

ANNEXURE 6

COURSE CONTENT

(Total teaching hours for Otorhinolaryngology = 25+40+5 = 70)

Lectures:

MBBS phase III-

Total Teaching hours: 25 hours

S. NO	TOPICS	COMPETENCIES	SUBTOPICS	AIT	HOURS
1.	Anatomy and Physiology of ear, nose, throat, head & neck				
			Lecture: 1		1
		EN 1.1 AN40.1 AN40.2 AN40.3	Describe the Anatomy & physiology of ear Describe & identify the parts, blood supply and nerve supply of external ear Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube Describe the features of internal ear	Anatomy	
			Lecture: 2		1
		EN 1.1 AN37.1 AN37.2 AN37.3	Describe the Anatomy & physiology of Nose, Throat Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Describe location and functional anatomy of paranasal sinuses Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx	Anatomy Physiology	
		PY10.13	Describe and discuss perception of smell and taste sensation		
			Lecture: 3		1
		EN 1.1 EN 1.2	Describe the Anatomy & physiology of Head and Neck Describe the pathophysiology of common diseases in Head and Neck	Anatomy	
2.	Clinical Skills				
			Lecture: 4		1
		EN 2.11 EN 2.15	Describe and identify by clinical examination malignant & pre-malignant ENT diseases Describe the national programs for prevention of deafness, cancer, noise & environmental pollution	Community Medicine	
3.	Management of diseases of ear, nose & throat				
			Lecture: 5		1
		EN4.1 EN4.6 EN4.2	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otagia 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 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		

			Lecture: 6		1
		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 ASOM	Paediatrics	
		PE28.4	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)		
		EN4.5	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		
			Lecture: 7		1
		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 CSOM		
		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 squamosal type of CSOM		
			Lecture: 8		1
		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		
		EN4.12	Describe the clinical features, investigations and management principles of Sudden Sensori-neural Hearing Loss		
		EN4.15	Describe the clinical features, investigations management principles of Noise Induced Hearing Loss		
			Lecture: 9		1
		EN4.18	Describe the clinical features, investigations and principles management of Facial Nerve palsy		
			Lecture: 10		1
		EN4.19	Describe the clinical features, investigations and principles of management of Vertigo		
		EN4.13	Describe the clinical features, investigations and principles of management of Otosclerosis		
		EN4.21	Describe the clinical features, investigations and principles of management of Tinnitus		
		EN4.14	Describe the clinical features, investigations and management of Sudden Sensorineural Hearing Loss		
			Lecture: 11		1
		EN4.23	Describe the clinical features, investigations and principles of management of DNS		
		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 type of Nasal Polyps		
			Lecture: 12		1
		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 Allergic Rhinitis	Paediatrics	
		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 Vasomotor Rhinitis		
		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 Acute & Chronic Rhinitis		
		PE31.1	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children		

			Lecture: 13		1
		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 Epistaxis		
		EN4.31	Describe the clinical features, investigations and principles of management of trauma to the face & neck		
		EN4.32	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma		
			Lecture: 14		1
		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 type of Acute & Chronic Sinusitis		
			Lecture: 15		1
		EN4.34	Describe the clinical features, investigations and principles of management of Tumors of Maxilla		
		EN4.35	Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx		
			Lecture: 16		1
		EN4.36	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands		
		EN4.37	Describe the clinical features, investigations and principles of management of Ludwig's angina		
		EN4.41	Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx		
		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		
			Lecture: 17		1
		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 Acute & Chronic Tonsillitis	Paediatrics	
		PE28.1	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis		
		PE28.2	Discuss the etio-pathogenesis of Pharyngo Tonsillitis		
		PE28.3	Discuss the clinical features and management of Pharyngo Tonsillitis		
			Lecture: 18		1
		EN4.43	Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis	Anatomy	
		EN4.44	Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord		
		EN4.45	Describe the clinical features, investigations and principles of management of Vocal cord palsy		
		AN38.3	Describe anatomical basis of recurrent laryngeal nerve injury		
			Lecture: 19		1
		EN4.46	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx		
		EN4.47	Describe the clinical features, investigations and principles of management of Stridor		
			Lecture: 20		
		DE4.1	Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity	Pathology	
		DE4.2	Discuss the role of etiological factors in the formation of precancerous /cancerous lesions		

		EN4.52	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus		
			Lecture: 21		1
		EN4.53	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT		
		EN3.6	Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat		
			Lecture: 22		1
			Revision lecture		
			Lecture: 23		1
			Revision lecture		
			Lecture: 24		1
			Revision lecture		
			Lecture: 25		1
			Revision lecture		

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Small group discussions

MBBS phase III/I-

Total Teaching hours: 40 hours

SR. NO.	TOPICS	COMPETENCIES	SUBTOPICS	AIT	HOURS
	Anatomy and Physiology of ear, nose, throat, head & neck				
1.		AN40.1	Describe & identify the parts, blood supply and nerve supply of external ear		0.5 hour
2.		AN40.2	Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube		1 hour
3.		AN37.1	Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply		1 hour
4.		AN38.1	Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx		0.5 hour
5.		PY10.15	Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing		1 hour
6.		PY10.16	Describe and discuss pathophysiology of deafness. Describe hearing tests		0.5 hour
	General Medicine				
7.		IM24.17	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly		1.5 Hours
	Paediatrics				
8.		PE28.5	Discuss the etio-pathogenesis, clinical features and management of Epiglottitis		0.5 hour
9.		PE28.6	Discuss the etio-pathogenesis, clinical features and management of Acute laryngo-tracheo-bronchitis		0.5 hour

10.		PE28.7	Discuss the etiology, clinical features and management of Stridor in children		1 hour
11.		PE28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children		1 hour
	Clinical Skills				
12.		EN 2.9	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders X Rays of mastoid, PNS, nasopharynx, neck, thorax -Routine blood investigations, Pus-bacterial culture, sensitivity, Fungal culture and KOH mount -FNAC and biopsy		1 hour 1 hour 1 hour
13.		EN2.15	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution		1.5 hour
	Management of diseases of ear, nose & throat				
14.		EN4.1	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		1 hour
15.		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 ASOM		1.5 hour
16.		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 CSOM		1.5 hours
17.		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		1.5 hour
18.		EN4.13	Describe the clinical features, investigations and principle of management of Otosclerosis		1 hour
19.		EN 4.14	Describe the clinical features, investigations and principle of management of Sudden Sensorineural Hearing Loss		1 hour

20.		EN4.15	Describe the clinical features, investigations and principle of management of Noise Induced Hearing Loss	0.5 hour
21.		EN 4.18	Describe the clinical features, investigations and principle of management of Facial Nerve palsy	1 hour
22.		EN 4.19	Describe the clinical features, investigations and principle of management of Vertigo	0.5 hour
23.		EN 4.18	Describe the clinical features, investigations and principle of management of Tinnitus	0.5 hour
24.		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 Allergic Rhinitis	1 hour
25.		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 Acute & Chronic Rhinitis	1.5 hours
26.		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	1 hour
27.		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 Acute & Chronic Sinusitis	2 hours
28.		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 Acute & Chronic Tonsillitis	1.5 hours
29.		EN 3.5 EN 4.10 EN 4.11	Observe and describe the indications for and the steps involved in the surgical procedures in ear, nose and throat	3 hours
30.		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	1.5 hours
31.		EN4.47	Describe the clinical features, investigations and principles of management of Stridor	1 hour
32.		EN4.49	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of	1.5 hours

			management of foreign bodies in the air & food passages		
33.		EN4.53	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT		1 hour
	Community Medicine				
34.		CM3.1	Describe the health hazards of air, water, noise, radiation and pollution		1.5 hours

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Self Directed Learning

MBBS phase III/I -

Total Teaching hours: 5 hours

Sr. No.	Competencies	SUBTOPICS	AIT	TL Methods	HOURS
1.	EN1.1	Anatomy and blood supply of Tonsil		Quiz-Poster Presentation (on topic given in groups)	5 hours
2.	EN1.2	Clinical features, diagnosis and treatment of: ASOM			
3.	EN2.4	Tuning Fork Tests			
4.	EN 3.5	Complications of tonsillectomy			
5.	EN 4.24	Septoplasty –Technique, Procedure and Complications			
6.	EN 4.5	Clinical features and management Otitis media with effusion, Myringotomy			
7.	EN 4.50	Indications and Complications of Tracheostomy			

Subject:
Otorhinolaryngology
Lectures

MBBS phase III-

Total Teaching hours: 25 hours

S. NO	TOPICS	COMPETENCIES	SUBTOPICS
1.	Anatomy and Physiology of ear, nose, throat, head & neck		
			Lecture: 1
		EN 1.1 AN40.1 AN40.2 AN40.3	Describe the Anatomy & physiology of ear Describe & identify the parts, blood supply and nerve supply of external ear Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube Describe the features of internal ear
			Lecture: 2
		EN 1.1 AN37.1 AN37.2 AN37.3	Describe the Anatomy & physiology of Nose, Throat Describe & demonstrate features of nasal septum, lateral wall of nose, blood supply and nerve supply Describe location and functional anatomy of paranasal sinuses Describe the morphology, identify structure of the wall, nerve supply and actions of intrinsic and extrinsic muscles of the larynx

		PY10.13	Describe and discuss perception of smell and taste sensation
			Lecture: 3
		EN 1.1 EN 1.2	Describe the Anatomy & physiology of Head and Neck Describe the pathophysiology of common diseases in Head and Neck
2.	Clinical Skills		
			Lecture: 4
		EN 2.11 EN 2.15	Describe and identify by clinical examination malignant & pre-malignant diseases Describe the national programs for prevention of deafness, cancer, environmental pollution
3.	Management of diseases of ear, nose & throat		
			Lecture: 5
		EN4.1	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the management of Otagia
		EN4.6	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the management of Discharging ear
		EN4.2	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the management of diseases of the external Ear

			Lecture: 6
		EN4.3	Elicit document and present a correct history, demonstrate and describe clinical features, choose the correct investigations and describe the management of ASOM
		PE28.4	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)
		EN4.5	Elicit document and present a correct history, demonstrate and describe clinical features, choose the correct investigations and describe the management of OME
			Lecture: 7
		EN4.6	Elicit document and present a correct history demonstrate and describe clinical features, choose the correct investigations and describe the management of CSOM
		EN4.7	Elicit document and present a correct history, demonstrate and describe clinical features, choose the correct investigations and describe the management of squamosal type of CSOM
			Lecture: 8
		EN4.12	Elicit document and present a correct history demonstrate and describe clinical features, choose the correct investigations and describe the management of Hearing loss
		EN4.12	Describe the clinical features, investigations and management principles of Sudden Sensori-neural Hearing Loss
		EN4.15	Describe the clinical features, investigations management principles of Induced Hearing Loss
			Lecture: 9
		EN4.18	Describe the clinical features, investigations and principles management of Facial Nerve palsy

			Lecture: 10
		EN4.19	Describe the clinical features, investigations and principles of man Vertigo
		EN4.13	Describe the clinical features, investigations and principles of man Otosclerosis
		EN4.21	Describe the clinical features, investigations and principles of man Tinnitus
		EN4.14	Describe the clinical features, investigations and management of S Sensorineural Hearing Loss
			Lecture: 11
		EN4.23	Describe the clinical features, investigations and principl management of DNS
		EN4.25	Elicit document and present a correct history, demonstrate and de clinical features, choose the correct investigations and describe the management of type of Nasal Polyps
			Lecture: 12
		EN4.27	Elicit document and present a correct history, demonstrate and de clinical features, choose the correct investigations and describe the management of Allergic Rhinitis
		EN4.28	Elicit document and present a correct history, demonstrate and de clinical features, choose the correct investigations and describe the management of Vasomotor Rhinitis
		EN4.29	Elicit, document and present a correct history, demonstrate and de clinical features, choose the correct investigations and describe the management of Acute & Chronic Rhinitis
		PE31.1	Describe the etio-pathogenesis, management and prevention of A in Children

			Lecture: 13
		EN4.30	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the management of Epistaxis
		EN4.31	Describe the clinical features, investigations and principles of management of trauma to the face & neck
		EN4.32	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma
			Lecture: 14
		EN4.33	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the management of type of Acute & Chronic Sinusitis
			Lecture: 15
		EN4.34	Describe the clinical features, investigations and principles of management of Tumors of Maxilla
		EN4.35	Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx
			Lecture: 16
		EN4.36	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands
		EN4.37	Describe the clinical features, investigations and principles of management of Ludwig's angina
		EN4.41	Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx
		EN4.38	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the management of type of dysphagia

			Lecture: 17
		EN4.39 PE28.1 PE28.2 PE28.3	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the management of Acute & Chronic Tonsillitis Discuss the etio-pathogenesis, clinical features and management of Acute & Chronic pharyngitis Discuss the etio-pathogenesis of Pharyngo Tonsillitis Discuss the clinical features and management of Pharyngo Tonsillitis
			Lecture: 18
		EN4.43 EN4.44 EN4.45 AN38.3	Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord Describe the clinical features, investigations and principles of management of Vocal cord palsy Describe anatomical basis of recurrent laryngeal nerve injury
			Lecture: 19
		EN4.46 EN4.47	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx Describe the clinical features, investigations and principles of management of Stridor
			Lecture: 20
		DE4.1 DE4.2	Discuss the prevalence of oral cancer and enumerate the common sites of oral cancer that can affect tissues of the oral cavity Discuss the role of etiological factors in the formation of precancerous and cancerous lesions

		EN4.52	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus
			Lecture: 21
		EN4.53 EN3.6	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT Observe and describe the indications for and steps involved in the emergency procedures in ear, nose & throat
			Lecture: 22
			Revision lecture
			Lecture: 23
			Revision lecture
			Lecture: 24
			Revision lecture
			Lecture: 25
			Revision lecture

Internal Assessment

Subject – Otorhinolaryngology

Applicable w.e.f batches admitted from 2019 and onwards

Phase		
	Theory	Practical
Second MBBS	-	EOP Practical Examination may be conducted. However, these marks shall not be added to the Internal Assessment.

3rd Year (III MBBS, PART I)						
Phase	I-Exam (March)			II-Exam Prelim (August)		
	Theory	Practical	Total Marks	Theory	Practical	Total Marks
III/I MBBS	50	50	100	100	100	200

Assessment in CBME is ONGOING PRCESS,

No Preparatory leave is permitted.

1. There shall be 2 internal assessment examinations in Otorhinolaryngology including Prelim.
2. The suggested pattern of question paper for internal assessment internal examinations, except prelim examination is attached at the end. Pattern of the prelims examinations should be similar to the University examinations.
3. Internal assessment marks for theory and practical will be converted to out of 25 (theory) + 25 (practical). Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University. **Conversion Formula for calculation of marks in internal assessment examinations.**

	Theory	Practical
Phase II	-	-
Phase III/I	150	150
Total	150	150
Conversion out of	25	25
Conversion formula	Total marks in 2 IA theory examinations /6	Total marks in 2 IA Practical examinations /6
Eligibility criteria after conversion	10	10
	Combined theory + Practical = 25	

1. While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table.

Total Internal Assessment Marks	Final rounded marks
13.01 to 13.49	13
13.50 to 13.99	14

2. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject.
3. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.
4. Remedial measures

A. Remedial measures for non-eligible students

- i) At the end of each internal assessment examination, students securing less than 50% marks shall be identified. Such students should be counseled at the earliest and periodically. Extra classes for such students may be arranged.
- ii) If majority of the students found to be weak in a particular area then extra classes must be scheduled for all such students. Even after these measures, if a student is failed to secure 50% marks combined in theory and practical (40% separately in theory and practical) after prelim examination, the student shall not be eligible for final examination.
- iii) Non eligible candidates are offered to reappear for repeat internal assessment examination/s, which must be conducted 2 months before next University examination. The pattern for this repeat internal assessment examination shall be similar to the final University examination. The marks in this examination shall be considered for deciding the eligibility criteria. Following conversion formula shall be used for converting the marks.

	Theory	Practical
Remedial examination	100	100
Conversion out of	25	25
Conversion formula	Marks in remedial theory examinations /4	Marks in remedial Practical examinations /4
Eligibility criteria after conversion	10	10
	Combined theory + Practical = 25	

B. Remedial measures for absent students:

If any of the students is absent for any of the 2 IA examinations due to any reasons, following measures shall be taken.

- i. The student is asked to apply to the academic committee of the college for reexamination, through HOD, to ascertain the genuineness of the reason for absentee.

- ii. If permitted by academic committee, an additional examination for such students is to be conducted after prelims examination. Marks for such additional examination shall be equal to the missed examination.
- iii. Even if a student has missed more than one IA examination, he/she can appear for only one additional IA examination. In such scenario, eligibility should be determined by marks obtained in internal assessment examinations for which the candidate has appeared, without changing the denominator.

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Format for Practical Examinations

Otorhinolaryngology

Internal Assessment Practical

Seat No.	Table viva							Practical Total
	Case	OSCE 1	OSCE 2	Surgical Pathology Radiology	Instruments and Surgical Procedure	Journal	Log Book	
Max. Marks	20	5	5	5	5	5	5	50

OSCE stations checklists to be prepared so as to give more weightage to crucial steps, if skills are small two or more skills may be included in same station

OSCE stations to include any of these – Clinical skills (case/audiology), Certifiable skills, AETCOM skills

Prelims Practical

Subject: Otorhinolaryngology Practical									
Seat No.	Table Viva								Practical Total
	Case	OSCE 1 (Clinical skills)	OSCE 2 (Clinical skills)	OSCE 3 (Certifiable skills)	OSCE 4 (AETCOM skills)	Surgical Pathology Radiology	Instruments and Surgical Procedure	Journal & log book	
Max. Marks	30	10	10	10	10	10	10	10	100

MUHS Final Practical

Subject: Otorhinolaryngology Practical								
Seat No.	Case	OSCE 1 (Clinical skills)	OSCE 2 (Clinical skills)	OSCE 3 (Certificate skills)	OSCE 4 (AETCOM skills)	Table Viva		Practical Total
						Surgical Pathology Radiology	Instruments and Surgical Procedure	
Max. Marks	30	10	10	10	10	15	15	100

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Internal Assessment Theory Examination (I)

Otorhinolaryngology

Instructions:

SECTION "A" MCQ

- 1) Put in the appropriate box below the question number once only.
- 2) Use blue ball point pen only.
- 3) Each question carries **One mark**.
- 4) Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked.

SECTION "A" MCQ (10 Marks)

1. Multiple Choice Questions (Total 10 MCQ of One mark each) (1x10=10)
- a) b) c) d) e) f) g) h) i) j)

Instructions:

- 1) Use **blue/black** ball point pen only.
- 2) **Do 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 sections.

SECTION "B" (40 Marks)

2. Long Answer Questions structured clinical questions (15 x1=15)
- a)
3. Short Answer Questions (Any 5 out of 6),(including 1 on AETCOM) (5 x 5=25)
- a) b) c) d) e) f)

MUHS Final Theory Examination

Otorhinolaryngology

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK
FORMAT / SKELETON OF QUESTION PAPER**

Instructions:

SECTION "A" MCQ

- 5) Put in the appropriate box below the question number once only.
- 6) Use blue ball point pen only.
- 7) Each question carries **One mark**.
- 8) Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked.

SECTION "A" MCQ (20 Marks)

1. Multiple Choice Questions (Total 20 MCQ of One mark each) (1x20=20)
- a) b) c) d) e) f) g) h) i) j)
- k) l) m) n) o) p) q) r) s) t)

SECTION "B" & "C"

Instructions:

- 1) Use **blue/black** ball point pen only.
- 2) **Do 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 sections.

SECTION "B" (40 Marks)

2. Long Answer Questions (Any 2 out of 3) structured clinical questions (15 x 2=30)
- a) b) c)
3. Short Answer Questions (All 3),(including 1 on AETCOM) (5 x 3=15)
- a) b) c)

SECTION C (40 Marks)

- 4 Long answer questions (15x1=15)
- a)
- 5 Short answer questions(any 4 out of 5) (Clinical Reasoning) (5x4=20)
- a) b) c) d) e)

Section wise distribution of topics for Prelim & MUHS Annual Examination

Year: **III-I MBBS** Subject: **_Otorhinolaryngology**

Paper	Section	Topics
1	A	MCQs on all topics of Otorhinolaryngology Basic Science (2), Otology (6), Rhinology (6), Head Neck Laryngology (6)
	B Basic Sciences, Recent Advances, Otology	Anatomy and Physiology of Ear, Nose, Throat & Head and Neck; Recent Advances; Audiology and Hearing loss; Vestibular System; Diseases of External Ear and Middle Ear; Eustachian Tube and its disorder; Cholesteatoma, Chronic Otitis media and Complications; Otosclerosis; Facial Nerve and its Disorder; Meniere's Disease; Tumours of External Ear, Middle Ear and Mastoid; Deaf Child & Rehabilitation of Hearing Impaired
	C Rhinology, Laryngology, Head and Neck	Diseases of External Nose; Nasal Septum and its diseases Acute and Chronic Rhinitis and Sinusitis and its complications; Allergic, Vasomotor Rhinitis and NARES; Nasal Polypi; Epistaxis; Facial Trauma; Granulomatous Diseases of Nose; Neoplasm of Nasal Cavity and PNS; Disorders and Tumours of Oral Cavity and Salivary Gland; Acute and Chronic Tonsillitis, Adenoiditis and Pharyngitis Head and Neck space infections; Tumours of Nasopharynx, Hypopharynx, Oropharynx and Pharyngeal Pouch; Snoring and Sleep Apnoea; Laryngotracheal Trauma; Acute and Chronic inflammation of Larynx; Congenital Lesions and Benign Tumours of Larynx; Laryngeal paralysis; Carcinoma Larynx; Stridor and Tracheostomy; Voice and Speech Disorder; Foreign Bodies in Air and Food passage; Disorders of Oesophagus and Dysphagia



Name of the Institute

OTORHINOLARYNGOLOGY

LOGBOOK

Competency – based medical education (CBME) involves observable abilities by the students in a time-dependent manner. The emphasis is on outcomes that are relevant to the day rather than facts. The student gets opportunity to learn and the ultimate aim being the successful attainment of competence irrespective of when they do that. Assessment are aligned therefore, the tools differ drastically from the traditional assessment of cognitive components constitute the bulk of the assessment.

Competency-based curriculum strives to employ more objective assessment including direct observation and daily logs.

Sayings of the great:

“I will prepare and someday my chance will come.”

“Strength does not come from physical capacity, it comes from an indomitable will.”

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Sr. No.	Subject
1	LOGBOOK CERTIFICATE
2	BIODATA OF THE CANDIDATE
3	GENERAL INSTRUCTIONS
4	RECORDS OF EXAMINATIONS AND INTERNAL ASSESSMENT
5	SELF DIRECTED LEARNING / TUTORIALS / SEMINARS / EXTRA CURRICULAR ACTIVITIES
6	CLINICAL SKILLS – LIST OF COMPETENCIES
7	PSYCHOMOTOR SKILLS – LIST OF COMPETENCIES
8	COMMUNICATION SKILLS – AETCOM
9	PHASE II
10	PHASE III/I
12	REFLECTION ON AETCOM MODULE
13	ANNEXURES

LOGBOOK CERTIFICATE

This is to certify that this logbook is the bonafide record of Mr. / Ms.
No.....Admission Year, of the Department of Otorhinolaryng
.....Medical College.

The logbook is as per the guidelines of Competency Based Undergraduate Medicine
Regulation 2019.

He / She has satisfactorily attended/ completed all assignments mentioned in this logbook
Medical Commission.

BIODATA OF THE CANDIDATE

Name of the student:

Name of the course: MBBS

Date of birth:

Father's / Guardian's name:

Mother's name:

Blood group:

Permanent Address:

Temporary Address:

.....
.....

.....
.....

Student's contact no:

Father's/ Guardian's contact no:

Student's Email id:

Father's/ Guardian's Email id:

Candidates Signature:

Date:

GENERAL INSTRUCTIONS

- 1) The logbook is a record of the academic / non-academic activities of the student maintaining their logbook.
- 2) This logbook is prepared as per the guidelines of NMC for implementation of Co Professional MBBS students in the subject of Otorhinolaryngology.
- 3) Students are instructed to keep their logbook entries up to date. It is the responsibility of the students to maintain their respective pages & get them duly signed by the supervising faculty.
- 4) Entries in the logbook will be in accordance with activities done in the department of Otorhinolaryngology.
- 5) The logbook assessment will be based on multiple factors like
 - Overall presentation
 - Active participation in the sessions Quality of write up of reflections.
 - Timely completions
 - Attendance
- 6) The logbook shall be kept as record work of the candidate for the department & record of the candidate before appearing for the University examination.

NOTE:

1. A **clear record** of all components that add to the internal assessment marks must be retained by them for at least **2 years** after passing of the examination. Institutions must follow the guidelines given by the University as and when required.

The contents in the logbook are suggested guidelines. The institutions can make **need**

ATTENDANCE

Attendance requirements are **75% in theory and 80% in practical/clinical** for eligible students. In subjects that are taught in more than one phase- the learner must have 75% attendance in each phase of instruction in that subject

Records of Examinations and Internal Assessment

Sr. No.	Exam No.	Date	Theory	Date	Practical (Exam 1 and 2 – 5 marks each for journal and logbook, Prelim exam-10 marks each for journal and logbook)
1	Exam no.1- *Phase II (end of 1 st clinical postings)		–		/40+10
2	Exam no.2- Phase III/I (end of 2 nd clinical postings)		/50		/40+10
3	Preliminary Examination		/100		/80+20
4	Total		/150		/150
5	Conversion		/30		/30
6	Final Internal Assessment Marks (to be submitted to University)		/30		/30

***The practical examination conducted in phase II will be college level examination and marks of the same will not be included in the internal assessment.**

Self-Directed Learning. Seminars. Tutorials. Projects. Quizzes.

Sr. No.	Self- directed learning (Seminars, Tutorials, Projects, Quizzes, Extracurricular activities)	Date	Phase II	Phase III

Reflection (minimum 200 words) – 1

TOPIC:

Reflection (minimum 200 words) – 2

TOPIC:

LOGBOOK : LIST OF COMPETENCIES

Clinical skills can be assessed by case presentation, case-based discussion, objective checklist, MiniCex, as per the institutional preference.

Competency # addressed	Name of Activity
Topic: Clinical Skills	
EN2.1	Elicit document and present an appropriate history i
EN2.2	Demonstrate the correct use of a headlamp and hea and throat
EN2.4	Demonstrate the correct technique of performing an
EN2.5	Demonstrate the correct technique of examination o use of nasal speculum
EN2.6	Demonstrate the correct technique of examining the depressor
EN2.7	Demonstrate the correct technique of examination o
EN2.8	Demonstrate the correct technique to perform and i audiogram
EN2.12	Counsel and administer informed consent to patient
Topic: Management of diseases of ear, nose & throat	
EN4.1	Elicit document and present a correct history, demo choose the correct investigations and describe the p
EN4.3	Elicit document and present a correct history, demo choose the correct investigations and describe the p
EN4.4	Demonstrate the correct technique to hold visualiz membrane and its mobility and interpret and diagra

EN4.7	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of CSOM
EN4.8	Elicit document and present a correct history, demonstrate choose the correct investigations and describe the principles of CSOM
EN4.9	Demonstrate the correct technique for syringing wax from the ear
EN4.22	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of Obstruction
EN4.26	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of CSOM
EN4.27	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of CSOM
EN4.30	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of CSOM
EN4.37	Describe the clinical features, investigations and principles of CSOM
EN4.39	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of Tonsillitis
EN4.42	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of voice
EN4.49	Elicit document and present a correct history demonstrate choose the correct investigations and describe the principles of in the air & food passages

LOGBOOK PSYCHOMOTOR / PERFORMANCE

Skills can be assessed by objective structured clinical assessment with checklist, Global Assessment Scale, or per the institutional preference.

Colleges are instructed prepare modules for skill training as per NMC guidelines.
 Module 5 Skill Training.

I - Otoscopy

D – Anterior nasal packing

LIST OF COMPETENCIES

Competency # addressed	Name of Activity
EN2.3	Demonstrate the correct technique of examination of the ear by Otoscopy
EN2.13	Identify, resuscitate and manage ENT emergencies in the clinical environment (including tracheostomy, anterior nasal packing, and management of airway in ear, nose, throat and upper respiratory tract)

LOGBOOK FOR AETCOM SKILL

Counselling for Investigation, Treatment, Prognosis, Blood donation, Organ Donation, Medicolegal aspects and Ethics, Empathy and professionalism as per the Phase of the course, also.

Competency to be assessed during Clinical postings and /or small group discussions.

LIST OF COMPETENCIES FOR AETCOM

Competencies addressed

The student should be able to

1. Identify, discuss and defend medico-legal, socio-cultural, professional issues as it pertains to the physician – patient relationship (including informed consent)
2. Identify and discuss physician's role and responsibility to society and the community that she/he serves

PHASE II-clinical (minimum two assessments)

Sr. No.	Competency # addressed	Name of Activity	Site Ward, skill lab, opd, casualty,	Date completed	Attempt at activity First (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations OR Numerical Score
1.						
2.						
3.						
4.						
5.						
6.						

PHASE II-Psychomotor

Sr. No.	Competency # addressed	Name of Activity	Site Ward, skill lab, opd , casualty,	Date completed	Attempt at activity First (F) Repeat (R) Remedial (Re)	Rating Below (B) expecte Meets (M) expe Exceeds (E) expectation s OR Numerical Sco
1.						
2.						

PHASE III Part I -clinical (Minimum two assessments)

Sr. No.	Competency # addressed	Name of Activity	Site Ward, skill lab, opd , casualty,	Date completed	Attempt at activity First (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations OR Numerical Score
1.						
2.						
3.						
4.						
5.						
6.						

PHASE III Part I-Psychomotor skill

Sr. No.	Competency # addressed	Name of Activity	Site Ward, skill lab, opd , casualty,	Date completed	Attempt at activity First (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations OR Numerical Score
1.						
2.						

PHASE III Part I - AETCOM

Sr. No.	Competency # addressed	Name of Activity	Site Ward, skill lab, opd , casualty,	Date completed	Attempt at activity First (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations OR Numerical Score
1.						
2.						
3.						

REFLECTION ON AETCOM MODULE For PHASE III/Is

Module 2.1 – History taking

Competency addressed

Elicit document and present an appropriate history in a patient presenting with an ENT complaint
--

Reflection (minimum 200 words) -1

REFLECTION ON AETCOM MO

Module 2.12 – Counseling and administering informed consent

Competency addressed

Counsel and administer informed consent to patients and their families in a simulated environment

Reflection (minimum 200 words)-2

ANNEXURE 1:

RECORDING FORM FOR MINI – CEX

DATE

EVALUATOR :

STUDENT :

YEAR :

PATIENT DIAGNOSIS :

SETTINGS :

AMBULATORY
IN PATIENT
ED

NEW
FOLLOW UP

PATIENT AGE

OTHER :

PATIENT SEX

FOCUS : DATA GATHERING / DIAGNOSIS / THERAPY / COUNSELLING

1. MEDICAL INTERVIEWING SKILLS (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

2. PHYSICAL INTERVIEWING SKILLS (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

3. HUMANISTIC QUALITIES / PROFESSIONALISM (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

4. CLINICAL JUDGEMENT (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

5. COUNSELLING SKILLS (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

6. ORGANIZATION / EFFICIENCY (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

7. OVERALL CLINICAL COMPETENCE (OBSERVED / NOT OBSERVED)

1 2 3 / 4 5 6 / 7 8 9

MINI CEX TIME : OBSERVING : _____ MINS

PROVIDING FEEDBACK _____ MINS

UNSATISFACTORY 1,2,3

SATISFACTORY 4, 5, 6

SUPERIOR 7, 8, 9

EVALUATOR SATISFACTION WITH MINI CEX

LOW 1 2 3 4 5 6 7 8 9 HIGH

RESIDENT SATISFACTION WITH MINI CEX

LOW 1 2 3 4 5 6 7 8 9 HIGH

COMMENTS :

STUDENT SIGNATURE

EVALUATOR SIGNATURE

ANNEXURE 2:

AetCom skills can be assessed by use of Kalamazoo consensus.

Criteria
Builds relationship
Opens the discussion
Gathers information
Understands the patient's perspective
Shares information
Manages flow
Overall rating
Signature of teacher

***Communication skills rating
from Kalamazoo consensus***

Rating 1-3 - Poor, 4 -6 Satisfactory, 6 -10 Superior