **VISION**

The vision of King Edward Medical University is to be a renowned national and world class academia maintaining a leading role in medical education, innovative research and provision of best health care services of international standards.

#### **MISSION**

King Edward Medical University will prepare health professionals in accordance with highest professional standards to practice evidence-based medicine maintaining international quality of patient-centered care in health care delivery system and will produce research scholars demonstrating excellence in knowledge, skills, and ethical values empowered with community oriented self-directed learning and professional development.

## FACULTY

Prof. Dr. Taimoor Latif Malik	Chairperson and Head of Department ENT Unit 1
Prof. Dr. Nukhbat Ullah Awan	Professor & Head of Department ENT Unit 2
Dr. Mazhar Iftikhar	Associate Professor ENT Unit 1
Dr. Nasir Riaz	Assistant Professor ENT Unit 1
Dr. Tabeer Arif	Senior Registrar
Dr. Ali Akhter	Senior Registrar
Dr. Ameer Hamza	Senior Registrar

## FOURTH YEAR MBBS COURSE TIMELINE

Start of Session: 15-12-2026

Total lectures: 57

Practical: six days a week for whole academic year

### TEACHING SCHEDULE & VENUE

THEORY	
Starting date of the session	15-12-2026
Venue	Maqbool Block Auditorium
Course Coverage	9 Months
No. Of Total Lectures	57
PRACTICALS	
Starting date of the session	15-12-2026
Venue	Department of ENT Unit 1 and Unit 2 ward
Days of ENT practicals	Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.

### TEACHING METHODOLOGIES

- Lectures (Interactive, student centered, objectively based)
- Practical
- Tutorials/Problem based learning sessions
- Individual presentations
- OSPE (Objectively structured practical exam)
- Regular Class test/assessment at the end of each unit
- Send Up Examination
- Viva

## **FOURTH YEAR MBBS SYLLABUS**

According to PM&DC & King Edward Medical University guidelines, following topics and their relevant practical work will be taught in Fourth Year MBBS:

- Diseases of Ear and Related Structures
- Diseases of Nose and Paranasal Sinuses
- Diseases of Throat, Oral Cavity and Larynx.
- Oesophageal Disease
- Salivary Glands and Neck Diseases

## **SYLLABUS OUTLINE WITH STUDY OBJECTIVES**

### **ANATOMY AND PHYSIOLOGY OF EAR AND RELATED STRUCTURES**

#### **COURSE OBJECTIVES**

By the end of this course, students should be able to understand

1. Anatomy and physiology of hearing, balance and related structures
2. Structure and function of the auditory pathways and central nervous system related to hearing and balance
3. Neural Basis of Hearing and Communication
4. Anatomy of Cranial Nerves

#### **COURSE CONTENT**

- Anatomy of Temporal bone, Brief overview
- Anatomy of Ear
- Anatomy of External Ear
- Anatomy of Mastoid Air Cell System
- Non-auditory structures of the middle ear
- Anatomy of Inner Ear
  
- Anatomy and physiology of central auditory nervous system
- Anatomy of Vestibular System
- Peripheral Vestibular System
- Cranial Nerve VII
- Cranial Nerve VIII
- Central Vestibular System
- Vestibular Nuclei
- Cerebellum

## **PHYSIOLOGY OF EAR**

- Physiology of outer ear
- Physiology of middle ear
- Physiology of Auditory pathway and central hearing mechanism
- Physiology of equilibrium
- Physiology and Mechanics of the Middle Ear
- Physiology and Mechanics of the Inner Ear

## **THE CRANIAL NERVES**

1. Cranial Nerve I
2. Cranial Nerve II
3. Cranial Nerve III
4. Cranial Nerve IV
5. Cranial Nerve V
6. Cranial Nerve VI
7. Cranial Nerve VII
8. Cranial Nerve VIII
9. Cranial Nerve IX
10. Cranial Nerve X
11. Cranial Nerve XI
12. Cranial Nerve XII

## **PATHOLOGY OF EAR DISEASES**

Objectives:

After studying this paper at the end of the year, the student should be able to understand the following

1. General diseases/conditions related to hearing disorders
2. Basic neurological, genetic issues related to hearing
3. Basic knowledge about ototoxicity

### **Diseases of Ear**

- Disease of the External Ear
- Diseases of Auricle
- External Auditory Canal Disorders
- Diseases of Tympanic Membrane
- Disease of Middle Ear
- Hearing Loss
- Diseases of Inner Ear
- Disorders of Vestibulocochlear Nerve
- Disorders of Cochlear Nuclei
- Disorders of Higher Auditory Pathways
- Non-Organic Hearing Loss
- Ototoxicity
- Pathology of Genetic, Syndromic and Non-Syndromic Ear Disorders
- Syndromic Hearing Loss
- Autism Spectrum Disorder
- Surgical Procedures of Ear
- Ear Trauma
- Radiology of Ear

## **ANATOMY AND PHYSIOLOGY OF NOSE AND PARANASAL SINUSES**

### **COURSE OBJECTIVES**

By the end of this course, students should be able to understand

1. Anatomy and physiology of Nose and Paranasal Sinuses
2. Anatomy and Physiology of Olfactory Pathways
4. Cranial Nerves Clinical Anatomy Related to Nose and Paranasal Sinuses

## **Diseases of Nose**

- Diseases of External Nose
- Congenital Anomalies of Nose
- Diseases of Nasal Septum
- Epistaxis
- Granulomatous Diseases of Nose
- Nasal Trauma
- Benign and Malignant Tumours of Nose
- Smell Disorders
- Nasal Polyposis
- Allergic Rhinitis
- Non-Allergic Rhinitis
- Fungal Sinusitis
- Acute and Chronic Rhinitis
- Acute and Chronic Sinusitis
- CSF Rhinorrhea
- Complications of Sinusitis Surgical Procedures of Nose
- Nasal Emergencies
- Radiology of Nose and Paranasal Sinuses

## **DISEASES OF ORAL CAVITY, PHARYNX, LARYNX, ESOPHAGUS**

### **ANATOMY AND PHYSIOLOGY OF ORAL CAVITY, PHARYNX, LARYNX AND OESOPHAGUS**

#### **COURSE OBJECTIVES**

By the end of this course, students should be able to understand

1. Clinical Anatomy and physiology of oral cavity, pharynx, larynx and Esophagus.

#### **COURSE CONTENT**

- Anatomy of oral cavity, pharynx, larynx and Esophagus.
- Physiology of Oral cavity, pharynx, Larynx and Esophagus.

## DISEASES OF ORAL CAVITY, PHARYNX, LARYNX, ESOPHAGUS

- Acute and Chronic Tonsillitis.
- Benign and Malignant lesions of Oral Cavity
- Inflammatory conditions of Oral Cavity
- Adenoiditis.
- Eustachian tube Dysfunction.
- Acute and Chronic Pharyngitis
- Nasopharyngeal Carcinoma
- Angiofibroma
- Faucial Diphtheria
- Peritonsillar Abscess
- Ludwigs Angina
- Parapharyngeal Space infection
- Parapharyngeal Space Tumours
- Benign and Malignant Tumour of Oropharynx
- Snoring and Sleep Apnea
- Laryngotracheal Trauma
- Acute and Chronic Laryngitis
- Congenital lesions of Larynx
- Laryngeal Paralysis and Management
- Benign and Malignant Tumours of Larynx
- Adenoidectomy and Tonsillectomy
- Surgical Procedures of Larynx
- Deep Neck Space Infections
- Voice and Speech Disorders
- Tracheostomy and Airway Management
- Foreign body Airway and Management
- Dysphagia and Management
- Benign and Malignant Lesions of Esophagus
- Diseases of Esophagus
- Foreign Body Esophagus and Management
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## Benign and Malignant Diseases of Thyroid

- Surgeries related to Thyroid

## Benign and Malignant diseases of Salivary Glands

- Surgeries of Salivary Glands.

## Ward Teaching Schedule (Topics)

Day	Topic Covered
1.	History taking
2.	Anatomy of EAR
3.	Anatomy of Nose
4.	Anatomy of Throat
5.	Examination of Ear
6.	Examination of Nose
7.	Examination of NECK, Oral Cavity Neck Swelling
8.	Diseases of External Ear
9.	ASOM + OME
10.	CSOM & complication
11.	Otosclerosis
12.	Meniere's Disease
13.	Mastoidectomy
14.	Acute And Chronic CRS
15.	Nasal Polyposis
16.	Epistaxis
17.	Septal Hematoma and Abscess and Septoplasty
18.	Malignancy of Nose and PNS
19.	Acute and Ch. Tonsillitis + Tonsillectomy
20.	Quinsy and Ludwig Angina+ Neck Abscess
21.	Tracheostomy
22.	CA Larynx
23.	Instruments
24.	Ward Test

### Teaching Resources Available in Ward

- ENT OPD Classroom
- White boards
- Projectors
- ENT Instruments Museums
- KEMU Library
- Instruments

## Weekly Ward Teaching Roster

Duration: 4 Weeks

Monday	ENT Ward
Tuesday	OPD
Wednesday	OPD
Thursday	ENT Ward
Friday	OPD
Saturday	Operation Theater