

अखिल भारतीय आयुर्विज्ञान संस्थान, नागपुर
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR

“Educate and Explore with Empathy”



DEPARTMENT OF ENT

UNDER GRADUATE TEACHING

CURRICULUM

2020



OTORHINOLARYNGOLOGY

CURRICULUM FOR 2018 BATCH UNDER GRADUATE PROGRAMME

During under graduate course, the students should learn the principles of examination and management of common Ear, Nose and throat diseases and acquire adequate skills to manage common diseases like CSOM, tonsillitis, common emergencies like upper airway obstruction and peritonsillar abscess and be able to refer the complicated cases to an appropriate specialist.

OBJECTIVES

At the end of the otorhinolaryngology posting, the student shall be able to:

1. Examine and diagnosis common ear, nose, and throat problems.
2. Suggest common investigative procedures and their interpretation to diagnose and manage the patient.
3. Treat the common ear, nose, throat and neck problem at primary care centre, while treating the patient. He should know the rational use of commonly used design with their adverse effects.
4. Train to perform various minor surgical procedures like ear syringing nasal packing and biopsy procedure.
5. Assist common surgical procedures such as tonsillectomy, mastoidectomy, septoplasty, tracheostomy and endoscopic removal of foreign bodies.
6. Have awareness of Preventive otology and head & neck cancer for public guidance.

Clinical Training:

The students would be posted in the ENT department (OPD and Ward) for a total period of 2 months (4 weeks in 6th semester and 4 weeks in 7th semester) on rotation basis . Here they would learn the basic ENT examination, become familiarized with diagnosing the common ENT diseases and learning the elementary management, including communication skills.

The clinical training would consist of

- 1) Two classes on introduction to the clinical aspects of ENT including proper Ear , Nose and throat examination
- 2) Bed side teaching and case discussion on common ENT conditions like CSOM, Deviated Nasal septum, Nasal polyps, Cancer larynx etc
- 3) Orientation to commonly used ENT instruments and X-Rays in ENT practice
- 4) Exposure to commonly done OPD procedures like nasal packing , ear packing, cautery etc
- 5) Exposure to selective operative procedures like tracheostomy, tonsillectomy , septoplasty, Nasal polypectomy etc
- 6) Preventive Otology and head & neck cancer.

Theory

The formal lecture schedule for the MBBS students would be held in the 6th and 7th semesters (13 lectures in 6th semester and 12 lectures in 7th semester) and would consists of 1 hour lecture per week (total 25 lecture hours). Total 40 tutorial hours will be conducted as 1 hour tutorial class per week. Tutorials will be conducted in 8th semester (20 tutorials) and 9th semester (20 tutorials).

COURSE CONTENT

Nose

Deviated nasal septum, nasal polypi, angiofibroma. Tumours both benign and malignant, chronic granulomatous disease of Nose like rhinospondiosis and atrophic rhinitis.

Oral cavity and oropharynx

Tonsillitis, leukoplakia, carcinoma aphthous ulcers, pharyngitis, peritonsillar abscess, candidiasis.

Ear

Perichondritis, cox, otitis externa, secretary, otitis media, acute suppurative otitis media, chronic suppurative otitis media (safe and unsafe), benign and malignant tumors of ear,

Larynx:

vocal cord nodule, vocal polyp, carcinoma, vocal cord palsy.

Hypopharynx :

Benign and malignant disease.

Neck :

Lymphadenitis, metastatic neck benign and malignant tumors of neck, branchial sinus, parotid tumors, salivary gland tumors.

Emergencies :

Respiratory obstruction foreign bodies in nose, ear, throat, tracheobronchial tree and esophagus nasal bleeding, trauma to neck.

Operative Procedures

- Tonsillectomy
- Adenoidectomy
- Septoplasty
- Caldwell-Luc operation
- Myringoplasty
- Modified radical mastoidectomy
- Radical mastoidectomy
- Biopsy for diagnosis of carcinoma of tongue, etc
- Direct laryngoscopy
- Neck node biopsy

Syllabus for 6th semester (13 Lecture Hours)

1. Introduction to Ear, Nose, Throat and Head & Neck Surgery.
2. Acute and chronic Rhino sinusitis, Nasal polyp, fungal disease of Nose.
3. Secretory Otitis Media, Acute suppurative otitis media. Acute mastoiditis and its treatment.
4. Classification of CSOM, pathogenesis of cholesteatoma. Conservative management of CSOM, underlying principles of myringoplasty, ossiculoplasty, tympanoplasty, radical and modified mastoidectomy.
5. Complications of CSOM and their management.
6. Otospongiosis, tympanosclerosis, adhesive otitis media. Prevention of deafness. Voice and speech disorders including stammering.

7. Epistaxis: causes and management. Principles of management in maxillofacial trauma. Maxillary and Nasal bone fractures. CSF Rhinorrhoea.
8. Lesions of the nasal septum-perforation, haematoma, DNS, nasal deformities and their management, including rhinoplasty, choanal atresia.
9. Benign and malignant tumours of the maxilla – diagnosis and management. Differential diagnosis and management of a maxillary swelling and of a mass in the nasal cavity.

Syllabus for 7th Semester (12 Lecture Hours)

1. Causes of facial paralysis and their management. Tumours of temporal bone acoustic neuroma, glomus Jugulare.
- 2 Clinical evaluation of vertigo
3. Rhinitis, rhinosporidiosis rhinoscleroma, midline granuloma, Wegener's granulomatosis, leprosy and tuberculosis of nose.
4. Anatomy of neck spaces. Tumours and infections of retropharyngeal space and parapharyngeal spaces. Ludwig's angina. Neurological disorders of the larynx.

SUGGESTED BOOKS

Text Books:

- 1) Logan Turner: Text Book of ENT.
- 2) P.L Dhingra: Text book of ENT.
- 3) K B Bhargava: A Short Book of ENT Diseases.

Reference:

- 1) Scott Brown's Otolaryngology Head and Neck Surgery

ASSESSMENT AND EXAMINATION

1) Formative:

First internal theory in 6th semester, 2nd internal theory in 8th semester

THEORY 15 Marks
5 Short Answer Questions (SAQ) Of 3 Marks each

CLINICALS 20 Marks
1 Short Case

Prelims (Pre-Professional Exam)

THEORY 20 Marks (in part B of General Surgery Paper II)
1 Structured LAQ of 10 marks + 5 SAQs of 2 marks each

CLINICALS 15 Marks
1 Short Case

- Average of 2 theory internal assessments (for 15 marks) and 2 clinical internal assessments (for 20 marks) will be submitted to department of General Surgery to calculate eligibility to attend professional exam (minimum 50% in each essential for eligibility).

2) Summative:

THEORY 20 Marks (in part B of General Surgery Paper II)
1 LAQ of 10 marks + 5 SAQs of 2 marks each

CLINICALS 15 Marks
1 Short Case

- Also,

10 marks for viva

will be in ENT as part of General Surgery Viva Voce, which will be added to practical marks.

LECTURE PLAN

WEEK NO	LECTURE (13 lectures in 6 th semester, 12 lectures in 7 th semester) total= 25	TUTORIAL (20 tutorials in 8 th semester, 20 tutorials in 9 th semester) total=40	CLINICAL POSTING (4 weeks in 6 th semester, 4 weeks in 7 th semester) total= 8 weeks
1	<p>EN 1.1 Describe the Anatomy of ear,</p> <p>AN 40.1 Describe & identify the parts, blood supply and nerve supply of external ear</p> <p>AN 40.2 Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube</p> <p>AN 40.3 Describe the features of internal ear</p>	<p>AN 40.1 Describe & identify the parts, blood supply and nerve supply of external ear</p> <p>AN 40.2 Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube</p>	<p>EN 2.1 Elicit document and present an appropriate history in a patient presenting with an ENT complaint</p>
2	<p>EN 1.2 Describe pathophysiology of common diseases of ENT</p> <p>EN 4.3 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM</p> <p>AN 40.4 Explain anatomical basis of otitis externa and otitis media</p> <p>PE 28.4 Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)</p>	<p>AN 40.3 Describe the features of internal ear</p> <p>EN 1.1 Describe and discuss functional anatomy of ear and auditory pathways</p> <p>PY10.15 Physiology of hearing</p>	<p>EN 2.2 Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat</p> <p>EN 2.3 Demonstrate the correct technique of examination of the ear including Otoscopy</p> <p>PE 28.10 Perform otoscopic examination of the ear</p> <p>EN 4.4 Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings</p> <p>EN 2.4 Demonstrate the correct technique of performance and interpret tuning fork tests</p>
3	<p>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 Discharging ear</p> <p>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</p>	<p>PY 10.16 Describe and discuss pathophysiology of deafness. Describe hearing tests</p> <p>Assessment of Vestibular function</p>	<p>EN 2.5 Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum</p> <p>PE 28.12 Perform examination of the nose</p>

	management of mucosal type of CSOM		
4	EN 4.8 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 4.2 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 Malignant Otitis Externa	Examination of Oral cavity, Throat and larynx
5	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 OME AN 40.5 Explain anatomical basis of myringotomy	EN 4.3 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM	EN 2.6 Demonstrate the correct technique of examining the throat including the use of a tongue depressor PE 28.11 Perform throat examination using tongue depressor
6	EN 4.13 Describe the clinical features, investigations and principles of management of Otosclerosis	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 mucosal type of CSOM	EN 2.7 Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus
7	EN 4.19 Describe the clinical features, investigations and principles of management of Vertigo EN4.20 Describe the clinical features, investigations and principles of management of Meniere's Disease	EN 4.8 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 2.8 Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram EN 4.16 Observe and describe the indications for and steps involved in the performance of pure tone audiometry EN4.17 Enumerate the indications and interpret the results of an audiogram
8	EN 4.12 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss IM 24.17 Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	Extracranial Complications Of CSOM Intracranial Complications Of CSOM	EN 2.9 Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders PE 28.17 Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management. Interpret CXR in foreign body aspiration and lower respiratory tract infection,

			understand the significance of thymic shadow in paediatric chest X-rays
9	EN 4.18 Describe the clinical features, investigations and principles of management of Facial Nerve palsy	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 Otagia EN4.21 Describe the clinical features, investigations and principles of management of Tinnitus	EN 2.11 Describe and identify by clinical examination malignant & pre-malignant ENT diseases DE4.3 Identify potential pre-cancerous /cancerous lesions
10	EN 1.1 Describe the Anatomy of nose & PNS AN37.1 Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply AN37.2 Describe location and functional anatomy of paranasal sinuses AN37.3 Describe anatomical basis of sinusitis & maxillary sinus tumours	EN4.14 Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss EN4.15 Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss	EN 2.12 Counsel and administer informed consent to patients and their families in a simulated environment
11	EN 4.31 Describe the clinical features, investigations and principles of management of trauma to the face & neck	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the children	EN 2.13 Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract)
12	EN 4.27 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Allergic Rhinitis PE 31.1 Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children PE 31.3 Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children	Tumours of Middle Ear & Internal Ear	EN 2.14 Demonstrate the correct technique to instilling topical medications into the ear, nose and throat in a simulated environment
13	EN 4.25 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps	EN 1.1 Describe the Anatomy of nose & PNS	EN 3.1 Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment
14	EN 4.22 Elicit document and present a correct history	PY 10.13 Describe and discuss perception of	EN 3.2 Observe and describe the

	demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Obstruction EN 4.23 Describe the clinical features, investigations and principles of management of DNS	smell and taste sensation	indications for and steps involved in the performance of diagnostic nasal Endoscopy
15	EN 4.30 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 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 Rhinitis	EN 3.3 Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy
16	EN 4.33 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	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 Vasomotor Rhinitis	EN 3.4 Observe and describe the indications for and steps involved in the removal of foreign bodies from ear, nose & throat
17	AN 36.1 Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and (2) composition of soft palate EN 4.39 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 Tonsillitis AN 36.4 Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peritonsillar abscess PE 28.2 Discuss the etio-pathogenesis of Pharyngo Tonsillitis PE 28.3 Discuss the clinical features and management of Pharyngo-Tonsillitis	EN 4.33 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	EN 3.5 Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat EN 4.24 Enumerate the indications observe and describe the steps in a Septoplasty EN 4.40 Observe and describe the indications for and steps involved in tonsillectomy / adenoidectomy EN 4.10 Observe and describe the indications for and steps involved in myringotomy and myringoplasty EN 4.11 Enumerate the indications describe the steps and observe a mastoidectomy
18	EN 4.41 Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx EN 4.37 Describe the clinical features, investigations and principles of management of Ludwig's angina	FESS: Indications, Procedure, Post-operative care, Complications	EN 3.6 Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat EN4.50 Observe and describe the indications for and steps involved in Tracheostomy

			EN4.51 Observe and describe the care of the patient with a tracheostomy
19	EN 4.32 Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma EN 4.35 Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx	EN 4.30 Elicit document and present a correct history, demonstrate and describe clinical features, choose the correct investigations and describe the principles of management of Epistaxis	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 Otagia
20	EN 1.1 Anatomy & Physiology of Larynx AN 38.1 Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx AN 36.3 Describe the boundaries and clinical significance of pyriform fossa	Atrophic Rhinitis Granulomatous conditions of Nose	EN 4.6 Elicit, document and present a correct history, demonstrate and describe the correct investigations and describe the principles of management of Discharging ear
21	AN 38.3 Describe anatomical basis of recurrent laryngeal nerve injury EN 4.42 Elicit, document and present a correct history, demonstrate and describe the clinical features, choose correct investigations and describe principle of management of hoarseness of voice EN 4.45 Describe the clinical features, investigations and principles of management of Vocal cord palsy	EN 4.34 Describe the clinical features, investigations and principles of management of Tumors of Maxilla	EN 4.9 Demonstrate the correct technique for syringing wax from the ear in a simulated environment
22	AN 38.2 Describe the anatomical aspects of laryngitis EN 4.43 Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis	EN 4.32 Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma	PY 10.20 Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/ simulated environment
23	EN 4.44 Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord	EN 4.35 Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx	DE 4.4 Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors
24	EN 4.46 Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx	DE 4.2 Discuss the role of etiological factors in the formation of precancerous/cancerous lesions	EN 2.10 Identify and describe the use of common instruments used in ENT surgery
25	EN 4.47 Describe the clinical features, investigations and principles of management of Stridor EN 4.48 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the	DE 4.1 Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity SU 20.1 Describe etiopathogenesis, symptoms	

	<p>correct investigations and describe the principles of management of Airway Emergencies</p> <p>EN 4.49 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages</p> <p>PE 28.7 Discuss the aetiology, clinical features and management of Stridor in children</p> <p>PE 28.8 Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children</p> <p>PE 28.9 Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor</p>	<p>and signs of oral cancer. Enumerate the appropriate investigations and discuss the principles of treatment</p>	
26		<p>EN 4.39 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 Tonsillitis</p> <p>AN 36.2 Describe the components and functions of Waldeyer's lymphatic ring</p> <p>EN 4.26 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</p> <p>PE 28.1 Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis</p>	
27		<p>EN 4.38 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia</p> <p>EN 4.52 Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus</p>	
28		<p>AN 36.5 Describe the clinical significance of Killian's dehiscence</p>	

		PE 14.2 Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion	
29		EN 4.36 Describe the clinical features, investigations and principles of management of diseases of the Salivary glands AN 39.2 Explain the anatomical basis of hypoglossal nerve palsy	
30		PE 28.5 Discuss the etio-pathogenesis, clinical features and management of Epiglottitis PE 28.6 Discuss the etio-pathogenesis, clinical features and management of Acute laryngo-trachea-bronchitis	
31		Laryngotracheal trauma	
32		EN 4.47 Describe the clinical features, investigations and principles of management of Stridor EN 4.48 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies	
33		Thyroid Neoplasm	
34		Parapharyngeal Tumours	
35		Sleep Apnoea Syndrome	
36		EN 4.53 Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	
37		Lasers in ENT	
38		Chemotherapy in Head & Neck Cancer Radiotherapy in Head & Neck Cancer	
39		Local Anaesthesia in ENT	
40		CM 3.1 Describe the health hazards of air, water, noise, radiation and pollution. EN2.15 Describe the national programs for prevention of deafness, cancer, noise &	

	environmental pollution
SELF DIRECTED LEARNING	
1	Chronic Suppurative Otitis Media
2	Deviated Nasal Septum
3	Tonsillitis
4	Epistaxis
5	Tracheostomy

Number of **Lecture** hours required: **25** (1 per week). 13 lectures in 6th semester + 12 Lectures in 7th semester.

Number of **Tutorial** hours required: **40** (1 per week) 20 tutorials in 8th semester + 20 tutorials in 9th semester

Number of hours of **Self Directed Learning** required: **5** (1 in each month in 7th semester)

Number of weeks of **Clinical Posting**: **8** (4 weeks in 6th semester, 4 weeks in 7th semester).

Department of ENT, AIIMS Nagpur
LIST OF TOPICS IN ENT REQUIRING INTEGRATION

Sr No	Topic	Horizontal integration	Vertical Integration	Phase
1	HIV manifestations of ENT disorders	General Medicine		Phase 3 Part 1
2	Physiology of Smell & Taste		Physiology	Phase 3 Part 1
3	Physiology of Hearing & Auditory pathway		Physiology	Phase 3 Part 1
4	Health Hazards Of Air, Noise Pollution And Radiation	Community Medicine		Phase 3 Part 1
5	Oral Cancer	Dentistry		Phase 3 Part 1
6	X-Rays in ENT	Radiodiagnosis		Phase 3 Part 1
7	Atopic dermatitis in children	Paediatrics		Phase 3 Part 1

LIST OF TOPICS IN ENT REQUIRING INTEGRATION

Sr No	Topic	Integration with department	Type of Integration	Phase
1	Anatomy of ear, nose, throat, head & neck	Anatomy	Vertical(Nesting)	Phase 3 Part 1
2	Pathophysiology of common diseases in ENT	Pathology	Vertical(Nesting)	Phase 3 Part 1
3	Anatomy of palatine tonsil and soft palate	Anatomy	Vertical(Nesting)	Phase 3 Part 1
4	Waldeyer's lymphatic ring	Anatomy	Vertical(Nesting)	Phase 3 Part 1
5	Anatomy of Pyriform fossa	Anatomy	Vertical(Nesting)	Phase 3 Part 1
6	Anatomy of Palatine Tonsil and Adenoid	Anatomy	Vertical(Nesting)	Phase 3 Part 1
7	Killian's dehiscence	Anatomy	Vertical(Nesting)	Phase 3 Part 1
8	Anatomy of Nasal Septum & Lateral wall of Nose	Anatomy	Vertical(Nesting)	Phase 3 Part 1
9	Functional anatomy of Paranasal Sinuses	Anatomy	Vertical(Nesting)	Phase 3 Part 1
10	Anatomy of Larynx	Anatomy	Vertical(Nesting)	Phase 3 Part 1
11	Anatomy of Recurrent Laryngeal Nerve	Anatomy	Vertical(Nesting)	Phase 3 Part 1
12	Anatomy of Hypoglossal nerve	Anatomy	Vertical(Nesting)	Phase 3 Part 1
13	Anatomy of External ear	Anatomy	Vertical(Nesting)	Phase 3 Part 1
14	Anatomy of Middle Ear and Eustacian tube	Anatomy	Vertical(Nesting)	Phase 3 Part 1
15	Anatomy of Internal ear	Anatomy	Vertical(Nesting)	Phase 3 Part 1
16	Anatomy of Tympanic Membrane	Anatomy	Vertical(Nesting)	Phase 3 Part 1
17	Pathophysiology Of Deafness	Physiology	Vertical(Nesting)	Phase 3 Part 1
18	Precancerous Lesions	Dentistry	Horizontal(Nesting)	Phase 3 Part 1
19	Rehabilitation Of Hearing loss in the elderly	General Medicine	Horizontal(Nesting)	Phase 3 Part 1
20	Etio-pathogenesis and Management of Pharyngo Tonsillitis	Paediatrics	Vertical(Nesting)	Phase 3 Part 1
21	Acute Otitis Media	Paediatrics	Vertical(Nesting)	Phase 3 Part 1
22	Epiglottitis	Paediatrics	Vertical(Nesting)	Phase 3 Part 1
23	Acute laryngo- trachea-bronchitis	Paediatrics	Vertical(Nesting)	Phase 3 Part 1
24	Foreign body aspiration in infants and children	Paediatrics	Vertical(Nesting)	Phase 3 Part 1
25	Pharyngeal Cancer	General Surgery	Vertical(Nesting)	Phase 3 Part 1

AETCOM Learning module for professional year III- The foundation of communication-4

Module: **3.3**

Topic: **Principles of communication and informed consent**

Total duration assigned: 5 hrs.

Name and No. of Module	Resource person from department	Competency addressed	Duration assigned & teaching/learning method	Objectives
Module 3.3 The foundation of communication-4	Dr Vijay Bidkar	Principles of communication and informed consent	01 hr 40 min didactic lecture 20 min small group sessions on case scenarios	To understand basis of communication between health care provider and patient To define and describe informed consent. To comprehend scope of informed consent To enumerate and briefly describe elements of informed consent To discuss special concern like Adequacy of Informed Consent Exceptions to Informed Consent Children and Informed Consent To comprehend various clinical significance for informed consent
		Small group session with role play or video presentation by various department	02 hrs. 30 min 30 minutes each divided as- 15 minutes act/play, 15 min discussion inclusive of formative assessment by MCQ	Microbiology- ICTC Surgery- head injury & poly trauma Psychiatry- Functional disorder Ophthalmology- Eye donation Radiology- PCPNDT act ENT- for DNE (Played by student & supervised by facilitators of respective department)
		Skill lab sessions to perform hands on informed consent administration for various conditions	1 hr 30 min inclusive of summative assessment by MCQ	To administer informed consent by students to dummy patients for different case scenario.

SPECIFIC LEARNING OBJECTIVES OF COMPETENCIES IN ENT FOR CBME BASED UNDERGRADUATE TEACHING

Sl No	Code	Competency	SLO
1	EN1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck.	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Draw well labeled diagram of medial wall of middle ear correctly. 2. Describe physiology of hearing accurately. 3. Describe physiology of vestibular system correctly. 4. Describe anatomy of nasal cavity with well labeled diagram correctly. 5. enumerate functions of the nose and describe physiology of respiration correctly 6. describe anatomy of tonsils and adenoid correctly 7. describe waldayer's ring with well labeled diagram correctly 8. describe deep neck spaces with well labeled diagram correctly
2	EN1.2	Describe the pathophysiology of common diseases in ENT	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe pathophysiology of ASOM in stage wise manner correctly. 2. Describe pathophysiology of CSOM correctly 3. Describe pathophysiology of Rhinosinusitis correctly 4. Describe pathophysiology of nasal polyps correctly 5. Describe pathophysiology of allergic rhinitis correctly 6. Describe pathophysiology of oral malignancy correctly 7. Describe pathophysiology of tonsillitis correctly 8. Describe pathophysiology of tumors of nasopharynx like

			angiofibroma and carcinoma of nasopharynx correctly
3	EN2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Correctly gather the important information that is needed for history taking in the common ENT diseases. 2. Document an appropriate history of patient presenting with common ENT diseases in correct format. 3. correctly answer all the routine questions that are involved in the taking history of common ENT diseases 4. Interpret why these questions are asked correctly.
4	EN2.2	Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe different parts of Bull's lamp correctly 2. know the proper position of headlight correctly 3. know the proper position of patient in relation to examiner correctly 4. demonstrate proper focusing of headlight on desired area of examination correctly
5	EN2.3	Demonstrate the correct technique of examination of the ear including Otoscopy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Demonstrate correct method of insertion of ear speculum into ear canal. 2. Describe different parts of otoscope correctly. 3. Demonstrate correct method of insertion of otoscope into ear canal. 4. demonstrate correct method of eliciting mastoid tenderness and tragal tenderness 5. 5) draw well labeled diagram of tympanic membrane correctly

6	EN2.4	Demonstrate the correct technique of performance and interpret tuning fork tests	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe different parts of tuning fork correctly 2. Describe different types and frequencies of tuning fork correctly. 3. Demonstrate correct method of holding and striking of tuning fork. 4. Demonstrate correctly Rinne test, Weber test and Absolute bone conduction test. 5. Interpret tuning fork test findings in conductive, mixed and sensorineural hearing loss correctly.
7	EN2.5	Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the correct technique of examination of the nose using nasal speculum. 2. Demonstrate the correct technique of eliciting different paranasal sinus tenderness. 3. Demonstrate the correct technique of posterior rhinoscopy 4. Draw well labeled diagram of anterior and posterior rhinoscopy findings correctly.
8	EN2.6	Demonstrate the correct technique of examining the throat including the use of a tongue depressor	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate correct technique of examination of oral cavity using tongue depressor 2. Demonstrate correct technique of indirect laryngoscopy. 3. Draw well labeled diagram of indirect laryngoscopy correctly.

9	EN2.7	Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe various triangles of neck correctly. 2. Describe lymphatic structure in neck correctly. 3. Demonstrate correct method of palpation of various lymph nodes in neck. 4. Describe various surgical landmarks in neck correctly. 5. Elicit laryngeal crepitus correctly
10	EN2.8	Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the correct technique to perform pure tone audiogram 2. Demonstrate the correct technique to perform impedance audiogram 3. interpret pure tone audiogram of conductive, mixed and sensorineural hearing loss correctly 4. interpret impedance audiogram findings in otosclerosis ,ETD and OME correctly
11	EN2.9	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. correctly Choose radiological, microbiological & histological investigations In CSOM, DNS, Sinusitis, adenoid enlargement, tonsillitis, allergic rhinitis, premalignant lesions of oral cavity, malignancy of head and neck region, foreign body of aero-digestive tract 2. correctly interpret and describe x-ray PNS, x-ray mastoid, x-ray neck and x-ray chest 3. correctly interpret and describe CT- PNS, HRCT Temporal bone, CT Larynx, CT- neck

12	EN2.10	Identify and describe the use of common instruments used in ENT KSHYDOAP session, Bedside Skill assessment y surgery clinic	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Identify correctly each common instruments used in ENT 2. Describe correctly at least 3 uses of each common instruments used in ENT 3. correctly describe method of holding instrument during surgery/examination 4. enumerate complications associated with improper use of instrument correctly
13	EN2.11	Describe and identify by clinical examination malignant & pre-malignant ENT diseases	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. correctly identify pre- malignant ENT diseases by clinical examination 2. describe clinical features of pre- malignant ENT diseases correctly 3. correctly identify malignancy of oral cavity, oropharynx, larynx and thyroid by clinical examination 4. describe clinical features of malignancy of oral cavity, oropharynx, larynx and thyroid correctly
14	EN2.12	Counsel and administer informed consent to patients and their families in a simulated environment	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. demonstrate counseling of patients and their families in a simulated environment correctly 2. demonstrate administration of informed consent in simulated environment correctly

15	EN2.13	Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract)	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. demonstrate steps of tracheostomy in correct sequence in a simulated environment 2. demonstrate steps of anterior nasal packing in correct sequence in a simulated environment 3. demonstrate correct method of removal of foreign bodies in ear, nose, throat and upper respiratory tract in simulated environment
16	EN2.14	Demonstrate the correct technique to instilling topical medications into the ear, nose and throat in a simulated environment	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the correct technique to instilling topical ear drops into the ear. 2. Demonstrate the correct technique to instilling topical nasal drops and nasal spray into the nose 3. Correctly instruct patient about proper technique of warm saline gargle and povidone iodine gargle
17	EN2.15	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the national programs for prevention of deafness correctly 2. Describe the national programs for prevention of cancer correctly 3. 3)Describe the national programs for prevention of deafness, cancer, noise & environmental pollution correctly

18	EN3.1	Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe the indications for Otomicroscopic examination correctly 2. describe steps involved in the performance of Otomicroscopic examination correctly 3. describe different parts of ENT microscope correctly
19	EN3.2	Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe at least 5 indications for diagnostic nasal Endoscopy correctly 2. describe steps involved in the performance of diagnostic nasal Endoscopy in correct sequence 3. Describe different parts of nasal endoscopy system correctly
20	EN3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe at least 4 indications for Rigid Laryngoscopy correctly 2. describe at least 4 indications for Flexible Laryngoscopy correctly 3. correctly describe steps involved in the performance of Rigid Laryngoscopy 4. correctly describe steps involved in the performance of flexible Laryngoscopy 5. Describe different parts of Rigid and Flexible Laryngoscopy system correctly

21	EN3.4	Observe and describe the indications for and steps involved in the removal of foreign bodies from ear nose & throat	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe commonly found foreign body in ear, nose and throat correctly 2. Describe different methods of foreign body removal from ear correctly 3. Describe different methods of foreign body removal from nose correctly 4. Describe different methods of foreign body removal from aerodigestive tract correctly
22	EN3.5	Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe indications, contraindications, operative steps , postoperative care and complications of tympanoplasty surgery correctly 2. describe indications, contraindications, operative steps , postoperative care and complications of cortical mastoidectomy surgery correctly 3. describe indications, contraindications, operative steps , postoperative care and complications of modified radical mastoidectomy surgery correctly 4. describe indications, contraindications, operative steps , postoperative care and complications of stapedectomy surgery correctly 5. describe indications, contraindications, operative steps , postoperative care and complications of endoscopic sinus surgery correctly 6. describe indications, contraindications, operative steps , postoperative care and complications of septoplasty surgery correctly 7. describe indications, contraindications, operative steps , postoperative care and complications of tonsillectomy surgery correctly 8. describe indications, contraindications, operative steps , postoperative care and complications of adenoid surgery correctly

			<p>9. describe indications, contraindications, operative steps , postoperative care and complications of rigid bronchoscopy correctly</p> <p>10. describe indications, contraindications, operative steps , postoperative care and complications of rigid esophagoscopy correctly</p>
23	EN3.6	Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. describe indications, contraindications, operative steps , postoperative care and complications of myringotomy correctly 2. describe indications, contraindications, operative steps , postoperative care and complications of tracheostomy correctly 3. describe operative steps , postoperative care of patient with epistaxis correctly 4. describe operative steps , postoperative care of patient with peritonsillar abscess correctly 5. describe operative steps , postoperative care of patient with nasal septal hematoma correctly 6. describe operative steps , postoperative care of patient with foreign body bronchus correctly 7. describe operative steps , postoperative care of patient with foreign body esophagus correctly
24	AN36.1	Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and(2)composition of soft palate	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe morphology, relations, blood supply of palatine tonsil with well labeled diagram correctly 2. Describe applied anatomy of palatine tonsil correctly 3. Describe composition of soft palate with well labeled diagram correctly

25	AN36.2	Describe the components and functions of waldeyer's lymphatic ring	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe the components waldeyer's lymphatic ring with well labeled diagram correctly 2. Describe functions of waldeyer's lymphatic ring correctly
26	AN36.3	Describe the boundaries and clinical significance of pyriform fossa	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe the boundaries of pyriform fossa with well labeled diagrams correctly 2. Describe clinical significance of pyriform fossa correctly
27	AN36.4	Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peritonsillar abscess	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe the anatomical basis of tonsillitis and tonsillectomy correctly 2. Describe anatomical basis of adenoid enlargement correctly 3. Describe anatomical basis of peritonsillar abscess correctly
28	AN36.5	Describe the clinical significance of Killian's dehiscence	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe the clinical significance of Killian's dehiscence correctly 2. Describe etiology, pathology, clinical features and management of Zenker's diverticulum correctly
29	AN37.1	Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe anatomy of nasal septum with well labeled diagram with their blood supply and nerve supply correctly 2. Describe anatomy of lateral wall of nose with well labeled diagram with their blood supply and nerve supply correctly

30	AN37.2	Describe location and functional anatomy of paranasal sinuses	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe functional anatomy of paranasal sinuses with well labeled diagram correctly 2. Draw well labeled diagram of osteo-meatal complex correctly
31	AN37.3	Describe anatomical basis of sinusitis & maxillary sinus tumours	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Describe anatomical basis of sinusitis correctly 2. Describe anatomical basis maxillary sinus tumors correctly
32	AN38.1	Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1. Anatomy of larynx with well labeled diagram correctly 2. Describe the morphology, identify structure of the walls of larynx correctly 3. Describe actions of intrinsic and extrinsic muscles of larynx correctly
33	AN38.2	Describe the anatomical aspects of laryngitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: 1) Describe the anatomical aspects of laryngitis correctly

34	AN38.3	Describe anatomical basis of recurrent laryngeal nerve injury	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe anatomy of both recurrent laryngeal nerve with well labeled diagram correctly 2. Describe anatomical basis of recurrent laryngeal nerve injury correctly
35	AN39.2	Explain the anatomical basis of hypoglossal nerve palsy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe anatomy of hypoglossal nerve with well labeled diagram correctly 2. 2) Explain the anatomical basis of hypoglossal nerve palsy correctly
36	AN40.1	Describe & identify the parts, blood supply and nerve supply of external ear	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe & identify the parts of external ear correctly 2. Describe anatomy of external ear with well labeled diagram correctly
37	AN40.2	Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe functional anatomy of middle ear and auditory tube with well labeled diagram correctly 2. Draw well labeled diagram of medial wall of middle ear correctly

38	PE31.1	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe the etio-pathogenesis of Allergic Rhinitis in Children correctly 2. Describe management of allergic rhinitis in children correctly 3. Describe preventive measures of allergic rhinitis in children correctly
39	PE31.3	Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1) Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children correctly
40	SU20.1	Describe etiopathogenesis of oral cancer, symptoms and signs of pharyngeal cancer. Enumerate the appropriate investigations and discuss the principles of treatment.	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of oral cancer correctly 2. Describe symptoms and signs of pharyngeal cancer correctly 3. Enumerate the appropriate investigations for oral and pharyngeal cancer correctly 4. describe the principles of treatment of oral and pharyngeal cancers correctly
41	EN4.1	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Otagia at the end of clinical posting in correct format 2. Document complete history of the patient with Otagia at the end of clinical posting in correct format 3. Present complete history of the patient with Otagia at the end

		principles of management of Otolgia	<p>of clinical posting in correct format</p> <ol style="list-style-type: none"> 4. Demonstrate the clinical features of patient with Otolgia at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Otolgia at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Otolgia at the end of teaching session in an accurate way 7. Describe the various modalities of management of Otolgia at the end of teaching session in an accurate way
42	EN4.2	Elicit and document 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	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Otitis externa at the end of clinical posting in correct format 2. Document complete history of the patient with Otitis externa at the end of clinical posting in correct format 3. Present complete history of the patient with Otitis externa at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Otitis externa at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Otitis externa at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with disease of external ear at the end of teaching session in an accurate way 7. Describe the various modalities of management of disease of external ear at the end of teaching session in an accurate way

43	EN4.3	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 Suppurative Otitis Media (ASOM)	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with ASOM at the end of clinical posting in correct format 2. Document complete history of the patient with ASOM at the end of clinical posting in correct format 3. Present complete history of the patient with ASOM at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with ASOM at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with ASOM at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with ASOM at the end of teaching session in an accurate way 7. Describe the various modalities of management of ASOM at the end of teaching session in an accurate way
44	EN4.4	Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the correct technique to visualize the tympanic membrane using head mirror at the end of clinical posting in correct manner 2. Draw diagram of normal Tympanic membrane at the end of clinical posting in correct manner 3. Diagrammatically represent the findings of tympanic membrane on examination, at the end of clinical posting, in correct manner 4. Demonstrate the correct technique to assess the mobility of the tympanic membrane using Siegel's speculum at the end of clinical posting in correct manner 5. Interpret the finding of siegelization at the end of clinical posting in correct manner
45	EN4.5	Elicit document and present a correct history, demonstrate and	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with OME at the end of

		describe the clinical features, choose the correct investigations and describe the principles of management of Otitis Media with effusion (OME)	<p>clinical posting in correct format</p> <ol style="list-style-type: none"> 2. Document complete history of the patient with OME at the end of clinical posting in correct format 3. Present complete history of the patient with OME at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with OME at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with OME at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with OME at the end of teaching session in an accurate way 7. Describe the various modalities of management of OME at the end of teaching session in an accurate way
46	EN4.6	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Discharging ear	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Discharging ear at the end of clinical posting in correct format 2. Document complete history of the patient with Discharging ear at the end of clinical posting in correct format 3. Present complete history of the patient with Discharging ear at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Discharging ear at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Discharging ear at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Discharging ear at the end of teaching session in an accurate way 7. Describe the various modalities of management of Discharging ear at the end of teaching session in an accurate way

47	EN4.7	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Chronic Suppurative Otitis Media (CSOM)	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with CSOM at the end of clinical posting in correct format 2. Document complete history of the patient with CSOM at the end of clinical posting in correct format 3. Present complete history of the patient with CSOM at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with CSOM at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with CSOM at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with CSOM at the end of teaching session in an accurate way 7. Describe the various modalities of management of CSOM at the end of teaching session in an accurate way
48	EN4.8	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	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Squamosal type of CSOM at the end of clinical posting in correct format 2. Document complete history of the patient with Squamosal type of CSOM at the end of clinical posting in correct format 3. Present complete history of the patient with Squamosal type of CSOM at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Squamosal type of CSOM at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Squamosal type of CSOM at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Squamosal type of CSOM at the end of teaching session in an accurate way 7. Describe the various modalities of management of Squamosal

			type of CSOM at the end of teaching session in an accurate way
49	EN4.9	Demonstrate the correct technique for syringing wax from the ear in a simulated environment	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: Demonstrate the correct technique for syringing wax from the ear in a simulated environment at the end of clinical posting.
50	EN4.10	Observe and describe the indications for and steps involved in myringotomy and myringoplasty	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Observe steps involved in myringotomy 2. Describe the correct indications for myringotomy 3. Describe the steps involved in myringotomy in correct manner 4. Observe steps involved in myringoplasty 5. Describe the correct indications for myringoplasty 6. Describe the steps involved in myringoplasty in correct manner

51	EN4.11	Enumerate the indications describe the steps and observe a mastoidectomy	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Observe steps involved in mastoidectomy 2. Enumerate the correct indications for mastoidectomy 3. Describe the steps involved in myringoplasty in correct manner
52	EN4.12	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Hearing loss at the end of clinical posting in correct format 2. Document complete history of the patient with Hearing loss at the end of clinical posting in correct format 3. Present complete history of the patient with Hearing loss at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Hearing loss at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Hearing loss at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Hearing loss at the end of teaching session in an accurate way 7. Describe the various modalities of management of Hearing loss at the end of teaching session in an accurate way

53	EN4.13	Describe the clinical features, investigations and principles of management of Otosclerosis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with Otosclerosis in correct manner 2. Enlist correct investigations for the management of patient with Otosclerosis in an accurate way 3. Describe the various modalities of management of Otosclerosis at the end of teaching session in an accurate way
54	EN4.14	Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with Sudden Sensorineural Hearing Loss in correct manner. 2. Enlist correct investigations for the management of patient with Sudden Sensorineural Hearing Loss in an accurate way. 3. Describe the various modalities of management of Sudden Sensorineural Hearing Loss at the end of teaching session in an accurate way.
55	EN4.15	Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with of Noise Induced Hearing Loss in correct manner 2. Enlist correct investigations for the management of patient with of Noise Induced Hearing Loss in an accurate way 3. Describe the various modalities of management of Noise Induced Hearing Loss at the end of teaching session in an accurate way

56	EN4.16	Observe and describe the indications for and steps involved in the performance of pure tone audiometry	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Observe steps involved in the performance of pure tone audiometry 2. Describe the correct indications of pure tone audiometry in an accurate way 3. Describe the steps involved in the performance of pure tone audiometry in an accurate way
57	EN4.17	Enumerate the indications and interpret the results of an audiogram	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate the correct indications of pure tone audiometry in an accurate way 2. Interpret the results of an audiogram in an accurate way
58	EN4.18	Describe the clinical features, investigations and principles of management of Facial Nerve palsy	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the functional anatomy of Facial Nerve in an accurate way 2. Describe the clinical features of the patient with Facial Nerve palsy in correct manner 3. Enlist correct investigations for the management of patient with Facial Nerve palsy 4. Describe the various modalities of management of patient with Facial Nerve palsy in an accurate way

59	EN4.19	Describe the clinical features, investigations and principles of management of Vertigo	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with Vertigo in correct manner 2. Enlist correct investigations for the management of patient with Vertigo 3. Describe the various modalities of management of patient with Vertigo in an accurate way
60	EN4.20	Describe the clinical features, investigations and principles of management of Meniere's Disease	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with Meniere's Disease in correct manner 2. Enlist correct investigations for the management of patient with Meniere's Disease 3. Describe the various modalities of management of patient with Meniere's Disease in an accurate way
61	EN4.21	Describe the clinical features, investigations and principles of management of Tinnitus	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with Tinnitus in correct manner 2. Enlist correct investigations for the management of patient with Tinnitus 3. Describe the various modalities of management of patient with Tinnitus in an accurate way

62	EN4.22	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Obstruction	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Nasal Obstruction at the end of clinical posting in correct format 2. Document complete history of the patient with Nasal Obstruction at the end of clinical posting in correct format 3. Present complete history of the patient with Nasal Obstruction at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Nasal Obstruction at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Nasal Obstruction at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Nasal Obstruction at the end of teaching session in an accurate way 7. Describe the various modalities of management of Nasal Obstruction at the end of teaching session in an accurate way
63	EN4.23	Describe the clinical features, investigations and principles of management of DNS	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the clinical features of the patient with DNS in correct manner 2. Enlist correct investigations for the management of patient with DNS 3. Describe the various modalities of management of patient with DNS in an accurate way

64	EN4.24	Enumerate the indications observe and describe the steps in Septoplasty	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Observe steps involved in Septoplasty 2. Describe the correct indications of Septoplasty 3. Describe the steps involved in the Septoplasty in an accurate way
65	EN4.25	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Elicit complete history of the patient with Nasal Polyps at the end of clinical posting in correct format 2. Document complete history of the patient with Nasal Polyps at the end of clinical posting in correct format 3. Present complete history of the patient with Nasal Polyps at the end of clinical posting in correct format 4. Demonstrate the clinical features of patient with Nasal Polyps at the end of clinical posting in appropriate manner on the patient or simulated environment 5. Describe the clinical features of patient with Nasal Polyps at the end of teaching session in accurate way 6. Enlist correct investigations for the management of patient with Nasal Polyps at the end of teaching session in an accurate way 7. Describe the various modalities of management of Nasal Polyps at the end of teaching session in an accurate way

66	AN40.3	Describe the features of internal ear	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate the various parts of internal ear in an accurate manner 2. Describe the anatomical features of Vestibule in an accurate manner 3. Describe the anatomical features of Cochlea in an accurate manner 4. Describe the anatomical features of Semicircular canals in an accurate manner 5. Describe the blood supply of internal ear in an accurate manner 6. Describe the nerve supply of internal ear in an accurate manner
67	AN40.4	Explain anatomical basis of otitis externa and otitis media	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate the various parts of External ear in an accurate manner 2. Describe the anatomical features of External ear in an accurate manner 3. Describe the blood supply of External ear in an accurate manner 4. Describe the nerve supply of External ear in an accurate manner 5. Describe the anatomical features of Middle ear in an accurate manner 6. Describe the blood supply of Middle ear in an accurate manner 7. Describe the nerve supply of Middle ear in an accurate manner 8. Describe the blood supply of Middle ear in an accurate manner 9. Describe the ventilation pathway of Middle ear in an accurate manner

68	AN40.5	Explain anatomical basis of myringotomy	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate the various parts of Tympanic membrane in an accurate manner 2. Describe the anatomical features of Tympanic membrane in an accurate manner 3. Draw diagram of normal Tympanic membrane in correct manner 4. Diagrammatically represent the findings of Otitis media in correct manner 5. Diagrammatically represent the site of myringotomy in correct manner
69	PY10.13	Describe and discuss perception of smell and taste sensation	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the olfactory pathway for perception of smell in an accurate manner 2. Discuss the physiology of perception of smell in an accurate manner 3. Describe the gustatory pathway for perception of taste sensation in an accurate manner 4. Discuss the physiology of perception of taste sensation in an accurate manner
70	PY10.15	Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the functional anatomy of ear in relation to hearing in an accurate manner 2. Describe the Auditory pathway for perception of sound in an accurate manner 3. Discuss the physiology of Hearing in an accurate manner

71	PY10.16	Describe and discuss pathophysiology of deafness. Describe hearing Tests	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe and discuss pathophysiology of deafness in an accurate manner 2. Enumerate the various hearing tests used to assess hearing 3. Discuss the Tuning fork tests in an accurate manner 4. Discuss Pure tone Audiometry in an accurate manner
72	PY10.20	Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/ simulated environment	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Demonstrate the Tuning fork tests in an correct manner in volunteer/ simulated environment 2. Demonstrate the test for Smell in correct manner in volunteer/ simulated environment 3. Demonstrate the test for Taste sensation in correct manner in volunteer/ simulated environment
73	CM3.1	Describe the health hazards of air, water, noise, radiation and pollution.	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe the various health hazards of air pollution in relation to ENT in an accurate manner 2. Describe the various methods of prevention of health hazards of air pollution in relation to ENT in an accurate manner 3. Describe the various health hazards of water pollution in relation to ENT in an accurate manner 4. Describe the various methods of prevention of health hazards of water pollution in relation to ENT in an accurate manner 5. Describe the various health hazards of Noise pollution in relation to ENT in an accurate manner 6. Describe the various methods of prevention of health hazards of Noise pollution in relation to ENT in an accurate manner 7. Describe the various health hazards of Radiation in relation to ENT in an accurate manner

			8. Describe the various methods of prevention of health hazards of Radiation in relation to ENT in an accurate manner
74	DE 4.1	Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Discuss the prevalence of oral cancer in India and also mention the prevalence of oral cancer in Vidarbha in an accurate manner 2. Enumerate the common types of cancer that can affect tissues of the oral cavity in an accurate manner
75	DE 4.2	Discuss the role of etiological factors in the formation of precancerous /cancerous lesions	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enlist the etiological factors in the formation of precancerous /cancerous lesions in Oral cavity in an accurate manner 2. Discuss the role of etiological factors in the formation of precancerous /cancerous lesions in Oral cavity in an accurate manner
76	DE 4.4	Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Counsel patients about the risks of oral cancer with respect to tobacco in appropriate manner 2. Counsel patients about the risks of oral cancer with respect to smoking in appropriate manner 3. Counsel patients about the risks of oral cancer with respect to alcohol and other causative factors in appropriate manner

77	IM24.17	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe the etiopathogenesis of hearing loss in the elderly in an accurate manner 2. Discuss the clinical presentation of patients with Hearing loss in an accurate manner 3. Describe how to identify patients with hearing loss in an accurate manner 4. Describe the functional changes in patients with Hearing loss in an accurate manner 5. Describe the acute care required for patients with Hearing loss in an accurate manner 6. Describe how to stabilize patients with hearing loss in an accurate manner 7. Describe the management of hearing loss in the elderly in an accurate way 8. Describe the various modalities of rehabilitation of hearing loss in the elderly in an accurate way
78	PE14.2	Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Discuss the risk factors for Kerosene ingestion in an accurate manner 2. Describe the role of clinical features of Kerosene ingestion in an accurate manner 3. Discuss the diagnosis of Kerosene ingestion in an accurate manner 4. Describe the management of patients of Kerosene ingestion an accurate way

79	PE28.1	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Discuss the etio-pathogenesis of Naso pharyngitis in children in an accurate way 2. Describe the clinical features of Naso pharyngitis in children in an accurate way 3. Describe the management of Naso pharyngitis in children in an accurate way
80	4.26	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 Adenoids	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate different symptoms patient of enlarged adenoids presents to ENT surgeon precisely. 2. Describe features of adenoid facies rightly. 3. Enlist signs in patients with adenoid enlargement accurately 4. Describe procedure of posterior rhinoscopy precisely. 5. Discuss differential diagnosis of mouth breathing precisely. 6. Enumerate various investigations employed for diagnosing adenoid enlargement precisely. 7. Discuss in detail medical and surgical management of adenoid enlargement rightly.
81	EN4.27	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 Allergic Rhinitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate precisely different symptoms of patient of allergic rhinitis precisely. 2. Describe clinical features of allergic rhinitis accurately 3. Enlist signs and symptoms in patients with allergic rhinitis precisely 4. Describe procedure of anterior rhinoscopy in stepwise manner 5. Discuss differential diagnosis of rhinitis rightly 6. Enumerate various investigations employed for diagnosing allergic rhinitis correctly. 7. Discuss in detail medical and surgical management of allergic rhinitis correctly.

82	EN4.28	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Vasomotor Rhinitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate different symptoms of patient of Vasomotor Rhinitis precisely 2. Describe clinical features of Vasomotor Rhinitis 3. Enlist signs and symptoms in patients with Vasomotor Rhinitis precisely 4. Describe procedure of anterior rhinoscopy precisely. 5. Discuss differential diagnosis of rhinitis correctly. 6. Enumerate various investigations employed for diagnosing Vasomotor Rhinitis accurately 7. Discuss in detail medical and surgical management of Vasomotor Rhinitis correctly.
83	EN4 29	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 Acute & Chronic Rhinitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe accurately etiopathological features of Acute & Chronic Rhinitis rightly 2. Describe clinical features of Acute & Chronic Rhinitis precisely 3. Enlist accurately signs and symptoms in patients with Acute & Chronic Rhinitis 4. Describe procedure of anterior & posterior rhinoscopy in stepwise manner rightly 5. Discuss differential diagnosis of rhinitis 6. Enumerate various investigations employed for diagnosing Acute & Chronic Rhinitis 7. Discuss in detail medical and surgical management of Acute & Chronic Rhinitis precisely.

84	EN4.30	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 Epistaxis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define epistaxis accurately 2. Enumerate causes of Epistaxis correctly. 3. Describe anterior and posterior nasal bleeding correctly. 4. Describe anterior & posterior rhinoscopy in stepwise manner precisely 5. Enumerate various investigations employed for diagnosis of various causes for Epistaxis correctly. 6. Discuss in detail management of Epistaxis correctly.
85	EN4.31	Describe the clinical features, investigations and principles of management of trauma to the face & neck	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Classify fractures of facial bones and injuries of neck accurately 2. Describe clinical features of soft tissue and bone injuries involving face and neck accurately 3. Describe various investigations performed accurately. 4. Describe treatment options in trauma to the face & neck precisely.
86	EN4.32	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define angiofibroma accurately 2. Discuss theories of etiopathogenesis of angiofibroma precisely. 3. Describe spread of angiofibroma in detail correctly. 4. Describe pathology of angiofibroma precisely 5. Enumerate clinical features of angiofibroma precisely. 6. Discuss in detail surgical management of angiofibroma precisely.

87	EN4.33	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 Acute & Chronic Sinusitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe etiopathology of Acute & Chronic sinusitis correctly. 2. Enlist signs and symptoms in patients with Acute & Chronic Sinusitis precisely 3. Enumerate various investigations employed for diagnosing Acute & Chronic Sinusitis correctly. 4. Discuss in detail medical and surgical management of Acute & Chronic Sinusitis correctly.
88	EN4.34	Describe the clinical features, investigations and principles of management of Tumors of Maxilla	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate tumors of maxilla accurately 2. Enumerate and discuss signs and symptoms in patients with maxillary sinus neoplasm correctly. 3. Discuss various classification employed for maxilla carcinoma precisely. 4. Discuss in detail management of maxillary carcinoma precisely.
89	EN4.35	Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Enumerate tumors of nasopharynx accurately 2. Enumerate and describe in detail signs and symptoms in patients with nasopharyngeal tumor correctly. 3. Discuss in detail various modalities of management of nasopharyngeal tumor precisely

90	EN4.36	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate various conditions affecting salivary gland precisely 2. Enumerate and describe in detail signs and symptoms in patient affected by various salivary gland pathology accurately. 3. Discuss in detail various modalities of management of salivary gland conditions correctly.
91	EN4.37	Describe the clinical features, investigations and principles of management of Ludwig's angina	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe in detail etiopathology of Ludwig's angina accurately 2. Enumerate and describe in detail signs and symptoms in patient affected by Ludwig's Angina correctly. 3. Discuss in detail various modalities of management of Ludwig's Angina precisely
92	EN4.38	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate various conditions causing dysphagia precisely 2. Describe pathogenesis of various conditions leading to dysphagia correctly. 3. Discuss in detail various modalities of management of dysphagia precisely

93	EN4.39	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 Acute & Chronic Tonsillitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathology of Acute & Chronic tonsillitis precisely 2. Enlist signs and symptoms in patients with Acute & Chronic tonsillitis accurately 3. Enumerate various investigations employed for diagnosing Acute & Chronic tonsillitis correctly. 4. Discuss in detail medical and surgical management of Acute & Chronic tonsillitis correctly.
94	EN4.40	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate indications of adenoidectomy and tonsillectomy precisely 2. Enumerate and describe various methods adopted for adenoidectomy and tonsillectomy rightly 3. Enumerate and describe briefly steps of adenoidectomy and tonsillectomy in conventional method correctly. 4. Enlist and describe possible complication during tonsillectomy and adenoidectomy correctly.
95	EN4.41	Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define deep neck spaces precisely 2. Classify various spaces related to pharynx correctly. 3. Describe etiopathogenesis of pharynx related abscess precisely 4. Describe clinical features of acute and chronic pharyngeal spaces correctly. 5. Describe in detail management of abscess related to pharynx correctly.

96	EN4.42	Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Classify various types of voice changes accurately 2. Describe etiopathogenesis of hoarseness of voice correctly. 3. Describe in detail management of patients with hoarseness of voice correctly.
97	EN4.43	Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> a) Describe etiopathology of Acute & Chronic laryngitis accurately b) Enlist signs and symptoms in patients with Acute & Chronic laryngitis correctly. c) Enumerate various investigations employed for diagnosing Acute & Chronic laryngitis correctly. d) Discuss in detail medical and surgical management of Laryngitis precisely.
98	EN4.44	Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Describe etiopathology of Benign lesions of the vocal cord precisely 2. Enlist signs and symptoms in patients with Benign lesions of the vocal cord accurately 3. Enumerate various investigations employed for diagnosing benign lesions of the vocal cord precisely. 4. Discuss in detail medical and surgical management of benign lesions of the vocal cord correctly.

99	EN4.45	Describe the clinical features, investigations and principles of management of Vocal cord palsy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate causes of unilateral and bilateral vocal cord paralysis accurately 2. Describe clinical features of unilateral and bilateral vocal cord paralysis accurately. 3. Discuss in detail management of unilateral and bilateral vocal cord paralysis correctly.
100	EN4.46	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Malignancy of the Larynx precisely 2. Describe clinical features of Malignancy of the Larynx accurately 3. Discuss in detail various modalities of management of Malignancy of the Larynx correctly.
101	EN4.46	Describe the clinical features, investigations and principles of management of Malignancy of the Hypopharynx	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Malignancy of the Hypopharynx accurately 2. Describe clinical features of Malignancy of the Hypopharynx accurately 3. Discuss in detail various modalities of management of Malignancy of the Hypopharynx correctly.
102	EN4.47	Describe the clinical features, investigations and principles of management of Stridor	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define stridor accurately 2. Enumerate causes of stridor precisely 3. Describe clinical features of patient having stridor correctly. 4. Discuss in detail various modalities of management of stridor correctly.

103	EN4.48	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define airway emergency precisely 2. Enumerate causes of airway emergency correctly. 3. Describe clinical features of patient having airway emergency correctly. 4. Discuss in detail various modalities of management of airway emergency correctly.
104	EN4.49	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air passage	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> a) Enumerate various foreign bodies in air passage correctly. b) Describe clinical features of patient having foreign bodies in air passage precisely c) Discuss in detail various modalities of management of foreign bodies in air passage correctly.
105	EN4.49	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the food passages	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate various foreign bodies in food passage accurately 2. Describe clinical features of patient having foreign bodies in food passage precisely 3. Discuss in detail various modalities of management of foreign bodies in food passage correctly.

106	EN4.50	Observe and describe the indications for and steps involved in tracheostomy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate various indications of tracheostomy rightly 2. Classify various methods tracheostomy precisely 3. Discuss in detail steps of surgical tracheostomy correctly.
107	EN4.51	Observe and describe the care of the patient with a tracheostomy	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate various preoperative and postoperative measures taken in tracheostomy patients correctly. 2. Enumerate and describe complications of tracheostomy correctly.
108	EN4.52	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Diseases of oesophagus correctly. 2. Describe clinical features of Diseases of oesophagus precisely 3. Discuss in detail various modalities of management of Diseases of oesophagus correctly.
109	EN4.53	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Define AIDS accurately. 2. Describe clinical features of patient having HIV manifestations of the ENT correctly. 3. Discuss in detail various modalities of management of HIV manifestations of the ENT correctly.
110	PE28.2	Discuss the etio-pathogenesis of Pharyngo Tonsillitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiology of Pharyngo tonsillitis precisely 2. Discuss pathophysiology of pharyngo tonsillitis in paediatric age group correctly.

111	PE28.3	Discuss the clinical features and management of Pharyngo Tonsillitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enlist signs and symptoms in patients with Pharyngo Tonsillitis correctly. 2. Enumerate various investigations employed for diagnosing Pharyngo Tonsillitis correctly. 3. Discuss in detail medical and surgical management of Pharyngo Tonsillitis correctly.
112	PE28.4	Discuss the etiopathogenesis, clinical features and management of Acute Otitis Media (AOM)	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Acute Otitis Media (AOM) correctly. 2. Describe clinical features of Acute Otitis Media (AOM) correctly. 3. Discuss in detail various modalities of management of Acute Otitis Media (AOM) correctly.
113	PE28.5	Discuss the etiopathogenesis, clinical features and management of Epiglottitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Epiglottitis precisely 2. Describe clinical features of Epiglottitis correctly. 3. Discuss in detail various modalities of management of Epiglottitis correctly.
114	PE28.6	Discuss the etiopathogenesis, clinical features and management of Acute laryngo-trachea-bronchitis	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Describe etiopathogenesis of Acute laryngo- trachea-bronchitis precisely 2. Describe clinical features of Acute laryngo- trachea-bronchitis precisely 3. Discuss in detail various modalities of management of Epiglottitis Acute laryngo- trachea-bronchitis correctly.

115	PE28.7	Discuss the etiology, clinical features and management of Stridor in children	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate causes of stridor in children precisely 2. Describe clinical features of patient having stridor in children correctly. 3. Discuss in detail various modalities of management of stridor in children precisely
116	PE28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Classify and enumerate various foreign bodies aspirated in paediatric age group precisely 2. Describe clinical features of patient having foreign bodies aspiration in air passage precisely 3. Discuss in detail various modalities of management of foreign bodies' aspiration in air passage correctly.
117	PE28.9	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Classify and enumerate various pathologies of upper airway leading to stridor precisely 2. Describe clinical features of patient having various pathologies of upper airway leading to stridor precisely 3. Discuss in detail various modalities of management of various pathologies of upper airway leading to stridor correctly.
118	PE28.10	Perform otoscopic examination of the ear	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Identify parts of otoscope accurately 2. Hold the otoscope in correct position precisely 3. Perform and demonstrate otoscopic examination on patient accurately

119	PE28.11	Perform throat examination using tongue depressor	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Identify tongue depressor correctly. 2. Hold the tongue depressor in correct position accurately 3. Perform and demonstrate examination of oral cavity using tongue depressor on patient precisely
120	PE28.12	Perform examination of the nose	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Enumerate steps involved in nasal examination precisely 2. Comment on osseo cartilaginous framework and symmetry rightly 3. Perform and demonstrate tip raising test accurately 4. Perform and demonstrate anterior rhinoscopy precisely 5. Perform and demonstrate posterior rhinoscopy precisely 6. Elicit paranasal sinus tenderness precisely 7. Examine smell testing correctly.
121	PE28.17	Interpret X-ray of the paranasal sinuses	At the end of the teaching session the 3 rd Year MBBS Part 1 student should be able to: <ol style="list-style-type: none"> 1. Identify radiograph rightly 2. Comment about type of radiograph plain/contrast accurately 3. Comment about view taken in radiograph precisely 4. Comment on radiolucency comparison of orbit and sinuses precisely 5. Comment about opacification of sinuses accurately 6. Provide diagnosis in this case correctly.

122	PE28.17	Interpret X-ray of the mastoid; and /or use written report in case of management.	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Identify radiograph precisely 2. Comment about type of radiograph plain/contrast accurately 3. Comment about view taken in radiograph precisely 4. Comment on various landmarks seen on radiograph correctly. 5. Comment about pneumatization pattern accurately 6. Provide diagnosis in this case accurately
123	PE28.17	Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays	<p>At the end of the teaching session the 3rd Year MBBS Part 1 student should be able to:</p> <ol style="list-style-type: none"> 1. Identify radiograph precisely 2. Comment about type of radiograph plain/contrast accurately 3. Comment about view taken in radiograph correctly. 4. Comment on various landmarks soft tissue and bony seen on radiograph precisely 5. Comment about pathology seen in radiograph correctly. 6. Provide diagnosis in this case accurately.