



DEPARTMENT OF E.N.T



EAR
NOSE &
THROAT

STUDY GUIDE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE

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BAQAI MEDICAL UNIVERSITY

Date. 8th February 2021

Approval of E.N.T Curriculum by Internal Board of Studies.

The Curriculum designed for the training of IIIrd Professional MBBS students Baqai Medical University by the faculty of E.N.T Department was presented before the Internal board of studies committee which comprises the following:

1. Prof: Dr. Shaheen Malik (HOD) ENT Department, Baqai Medical University.
2. Prof: Dr. Ausaf Ahmed (Hamdard Medical University)
3. Prof: Dr. Ismail Hirani (Karachi Institute of Medical Sciences)
4. Dr. Muhammad Khalid Assistant Professor ENT (Baqai Medical University).

Each committee member reviewed the different topics Included in the curriculum from each fields of Ear, Nose and Throat, and after detailed discussion and minor modifications in the material included, satisfied and gave their written consent to teach the above stated curriculum for IIIrd Professional MBBS Students in E.N.T Speciality.

1. Prof: Dr. Shaheen Malik (HOD) ENT Department, Baqai Medical University.

Shaheen Malik

Ausaf

2. Prof: Dr. Ausaf Ahmed (Hamdard Medical University)

3. Prof: Dr. Ismail Hirani (Karachi Institute of Medical Sciences).

Ismail Hirani

4. Dr. Muhammad Khalid Assistant Professor ENT (Baqai Medical University).

Muhammad Khalid

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TITLE OF PROGRAM:

M.B.B.S

TITLE OF COURSE:

FOURTH YEAR

Baqai Medical University Vision:

Baqai medical university is a community based and community oriented centre of excellence, striving to mould students to become competent and caring health professionals, groomed to be social leaders, capable of improving health, education and socio-economic well-being, locally, nationally and globally.

Baqai Medical University Mission:

Baqai medical university is a community oriented and community based university and pursuing a self-reliance model for progress and prosperity. The mission of Baqai medical University is to be recognized as a centre of excellence in education, research, patient care and community services by producing highly capable and knowledgeable professionals.

Department Mission:

The ENT Department is an integral part of Baqai Medical College/ Baqai Medical University. Broadly the vision and mission of this department is very similar to that of the university. However coming to the grass root levels ENT Department like all other Departments is actively involved in clinical teaching (Didactic presentations/ discussions among the students under the tutelage of senior faculty)

Clinical research which is in the form of statistical research activities, mostly based among the patients coming from the neighborhood rural communities. We intend not only provide standard treatment facilities but also educate them for preventive measures to avoid serious ENT diseases, especially oral and other head and neck cancers.

INTRODUCTION TO E.N.T

Ear, Nose and Throat are very important structures of head and neck. They are the three main parts of head and neck. They are involved in three of the five special senses (hearing and balance, smell and taste). Ear, nose and throat are interconnected by Eustachian tube and pharynx and disease can easily transmit from one part to another. So it is important to learn all the three parts in detail in connection to one and other for disease clearance and prevention.

At the level of fourth year MBBS, students after having knowledge of basic sciences are able to understand and correlate normal anatomical and physiological functions with different pathological conditions of Ear, Nose and Throat and further able to identify and diagnose the common pathologies of E.N.T and their management.

OUTCOME OF MBBS PROGRAM

By the end of five years MBBS program, The Baqai Medical Collegegraduate will be able to:

- Write and report focused history, perform physical examination; formulate a diagnosis and management plan for common health problems.
- Utilize knowledge of basic and clinical sciences for patient care.
- Apply evidence-based practices for protecting, maintaining and promoting the health of individuals, families and community.
- Identify problems, critically review literature, conduct research and disseminate knowledge
- Lead other team members as per situational needs for quality health service.
- Acquire professional behaviors that embodies lifelong learning, altruism, empathy and cultural sensitivity in provision health care service.

POLICIES AND PROCEDURES:

Code of Conduct and Maintenance of Discipline of Students Regulations
Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- a. Breach of any rule public morals, such as:
 - Use of indecent or filthy language;
 - Use of immodest dress;
 - Use of undesirable remarks or gestures; and
 - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- b. Defiance of authority
- c. Action, defamatory of and derogatory to Islam
- d. Immorality
- e. Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- f. False personation or giving false information or willful suppression of information, cheating or deceiving.
- g. Inciting or staging a walk-out, a strike or an unauthorized procession.
- h. Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- i. Visiting without a pass places which are not to be visited without a pass.
- j. Visiting places declared out of bounds for students

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No. student will be admitted to the facilities of the library, transport or the canteen unless he /she is in possession of the Identity Card

Faculty Introduction with contact details

TEACHING FACULTY ENT DEPARTMENT BMC

S.NO	NAME & EMAIL I'D	DESIGNATION	CONTACT NO.	PMDC REG. NO.	EXPEREINCE
1	Prof. Dr.Shaheen Mallick drsmalik@baqai.edu.pk	H.O.D & Professor	0300-3389211	10844-S	21 Years
2	Dr. M. Khalid drmkhalid@baqai.edu.pk	Assistant Professor	0334-3612410	13339-S	6 Years
3	Dr. Rehana Babar rehana.babar@baqai.edu.pk	Assistant Professor	0323-2937001	57001-S	4 Years
4	Dr. Maria Mahmood maria.mahmood@baqai.edu.pk	Assistant Professor	0301-2551193	64129-S	4 Years

WORKLOAD

Faculty Department of ENT

Faculty Teaching Hours Distribution

FACULTY NAME	LECTURE	OPD	CLINICAL ROTATION			O.T
			OPD	WARD	O.T	
Prof. Shaheen Malik	10	432	8	1	1	160
Dr. Muhammad Khalid	10	432	8	1	1	160
Dr. Rehana Babar	10	432	8	1	1	160
Dr. Maria Mahmood	10	432	8	1	1	160

OUTCOME OF E.N.T COURSE:

The Baqai University graduate of the MBBS program will be able to:

1. Utilize theoretical and clinical knowledge of clinical sciences for patient perioperative care.
2. Focused history, perform physical examination; formulate a management.
3. Identify problems, critically review literature, conduct research and disseminate knowledge.
4. Lead other team members as per situational needs for quality health service.
5. Apply evidence based practices for protecting, maintaining and promoting the health of individuals, families and community.

a. KNOWLEDGE AND SKILLS TO BE ACQUIRED

By the end of this course the students should be able to:

- 1) Identify the general conditions of Ear, Nose and Throat. Explain to the patient, honestly and in simple terms, the risk factors of disease and surgical interventions.
- 2) Take full medical history, with appropriate sequence and comprehensiveness in OPD and Ward, write it in a clear presentable way for others to read and understand..
- 3) Asked to examine a patient; prepare the appropriate setup for physical examination, carry out the examination in appropriate manner, sequence and comprehensiveness of the involved systems, relevant to surgical problems, write his notes in a clear way for others.

COGNITIVE SKILLS:

By the end of this course the student should be able to:

- 1) Take a detailed history from a patient.
- 2) Perform a complete physical examination of a patient.
- 3) Present summary of the assigned case to a faculty member during preoperative assessment.

The final outcomes in ENT rotations include the following:

- To recognize and understand common conditions
- To recognize and understand emergency surgical presentations
- To be aware of what treatment possibilities are available, including non-operative
- To understand the principles of preoperative optimization
- To understand postoperative complications
- To understand the types and risks of surgical procedures
- To be able to explain in general terms to a patient the implications of a common surgical diagnosis
- To have sufficient basic understanding of surgery to help with future career choice

**THE SUGGESTED TOPICS TO BE COVERED
DURING THE CLINICS & LECTURES
FOR 4TH YEAR MBBS**

1. History taking.
2. Method of Examination. (Ear, Nose and Throat)
3. Throat diseases. Clinical aspects of tonsils/adenoids, operations, techniques, postoperative management, complications & their management.
4. Dysphagia, diagnostic procedures, management / oesophagoscopy.
5. Neck swellings.
6. DNS, presentation, management including SMR, complication of DNS & SMR.
7. Sinusitis including antrum washout.
8. Stridor, differential diagnosis, management, intubation, laryngotomy & tracheostomy (all aspects).
9. Hoarseness of voice, presentation, differential diagnosis and management.
10. Foreign bodies of the nose, throat, oesophagus, ears & tracheobronchial tree. Presentation & management.
11. Otitis externa – boil ear
12. Chronic suppurative otitis media, clinical presentation & management, particularly operative procedures. Complications of CSOM and their management.
13. Meniere's disease, otosclerosis, caloric test/audiometry.
14. X-rays & instruments.

OPERATION THEATER

FOURTH YEAR MBBS CLASS

Twice weekly under tutelage of Professor Shaheen Iqbal Malik as under,

Wednesday Prof. Shaheen Iqbal Malik
 Dr. Mohammad Khalid
 Dr. Rehana Babar

Friday Prof. Shaheen Iqbal Malik
 Dr. Mohammad Khalid
 Dr. Maria Mahmood

LEARNING OBJECTIVES

- Learning of Sterilization and aseptic scrubbing protocol.
- Learning of pre-operative assessment & post-operative care of patient.
- Observation of major and minor cases.
- Instruments identification and their uses.
- Learning Minor procedures like aseptic dressing, Incision & drainage, stitching etc.

LEARNING OBJECTIVES

By the end of each tutorial the topic presenters should be able to make power point presentation and also should be able to discuss the presented clinical disease in all respects likes definition, incidence, causes, pathology, clinical features, investigations and treatment of that disease.

He should be able to acquire skills and expertise to organize a power point presentation and become confident enough to respond to any question related to the presented topic.

**SCHEDULE OF LECTURES AND CLINICAL TRAINING
FOURTH YEAR MBBS**

REGION	NO	TOPIC	EXPECTED TEACHER
NOSE	1.	Anatomy & Physiology	Dr. Maria Mahmood
	2.	Diseases of the external nose Vestibulitis Trauma Foreign Body Septal hematoma/Abscess	
	3.	Nasal cavity Rhinitis (acute, chronic & allergic) Epistaxis	
	4.	DNS Polyps (Ethmoidal, antrochoanal) Tumors (Nose & PNS)	
PARANASAL SINUSES.	5.	Anatomy & Physiology Acute & Chronic Sinusitis Clinical Features	Dr. Maria Mahmood
	6.	Management including minor procedures (Caldwel Luc's Operation)	
	7.	Tumors (Nose & PNS)	

LEARNING OBJECTIVES OF NOSE PARANASAL SINUS

After the end of lecture on anatomy and physiology of nose and paranasal sinuses, the student should be able to understand & discuss the various anatomical land marks and different important structures of nose and paranasal sinuses and their histology, also they should be able to define normal physiological functions of different part of nasal frame work.

By the end of lecture on rhinitis and nasal allergy, the students should be able to understand and discuss the definition, causes and pathological process of the disease and its clinical features and various treatment options and also the preventive measures for the control of the disease.

By the end of the lecture on Epistaxis and nasal polyps and paranasal sinuses, the students should be able to understand and discuss the Etiology and clinical features of these diseases and also various investigations require to Diagnose these Diseases.. Also they should be able to discuss the treatment options to control these diseases.

REGION	NO	TOPIC	EXPECTED TEACHER
LARYNX	1. 2. 3. 4.	Anatomy & Physiology Foreign Body Acute laryngitis/laryngeal edema Chronic laryngitis Causes of Hoarseness Vocal Cord Paralysis Tumors of Larynx	Prof. Shaheen Malik
TRACHEO- RONCHIAL	5.	Anatomy & Physiology Foreign Body/tracheostomy/ Bronchoscopy	Prof. Shaheen Malik
OESOPHAGUS	6.	Anatomy & Physiology Foreign Body/Oesophagoscopy Dysphagia Tumor	Prof. Shaheen Malik

LEARNING OBJECTIVES OF LARYNX

By the end of lectures on larynx, oesophagus and tracheobroncheal tree, the student should be able to discuss the causes of hoarseness and dysphagia and basic pathologies of larynx and their management.

Student should be able to discuss various breathing disorder, stridor and its causes and management.

Also they should be able to understand and discuss various common inflammatory condition of larynx, there clinical features and preventive measures and treatment options.

REGION	NO	TOPIC	EXPECTED TEACHER
EAR	1.	Anatomy & Physiology	Dr. Mohammad Khalid
	2.	Diseases of the external ear Trauma Foreign Body Otitis externa	
	3.	Diseases of the middle ear. Acute otitis media/acute suppurative otitis media Secretory otitis media (acute & chronic)	
	4.	Chronic suppurative otitis media(tubotympanic, atticoantral& attic)	
	5.	Complication of chronicSuppurative otitis media Miscellaneous diseases (Otosclerosis, conductive deafness & tinnitus)	
	6.	Inner Ear. Anatomy and Physiology of Balance.	
	7.	Miniere's diseases & Facial Nerve Vertigo	
	8.	Sensorineural deafness	
	9.	Noice induced deafness	
	10.	Deaf Child (REHABILITATION)	

LEARNING OBJECTIVES OF EAR

By the end of lectures on Ear, student should be able to understand and discuss clinical anatomy and functions of ear and various basic pathologies of external ear like foreign bodies and wax and Otitis externa, its various types and their management.

Also he should understand the causes of deafness and how to prevent it.

By the end of the lecture on middle ear, the student should be able to understand and discuss various important clinical landmarks and normal anatomical feature of middle ear cavity and also he should be able to understand and discuss normal physiology of hearing.

By the end of the lecture on Otitis media and its management, the student should be able to understand and discuss the causes, clinical features, investigation and treatment options of different types of Otitis media and its complications. They should also be able to understand various causes of deafness and its preventive measure.

By the end of lecture on inner ear the student should be able to understand the normal anatomy and function of labyrinth and also the disease labyrinthitis, its types and clinical features and various treatment options to control this disease.

Also he should be able to understand and discuss the Physiology of balance.

REGION	NO	TOPIC	EXPECTED TEACHER
THROAT	1.	Anatomy & Physiology	Dr. Rehana Babar (Asst. Professor)
	2.	Trauma/Foreign Body/Ulcer	
	3.	Acute Pharyngitis Adenoiditis, Diphtheria, Vincent Angina	
	4.	Chronic Tonsillitis Chronic Pharyngitis Chronic Adenoiditis Tonsillectomy Adenoidectomy	
	5.	Retropharyngeal, Parapharyngeal Tumor of Pharynx Disease of Salivary Glands Particularly Calculi	
NECK	6.	Anatomy & Physiology	Dr. Rehana Babar (Asst. Professor)
	7.	Swellings Abscess including Pharyngeal ones Tumors	
	8.	Common operations of ENT	

LEARNING OBJECTIVES OF THROAT AND NECK

By the end of lecture on throat oral cavity and neck, the student must be able to discuss diagnosis and differential diagnosis of sore throat, acute and chronic tonsillitis, mouth ulcers.

By the end of lecture on tumors of oral cavity the student should be able to understand and discuss various common benign and malignant tumor of oral cavity, their etiological factors, clinical features and investigation to diagnose them. Also they should be able to understand various modes of treatment of these tumors and preventive measure to control them.

By the end of lecture of on neck the student should be able to understand the normal anatomy of various important structures situated in the neck. Also the pathology different tumors specific for thyroid and neck swelling and there management options.

ENT, HEAD & NEC SURGERY DEPARTMENT
CLINICAL POSTING (TEACHING SCHEDULE)
FOURTH YEAR MBBS
BAQAI MEDICAL UNIVERSITY KARACHI

Date	Day	First Half	Second Half
		INTRODUCTION (ENT) HISTORY TAKING.	OPD
		HISTORY TAKING	EXAMINATION OF NOSE
		ANATOMY & PHYSIOLOGY OF NOSE	EXAMINATION OF NOSE
		SYMPTOMATOLOGY & DISEASES OF NOSE. EXAMINATION OF NOSE.	DNS/ TRAUMA CLINICAL EXAMINATION
		HISTORY & EXAMINATION OF NOSE. (OPD)	NASAL POLYPS+ EPISTAXIS RHINITIS
		ANATOMY & PHYSIOLOGY OF EAR (HEARING & BALANCE)	HISTORY TAKING & EXAMINATION OF EAR (OPD)
		CLINICAL EXAMINATION (EAR)	DISEASES OF EXTERNAL EAR
		CLINICAL EXAMINATION (EAR)	DISEASES OF MIDDLE EAR
		HISTORY/ CLINICAL EXAMINATION (EAR)	DISEASES OF MIDDLE EAR CAVITY. OTO SCLAROSIS DIFFERENTIAL DIGNOSES OF HEARING IMPAIRMENT
		DISEASES OF INTERNAL EAR	LABIRYNTHITIS
		ANATOMY & PHYSIOLOGY OF ORAL CAVITY	EXAMINATION OF ORAL CAVITY (OPD)
		OFF DAY	
		DISEASES OF ORAL CAVITY	DISEASES OF ORAL CAVITY (TONSILLITIS/ PHARYNGITIS, ORAL ULCERS)
		ANATOMY & EXAMINATION OF NECK/ LARYNX	PHYSIOLOGY OF VOICE PRODUCTION DISORDERS OF VOICE
		DISEASES OF LARYNX	DISEASES OF NECK
		OPERATION PROTOCOL	INTRODUCTION TO SURGERY. REVISION EXAMINATION
		INTRODUCTION TO SURGERY DIFFERENT SURGICAL PROCEDURES	TONSILLITIS SEPTOPLASTY MASTOIDECTOMY
		OPERATION THEATRE WITH DRESS	
		Revision Examination of ENT	PRACTICE EXAMINATION OF EAR , NOSE & THROAT
		OPERATION THEATRE WITH DRESS	
		DISEASES OF EAR	OTOSCLAROSIS/ MENIER'S DISEASE
		DISEASES OF NOSE/ THROAT	NASAL POLYPS/ INFECTIVE CONDITIONS OF NOSE
		(WARD TEST)	(WARD TEST)

LEARNING OBJECTIVES Of CLINICAL POSTING

By the end of clinical rotation posting the student must be able to understand E.N.T history taking, clinical examination of various ENT regions and diagnosis of basic ENT diseases like otitis media, DNS, Nasal, Polyps, Acute and Ch. Tonsillitis, pharyngitis, mouth ulcers and tumors of oral cavity and nose, & their treatment, both surgical and medical.

As well as he should be able to recognize different instruments used in examination and basic ENT surgical procedures.

He should also be aware of precautions of scrubbing and understand and discuss various steps of different common ENT surgical procedures like tonsillectomy and septoplasty aural toilet and I & D of Neck and mastoid abscesses.

TEACHING METHODOLOGIES:

1. **General lectures:** (Uploaded on MS Team)

- Power Point Presentations.
- Use of multimedia.
- Flip classroom
- Text Book references.(Scott Broun, Current Medical Diagnosis, P L Dhingra)
- Google/ YouTube assistance.

2. **Clinical Teaching:**

OPD Patient based teaching

- History taking
- E.N.T Examination of patient
- Video Demonstration show from google.
- Case based learning
- Practical
- Referral protocol if needed & not included in ENT Domain.

3. **Theatre:**

- Learning of Sterilization and aseptic scrubbing protocol.
- Learning of pre-operative assessment & post-operative care of patient.
- Observation of major and minor cases.
- Instruments identification and their uses.
- Learning Minor procedures like aseptic dressing, Incision & drainage, stitching etc.
- Informed and Written Consent from patient. (Performa Attached)



BAQAI MEDICAL UNIVERSITY
FATIMA HOSPITAL
CONSENT FOR OPERATION

I _____ S/o, D/o, W/o, _____ agree to undergo the operation of _____ the purpose of which has been explained to me by Dr. _____ I also give consent to such further or alternative operative measures as necessary during the operation and to the administration of general, local or other anaesthetic for any of these procedures.

No assurance has been given to me that the operation will be performed by any particular surgeon.

Signature: _____

(Patients)

Signature: _____

(Doctor)

ASSESSMENT METHODOLOGIES:

MODULES

- **Modules** x 4 in one year (quarterly basis) 5 x 4 = 20 marks

INTERNAL EVALUATION

A ward test is conducted at the end of ward rotation posting which includes 20 marks

- Attendance
- History taking
- OSCE
- MCQ
- Viva

ANNUAL EXAMINATION

- **Theory** 20 marks (module)
 - MCQs 50 marks
 - Short essay question 30 marks100 marks

- **Viva**
(By internal and external examiners.)
 - Objective structure clinical examination
 - Objective structure practical examination 80 marks
 - Internal Evaluation 20 marks (ward test +Grade Book)100

Facilitator or Lecturer or Tutor of the session

SESSION	FACILITATOR
Ear	Dr. M. Khalid
Nose	Dr. Maria Mahmood
Throat & Neck	Dr. Rehana Babar
Larynx & Oesophagus	Prof. Dr. Shaheen Mallick

LESSON PLAN

Week	Module Name or No.	Serial no. of topic	Topic	Learning objectives	Learning resources	Date & Time	Facilitator	Duration	Venue
1	NOSE	1.	Anatomy and Physiology of Nose	By the end of this lecture the student should be able to discuss various normal anatomical structures of different parts of nose. Also he should be able to understand and discuss normal physiological functions of nose.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14
2		2.	DNS	By the end of this lecture the student should be able to discuss the definition of DNS its various causes and clinical features and complications related to this pathology. Also he should understand the surgical procedure to correct this pathology and complications of this procedure.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14
4		3.	Epistaxis	By the end of this lecture the student should be able to understand causes of Nasal Bleeding in different age groups of patients, its different modes of Presentation and how to investigate the condition . He should know first aid management and how to control severe nasal bleeding and different methods of nasal packing and also surgical procedures to manage uncontrolled epistaxis.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14
5		4.	Nasal Polyp	By the end of this lecture the student should be able to define the nasal polyps, its pathology, types and clinical features, in addition, how to investigate and manage this conditions.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14

Week	Module Name or No.	Serial no. of	Topic	Learning objectives	Learning resources	Date & Time	Facilitator	Duration	Venue
6			Anatomy of paranasal sinuses	By the end of the lecture student should be able to define paranasal sinuses their classification, their location, formation, their drainage and functions of these sinuses.	Projector, computer		Dr. Maria Mahmood		Lecture Hall-13,14
7	NOSE	6.	Sinusitis (Acute)	By the end of the lecture the student should be able to discuss causes and pathology of Acute sinus Infection. Also he should be able to discuss its clinical features& how to treat a case of acute sinusitis.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14
8		7.	Chronic Sinusitis	By the end of the lecture the student should be able to discuss the causes and clinical features of chronic sinusitis. Also he should understand the treatment of this pathology.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14
9		8.	Complications of Acute and chronic Sinusitis	By the end of the lecture the student should be able to converse different complications of acute& chronic sinusitis and the pathological process involving these complications.	Projector, computer		Dr. Maria Mahmood	60 mints	Lecture Hall-13,14

		topic							
1	EAR	1.	Anatomy of External Ear and its common pathologies	By the end of this lecture the student should be able to understand the development of external Ear, its different parts, its blood and nerve supply, its functions and its relation with adjoining structures. Also he should be able to understand and discuss common pathologies related to external Ear, like wax, foreign bodies, otitis externa, fungal infections and how to treat these pathologies.	Projector, computer		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
		2.	Anatomy of Middle ear cleft	By the end of this lecture the student should be able to understand and discuss various important landmarks of middle ear and its relationship with neighboring structures, its blood supply and nerve supply and the structure of middle ear cleft and its development.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
2.		3.	ASOM	By the end of this lecture the student should be able to understand and discuss the definition of otitis media, its classification, types and pathology of acute suppurative otitis media. Also he should be able to discuss various causes and clinical features of acute suppurative otitis media, its differential diagnosis and how to treat this pathology.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
3.		4.	CSOM (Tubo tympanic variety)	By the end of this lecture the student should be able to understand and discuss different types of chronic suppurative otitis media. Also he should understand the differentiating features of tubo tympanic and attico antral variety of CSOM, and how to manage or care of tubo tympanic type of CSOM.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
4.		5.	CSOM (Aticoantral type)	By the end of this lecture the student should be able to understand and discuss causes pathology and clinical features of atticoantral variety of CSOM. Also he should be able to discuss its complications and different methods to treat this pathology. He may be able to understand various types of mastoidectomy.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14

5.	EAR	6.	Anatomy of lybirnth	By the end of this lecture the student must be able to understand and discuss the structure of Inner Ear, its different parts and its blood supply. Also he should be able to understand the relations of inner Ear with neighboring areas.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
1.		7.	Otosclerosis	By the end of this lecture the student should be able to understand and discuss the definition of otosclerosis. Also he should be able to discuss its incidences, causes, types pathology, clinical features and investigations to diagnose this condition. Also he should know how to treat this pathological conditions.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
2.		8.	Meniere's disease	By the end of this lecture the student should be able to understand and discuss definition, incidence, causes, pathology and clinical features of Meniere's disease. Also he should be able to know how to investigate a suspected care of Meniere's disease and various treatment options to control it.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
3.		9.	Imaging Study	By the end of this lecture the student should have a clear understanding of various options of imaging studies like X-Ray, CT Scan, MRI plane and with contrast media, used in diagnosis of various pathologies of Ear, Nose and Throat. He should he able to discuss these merits and demerits, and which particular pathology require a particular type of Image to diagnosis the condition.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14
4.		10.	Brief, review on disease of Ear	A brief review on disease of Ear, by the end of this lecture the student should be able to understand and discuss about various important pathologies related to different parts of Ear. Also he should be able to understand physiological and anatomical abnormalities. And he should have an understanding of preventive measures to he adopted for the control of this abnormalities. He should be able to diagnosis and treat these conditions or if not he should know which cares are needed to refer to higher centers.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14

1.	EAR	11.	Symptomatology in ENT	By the end of this lecture the student must be able to discuss physiology abnormalities and different symptoms and signs related to these problems in Ear, nose and throat.	Online, PowerPoint Internet, Laptop		Prof. Shaheen Mallick	1 Hour	Lecture Hall-13,14
2.		12.	Revision Class	by the end of this lecture the student should be able to understand and discuss about various important pathologies related to different parts of Ear. Also he should be able to understand physiological and anatomical abnormalities. And he should have an understanding of preventive measures to be adopted for the control of these abnormalities. He should be able to diagnose and treat these conditions or if not he should know which cares are needed to refer to higher centers.	Online, PowerPoint Internet, Laptop		Prof. Shaheen Mallick	1 Hour	Lecture Hall-13,14
3.		13.	Revision Otosclerosis	By the end of this lecture the student should be able to understand and discuss the definition of otosclerosis. Also he should be able to discuss its incidences, causes, types pathology, clinical features and investigations to diagnose this condition. Also he should know how to treat these pathological conditions.	Online, PowerPoint Internet, Laptop		Dr. Mohammad Khalid	1 Hour	Lecture Hall-13,14

Week	Module Name or No.	Serial no. of topic	Topic	Learning objectives	Learning resources	Date & Time	Facilitator	Duration	Venue
3.	THROAT	2.	Acute and Chronic Tonsillitis	By the end of lecture the student should be able to discuss the definition of tonsillitis, its classification, causes, clinical features and measures to treat these pathology and also complications of this disease.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
4.		3.	Chronic Tonsillitis	By the end of the lecture the student should be able to discuss the different chemical features related to cronic tonsillitis and the difference between acute and cronic tonsillitis, its preventive measures and treatment policy of chronic tonsillitis. Also he should be able to discuss various modes of tonsillectomy and complications of the procedure and how control these complications.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
2.		5.	Salivary Gland	By the end of lecture the student should be able to understand definition, classification and brief anatomical landmarks of different major and minor salivary glands. Also he should be able to discuss the function of these glands. He should also be able to discuss the common pathologies related to these glands and how to manage these pathologies.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14

1	NECK	1.	Anatomy of Neck	By the end of lecture the student should be able to discuss various anatomical landmarks in the neck, different vital structures and their relationship in the neck, the significance of neck in our body and anatomy of major vassals and important cranial nerves passing through different areas of neck.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
2.		2.	Examination of Neck and Larynx	After completion of this lacture the student should be able to know how to examine normal anatomy of neck and its abnormalities. Also he should be able to examine different vital structures situated in the Neck like Larynx &Lymph nodes in the Neck	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
3.		3.	Tracheostomy	By the end of lecture the student should be able to define tracheostomy . Also he should be able to discuss its indications, its significance, how to perform it and post tracheostomy care of patient. Also he should have knowledge of its complications.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
4.		4.	Anatomy and Physiology of Larynx	By the end of lecture the student should be able to understand and discuss various anatomical land marks of larynx, its locations and different structures contributing in its formation. Also he should be able to discuss important functions of the larynx.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14
5	NECK	5.	Common Pathologies of Larynx	By the end of lecture the student should be able to understand common important pathologies of this structure either infectious or due to vocal abuse. Also he should be able to understand there clinical features, investigations and treatment. Also he should have a brief knowledge of common neoplastic conditions of Larynx.	Online, PowerPoint Internet, Laptop		Dr. Rehana Babar	1 Hour	Lecture Hall-13,14

SKILL BASED TEACHING ACTIVITIES:

Month	Group	Topic	Learning objectives	Learning resources	Date & Time	Facilitator	Duration	Venue
4 Weeks	From Group 'A' to Group 'I'	1. History Taking 2. ENT Examination 3. Problem based learning, Diagnosis. 4. D.D 5. Interactive discussion 6. Instruments Identification, their Application, Handling, uses X-Ray Identification	<p>By the end of clinical posting the student should have adopted a discipline order to take the patient in to confidence, council the patient, fully Conversant with the patient and take proper history by the patient and follow the medical ethics to maintain patients privacy, honor, and secrecy with respect to information's collected.</p> <p>Also he should be able to examine different regions of ENT and identify the common pathologies, there differential diagnosis and investigations to conclude proper Diagnosis.</p> <p>Also he should be able to recognized different instruments used in ENT examination and basic ENT surgical procedures</p> <p>He should also be aware of precaution scrubbing and understand and discuss various steps of different common ENT surgical procedures like tonsillectomy and septoplasty aural toilet and I & D of neck and mastoid abscesses.</p>	OPD Theater Instruments X-ray Illuminator Patients (under guidance of faculty)	1 month for Each group 10:15am to 01:00pm =2.45hrs/day	Prof. Shaheen Malik, Dr. Mohammad Khalid Dr. Rehana Babr Dr. Maria Mahmood	1 month 5 days per week 4weeks per month 2.45hrs/day =165m/day 165x5=825m 825x4=3300m 3300/60=55hrs	ENT Department

TUTORIAL BASED TEACHING ACTIVITIES:

Month	Group	Topic Presentation	Learning objectives	Learning resources	Date & Time	Facilitator	Duration	Venue
4 weeks	From Group 'A' to Group 'I'	Each group of students will be given a clinical topic for presentation in seminar room in front of class and faculty	<p>By the end of each tutorial the topic presenters should be able to make power point presentation and also should be able to discuss the presented clinical disease in all respects likes definition, incidence, causes, pathology, clinical features, investigations and treatment of that disease.</p> <p>He should be able to acquire skills and expertise to organize a power point presentation and become confident enough to respond to any question related to the presented topic.</p>	Seminar room, Multimedia projector, Pointer, Internet facilities, ENT faculty	2 days/week Monday and Tuesday From 01:30pm to 03:30pm	Prof. Shaheen Malik, Dr. Mohammad Khalid, Dr. Rehana Babar Dr. Maria MAhmoed	2 hrs/day 2days/week 4weeks/month 2x60=120 2x120=240 4x240=960 60 m/hrs 960/60=16hrs	Department of ENT, Seminar room

BAQAI MEDICAL UNIVERSITY

Department of E.N.T

4th year MBBS (Module-I Ear)

(1 Lecture/ Week)

TIME TABLE AND SCHEDULE OF LECTURES

Serial#	Day	Time	Facilitator	Topic	Venue
1	Monday	09:30am to 10:30am	Dr. Muhammad Khalid	Anatomy and Disease of External Ear	Lecture Hall 14
2	Tuesday	08:30am to 09:30am	Dr. Muhammad Khalid	Anatomy of Middle Ear cleft	Lecture Hall 14
3	Wednesday	09:30am to 10:30am	Dr. Muhammad Khalid	Physiology of Hearing and Deafness	Lecture Hall 14
4	Thursday	08:30am to 09:30am	Dr. Muhammad Khalid	Diseases of Middle Ear and its classification(Otitis Media)	Lecture Hall 14
5	Friday	09:30am to 10:30am	Dr. Muhammad Khalid	Treatment and complications	Lecture Hall 14
6	Monday	08:30am to 09:30am	Dr. Muhammad Khalid	Otosclerosis	Lecture Hall 14
7	Tuesday	09:30am to 10:30am	Dr. Muhammad Khalid	Meniere's Disease	Lecture Hall 14
8	Wednesday	08:30am to 09:30am	Dr. Muhammad Khalid	Inner Ear (Anatomy and Physiology)	Lecture Hall 14
9	Thursday	09:30am to 10:30am	Dr. Muhammad Khalid	Labrynthitis	Lecture Hall 14
10	Friday	08:30am to 09:30am	Dr. Muhammad Khalid	Imaging Study in ENT	Lecture Hall 14

BAQAI MEDICAL UNIVERSITY
 Department of E.N.T
 4th year MBBS (Module-2 Nose)
 TIME TABLE AND SCHEDULE OF LECTURES

Date	Day	Time	Facilitator	Topic	Venue
	Monday	09:30am to 10:30am	Dr. Maria Mahmood	Anatomy of Nose	Lecture Hall -13
	Tuesday	08:30am to 09:30am	Dr. Maria Mahmood	Physiology of Nose	Lecture Hall -13
	Wednesday	09:30am to 10:30am	Dr. Maria Mahmood	DNS-Casese, Treatment and complications of surgery	Lecture Hall -13
	Thursday	08:30am to 09:30am	Dr. Maria Mahmood	Allergic Rhinitis	Lecture Hall -13
	Friday	09:30am to 10:30am	Dr. Maria Mahmood	Nasal Polyps	Lecture Hall -13
	Monday	08:30am to 09:30am	Dr. Maria Mahmood	Epistaxis	Lecture Hall -13
	Tuesday	09:30am to 10:30am	Dr. Maria Mahmood	Foreign bodies/ Septal Hematoma/ Fruclosis	Lecture Hall -13
	Wednesday	08:30am to 09:30am	Dr. Maria Mahmood	Paranasal Sinuses and Sinusitis Complication of Ac/Ca.Sinusitis	Lecture Hall -13
	Thursday	09:30am to 10:30am	Dr. Maria Mahmood	FESS, Tumors of Nose / PNS	Lecture Hall -13

BAQAI MEDICAL UNIVERSITY
 Department of E.N.T
 4th year MBBS (Module-III Throat)
 TIME TABLE AND SCHEDULE OF LECTURES

Weeks	Date	Day	Time	Facilitator	Topic	Venue
1st		Friday	08:30am to 09:30am	Dr. Rehana Babar	Anatomy and Physiology of oral cavity and oropharynx	Lecture Hall -13
2nd		Monday	09:30am to 10:30am	Dr. Rehana Babar	Ulcerative Disease of Oral cavity	Lecture Hall -13
3rd		Tuesday	08:30am to 09:30am	Dr. Rehana Babar	Trismus, its causes and S.M.F	Lecture Hall -13
4th		Wednesday	09:30am to 10:30am	Dr. Rehana Babar	Tonsils and Tonsillitis and its complications.	Lecture Hall -13
5th		Thursday	08:30am to 09:30am	Dr. Rehana Babar	Treatment and complications of Tonsillectomy	Lecture Hall -13
6th		Friday	09:30am to 10:30am	Dr. Rehana Babar	Peritonsillar Abscess, its Treatment	Lecture Hall -13
7th		Monday	08:30am to 09:30am	Dr. Rehana Babar	Infection of floor of mouth (Ludwig's Angina)	Lecture Hall -13
8th		Tuesday	09:30am to 10:30am	Dr. Rehana Babar	Tumors of Oral Cavity	Lecture Hall -13
9th		Wednesday	08:30am to 09:30am	Dr. Rehana Babar	Head and Neck space infection	Lecture Hall -13

BAQAI MEDICAL UNIVERSITY
 Department of E.N.T
 4th year MBBS (Module-IV Larynx and Neck)
TIME TABLE AND SCHEDULE OF LECTURES

Weeks	Date	Day	Time	Facilitator	Topic	Venue
1st		Thursday	09:30am to 10:30am	Prof. Shaheen Malik	Brief Discussion on ENT	Lecture Hall -13
2nd		Friday	08:30am to 09:30am	Prof. Shaheen Malik	Anatomy of Neck	Lecture Hall -13
3rd		Monday	09:30am to 10:30am	Prof. Shaheen Malik	Anatomy/ Physiology of Larynx	Lecture Hall -13
4th		Tuesday	08:30am to 09:30am	Prof. Shaheen Malik	Inflamatory conditions of Larynx	Lecture Hall -14
5th		Wednesday	09:30am to 10:30am	Prof. Shaheen Malik	Hoarseness (Causes and Treatment)	Lecture Hall -13
6th		Thursday	08:30am to 09:30am	Prof. Shaheen Malik	Neck Masses Midline and lateral	Lecture Hall -13
7th		Friday	09:30am to 10:30am	Prof. Shaheen Malik	Examination and investigations of Neck masses	Lecture Hall -13
8th		Monday	08:30am to 09:30am	Prof. Shaheen Malik	Tumors of thyroid and Diagnosis	Lecture Hall -13
9th		Tuesday	09:30am to 10:30am	Prof. Shaheen Malik	Tracheostomy	Lecture Hall -13
10th		Wednesday	08:30am to 09:30am	Prof. Shaheen Malik	Revision Class	Lecture Hall -14
11th		Thursday	TEST (MODULE IV)			Lecture Hall -13, 14

BAQAI MEDICAL UNIVERSITY

Department of ENT

Workload of Each Faculty Member

Post	Workload Calculation (Load in Hours Per Week)						Total
	Teaching	Lab/ Clinical	Research/ Supervision/ Mentorship/ Counseling	Administrative work	Professional Development	Preparational Other	
Professor HOD/ Prof. Shaheen Malik	3	-	10	6	3	5	27
Associate Professor							
Assistant Professor Dr. Muhammad Khalid	1	10	5	4	3	4	27
Assistant Professor Dr. Rehanababar	1	10	5	4	3	4	27
Assistant Professor Dr. Maria Mahmood	1	10	5	4	3	4	27
Lecturer/ Registrar Dr. Muhammad Ahsan Khan	4	23					27
Demonstrator/ Teaching Assistant							
HOD/ Chairman							
Director/ Principal/ Other							
Dean							
QEC/ ORIC/ Semester Cell/ Assessment Unit/ Other							

REFERENCES:

- P.L Dhingra
- Logon Turner

ASSESSMENT GUIDELINES:

THEORY

- Modules x 4 in one year (quarterly basis)
 - Each module marks = $5 \times 4 = 20$
 - Annual exam
 - MCQs = 50 marks
 - Short Essay Question = 30
 - TOTAL = 80
- $80 + 20 = 100$**

INTERNAL EVALUATION

A WARD TEST IS CONDUCTED at the end of ward rotation which includes

- MCQ/OSCE = 10
- TABLE VIVA = 10
- TOTAL = 20

ANNUAL VIVA

(By internal and external examiners.)

- OSCE/ OSPE = 80 marks
- $20 + 80 = 100$**

TOTAL MARKS

- TOTAL THEORY = 100
- TOTAL VIVA = 100

Assessment of Pattern

Theory (100 marks)	Practical (100 marks)
Internal Evaluation (Ward test) 20/ = 20 marks	Internal Evaluation (IV Modules) 5 marks each 5x4 = 20 marks
M.C.Q 50 = 50 marks	
S.E.Q 6/5 (6 marks each) 5x6 = 30 marks	OSCE = 80 marks
Total = 100 marks	Total 100 marks

TEACHING FACULTY
(as per PMDC requirement)

S. No.	Designation	PMDC requirement for up to 150 admissions	Position at BMC
1.	Professor	1	1
2.	Associate Professor	1	Nil
3.	Assistant Professor	2	3
4.	Specialty Registrar	1	Nil
5.	Residential / Medical Officer	1	1

THE CLINICAL TEACHING SCHEDULE

FOURTH YEAR MBBS CLASS

Every clinical batch of Fourth Year MBBS is attached with ENT Department for clinical teaching for a duration of 20 working days. The teaching program involves intensive teaching in the clinics and operation theaters from 10:30am to 01:00pm and has been planned as follows.

Five Days per week.

Monday to Friday

Teaching Clinics are being conducted by,

- ✓ Prof. Shaheen Iqbal Malik
- ✓ Dr. Mohammad Khalid
- ✓ Dr. Maria Mahmood
- ✓ Dr. Rehana Babar