

SANKALCHAND PATEL UNIVERSITY

**FACULTY OF OTORHINOLARYNGOLOGY (ENT)
BACHELOR OF MEDICINE AND BACHELOR OF SURGERY
(M.B.B.S.)**



OTORHINOLARYNGOLOGY (ENT)

CURRICULUM / SYLLABUS & ASSESSMENT

**(AS PER COMPETENCY BASED MEDICAL EDUCATION CURRICULUM FOR THE
INDIAN MEDICAL GRADUATE-2024, NATIONAL MEDICAL COMMISSION)**

(In force for students admitted in year (2024-25) and thereafter)

Teaching & Evaluation Scheme for Faculty of Medicine

Semester/Year: Third Year M.B.B.S. Part-I
Program Name: Bachelor of Medicine and Bachelor of Surgery
Effective from Academic Year: 2024-2025
Program Code: MB01

Course Code	Subject Name	Hrs/Week			UA		IA		Total	
		L	P	Total	Max	Min	Max	Min	Max	Min
2EN301	Otorhinolaryngology	2	-	2	100	40	-	-	100	100
2EN302	Otorhinolaryngology Practical	-	18	18	100	40	-	-	100	
2EN303	Otorhinolaryngology IA Theory	-	-	-	-	-	100	40	200	100
2EN304	Otorhinolaryngology IA Practical	-	-	-	-	-	100	40		

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OTORHINOLARYNGOLOGY (ENT)

COURSE CONTENT

PREAMBLE

The broad goal of the teaching of undergraduate students in Otorhinolaryngology is to equip them with the knowledge, skills, and attitudes necessary for diagnosis and management of common ENT disorders and emergencies. By bridging the gap between clinical practice and medical Otorhinolaryngology (ENT) plays a key role in advancing healthcare and improving patient outcomes.

Medical Otorhinolaryngology (ENT) is crucial for understanding:

- **Disease Mechanisms:** How ENT abnormalities contribute to the development and progression of diseases.
- **Diagnosis:** The use of clinical examination, radiological, audiological test to identify and diagnose diseases.
- **Treatment:** Provide best treatment for ENT diseases with use of advanced technique and instruments.

Goal:

The learner after teaching learning in Otorhinolaryngology (ENT) should be able to:

1. Demonstrate understanding of the anatomy and physiology of the ear, nose, throat, and related structures.
2. Describe the etiology, clinical features, complications, and management of common ENT diseases.
3. Perform clinical examination and basic diagnostic procedures in ENT.
4. Recognize and manage common ENT emergencies.
5. Demonstrate communication skills and empathy in managing ENT patients.

Summary of Time Allotted, Teaching and Learning Methods

Curricularcomponent	Time allotted in hours
Lectures	15
Small group teaching / tutorials / integrated learning / practical	32
Self-directedlearning	15
AETCOM	05
Clinical Posting	72
Total	139

OTORHINOLARYNGOLOGY (ENT) SYLLABUS

(WITH NMC COMPETENCY NUMBER, AS PER COMPETENCY BASED MEDICAL
EDUCATION CURRICULUM

FORTHE INDIAN MEDICAL GRADUATE-2024, NATIONAL MEDICAL COMMISSION)

Number	COMPETENCY The student should be able to
Topic 1: Anatomy and Physiology of ear, nose, throat, head & neck	
EN1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck.
EN1.2	Describe the pathophysiology of common diseases in ENT like Chronic Otitis Media, Otosclerosis, Adeno tonsillitis, Nasal polyposis.
Topic2: Clinical Skills	
EN 2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint
EN 2.2	Demonstrate the correct use of conventional methods including head lamp in the examination of ear, nose and throat, the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum, examination of the throat including the use of a tongue depressor, examination of neck including elicitation of laryngeal crepitus.
EN 2.3	Demonstrate the correct technique of examination of the ear including Otoscopy and demonstrate the correct technique of performance and interpretation of tuning fork tests.
EN 2.4	Describe the correct technique to perform and interpret pure tone audiogram & impedance audiogram
EN 2.5	Demonstrate the correct technique of otoscopy, to hold visualize and assess the mobility of the tympanic membrane, interpret and diagrammatically represent the findings.
EN 2.6	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders
EN 2.7	Identify and describe the use of common instruments used in ENT surgery. Nose: FESS, Septoplasty, Nasal Bone Reduction Ear Tympanoplasty, mastoidectomy, Myringotomy Throat: Adenotonsillectomy, Foreign Body Removal from Airway and

	Food passage, Tracheostomy
EN 2.8	Enumerate suspect high-risk patients and risk factors associated with and identify by clinical examination malignant & pre- malignant Ent diseases
EN 2.9	Counsel and administer informed consent to patients and their families in a simulated environment for Ear: Tympanoplasty, mastoidectomy, Myringotomy Nose: FESS, Septoplasty, Nasal Bone Reduction Throat: Adenotonsillectomy, Foreign Body Removal from Airway and Food passage, Tracheostomy.
EN 2.10	Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat, upper respiratory tract and food passages).
EN 2.11	Demonstrate the correct technique to instill topical medications into the ear, nose and throat in a simulated environment.
EN 2.12	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution and participate actively in deafness week and world hearing day
Topic 3: Diagnostic and Therapeutic competencies in ENT	
EN 3.1	Observe and describe the indications for and steps involved in the performance of Oto-microscopic examination.
EN 3.2	Observe and describe the indications for and steps involved in the performance of Diagnostic Nasal Endoscopy.
EN 3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy
Topic 4: Management of Diseases of Ear, nose and throat	
EN 4.1	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otalgia.
EN 4.2	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear.
EN 4.3	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of ASOM
EN 4.4	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of OME
EN 4.5	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ear discharge.
EN 4.6	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of mucosal type of CSOM.

EN 4.7	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM.
EN 4.8	Describe the clinical features, choose the correct investigations and the principles of management of complications of CSOM.
EN 4.9	Demonstrate the correct technique for wax removal from the ear in a simulated environment
EN 4.10	Observe and describe the indications for and steps involved in myringotomy and tympanoplasty
EN 4.11	Observe and describe the indications for and steps involved in myringotomy and tympanoplasty
EN 4.12	Describe the clinical features, investigations and principles of management of Acoustic neuroma
EN 4.13	Describe the clinical features, investigations and principles of management of Otosclerosis
EN 4.14	Describe the clinical features, investigations, and principles of management of Conductive Hearing Loss and Sensorineural hearing loss including Sudden Sensorineural Hearing Loss and Noise Induced Hearing Loss.
EN 4.15	Describe the anatomy of eustachian tube and discuss the clinical features, investigations, and management of Eustachian tube disorders.
EN 4.16	Describe the clinical features, investigations, and principles of management of Facial Nerve palsy
EN 4.17	Describe the clinical features, investigations and management of Vertigo and assessment of vestibular functions.
EN 4.18	Describe the clinical features, investigations, and principles of management of Meniere's Disease
EN 4.19	Describe the clinical features, investigations, and management of Tinnitus.
EN 4.20	Describe the clinical features, investigations, and management of Deaf child.
EN 4.21	Elicit document and present a correct history demonstrate and describe the Causes, choose the correct investigations and describe the principles of management of Nasal Obstruction.
EN 4.22	Describe the clinical features, investigations and management of DNS and observe and discuss the indications for the steps in septoplasty.
EN 4.23	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids
EN 4.24	Elicit document and present a correct history, describe the clinical

	features, choose the correct investigations and describe the principles of management of Allergic Rhinitis
EN 4.25	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Vasomotor Rhinitis
EN 4.26	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Rhinitis
EN 4.27	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps
EN 4.28	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Epistaxis
EN 4.29	Describe the clinical features, choose the correct investigations and describe the principles of management of OBSTRUCTIVE SLEEP APNEA.
EN 4.30	Describe the clinical features, investigations and principles of management of Head and Neck trauma.
EN 4.31	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma
EN 4.32	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Sinusitis and its Complications
EN 4.33	Describe the clinical features, investigations and principles of management of Tumours of Nose, Nasopharynx and para nasal sinus
EN 4.34	Describe the clinical features, investigation and management of granulomatous diseases of nose
EN 4.35	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands
EN 4.36	Describe the clinical features, investigations and principles of management of Deep Neck space Infection
EN 4.37	Elicit document and present a correct history describe the clinical features, choose the correct investigations and describe the principles of management of dysphagia
EN 4.38	Elicit document and present a correct history, describe the clinical features, choose the correct investigations , complications and describe the principles of management of Acute & Chronic Tonsillitis
EN 4.39	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy and its complications
EN 4.40	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles

	of management of hoarseness of voice
EN 4.41	Describe the clinical features, investigations and principles of management of Benign lesion of larynx, Acute & Chronic inflammation of larynx, laryngeal paralysis.
EN 4.42	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx.
EN 4.43	Describe the clinical features, investigations and principles of management of Stridor
EN 4.44	Observe and describe the indications for and steps involved in tracheostomy and the care of the patient with a tracheostomy
EN 4.45	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus
EN 4.46	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT

ASSESSMENT

Attendance

There shall be a minimum of 75% attendance in theory and 80% attendance in practical /clinical for eligibility to appear for the examinations in that subject.

InternalAssessment

Scheme for calculation of internal assessment marks:

Theory(maximum marks)	Marks	Practical (Maximum Marks)	Marks
1 st Internal Examination	40	1 st Internal Examination	40
Preliminary Examination	40	Preliminary Examination	40
Day to day assessment, Seminar, Project, SDL, Group discussion & Others	20	Daytoday assessment, Seminar,Project,SDL,Group discussion & Others	20
Total	100	Total	100

- Internal assessment should be based on competencies and skills.
- A candidate must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in a particular subject in order to be eligible for appearing at the final University examination of that subject.
- Day to day records and log book (including required skill certifications) should be given importance in internal assessment. Internal assessment should be based on competencies and skills.
- Level of participation in self directed learning, assignments, seminars, clinical case presentation, project work will be assessed and importance will be given in internal assessment.
- Internal assessment marks will not be added to University examination marks and will reflect as a separate head of passing at the summative examination.

- The results of internal assessment should be displayed on the notice board within 1-2 weeks of the test.
- The internal and formative assessments provide ideal opportunities for students and teachers to identify learning gaps. Teachers should provide high quality feedback to each student to enable them to bridge these learning gaps.
- Formative assessments also enable the early identification of students who are struggling to achieve the intended learning outcomes. Early and appropriate targeted remediation must be planned for such students.

University Assessment

- University examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary knowledge, minimal level of skills, ethical and professional values with clear concepts of the fundamentals which are necessary for him to function effectively and appropriately as a physician of the first contact.
- Nature of questions in theory examinations shall include different types such as structured essays like Long-Answer Questions (LAQ), Short-Answer Questions (SAQ) and Multiple-Choice Questions (MCQ) shall be accorded minimum 20% weightage of the total marks of each theory paper, Scenario based MCQs shall be accorded more weightage in view of NEXT.
- Practical/clinical examinations shall be conducted in the laboratories and /or hospital wards and a blueprint must be used. The objective will be to assess proficiency and skills to conduct experiments, interpret data and form logical conclusion. Clinical cases kept in the examination must be common conditions that the learner may encounter as a physician of first contact in the community.
- Application based questions should be included for newer CBME components like foundation course, ECE, AETCOM, Integrated topics, student-learner methods etc. in all theory, practical and clinical examinations of all internal assessments and university Assessment.
- Criteria for passing in a subject: A candidate shall obtain a cumulative 50% marks in University conducted examination including theory and practical and not less than 40% separately in Theory and in Practical in order to be declared as passed in that subject. In subjects that have two papers, the learner must secure a minimum 40% marks in aggregate (both theory papers together).

THEORY EXAMINATION PATTERN

There shall be one theory papers of 100 marks and duration of each paper will be of 3 hours.

SECTION – A

Q.1	Answer the following Structured/Case based long questions. (Any 1 out of 2)	1×10=10
Q.2	Answer the following short questions. (Any 6 out of 7) (One Question on AETCOM is Compulsory)	6×5=30
Q.3	Answer the following short questions in one or two sentences. (Any 5 out of 6)	5×2=10

SECTION – B

Q.4	Answer the following Structured/Case based long questions. (Any 1 out of 2)	1×10=10
Q.5	Answer the following short questions. (Any 6 out of 7)	6×5=30
Q.6	Answer following MCQ's Multiple Choice Questions (Total 10 MCQs of one mark each) Write the question number and appropriate single option in the given separate answer sheet. Students will not be allotted marks if he/she overwrites, strikes or puts white ink on the answer once written.	10×1=10

PRACTICAL EXAMINATION PATTERN:100 Marks

No	Type of exercise	Marks
1.	Major (Case Based) Exercise and Table viva	60
2.	Table Viva	40
	Total	100

LIST OF RECOMMENDED BOOKS

Textbook	Title	Author
Theory Manual	Disease of Ear, Nose and Throat & Head and Neck Surgery	PL Dhingra Shruti Dhingra
	Disease of Ear, Nose and Throat	Mohan Bansal
Practical Manual	Practical ENT	Vikas Sinha