



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

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COMPETENCY BASED MEDICAL EDUCATION (CBME)

(with effect from 2019-2020 Batches)

Curriculum for Third M.B.B.S – Part I Otolaryngorhinology

Approved as per AC-41/2021, Dated 27/08/2021

Amended History

1. Approved as per AC-41/2021, Resolution No. 5.3, Dated 27/08/2021.

DEPARTMENT OF ENT

Syllabus for clinical posting:

Number	Competency
EN2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint
EN2.2	Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat
EN2.3	Demonstrate the correct technique of examination of the ear including Otoscopy
EN2.4	Demonstrate the correct technique of performance and interpret tuning fork tests
EN2.5	Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum
EN2.6	Demonstrate the correct technique of examining the throat including the use of a tongue depressor
EN2.7	Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus
EN2.8	Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram
EN2.9	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders
EN2.10	Identify and describe the use of common instruments used in ENT surgery
EN2.11	Describe and identify by clinical examination malignant & pre-malignant ENT diseases
EN2.12	Counsel and administer informed consent to patients and their families in a simulated environment
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)
EN2.14	Demonstrate the correct technique to instilling topical medications into the ear, nose and throat in a simulated environment
EN4.9	Demonstrate the correct technique for syringing wax from the ear in a simulated environment
EN4.10	Observe and describe the indications for and steps involved in myringotomy and myringoplasty
EN4.11	Enumerate the indications, describe the steps and observe a mastoidectomy
EN4.17	Enumerate the indications and interpret the results of an audiogram
EN4.24	Enumerate the indications, observe and describe the steps in a septoplasty
EN4.40	Observe and describe the indications for and steps involved in a tonsillectomy/ adenoidectomy

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 & food passages
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
EN4.52	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus
PY10.20	Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/simulated environment
DE4.3	Identify potential pre-cancerous/cancerous lesions
DE4.4	Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors
PE28.9	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor
PE28.10	Perform otoscopic examination of the ear
PE28.11	Perform throat examination using tongue depressor
PE28.12	Perform examination of the nose
PE28.17	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 pediatric chest X-rays

INTEGRATED (LECTURE)

Serial Number	Competency Number	Competency	Duration	Integration	Method of teaching
1	EN 1.1, AN37.1 AN 37.2 PY 10.13	Describe the Anatomy & physiology of ear, nose, throat, head & neck Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Describe and discuss perception of smell and taste sensation	1	ANATOMY PHYSIOLOGY	LECTURE
2	EN4.27 PE 31.1 AN 31.3	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Allergic Rhinitis Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children	1	PEDEATRICS ANATOMY	LECTURE
3	EN 1.1 AN37.1 AN 37.2 AN 37.3	Describe the Anatomy & physiology of ear, nose, throat, head & neck Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Describe anatomical basis of sinusitis & maxillary sinus tumours	1	ANATOMY	LECTURE
4	EN 1.1 AN 39.2	Describe the Anatomy & physiology of ear, nose, throat, head & neck Explain the anatomical basis of hypoglossal nerve palsy	1	ANTOMY	LECTURE
5	EN 4.40, AN 36.2 AN 36.4	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	1	ANATOMY PEDEATRICS	LECTURE

	PE 28.1 PE 26.1	<p>Describe the components and functions of waldeyer's lymphatic ring</p> <p>Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess</p> <p>Discuss the etio-pathogenesis of Pharyngo Tonsillitis</p> <p>Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis</p>			
6	EN 1.1 AN 40.3	<p>Describe the Anatomy & physiology of ear, nose, throat, head & neck</p> <p>Describe the features of internal ear</p>	1	ANATOMY	LECTURE
7	EN 1.1 PY 10.15	<p>Describe the Anatomy & physiology of ear, nose, throat, head & neck</p> <p>Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing</p>	1	PHYSIOLOGY	LECTURE
8	PY 10.16 IM 24.17 ENT 4.12	<p>Describe and discuss pathophysiology of deafness. Describe hearing tests</p> <p>Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly</p> <p>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>	1	GENERAL MEDICINE PHYSIOLOGY	LECTURE

9	EN 1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	1		L E C T U R E
10	EN.4.43 AN 38.2 PE 28.5 PE 26.6	Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis Describe the anatomical aspects of laryngitis Discuss the etio-pathogenesis, clinical features and management of Epiglottitis Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- trachea-bronchitis	1	ANATOMY PEDEATRICS	L E C T U R E
11	EN 4.45 AN 38.3	Describe the clinical features, investigations and principles of management of Vocal cord palsy Describe anatomical basis of recurrent laryngeal nerve injury	1	ANATOMY	L E C T U R E
12	EN 1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	1		L E C T U R E
13	EN 1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	1		L E C T U R E
14	EN 4.47 PE 28.7	Describe the clinical features, investigations and principles of management of Stridor Discuss the etiology, clinical features and management of Stridor in children	1	PEDEATRICS	L E C T U R E

15	DE 4.2 DE 4.3 DE.4.4 DE 4.1 ENT PATHO SU 20.1	<p>Discuss the role of etiologic factors in the formation of precancerous /cancerous lesions</p> <p>Identify potential pre-cancerous/cancerous lesions</p> <p>Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors</p> <p>Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity</p> <p>Describe etiopathogenesis of oral cancer, symptoms and signs of pharyngeal cancer. Enumerate the appropriate investigations and discuss the principles of treatment.</p>	1	DENTISTRY PATHOLOGY SURGERY	L E C T U R E
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16	PE 14.2	Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion	1	PEDEATRICS	LECTURE
17	CM 3.1	Describe the health hazards of air, water, noise, radiation and pollution	1	COMMUNITY MEDICINE	LECTURE
18	ENT 4.53	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	1		LECTURE
19	PY 10.13	Describe and discuss perception of smell and taste sensation	1	PHYSIOLOGY	LECTURE
20	PE 28.8 EN 3.5 EN 4.49 EN 4.48	<p>Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children</p> <p>Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat</p> <p>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>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</p>	1	PEDEATRICS	LECTURE
21	EN 1.2	Describe the pathophysiology of common diseases in ENT	1		LECTURE

NDEPARTMENT OF ENT

LECTURES

Sr No.	Competency no.	Competency	Duration	Integration	Method of Teaching
1	EN 4.23	Describe the clinical features, investigations and principles of management of DNS	1HR	-----	Large group teaching
2	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 squamosal type of Nasal Polyps	1HR	-----	Large group teaching
3	EN 4.28 EN 4.29 EN 1.2	<p>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> <p>Elicit, document document and present present a correct correct history history, demonstrate describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Rhinitis.</p> <p>Elicit document and present a correct history demonstrate and describe</p>	1 HR	-----	Large group teaching

		the clinical features, choose the correct investigations and describe the principles of management of Hearing loss.			
4	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 squamosal type of Epistaxis	1 HR	-----	Large group teaching
5	EN 4.32 EN 4.34 AN 37.3	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma. Describe the clinical features, investigations and principles of management of Tumors of Maxilla. Describe anatomical basis of sinusitis & maxillary sinus tumours.	1 HR	-----	Large group teaching

6	<p>EN 4.39</p> <p>EN 1.2</p> <p>PE 28.2</p> <p>PE 28.3</p> <p>AN 36.4</p>	<p>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</p> <p>Describe the pathophysiology of common diseases in ENT .</p> <p>Discuss the etio-pathogenesis of Pharyngo Tonsillitis.</p> <p>Discuss the clinical features and management of Pharyngo Tonsillitis.</p> <p>Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess.</p>	1HR	-----	Large group teaching
7	<p>EN 4.37</p> <p>EN 4.41</p> <p>EN 1.2</p>	<p>Describe the clinical features, investigations and principles of management of Ludwig's angina.</p> <p>Describe the clinical features, investigations and principles of management of</p>	1 HR	-----	Large group teaching

	AN.3.64	<p>Acute & chronic abscesses in relation to Pharynx.</p> <p>Describe the pathophysiology of common diseases in ENT.</p> <p>Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess.</p>			
8	<p>EN 1.1</p> <p>AN 40.1</p> <p>AN 40.2</p>	<p>Describe the Anatomy & physiology of ear, nose, throat, head & neck.</p> <p>Describe & identify the parts, blood supply and nerve supply of external ear.</p> <p>Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube.</p>	1 HR	-----	Large group teaching
9	<p>EN 4.2</p> <p>AN 40.4</p>	<p>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.</p> <p>Explain anatomical basis of otitis externa and otitis media.</p>	1 HR	-----	Large group teaching
10	PE 28.4	Discuss the etio-pathogenesis, clinical features and management			

	EN 4.3 AN40.4	of Acute Otitis Media (AOM). 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. Explain anatomical basis of otitis externa and otitis media.	1 HR	-----	Large group teaching
11	EN 4.5 AN 40.5	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. Explain anatomical basis of myringotomy.	1 HR	-----	Large group teaching
12	EN 4.7 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 CSOM 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.	1 HR	-----	Large group teaching

13	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.	1HR	-----	Large group teaching
14	4.13	Describe the clinical features, investigations and principles of management of Otosclerosis	1 HR	-----	Large group teaching
15	EN 4.14	Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss.	1 HR	-----	Large group teaching
16	EN 4.18	Describe the clinical features, investigations and principles of management of Facial Nerve palsy	1HR	-----	Large group teaching
17	EN 4.19 EN 4.20	Describe the clinical features, investigations and principles of management of Vertigo Describe the clinical features, investigations and principles of management of Meniere's Disease.	1 HR	-----	Large group teaching
18	EN 4.44	Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord.	1 HR	-----	Large group teaching
19	EN 4.46	Describe the clinical features, investigations and	1 HR	-----	Large group teaching

		principles of management of Malignancy of the Larynx & Hypopharynx.			
20	EN 4.52 EN 4.49 EN 4.38	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus. 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. 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.	1HR	-----	Large group teaching
21	EN 4.36 AN 39.2	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands. Explain the anatomical basis of hypoglossal nerve palsy.	1 HR	-----	Large group teaching

22	EN 4.35	Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx.	1 HR	-----	Large group teaching
24	EN 2.15	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution.	1 HR	-----	Large group teaching
25	EN 4.31	Describe the clinical features, investigations and principles of management of trauma to the face & neck.	1 HR	-----	Large group teaching

TUTORIALS

S.NO.	COMPETENCY NUMBER	COMPETENCY	DURATION	METHOD OF TEACHING
1	EN 4.22	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamous type of Nasal Obstruction	1	SMALL GROUP TEACHING
2	EN 4.24, EN 3.5	Enumerate the indications observe and describe the steps in a septoplasty Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	1	SMALL GROUP TEACHING
3	EN 3.5	Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	1	SMALL GROUP TEACHING
4	EN 3.2	Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy	1	SMALL GROUP TEACHING
5	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 Otolgia	1	SMALL GROUP TEACHING
6	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	1	SMALL GROUP TEACHING
7	EN 4.10 EN 3.5 AN 40.5	Observe and describe the indications for and steps involved in myringotomy and myringoplasty Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat Explain an anatomical basis of myringotomy	1	SMALL GROUP TEACHING

8	EN 4.10 EN 3.5	Observe and describe the indications for and steps involved in myringotomy and myringoplasty Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	1	SMAL GROUP TEACHING
9	EN 4.11 EN 3.5	Enumerate the indications, describe the steps and observe a mastoidectomy Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	1	SMAL GROUP TEACHING
10	EN 3.1	Observe and describe the indications for and steps involved in the performance of otomicroscopic examination in a simulated environment	1	SMAL GROUP TEACHING
11	EN 2.8 EN 4.16 EN 4.17	Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram Observe and describe the indications for and steps involved in the performance of pure tone audiometry Enumerate the indications and interpret the results of an audiogram	1	SMAL GROUP TEACHING
12	EN 2.9 PE 28.17	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders 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 pediatric chest X-rays	1	SMAL GROUP TEACHING
13	EN 2.10	Identify and describe the use of common instruments used in ENT surgery	1	SMAL GROUP TEACHING
14	EN 4.50 EN 4.51 EN 3.5 EN 3.6	Observe and describe the indications for and steps involved in tracheostomy Observe and describe the care of the patient with a tracheostomy Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat	1	SMAL GROUP TEACHING



DEPARTMENT OF ENT

MBBS (CBME BATCH) 2021-22

Internal Examination & Assessment Format as per CBME & GME 2019

Internal Examination Format – ENT

Sr. No	Particular	Theory	Practical
Phase II			
1	Post ending Examination	10	50
Phase III			
1	Term Ending Examination (Paper I)	40	NA
2	Preliminary examination (Paper I)	100	100
3	Post ending Examination	10	50
Total Internal Examination Marks		160	200

Internal Assessment Calculation

Sr. No	Particular	Theory	Practical
1	All internal examinations including preliminary examination (Theory And Practical)	90	90
2	Day to Day assessment (Theory And Practical)	0	0
3	Logbook Assessment (SDL, AETCOM and Logbook, competencies Etc.)	10	10
Total Internal Assessment Marks		100	100

160 Theory Internal Examination marks
reduced to 90 **marks**

200 Practical Internal Examination marks
reduced to 90 **marks**

Department of E.N.T.

Proposed format for ENT theory paper in University exam

ENT –THEORY PAPER

Introductions:

- 1) Use blue/black ball point pen only.
- 2) Don not write anything on the blank portion of the question paper. If written anything such type of act will be considered as an attempt to resort to unfair means.
- 3) All questions are compulsory
- 4) The number to the right indicates full marks.
- 5) Draw diagrams wherever necessary.
- 6) Use a common answer book for all section.

Section “A” (20 Marks)

1. MCQ - 20 (1x20=20M)

Section “B” (40 Marks)

2. Long answer question (any 2 out of 3) structured clinical questions (15x2=30M)

3. Short Answer Question (All 2), (including I on AETCOM)
(5x2=10M)

Section “C” (40Marks)

4. Long answer question (any 1 out of 2) structured clinical questions (15x1=15M)

5. Short answer (any 5 out of 6) (clinical Reasoning)
(5x5=25M)

SEMINARS

S NO.	COMPETENCY NUMBER	COMPETENCY	DURATION	METHOD OF TEACHING
1	EN 3.6 EN 3.5 EN 3.4 PE 28.8	<p>Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat</p> <p>Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat</p> <p>Observe and describe the indications for and steps involved in the removal of foreign bodies from ear, nose & throat</p> <p>Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children</p>	1	SMALL GROUP TEACHING
2	EN 4.15	Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss	1	SMALL GROUP TEACHING
3	EN 4.21	Describe the clinical features, investigations and principles of management of Tinnitus	1	SMALL GROUP TEACHING
4	EN 3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy	1	SMALL GROUP TEACHING
5	EN 4.40 EN 3.5 AN 36.4	<p>Observe and describe the indications for and steps involved in tonsillectomy/adenoidectomy</p> <p>Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat</p> <p>Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess</p>	1	SMALL GROUP TEACHING



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

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