Master (MSC) Degree Program and Courses Specifications for Ear- Nose- Throat Surgery

(According to currently applied Credit point bylaws)

Otolaryngology- Head
& Neck Surgery
Faculty of Medicine
Assiut University
2022-2023

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Master degree of Ear -Nose- Throat Surgery.

A. Basic Information

+ **Program Title: : Master degree of Ear -Nose- Throat Surgery .**

+ **Nature of the program: Single.**

+ **Responsible Department: Department of Otolaryngology head and neck surgery - Faculty of Medicine- Assiut University.**

+ **Program Academic Director (Head of the Department): Prof. : Ahmed Abo El wafa.**
  ahmed.mohamed45@med.aun.edu.eg

+ **Coordinator (s):**
- **Principle coordinator: Prof.Hamza Al Shafeay**
- **Assistant coordinator (s)**
-      **Prof. Dr:Hussin Fareed Weshahe**
       Prof. Dr: Ahmad Abd El Aleem

+ **Internal evaluators: Prof.Dr: Mahmoud Ragib Alsherief.**

+ **External evaluator: Prof. Dr: abdElmatin Mousa,**

   Sohag University.

+ **Date of Approval by the Faculty of Medicine Council of Assiut University: 23-9-2014.**

+ **Date of most recent approval of program specification by the Faculty of Medicine Council of Assiut University: 27-11-2022.**

+ **Total number of courses: 6 courses+ one elective course.**
+ **First part 5courses**
+ **Second part: one course.**

B. Professional Information

1- Program aims

I/1- To enable candidates to keep with international standards of ENT patients care by teaching high level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of Ear - Nose- Throat SURGERY in addition to surgical skills for emergency and minor, moderate surgical procedures

I/2- Provide residents with fundamental knowledge of Ear - Nose-Throat SURGERY as regards; dealing with critically ill ENT patients, ENT equipment, techniques, indications, contraindications and training skills of different surgical techniques.

I/3- To introduce candidates to the basics of scientific medical research.

I/4- To provide the candidates with skills
- **Enabling them to start professional careers as specialists in Egypt.**
- **Making them recognized as specialists abroad.**
- **Enabling them to pursue higher studies and subspecialties.**
- **Enabling them to understand and get the best of published scientific research and do their own.**

2/1Knowledge and understanding:

A. Explain the essential facts and principles of relevant basic sciences related to ENT Surgery including;

- Anatomy & embryology of the ear, nose & throat.

- Applied Physiology of the ear, nose & throat.

- Pathology of the ear, nose & throat.

- Microbiology, mycology.

B. Mention <u>essential facts</u> of clinically supportive sciences related to Ear -Nose- Throat Surgery including;.
- Basics of general surgery.
- Basics of Internal Medicine& Neurology.
- Clinical pathology.

C. Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment the common diseases and situations related to ENT Surgery.

D. Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to ENT Surgery.

E. Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to the ENT Surgery.

F. Mention the basics and standards of quality assurance to ensure good clinical practice in the field of ENT Surgery.

G. Mention the ethical and scientific principles of medical research methodology.

H. State the impact of common health problems in the field of ENT Surgery on the society and how good clinical practice improves these problems.

I.

2/2 Intellectual outcomes

A. Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the ENT Surgery.

B. Demonstrate an investigatory and analytic thinking approach (problem solving) to common clinical situations related to ENT Surgery.

C. Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the ENT Surgery field.

D. Formulate management plans and alternative decisions in different situations in the field of the ENT Surgery.

2/3 Skills

2/3/1 Practical skills (Patient Care)

A. Obtain proper history and examine patients in caring and respectful behaviors.

B. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment for common conditions related to ENT Surgery.

C. Carry out patient management plans for common conditions related to ENT Surgery.

D. Use information technology to support patient care decisions and patient education in common clinical situations related to ENT Surgery**.

E. Perform competently non invasive and invasive procedures considered essential for the ENT Surgery.

F. Provide health care services aimed at preventing health problems related to ENT Surgery.

G. Provide patient-focused care in common conditions related to ENT Surgery, while working with health care professionals, including those from other disciplines

H. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records)

2/3/2 General skills

Including:

- Practice-based Learning and Improvement

- Interpersonal and Communication Skills

- Professionalism

- Systems-based Practice

Practice-Based Learning and Improvement

A. Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).

B. Appraises evidence from scientific studies.

C. Conduct epidemiological Studies and surveys.

D. Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.

E. Facilitate learning of students and other health care professionals including their evaluation and assessment.

Interpersonal and Communication Skills

F. Maintain therapeutic and ethically sound relationship with patients.

G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.

H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.

I. Work effectively with others as a member of a health care team or other professional group.

Professionalism

J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society

K. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices

L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities

Systems-Based Practice

M. Work effectively in relevant health care delivery settings and systems including good administrative and time management.

N. Practice cost-effective health care and resource allocation that does not compromise quality of care.

O. Assist patients in dealing with system complexities.

3- Program Academic Reference Standards (ARS) (Annex 2)

Academic standards for master degree in ENT Surgery

Assiut Faculty of Medicine developed master degree programs' academic standards for different clinical specialties.

In preparing these standards, the General Academic Reference Standards for post graduate programs (GARS) were adopted. These standards set out the graduate attributes and academic characteristics that are expected to be achieved by the end of the program.

These standards were approved by the Faculty Council on 17-6-2009 These standards were revised and approved without changes by the Faculty Council on 23-9-2014.

These standards were re-revised and approved without changes by the Faculty Council on 27-11-2022

4- Program External References(Benchmarks)

1. **ACGME (Accreditation Council for Graduate Medical education).**

2. **(EBERHARD KARLS University www.uni-tuebingen.de.)**

5. Program Structure and Contents

A. **Duration of program: 3 – 5 years**

A. **Duration of program: 3 – 5 years**

B. **Structure of the program:**

180point (20 out of them for thesis(

Didactic# 40 (22.2 %), practical 120 (66.7%), thesis 20

(11.1%),   total 180

First part:

Didactic 14 (35 %), practical 24 (60 %), elective course 2 CP

(5%),   total 40 CP

Second part:

Didactic   24 CP(20%), practical 96CP (80 %), total 120

CP

 #Didactic (lectures, seminars, tutorial).

According the currently applied credit points bylaws:

Total courses 160 credit point

Compulsory courses: 98.9%

Elective course: 2 credit point =1.25%

	Credit points	% from total
Basic science courses	24	13.3%
Humanity and social courses	2	1.1%
Speciality courses	134	74.5%
Others (Computer, …)		
Field training	120	66.7%
Thesis	20	11.1%

C. Program Time Table

A. Duration of program 3 years maximally 5 years divided into

Part 1: (One year)

Program-related basic science courses and ILOs

Students are allowed to sit the exams of these courses after 12 months from applying to the MSc degree.

One elective course can be set during either the 1st or 2nd parts.

For the MSc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis could be set after 12 months from registering the MSc subject;

It should be discussed and accepted before passing the second part of examination)

Part 2 (2 years)

Program –related speciality courses and ILOs

Students are not allowed to sit the exams of these courses before 3 years from applying to the MSc degree.

The students pass if they get 50% from the written exams and 60% from oral and clinical/practical exams of each course and 60% of summation of the written exams, oral and clinical /practical exams of each course.

Total degrees 1900 marks.

700 marks for first part

1200 for second part

Written exam 40% - 70%.

Clinical /practical and oral exams 30% - 60%.

Elective courses 100

D. Curriculum Structure: (Courses / Modules/ units/ rotation): Year 1

The first year of the program is primarily for basic science related medical knowledge (studied in specialized courses over 6-12 months in collaboration with basic sciences departments of Assiut Faculty of Medicine) and a clinical year during which the candidates gain experience with a wide variety of patients in inpatient and outpatient settings, develop proficiency in the performance and appropriate utilization of various procedures, and develop proficiency in the utilization and interpretation of different investigation

testing related to ENT such as different imaging studies, audiological investigation & phoniateric reports. Throughout the year, emphasis is placed on developing:

1) An understanding of basic mechanisms and pathophysiology of different ENT disease, critical illness and basics of otolaryngology head & neck surgery ;

2) The ability to efficiently formulate clinical assessments and therapeutic plans;

3) The ability to critically analyze the relevant medical literature; and

4) Skills in communicating with nursing and medical staff as well as house staff.

The first year, candidates spend the year rotating among five different services:
 Inpatient Wards at Assiut University Hospital;
Emergency Ear -Nose- Throat Surgery at Assiut University Hospital; surgical rooms at Assiut University Hospital; outpatient clinic
These rotations are briefly described below. Years 2 and 3

Although the primary focus of the second and third year is the development of skills and experience in research (see below), senior candidates continue to participate in clinical activities and certain surgical procedures. First, they maintain their longitudinal outpatient and inpatient clinic experience throughout these years. Senior candidates will also actively participate in the regular weekly scientific seminars and collaborate with those candidates in their first year. In addition, candidates rotate through the different inpatient clinical services approximately two months on

clinical rotations. This rotation complements the previous inpatient and outpatient experiences.

Approximately by the end of the first year, candidates are expected to identify a research area in which the subsequent two years will be focused. Together, the trainee and supervisors develop a project for investigation that is of interest to the trainee and within the expertise of the faculty member; in certain instances, joint mentorship provided by two faculty members within the division, or by one divisional faculty member and a collaborator from another unit, is appropriate. By the beginning of the second year, the candidates presents a conference in which he/she synthesizes existing knowledge, presents the problem for investigation, and describes the proposed plan of investigation. The faculty members and candidates in attendance provide feedback to the candidates and supervisors about the proposed project; this process of peer review provides a useful experience for the candidates and often strengthens the experimental approach.

During the second and third years, the trainee carries out the proposed work in the clinical research facilities of the faculty mentor(s). The trainee also benefits from interactions with other trainees, technicians, and collaborating investigators. The trainee also participates in meetings and journal clubs specific to individual research groups. Presenting research findings at regional and national meetings and submitting work for publication are both important aspects of the investigative endeavor. The trainee will receive guidance and specific assistance in learning to prepare data for oral and written presentation, to prepare graphics, and to organize talks and prepare slides. Throughout the two-year research training period, it

is anticipated that the candidates will assume increasing intellectual responsibility and technical independence.

Research Training Pathways

Selection of a research project and supervisors is subject to the approval of the ENT Department council approval and vice-Dean of post graduate studies of the faculty as officially regulated. Candidates may elect either essay or clinically or epidemiologically -based research training pathways. For all research, a research advisory committee will be selected by the candidates based on the approved regulatory rules of the faculty council. This committee will monitor the progress of research and provide advice regarding research training and career development.

D. Curriculum Structure: (Courses):

🔹 courses of the program:

courses	Course Code	Core Credit points		
		Lectures	training	total
First Part				
Basic science Courses (8CP) Course 1: Surgical Anatomy and Embryology of head and neck.	ENT201	2	-	2
Course 2: Pathology & Clinical pathology& Microbiology and Mycology	ENT230A#	4	-	4
Course 3: Applied Physiology of ear, nose and throat	ENT203	2	-	2
General clinical compulsory courses (6 points)		6		
Course 4:-General surgery related to ENT.	ENT211	3		
Course 5: Internal medicine & Neurology	ENT230B#	3		
Elective courses*		2CP		
- Elective course				
Clinical training and scientific activities:				
Clinical training and scientific activities:(10 CP)			10	10
Course 4:-General surgery related to ENT	ENT211		4	
Course 5: Internal medicine & Neurology	ENT230B#		6	
Clinical training and scientific activities in Speciality course (14 CP) **Course6: ENT(Otolaryngology, head and neck) surgery**	ENT230C		14	
Total of the first part		**16**	**24**	**40**

Second Part		Speciality courses 24 CP Speciality Clinical Work (log Book) 96 CP		
Speciality Courses Course 6: ENT(Otolaryngology, head and neck) surgery	ENT230C	24		
Training and practical activities in speciality (96 CP) **(96 CP)** Course 6: ENT(Otolaryngology, head and neck) surgery	ENT230C		96	
Total of the second part		**24**	**96**	**120**
Thesis				**20**
Total of the degree				**180**

 # Didactic (lectures, seminars, tutorial)

* Elective courses can be taken during either the 1st or 2nd parts.

Student work load calculation:

Work load hours are scheduled depending on the type of activities and targeted competences and skills in different courses

Elective Courses#:
- o Medical statistics.
- o Evidence based medicine.
- o Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- o Quality assurance of medical education
- o Quality assurance of clinical practice.
- o Hospital management

One of the above mentioned courses are prerequisites for fulfillment of the degree.

Thesis:

20 CP are appointed to the completion and acceptance of the thesis.

Course 6: ENT(Otolaryngology, head and neck) surgery

Units' Title' list	% from total	Level (Year)	Core Credit points		
			Didactic	training	Total
1) Unit 1 " Otology	70%	1,2&3	17	76.8	93.8
2) Unit 2 " rhinology	10	2&3	3	10.4	13.4
3) Unit 3 " laryngology"	10%	2&3	2	11.4	13.4
	5%	2&3	1	5.7	6.7
4) Unit 4 "head and neck surgery "	5%	2&3	1	5.7	6.7
Total No. of Units:	5	1,2,3	24	110	134

** Different Courses ILOs are arranged to be studied and assessed in the 1st and 2nd parts of the program as scheduled in the program time table.

6. Courses Contents (Annex 1

The competency based objectives for each course/module/rotation are specified in conjunction with teaching/training methods, requirements for achieving these objectives and assessment methods.

See Annex 1 for detailed specifications for each course/ module

7-Admission requirements

➕ **Admission Requirements (prerequisites) if any :**
   I. **General Requirements:**
      a. MBBCh Degree from any Egyptian Faculties of Medicine
      b. Equivalent Degree from medical schools abroad approved by the Ministry of Higher Education
      c. One year appointment within responsible department (for non Assiut University based registrars)
   II. **Specific Requirements:**
      a. Fluent in English (study language)

VACATIONS AND STUDY LEAVE

The current departmental policy is the current departmental policy is to give working residents 2 week leave prior to first/ second part exams.

FEES:

As regulated by the postgraduate studies rules and approved by the faculty vice dean of post graduate studies and the faculty and university councils.

8-Progression and completion requirements

➕ Examinations of the first part could be set at 12 months from registering to the MSc degree.

➕ Examination of the second part cannot be set before 3 years from registering to the degree.

➕ Discussion of the MSc thesis could be set after 1 year from officially registering the MSc subject before setting the second part exams.

The minimum duration of the program is 3 years.

The students are offered the degree when:
1. Passing the exams of all basic science, elective and speciality courses of this program as regulated by the post graduates approved rules by the faculty council.
2. Completing all scheduled CP and log book (minimum 80%).
3. Discussion and acceptance of the MSc thesis.

9- Program assessment methods and rules (Annex IV)

Method	ILOs measured
Written examinations: **Structured essay questions** **Objective questions:** **MCQ** **Problem solving**	**K & I**
Clinical: **Long/short cases** **OSCE**	**K ,I, P &G skills**
Structured oral	**K ,I &G skills**
Logbook assessment	**All**
Research assignment	**I &G skills**

Weighting of assessments:

Courses	Course code	Marks			Total
		Written Exam	Oral Exam*	Surgical or practical / Clinical Exam	
First Part **Basic science courses**					
Course 1 **Surgical Anatomy and Embryology of head and neck.**	**ENT201**	50	50	-	100
Course 2: Pathology & Clinical pathology& Microbiology and Mycology	**ENT230A#**	**100**	**100**	-	**200**
Course 3: Applied Physiology of ear, nose and throat	E**NT203**	**50**	**50**	-	**100**
Course 4:General surgery related to ENT	**ENT211**	60(30+30)	30(15+15)	60(30+30)	150
Course 5 : Internal Medicine& Neurology	**ENT230B#**	60(30+30)	30(15+15)	60(30+30)	150
Second Part **Speciality Courses**					
Course 6 **ENT(otolaryngology head & neck) surgery**	ENT230C	**4 papers= 600 (150 marks for each)**	**200**	600 for clinical and operative exam	1200
Total					1900

* 25% of the oral exam for assessment of logbook

Total degree 1900

700   marks for first part

 1200   for second part

 Written exam -40-%   (480marks).

 Clinical /practical and oral exams -60 % (720 marks)

✚ Examination system:

➢ First part:
- Written and oral exam in first 3 courses
- The remaining 2 clinical courses are assessed by written ,oral and clinical exam.

➢ Second part:
- Written exam 4 papers 3 hour for each paper in specialized course + Oral & clinical and operative exam

➢ Elective courses
- Written exam one paper 1 hour in Elective course + Oral & Practical exam

By whom	method	sample
Quality Assurance Unit	Reports Field visits	#
External Evaluator (s):According to department council External Examiner (s): According to department council	Reports Field visits	#
Stakeholders	Reports Field visits Questionnaires	#
Senior students	Questionnaires	#
Alumni	Questionnaires	#

#Annex 5 contains evaluation templates and reports (Joined in the departmental folder).

11-Declaration

We certify that all of the information required to deliver this program is contained in the above specification and will be implemented.
All course specifications for this program are in place.

Contributor	Name	Signature	Date
▪ **Program Principle Coordinator:**	**Prof Dr. Hamza Al Shafeay**		
▪ **Head of the Responsible Department (Program Academic Director):**	**Prof Dr, Ahmad Abo Elwafa**		

Annex 1, Specifications for Courses / Modules

First Part(Basic science courses):

Course 1: Surgical Anatomy and Embryology of head & neck .

Name of department: Otolaryngology - head & neck surgery.
Faculty of medicine
Assiut University
2022-2023

I. Course data:

- **Course Title**: Surgical Anatomy and Embryology of head & neck.
- **Course code: ENT201**
- **Speciality: Ear -Nose- Throat Surgery**.
- **Number of points: 2 credit point, 2 CP (100%) for didactics, and 0 CP for training. Total 2CP**
- Department (s) delivering the course: Anatomy department in conjunction with Otolaryngology head & neck surgery department.
- Coordinator (s):
  Staff members of Anatomy Department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departmental councils.
- Date last reviewed: 6- 2022.
- General requirements (prerequisites) if any :
  None
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Course Aims

2/1-The student should acquire anatomical and embryological facts of head and neck are necessary for **Ear -Nose- Throat Surgery.**

3. Course intending learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	*Methods of Evaluation*
A-Describe Principles of anatomy and embryology of the head & neck, with emphasis on Ear , Nose, paranasal sinuses, larynx. Pharynx , Esophagus & trachea. • **Temporal bone.** • **Ear**(external, middle,& inner). • **Facial nerve.** • **Nose** (nasal cavity & para nasal sinuses). • **Oral cavity** (Tongue &Palate). • **Pharynx** (nasopharynx, oropharynx & hypopharynx). • **Parapharyngeal & retropharyngeal spaces.** • **Larynx.** • **Head and Neck embryology.** • **Head and neck anatomy.** • **Cranial nerves**. • **Cervical trachea**. • **Cervical oesophagus.**	-Didactics Lectures tutorial.	-Written and oral examination. - Log book

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of anatomy and embryology of head and neck with clinical reasoning, diagnosis and management of common diseases related to Ear -Nose- Throat Surgery.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book

C-Practical skills

Practical skills=0 CP

D-General Skills

Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation and supervision -Written and oral communication	Log book

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
C. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

4. Course contents (topic s/modules/rotation Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
• Anatomy of the temporal bone.	A	A	-	A-D
• Anatomy of the ear(external, middle,& inner).	A	A	-	A-D
• Anatomy of the facial nerve.	A	A	-	A-D
• Anatomy of the nose (nasal cavity & para nasal sinuses).	A	A	-	A-D
• Anatomy of the oral cavity (Tongue &Palate).	A	A	-	A-D
• Anatomy of the pharynx (nasopharynx, oropharynx,& hypopharynx).	A	A	-	A-D
• Anatomy of the parapharyngeal & retropharyngeal spaces.	A	A	-	A-D
• Anatomy of the larynx.	A	A	-	A-D
• Head and Neck embryology.	A	A	-	A-D
• Head and neck anatomy.	A	A	-	A-D
• Anatomy of the cranial nerves.	A	A	-	A-D
• Cervical trachea.	A	A	-	A-D
• Cervical oesophagus.	A	A	-	A-D

5. Course Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial).
2. Work in the dissection room in anatomy department.
3. Observation and supervision.
4. Written & oral communication.
5. Senior staff experience.

6. Course Methods of teaching/learning: for students with poor achievements

Extra Didactic hours (lectures, seminars, tutorial) according to their needs.

7. Course assessment methods:

i. Assessment tools:
1- Written and oral examination
2- Assessment of practical skills.
3- Log book

ii. Time schedule: At the end of the first part
iii. Marks: 100 marks.

8. List of references

i. Lectures notes
- Course notes
- Staff members print out of lectures and/or CD copies

ii. Essential books
- Illustrated human anatomy for medical students (Head&Neck).
- Elshenawi 's Otolaryngology
- Logan Turner's Otolaryngology
- Diseases of the ear a textbook of otology.Fourth Edition Dr.Stuart R. Mawson.
- Synopsis of Otolaryngology
- Scott Brown 's Otolaryngology.

9. Signatures

Course Coordinator:	Head of the Department:
Date:	Date:

Course 2: Pathology &Clinical pathology& Microbiology, Mycology.

Course 2; Module (unit) 1: Pathology.

1. Module (unit) data

- **Module (unit)** : **Pathology**
- **Course code: ENT 230A#**
- **Speciality:** Ear -Nose- Throat Surgery**.**
- **Number of Points: didactics 2 CP (100%), training 0CP (0%), Total 2 CP.**
- **Department (s) delivering the course: Pathology department in conjunction with Otolaryngology head & neck surgery department.**
- **Coordinator (s):**
  Staff members of Pathology Department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departments' councils.
- **Date last reviewed: 6/ 2022.**
- **General requirements (prerequisites) if any :**
  None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2. Module (unit) aims

2/1-The student should acquire the pathological facts necessary for Ear -Nose- Throat Surgery.

3. Intending learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Illustrate the following essential Principles of General Pathology: - Inflammation. - Immunity. - Bacterial infection. - Vascular disorders. - Disturbance of growth. - Pathology of tumors - Diagnostic cytology.	-didactics Lectures	-Written and oral examination - Log book
B-Describe the following Pathologic Details related to ENT : -Ear diseases. -Nasal & paranasal sinuses diseases. -Oral & Salivary gland diseases. -Pharyngeal diseases. -Laryngeal diseases.		

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the mentioned facts of Pathology with clinical reasoning, diagnosis and management of common diseases related to Ear -Nose- Throat Surgery**.**	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book

C- Practical skills
Practical skills =0 skills
D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation and supervision -Written and oral communication	Log book

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
C. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
1-**Principles of General Pathology of:**				
- Inflammation.	A	A	-	A-D
- Immunity.	A	A	-	A-D
- Bacterial infection.	A	A	-	A-D
- Vascular disorders.	A	A-B	-	A-D
- Disturbance of growth.	A	A-B	-	A-D
- Pathology of tumors	A	A-B	-	A-D
- Diagnostic cytology.	A	A-B	-	A-D
2-**Pathologic Details of:**				
Ear diseases.	A	A-B	-	A-D
-Nasal & paranasal sinuses diseases.	A	A-B	-	A-D
-Oral & Salivary gland diseases.	A	A-B	-	A-D
-Pharyngeal diseases.	A	A-B	-	A-D
-Laryngeal diseases.	A	A-B	-	A-D

5. Methods of teaching/learning:

-Didactic (lectures, seminars, tutorial)
-Laboratory work
-Observation and supervision
-Written & oral communication
-Senior staff experience

6. Methods of teaching/learning: for students with poor achievements

- Extra Didactic (lectures, seminars, tutorial) according to their needs
- Extra Laboratory work according to their needs.

7. Assessment methods:

i. Assessment tools:
- Written and oral examination
- Assessment of practical skills)
- Log book

ii. Time schedule: At the end of the first part

iii. Marks: 100 marks (50 marks for written exam + 50 marks for oral exam).

8. List of references

i. Lectures notes
- Course notes
- Staff members print out of lectures and/or CD copies

ii. Essential books

1- Principles of pathology (General &Special) Dr. Gamal Nada.
2- Diseases of the ear a textbook of otology. Dr.Stuart R. Mawson.
3- Kaser El Aini INTRODUCTION TO SURGERY 2010.
4- Logan Turner's Otolaryngology 11th edition (December 8, 2015).
5- Synopsis of Otolaryngology 5th edition (January 20, 1992).
6- Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

Course 2; Module(unit) 2: Clinical Pathology.

1. Module (unit) data

- Unit Title: **Clinical Pathology.**
- Unit code:ENT230A#

- **Speciality:** Ear -Nose- Throat Surgery**.**
  - **Number of Credit points (CP): Didactics 1 CP (100%), training 0CP (0%), Total 1 CP.**

Department (s) delivering the course: Clinical Pathology department in conjunction with Otolaryngology head & neck surgery department.

- **Coordinator (s):**
  Staff members of Clinical Pathology Department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departmental councils.
- **Date last reviewed: 6/ 2022.**
- **General requirements (prerequisites) if any :**
  None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2-unit   Aims

2/1-The student should acquire the facts of Clinical Pathology that are essential for clinical management of ENT conditions (diseases& surgery).

3. Intending learning outcomes (ILOs):

A- Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A-**Describe the essential clinical pathology principles related to ENT speciality including the following:** 1-Blood analysis. 2- Blood elements & blood transfusion. 3-Urine analysis& renal function tests. 4-Serology & liver function tests. 5-Sugar analysis (Blood& urine). 6-CSF analysis. 7-Immunoglobulins. 8-ESR, ASOT & C Reactive protein.	-didactics Lectures	-Written and oral examination - Log book

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of clinical pathology (mentioned above) with clinical reasoning, diagnosis and management of common diseases related to ENT speciality.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book

C- Practical skills

Practical skills =0 CP

D-General Skills

Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation and supervision -Written and oral communication	Log book

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
C. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

4. Contents (topic s/modules/rotation
Module Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
1-Blood analysis.	**A**	**A**	**-**	**A-D**
2-Blood elements & blood transfusion.	**A**	**A**	**-**	**A-D**
3-Urine analysis& renal function tests.	**A**	**A**	**-**	**A-D**
4-Serology & liver function tests.	**A**	**A**	**-**	**A-D**
5-Sugar analysis (Blood& urine).	**A**	**A**	**-**	**A-D**
6-CSF analysis.	**A**	**A**	**-**	**A-D**
7-Immunoglobulins.	**A**	**A**	**-**	**A-D**
8-ESR, ASOT & C Reactive protein.	**A**	**A**	**-**	**A-D**

5. Methods of teaching/learning:

-Didactic (lectures, seminars, tutorial)
-Laboratory work
-Observation and supervision
-Written & oral communication
-Senior staff experience

6. Methods of teaching/learning: for students with poor achievements

- Extra Didactic (lectures, seminars, tutorial) according to their needs
- Extra Laboratory work according to their needs.

7. Assessment methods:

i. Assessment tools:
- Written and oral examination
- Assessment of practical skills)
- Log book

ii. Time schedule: At the end of the first part**.**

iii. Marks: 50 marks (25 marks for written exam+ 25 marks for oral exam).

8. List of references

i. Lectures notes

7- Course notes

8- Staff members print out of lectures and/or CD copies.

Course 2; Module (unit) 3: Microbiology, Mycology.

1. Module (unit) data

- **Unit Title: Microbiology, Mycology.**
- **Unit code: ENT230A#**

- **Speciality:** Ear -Nose- Throat Surgery.

- **Number of Credit points (CP): Didactics 1 CP (100%), training 0CP (0%), Total 1 CP.**

- **Department (s) delivering the course: Microbiology &Immunology department in conjunction with Otolaryngology head & neck surgery department.**

- **Coordinator (s):**
  Staff members of Microbiology &Immunology Department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departmental councils.
- **Date last reviewed: 6/2022.**
- **General requirements (prerequisites) if any :**
  None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2. Unit Aims

2/1-The student should acquire the facts of microbiology& mycology, that are necessary for Ear -Nose- Throat Surgery.

3. Intending learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A- Describe the essential principles related to ENT Diseases including the following: **1-General bacteriology:** • Bacterial structure, growth and metabolism. • Bacterial genetics. • Antimicrobial agents and resistance to antimicrobials. • Pathogenecity of microorganism. • Diagnostic microbiology. **2-Immunology:** • Basic immunology • Immunologic diagnostic test and serology • Hypersensitivity. • Tumor immunology • Immunogenetics and transplantation immunology **3-General virology:** • Pathogenesis of viral disease. • Interferon and antiviral agents. **4-Mycology.** **5-Sterilization:** **6-Microorganism encountered in ENT diseases and infections** (staph, strept, Pneumococci, H influenza, TB, syphilis, leprosy and scleroma).	-Lectures -didactics	-Written and oral examination - Log book

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of microbiology with clinical reasoning, diagnosis and management of common diseases related to Ear -Nose- Throat Surgery.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book

C- Practical skills
Practical skills =0 CP

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation and supervision -Written and oral communication	Log book

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
C. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
1-General bacteriology: • Bacterial structure, growth and metabolism. • Bacterial genetics. • Antimicrobial agents and resistance to antimicrobials. • Pathogenecity of microorganism. • Diagnostic microbiology.	A	A	-	A-D
2-Immunology: • Basic immunology • Immunologic diagnostic test and serology • Hypersensitivity. • Tumor immunology Immunogenetics and transplantation immunology	A	A	-	A-D
3-General virology: • Pathogenesis of viral disease. • Interferon and antiviral agents.	A	A	-	A-D
4-Mycology:	A	A	-	A-D
5-Sterilization:	A	A	-	A-D

6-Microorganism encountered in ENT diseases and infections (staph, strept, Pneumococci, H influenza, TB, syphilis, leprosy and scleroma	A	A	-	A-D

5. Methods of teaching/learning:

- Didactic (lectures, seminars, tutorial)

- Laboratory work

- Observation and supervision

- Written & oral communication

- Senior staff experience

6. Methods of teaching/learning: for students with poor achievements

- Extra Didactic (lectures, seminars, tutorial) according to their needs

- Extra Laboratory work according to their needs

7. Assessment methods:

i. Assessment tools:

    1-Written and oral examination

    2-Assessment of practical skills)

    3-Log book

ii. Time schedule: At the end of the first part

iii. Marks: 50 marks(25 marks for written exam+ 25 marks for oral exam).

8. List of references

    i. Lectures notes

-Course notes

 -Staff members print out of lectures and/or CD copies

    ii. Essential books

- Principles of Microbiology & Immunology.(Dr.Ablaa El Mashad).

9. Signatures

Course Coordinator	
Unit 1 Coordinator: …………………………….	**Head of the Department:** ……………………
Date: ……………………………	**Date:** ……………………………
Unit 2 Coordinator: …………………………….	**Head of the Department:** ……………………
Date: ……………………………	**Date:** ……………………………
Unit 3 Coordinator: …………………………….	**Head of the Department:** ……………………
Date: ……………………………	**Date:** ……………………………

Course 3: Applied Physiology of ear, nose and throat

1. Course data:

- Course Title: Applied physiology of ear, nose and throat.
- Course code: ENT203.

- **Speciality :** Ear -Nose- Throat Surgery**.**

- **Number of credit points: 2 credit point, 2 CP(100%) for didactics, and 0 CP for training. Total ;2 CP.**

- Department (s) delivering the course: Physiology department in conjunction with Otolaryngology head & neck surgery department.

- Coordinator (s):
  Staff members of physiology Department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departments' councils.

- Date last reviewed: 6/2022.

- General requirements (prerequisites) if any :
  None
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Course Aims

2/1-The student should acquire the physiological Background necessary for Ear -Nose- Throat Surgery in clinical reasoning, diagnosis and management of ENT diseases.

3. Intending learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation

A- *Describe Physiologic Principles related to Hearing, Balance, Voice production, Swallowing & nasal functions* as follow:
Special sense:
  i.   Hearing and equilibrium
  ii. Smell ,taste &functions of the nose
  iii. phonation
  iv. Deglutition and swallowing
A. Central nervous system
    Pain sensation
B. Circulation
  • Shock
  • Homeostasis
C. Respiration
  i.   Mechanism of respiration
  ii. Acidosis & alkalosis
  iii. Hypoxia & cyanosis
D. Digestive
  I.   Salivation
  II. Deglutition
  III. Vomiting
	-Didactic
	-Lectures
		-Written and oral examination
		- Log book

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of Physiology(mentioned above) with clinical reasoning, diagnosis and management of common diseases related to Ear - Nose- Throat Surgery**.**	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Ear -Nose- Throat Surgery**.**		

C- Practical skills

Practical: 0 hours

D- General Skills

Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform data management including data entry and analysis.	-Observation and supervision -Written and oral communication	Log book

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.	-Observation and supervision -Written and oral communication	Log book

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
C. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	-Observation -Senior staff experience	Logbook

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
D. Work effectively in relevant health care delivery settings and systems.	-Observation -Senior staff experience	Logbook

4- Contents (topic s/modules/rotation
Module Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
A-Special sense: 1. Hearing and equilibrium. 2. Smell ,taste &functions of the nose. 3. Phonation. 4. Deglutition and swallowing.	A	A,B	-	A-D
B-Central nervous system: Pain sensation.	A	A,B	-	A-D
C- Circulation: Shock. Homeostasis	A	A,B	-	A-D
D. Respiration 1. Mechanism of respiration. 2. Acidosis & alkalosis. 3. Hyopxia & cyanosis.	A	A,B	-	A-D
-E. Digestive 1. Salivation 2. Deglutition 3. Vomiting	A	A,B	-	A-D

5. Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial)
2. Observation
3. Written & oral communication
4. Senior staff experience

6. Methods of teaching/learning: for students with poor achievements

Extra Didactic (lectures, seminars, tutorial) according to their needs

7. assessment methods:

i. Assessment tools:
   1- Written and oral examination
   2- Log book
ii. Time schedule: At the end of the first part
iii. Marks: 100(50 written+50 oral exam).

8. List of references

i. Lectures notes
9- Staff members print out of lectures and/or CD copies
10-   Medical physiology books by Staff Members of the Department of Medical physiology -Assiut University.
ii. Essential books

1- Kaser El Aini INTRODUCTION TO SURGERY 2010.

2- Logan Turner's Otolaryngology 11th edition (December 8, 2015).

3- Synopsis of Otolaryngology 5th edition (January 20, 1992).

4- Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

9. Signature

Course Coordinator	Head of the Department:
Date:	Date:

Course 4: General Surgery related to ENT surgery.

1. Course data

- **Course Title: General Surgery related to ENT surgery.**

- **Course code: ENT211**

- **Speciality:** Ear -Nose- Throat Surgery**.**

- **Number of Credit points(CP): didactics 3CP(42.8%) and 4CP for training(57.2%), total 7CP(100%)**

- **Department (s) delivering the course: Otolaryngeal -head neck surgery department in conjunction with Otolaryngology head & neck surgery department.**
- **Coordinator (s):**
  Staff members of Otolaryngeal -head neck surgery department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departmental councils.
- **Date last reviewed: 97/2022.**
- **General requirements (prerequisites) if any :**
  None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2. Course aims

2/1- To make the students able to be familiar with the diagnosis and management of common surgical problems that may be encountered with Ear -Nose- Throat Surgery.

2/2- To make the students able to deal with surgical emergencies safely and effectively as regard their investigation and management.

3. Intending learning outcomes (ILOs):

A-Knowledge and understanding

ILOs		Methods of teaching/ learning	Methods of Evaluation
	A- Illustrate the essential principles of general surgery related to ENT surgery including the following:	-Didactic (lectures, seminars, tutorial) -Case presentation	- Written and oral examination - Log book
	- Basics of general surgery		
	- Chemotherapy & radiotherapy		
	- Lymphadenopathy		
	- Shock, hemorrhage, blood transfusion		
	- Head & neck surgery		
	- Faciomaxillary fractures		
	- Fracture base of skull		
	- Dysphagia		
	- Neck swellings		
	- Thyroid, parathyroid		
	- Parotid swellings		
	- Tongue diseases		
	- Jaw swellings		
	- Brain abscess		
	- Cleft lip & palate		

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the mentioned surgical facts of relevant to basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to general surgery concerned with ENT surgery.	-Clinical rounds Senior staff experience	-Logbook and Portfolios -Procedure and case presentation
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related general surgery concerned with ENT surgery.		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Ear -Nose- Throat Surgery.		

C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	-OSCE -log book & portfolio -Clinical exam in

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club).	-Journal clubs - Discussions in seminars and clinical rounds	
C. Perform data management including data entry and analysis.		
D. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
E. Maintain therapeutic and ethically sound relationship with patients.	Clinical round Seminars Lectures Case presentation	Global rating Procedure/case presentation Log book Portfolios Chick list
F. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		

ILOs	Methods of teaching/ learning	Methods of Evaluation
G. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Work effectively with others as a member of a health care team or other professional group.		
I. Present a case in common problems related to Internal Medicine.	Clinical round Seminars	Clinical Exam

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
K. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		1. 360o global rating
L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		1. Objective structured clinical examination 2. 360o global rating

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	Patient survey
N. Practice cost-effective health care and resource allocation that does not compromise quality of care.		Check list evaluation of live or recorded performance
O. Assist patients in dealing with system complexities.		Patient survey

4. Course contents (topic s/modules/rotation
Course Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
Basics of otolaryngeal - head neck surgery	A	A -D	A	A-O
Chemotherapy & radiotherapy	A	A-D	A	A-O
Lymphadenopathy	A	A -D	A	A-O
Shock, hemorrhage, blood transfusion	A	A-D	A	A-O
Head & neck surgery	A	A -D	A	A-O
Faciomaxillary fractures	A	A-D	A	A-O
Fracture base of skull	A	A -D	A	A-O
Dysphagia	A	A-D	A	A-O
Neck swellings	A	A -D	A	A-O
Thyroid, parathyroid	A	A-D	A	A-O
Parotid swellings	A	A -D	A	A-O
Tongue diseases	A	A-D	A	A-O
Jaw swellings	A	A -D	A	A-O
Brain abscess	A	A-D	A	A-O
Cleft lip & palate	A	A -D	A	A-O

5. Course Methods of teaching/learning:

-Didactic ; Lectures **,**tutorial

-Clinical rounds

-Seminars

-Clinical rotations

-Service teaching

-Post graduate teaching

-Perform under supervision of senior staff

-Case presentation

-Written & oral communication

-Observation

6. Course Methods of teaching/learning: for students with poor achievements

- Extra Didactic hours (lectures, seminars, tutorial) according to their needs
- Extra Laboratory work according to their needs

7. Course assessment methods:

i. Assessment tools:

1. Clinical examination
2. Written and oral examination
3. Chick list
4. log book & portfolio
5. Procedure/case presentation
6. Objective structured clinical examination
7. Check list evaluation of live or recorded performance
8. Patient survey

ii. Time schedule: At the end of the first part

iii. Marks: 150 marks(90 written+30 oral+60 clinical exam).

8. List of references

i. Lectures notes:

5- Course notes

6- Staff members print out of lectures and/or CD copies.

ii. Essential books

1- Kaser El Aini INTRODUCTION TO SURGERY 2010.

2- Logan Turner's Otolaryngology 11th edition (December 8, 2015).

3- Synopsis of Otolaryngology 5th edition (January 20, 1992).

4- Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

9. Signatures

Course Coordinator	
Course Coordinator: ………………………………….	**Head of the Department:** ……………………
Date: …………………………………	**Date:** …………………………………

Course 5: Internal Medicine &Neurology.

It is composed of 2 **Modules** (units);

- **Module** (Unit) 1 internal medicine,
- **Module** (Unit) 2 Neurology.

Course 5; Module (unit) 1: Internal Medicine

1. Module (unit) data

- Unit Title: **Internal Medicine.**
- Unit code: ENT230B#

- **Speciality :** Ear -Nose- Throat Surgery**.**

- **Number of credit points (CP): Didactics; 1.5CP (33.3%); 3CP (66.7%) for training and total 4.5CP (100%).**

- **Department (s) delivering the course: Internal Medicine department in conjunction with Otolaryngology head & neck surgery department.**
- **Coordinator (s):**
  Staff members of Internal Medicine department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departments councils.
- **Date last reviewed: 6/2022.**
- **General requirements (prerequisites) if any :**
  None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2. Module (unit) aims

2/1-To make the students able to be familiar with the diagnosis and management of common medical problems that may be encountered with Ear -Nose- Throat Surgery.

2/2- To make the students able to deal with medical emergencies safely and effectively as regard their investigation and management.

3. Intending learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation

A- Describe the essential internal medicine principles related to ENT Surgery including the following:
  - Basics of general medicine
  - Haematology
  - Rheumatology
  • SLE
  • Rheumatoid arthritis
  • Endocrinology
• pituitary gland
• thyroid gland
• parathyroid gland
• Diabetes mellitus
• Gastroenterology.
• Hepatology Liver cell failure
Cardiology
  • Hypertension
  • Ischamic heart disease
  • Arrhythmia
  • Rheumatic heart disease
Renal (acute & chronic renal failure)
Drugs affecting the ear
	-Didactic (lectures, seminars, tutorial)	- Written and oral examination
		- Log book

B- Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases in **Internal** Medicine **related to ENT surgery.**	-Clinical rounds Senior staff experience case presentation	-Logbook and Portfolios -Procedure and case presentation
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Internal Medicine that mentioned above.		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Internal Medicine **related to ENT surgery**.		

C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service	-OSCE -log book & portfolio -Clinical exam in internal medicine

	teaching)	
B. Order the following non invasive diagnostic procedures: -Routine appropriate Lab investigations related to conditions mentioned in A.A -ECG -Chest X-ray - ESR, blood culture. -Echocardiography. -Blood picture -Blood chemistry -Metabolic profile:[i.e. serum electrolytes] -Endocrinal profile Rheumatoid factor, ANF, LE cells.	-Clinical round with senior staff Observation -Post graduate teaching	-Procedure presentation - Log book - Chick list
C. Interpret the following non invasive&invasive diagnostic procedures -Routine appropriate Lab investigations related to conditions mentioned in A.A -ECG -Chest X-ray - ESR, blood culture. -Echocardiography. -Blood picture -Blood chemistry -Metabolic profile:[i.e. serum electrolytes] -Endocrinal profile Rheumatoid factor, ANF, LE cells.	Clinical round with senior staff	Procedure presentation - Log book - Chick list

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies (journal club).	-Journal clubs - Discussions in seminars and clinical rounds	
C. Perform data management including data entry and analysis.		
D. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
E. Maintain therapeutic and ethically sound relationship with patients.	Clinical round Seminars Lectures Case presentation	Global rating Procedure/case presentation Log book Portfolios Chick list
F. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
G. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Work effectively with others as a member of a health care team or other professional group.		
I. Present a case in common problems related to Internal Medicine.	Clinical round Seminars	Clinical Exam

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
K. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		1. 360o global rating
L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		1. Objective structured clinical examination 2. 360o global rating

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
N. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
O. Assist patients in dealing with system complexities.		1. 360o global rating 2. Patient survey

4. Contents (topic s/modules/rotation)
Module Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
Basics of general medicine	A	A- D	A-C	A-O
Haematology	A	A- D	A-C	A-O
Rheumatology	A	A- D	A-C	A-O
SLE	A	A- D	A-C	A-O
Rheumatoid arthritis	A	A- D	A-C	A-O
Endocrinology	A	A- D	A-C	A-O
pituitary gland	A	A- D	A-C	A-O
thyroid gland	A	A- D	A-C	A-O
parathyroid gland	A	A- D	A-C	A-O
Diabetes mellitus	A	A- D	A-C	A-O
Gastroenterology	A	A- D	A-C	A-O
Hepatology Liver cell failure	A	A- D	A-C	A-O
Cardiology	A	A- D	A-C	A-O
Hypertension	A	A- D	A-C	A-O
Ischamic heart disease	A	A- D	A-C	A-O
Arrhythmia	A	A- D	A-C	A-O
Rheumatic heart disease	A	A- D	A-C	A-O
Renal (acute & chronic renal failure)	A	A- D	A-C	A-O
Drugs affecting the ear	A	A- D	A-C	A-O

5. Methods of teaching/learning:

- Didactic ; Lectures
- Clinical rounds
- Seminars

- Clinical rotations
- Service teaching
- Post graduate teaching
- Perform under supervision of senior staff
- Case presentation
- Written & oral communication
- Observation

6. Methods of teaching/learning: for students with poor achievements

- Extra Didactic (lectures, seminars, tutorial) according to their needs
- Extra Laboratory work according to their needs.

7. Assessment methods:

i. Assessment tools:
1. Clinical examination
2. Written and oral examination
3. Chick list
4. log book & portfolio
5. Procedure/case presentation
6. Objective structured clinical examination
7. Check list evaluation of live or recorded performance
8. Patient survey

ii. Time schedule: At the end of the first part
iii. Marks: 75 Marks (30 written+ 45 clinical& oral).

8. List of references

i. Lectures notes
5- Course notes
6- Staff members print out of lectures and/or
   CD copies.

ii. Essential books
-Davidson of Internal medicine.

Course 5 Internal Medicine &Neurology.

Course 5; Module (unit)2: Neurology

1. Module (unit)2: data

+ **Unit Title: Neurology.**
+ **Unit code: ENT230B#**

+ **Speciality :** Ear -Nose- Throat Surgery.

+ **Number of Credit points(CP):Didactics 1.5CP (33.3%), 3CP(66.7%) for training, total 4.5CP(100%).**

   + **Department (s) delivering the course: Neurology department in conjunction with Otolaryngology head & neck surgery department.**
+ **Coordinator (s):**
   Staff members of Neurology department in conjunction with Otolaryngology head & neck surgery Department as annually approved by both departments councils.
+ **Date last reviewed: 6/ 2022.**
+ **General requirements (prerequisites) if any :**
   None
+ **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2. Module (unit)2 aims

2/1-To makes the students able to be familiar with the diagnosis and management of common neurological problems that may be encountered with Ear -Nose- Throat Surgery.

2/2- To make the students able to deal with neurological emergencies safely and effectively as regard their investigation and management.

3. Intending learning outcomes (ILOs):

A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A- Describe the essential principles of the following Neurological topics related to ENT surgery (as regard pathogenesis, clinical presentation and management): . *hemiplegia, *CVS. *CNS infection. *headache. *Peripheral neuropathy, *muscle diseases. *brain tumors& increased ICT. *Bell's palsy. *cerebellar ataxia. *speech disorders. *epilepsy. *bulbar palsy.	-Didactic (lectures, seminars, tutorial)	- Written and oral examination - Log book
B-Identify the following essential principles of clinical neurology related to ENT Surgery: *Neurophysiology& neuroanatomy. *History case taking. * Gait disorders.		

B-Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to neurology in ENT Surgery.	-Clinical rounds Senior staff experience case presentation	-Logbook and Portfolios -Procedure and case presentation
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to neurology in ENT Surgery.		
C. Design and present cases , seminars in common problem mentioned in AA,AB		
D-Formulate management plans and alternative decisions in different situations in the field of neurology related to ENT Surgery..		

C-Practical skills (Patient Care)

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	-Didactic; -Lectures -Clinical rounds -Seminars -Clinical rotations (service teaching)	-OSCE -log book & portfolio -Clinical exam in internal medicine

B. Order the following non invasive diagnostic procedures: -Routine appropriate Lab investigations related to conditions mentioned in A.A EEG, CT brain, MCV, EMG.	-Clinical round with senior staff Observation -Post graduate teaching.	-Procedure presentation - Log book - Chick list
C. Interpret the following non invasive diagnostic procedures -Routine appropriate Lab investigations related to conditions mentioned in A.A.	Clinical round with senior staff	Procedure presentation - Log book - Chick list

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club).	-Journal clubs - Discussions in seminars and clinical rounds	
C. Perform data management including data entry and analysis.		
D. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
E. Maintain therapeutic and ethically sound relationship with patients.	Clinical round Seminars Lectures Case presentation	Global rating Procedure/case presentation Log book Portfolios Chick list
F. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
G. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Work effectively with others as a member of a health care team or other professional group.		
I. Present a case in common problems related to Internal Medicine.	Clinical round Seminars	Clinical Exam

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
K. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		1. 360o global rating
L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		1. Objective structured clinical examination 2. 360o global rating

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
N. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
O. Assist patients in dealing with system complexities.		1. 360o global rating 2. Patient survey.

4. Contents (topic s/modules/rotation Module Matrix

Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
Neurology related to ENT surgery:				
*hemiplegia,	**A,B**	**A- D**	**A-C**	**A-O**
*CVS.	**A,B**	**A- D**	**A=C**	
*CNS infection.	**A,B**	**A-D**	**A-C**	**A-O**
*headache.	**A,B**	**A-D**		
*Peripheral neuropathy,	**A,B**	**A-D**	**A-C**	**A-O**
*muscle diseases.	**A,B**	**A-D**	**A-C**	**A-O**
*brain tumors& increased ICT.	**A,B**	**A-D**	**A-C**	**A-O**
*Bell's palsy.	A,B	**A- D**	A-C	A-O
*cerebellar ataxia.	**A ,B**	**A- D**	**A-C**	**A-O**
*speech disorders.	**A,B**	**A- D**	**A-C**	**A-O**
*epilepsy.	**A,B**	**A- D**	**A-C**	**A-O**
*bulbar palsy.	A,B	A-D	A-C	A-O
*history case taking.	**B**	**A**	**A**	**A-D**
Neuroanatomy & neurophysiology	**B**	**A**	**-**	**A-D**
*gait disorders.	**B**	**A- D**	**A-C**	**A-O**

5. Methods of teaching/learning:

- Didactic ; Lectures
- Clinical rounds
- Seminars
- Clinical rotations
- Service teaching
- Post graduate teaching
- Perform under supervision of senior staff
- Case presentation
- Written & oral communication
- Observation

6. Methods of teaching/learning: for students with poor achievements

- Extra Didactic (lectures, seminars, tutorial) according to their needs
- Extra Laboratory work according to their needs

7. Assessment methods:

i. Assessment tools:
- Clinical examination
- Written and oral examination
- Chick list
- log book & portfolio

ii. Time schedule: At the end of the first part
iii. Marks: 75 Marks (30 written+ 45 clinical& oral exam.

8. List of references

i. Lectures notes

7- Course notes

8- Staff members print out of lectures and/or
   CD copies

ii. Essential books

-Clinical neurology notes of Neurology and
Psychiatry department.

9. Signatures

Course Coordinator	
Unit 1 Coordinator: ………………………….	**Head of the Department:** …………………
Date: ………………………	**Date: …………………………**
Unit 2 Coordinator: ………………………….	**Head of the Department:** …………………
Date: ………………………	**Date: …………………………**

Second part(Speciality course)

Course 6 : ENT(*Otolaryngology -head & neck)surgery.*

Name of department: Otolaryngology head & neck surgery.
Faculty of medicine
Assiut University
2022-2023

1. Course data

- Course Title: ENT(*Otolaryngology head & neck)surgery.*
- Course code: ENT230C.
- Speciality*: Ear- Nose- Throat surgery.*
- Number of credit points: didactics 24CP(17.9%). 110 CP(82.1%) for training and total 134CP (100%).
- Department (s) delivering the course: Department of Otolaryngology head & neck surgery- Faculty of Medicine- Assiut University.

- Coordinator (s):
  Course coordinator: Prof Dr:HamzaAlShafeay.
  Assistant coordinator (s) :
  　　　　　Prof.Dr: Ali Ragai Abdalhakiem.
  　　　　　Prof. Dr: Ezzat Mohammed Saleh.

- Date last reviewed: 6/2022.
- General requirements (prerequisites) if any :
  None
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

This course consists of 6 Modules:
　　　Module 1: Otology &Neurotology.
　　　Module 2: Rhinology.
　　　Module 3: Laryngology.
　　　Module 4: Head and neck surgery.
　　　Module 5: Basics of Audiology
　　　Module 6: Basics of Phoniaterics

Time schedule for this course

Units' Titles' list	% from total Marks	Level (Year)	Core Credit points				
			Didactic		training		Total
			1st	2nd	1st	2nd	
*Unit 1:Otology&Neurotology.	39.7%	1,2&3	-	8.7	6.5	38	**53.2**
* Unit 2: Rhinology.	20.4%	1,2&3	-	4.3	3	20	**27.3**
*Unit 3: Laryngotracheobronchology.	15.3%	1,2&3	-	3.3	2.25	15	**20.55**
*Unit 4: Pharyngoesophageal , Head and neck surgery.	15.3%	1,2&3	-	3.3	2.25	15	**20.55**
* Unit 5: Basics of Audiology.	3.9%	3		1.2	-	4	**5.2**
*unit 6: Basics of Phoniaterics	3.9%	3		1.2	-	4	**5.2**
Total No. of Units:	6		-	22+2$	14	96	132+2
			24		110		134

Course Title: ENT (*Otolaryngology head & neck) surgery.*
Course code: ENT230C
Speciality*: Ear- Nose- Throat surgery.*
Number of credit points: didactics 21.6CP (16.1%). 102 CP(76.1%) for training and total 123.6CP (92.2%)
Department (s) delivering the course: Department of Otolaryngology head & neck surgery- Faculty of Medicine- Assiut University.

- Unit (Module) 1: Otology&Neurotology.
- Unit (Module) 2: Rhinology.
- Unit (Module)3: Laryngotracheobronchology.
- Unit (Module) 4: Pharyngoesophageal , Head and neck surgery.

Coordinator (s):
    Course coordinator: **Prof.Dr:Ahmed Abdel Alieem.**
    Assistant coordinator (s)
Prof.Dr: FaridHessin El Weshah
Prof.Dr: Ali RagaiAbdalhakiem
Prof.Dr: Mahmoud RagibAlsherif
Prof. Dr: Ezzat Mohammed Saleh
Date last reviewed: 6/2022
General requirements (prerequisites) if any:
    None
Requirements from the students to achieve course ILOs are clarified in the joining log book.

2. Units (1-4) Aims

2/1. To enable candidates to keep with international standards of ENT patients care by teaching high level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of ENT surgery in addition to surgical skills for emergency and minor, moderate surgical procedures

2/2. Provide residents with fundamental knowledge of Ear-Nose -Throat surgery as regards; dealing with critically ill ENT patients, ENT equipments, techniques, indications, contraindications and training skills of different surgical techniques.

2/3. To introduce candidates to the basics of scientific medical research.

2/4. <u>To provide the candidates with master degree:</u>

- Enabling them to start professional careers as specialists in Egypt.
- Making them recognized as specialists abroad.
- Enabling them to pursue higher studies and subspecialties.
- Enabling them to understand and get the best of published scientific research and do their own.
- Candidatess will gather essential and accurate information by performing complete and clinically-relevant history and physical exam.
- Candidatess will understand how to order and interpret appropriate diagnostic tests.
- Candidates will make informed diagnostic and treatment decisions by analyzing and synthesizing information obtained from the investigations done.
- Candidates will develop and carry out care plans.
- Candidates will maintain comprehensive, timely, effective, and legible medical records.
- Candidates will effectively counsel patients and families.
- Candidates will use consultants and referrals appropriately.

3. Units (1-4) intending learning outcomes (ILOs):

A. Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Describe the etiology, clinical picture, diagnosis and management of the following diseases and clinical conditions: • Acute infection : URT , Rhinitis, sinusitis, tonsillitis, acute otitis media , pharyngitis and laryngitis. • chronic tonsillitis & its complications. • chronic sinusitis & its complications. • chronic suppurative otitis medi & cholesteatoma & its complications. • Non suppurative Otitis media. • Qunizy & other neck suppurations. • Nasal & laryngeal granulomas. • Fungal diseases (Otomycosis, moniliasis, fungal rhinosinsitis,……..etc • Allergic rhinitis. • Head & neck tumors. • Pharyngeal manifestations of systemic diseases. • Developmental disorders of the ENT and neck. • Diseases of the ear (external, middle& internal). • Diseases of the nose. • Diseases of the Pharynx. • Anomalies and diseases of the larynx. • Diseases of the oesophagus. • Disorders of the facial nerve. • Neurological affection of the pharynx & larynx. • Diseases of the temporal bone.	-Lectures. didactics tutorial seminars	-Written and oral examination. - Log book

B. Mention the principles of : • Acute infection : URT , Rhinitis, sinusitis, tonsillitis, acute otitis media , pharyngitis and laryngitis. • chronic tonsillitis & its complications. • chronic sinusitis & its complications. • chronic suppurative otitis medi & cholesteatoma & its complications. • Non suppurative Otitis media. • Qunizy & other neck suppurations. • Nasal & laryngeal granulomas. • Fungal diseases (Otomycosis, moniliasis, fungal rhinosinsitis,……..etc • Allergic rhinitis. • Head & neck tumors. • Pharyngeal manifestations of systemic diseases. • Developmental disorders of the ENT and neck. • Diseases of the ear (external, middle& internal). • Diseases of the nose. • Diseases of the Pharynx. • Anomalies and diseases of the larynx. • Diseases of the oesophagus. • Disorders of the facial nerve. • Neurological affection of the pharynx & larynx. • Diseases of the temporal bone.		
C. State update and evidence based Knowledge of : • Acute infection : URT , Rhinitis, sinusitis, tonsillitis, acute otitis media , pharyngitis and laryngitis. • chronic tonsillitis & its complications. • chronic sinusitis & its complications. • chronic suppurative otitis medi &		

cholesteatoma & its complications.		
• Non suppurative Otitis media.		
• Qunizy & other neck suppurations.		
• Nasal & laryngeal granulomas.		
• Fungal diseases (Otomycosis, moniliasis, fungal rhinosinsitis,………etc		
• Allergic rhinitis.		
• Head & neck tumors.		
• Pharyngeal manifestations of systemic diseases.		
• Developmental disorders of the ENT and neck.		
• Diseases of the ear (external, middle& internal).		
• Diseases of the nose.		
• Diseases of the Pharynx.		
• Anomalies and diseases of the larynx.		
• Diseases of the oesophagus.		
• Disorders of the facial nerve.		
• Neurological affection of the pharynx & larynx.		
• Diseases of the temporal bone.		
D. Memorize the facts and principles of the relevant basic and clinically supportive sciences related to Otolaryngology head & neck surgery.		
E. Mention the basic ethical and medicolegal principles relevant to Otolaryngology head & neck surgery.		
F. Mention the basics of quality assurance to ensure good clinical care in Otolaryngology head & neck surgery.		
A. G. Mention the ethical and scientific principles of medical research.		
B. H. State the impact of common health problems in the field of Otolaryngology head & neck surgery on the society.		

B. Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to Otolaryngology head & neck surgery.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Otolaryngology head & neck surgery.		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of the Otolaryngology head & neck surgery.		

C. Practical skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	lectures, seminars, tutorial. Clinical round case presentation	-Assessment of practical skills -Logbook
B. Order the following non invasive & invasive diagnostic procedures: -Routine appropriate Lab investigations related to conditions mentioned in A.A. -X ray Chest. -CT& MRI head and neck. -Basics audiological testing. -Phoniateric consultation. -Sleep analysis. -Pre-operative embolization. -Pathology reports.		
C. Interpret the following non invasive & invasive diagnostic procedures: -Routine appropriate Lab investigations related to conditions mentioned in A.A -X ray Chest. -CT& MRI head and neck. -Basics audiological testing. -Phoniateric consultation. -Sleep analysis. -Pre-operative embolization. -Pathology reports.		
D. Perform the following non invasive & invasive Diagnostic and therapeutic procedures.		

a. –Drainage of an abcess. b. –Endoscopy. c. –Lymph node biopsy.		
E. Prescribe the following non invasive & invasive therapeutic procedures : -Prescribe proper treatment for conditions in A.A -<u>Otologic surgery</u> : ■ Myringotomy ■ Myringotomy with insertion pressure equalization tubes ■ Cortical mastoidectomy ■ Removal of foreign body from external auditory canal ■ Simple removal of aural polyp -<u>Nasal surgery:</u> ■ Drainage of septal haematoma & abscess ■ Submucous resection ■ Partial turbinectomy ■ Nasal polypectomy ■ Simple removal of antrochoanal polyp ■ Repair of fracture nasal bones ■ Calwell luc's operation -<u>Pharyngeal operation:</u> ■ Adenoidectomy ■ Tonsillectomy ■ Drainage of Quinsy ■ Endoscopic removal of coin ■ Removal of foreign body in oropharynx ■ Biopsy from the nose & oropharynx ■ Assist in UPPP Uvulopalatopharyngoplasty -<u>Laryngeal:</u> • Tracheotomy • Observe drainage of parapharyngeal and neck suppurations.		
F. Carry out patient management plans for common		

conditions related to Otolaryngology head & neck surgery**.**		
G. Use information technology to support patient care decisions and patient education in common clinical situations related to Otolaryngology head & neck surgery		
J. H-Provide health care services aimed at preventing health problems related to Otolaryngology head & neck surgery like: - infective and neoplastic ENT diseases. - hospital acquired infections. - Nasal & laryngeal granulomas . - Cross- transmission of URTIs (flu/common cold influinza) - Recurrence of some ENT diseases.		
I-Provide patient-focused care in common conditions related to Otolaryngology head & neck surgery, while working with health care professionals, including those from other disciplines like: Conditions mentioned in A.A.		

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club)	-Journal clubs - Discussions in seminars and clinical rounds	
C. Conduct epidemiological Studies and surveys.		
D. Perform data management including data entry and analysis.		
E. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Maintain therapeutic and ethically sound relationship with patients.	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list and
G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
I. Work effectively with others as a member of a health care team or other professional group.		
J. Present a case in common problems related to Otolaryngology head & neck surgery.	Clinical round Seminars	Clinical Exam
K. Write a report : -Patients surgical report - Patients pathological report -Death report	Senior staff experience	Chick list
L. Council patients and families about: - Acute infection : URT , Rhinitis, sinusitis, tonsillitis, acute otitis media , pharyngitis and laryngitis. - chronic tonsillitis & its complications. - chronic sinusitis & its complications. - chronic suppurative otitis medi &	Clinical round with senior staff	

cholesteatoma & its complications. • Non suppurative Otitis media. • Qunizy & other neck suppurations. • Nasal & laryngeal granulomas. • Fungal diseases (Otomycosis, moniliasis, fungal rhinosinsitis,……..etc • Allergic rhinitis. • Head & neck tumors. • Pharyngeal manifestations of systemic diseases. • Developmental disorders of the ENT and neck. • Diseases of the ear (external, middle& internal). • Diseases of the nose. • Diseases of the Pharynx. • Anomalies and diseases of the larynx. • Diseases of the oesophagus. • Disorders of the facial nerve. • Neurological affection of the pharynx & larynx.		

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
N. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		
O. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.		Objective structured clinical examination

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
P. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
R. Assist patients in dealing with system complexities.		1. 360o global rating 2. Patient survey

4. Contents (topic s/modules/rotation)
Units(1-4) Matrix

Time Schedule: Second Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
• Acute infection : URT , Rhinitis, sinusitis, tonsillitis, acute otitis media , pharyngitis and laryngitis.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• chronic tonsillitis & its complications.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• chronic sinusitis & its complications.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• chronic suppurative otitis medi & cholesteatoma & its complications.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• Non suppurative Otitis media.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• Qunizy & other neck suppurations.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• Nasal & laryngeal granulomas.	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• Fungal diseases (Otomycosis, moniliasis, fungal rhinosinsitis,……..etc	**A-D,F-H**	**A-D**	**A-I**	**A-R**
• Allergic rhinitis.	**A-H**	**A-H**	**A-I**	**A-R**
• Head & neck tumors.	**A-H**	**A-D**	**A-I**	**A-R**
• Pharyngeal manifestations of	**A-H**	**A-D**	**A-I**	**A-R**

systemic diseases.				
• Developmental disorders of the ENT and neck.	**A-H**	**A-D**	**A-I**	**A-R**
• Diseases of the ear (external, middle& internal).	**A-H**	**A-D**	**A-I**	**A-R**
• Diseases of the nose.	**A-H**	**A-D**	**A-I**	**A-R**
• Diseases of the Pharynx.	**A-H**	**A-D**	**A-I**	**A-R**
• Anomalies and diseases of the larynx.	**A-H**	**A-D**	**A-I**	**A-R**
• Diseases of the oesophagus.	**A-H**	**A-D**	**A-I**	**A-R**
• Disorders of the facial nerve.	**A-H**	**A-D**	**A-I**	**A-R**
• Neurological affection of the pharynx & larynx.	**A-H**	**A-D**	**A-I**	**A-R**
• Diseases of the temporal bone.	**A-H**	**A-D**	**A-I**	**A-R**

5. Course Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial).
2. Work in the dissection room in anatomy department.
3. Observation and supervision.
4. Written & oral communication.
5. Senior staff experience.

6. Course Methods of teaching/learning: for students with poor achievements

Extra Didactic (lectures, seminars, tutorial) according to their needs.

7. Course assessment methods:

i. Assessment tools:

1. Written and oral examination
2. Assessment of practical skills.
3. clinical exam
4. operative exam
5. Log book

ii. Time schedule: At the end of the second part

iii. Marks: 450 written+200 oral+400 clinical and operative exam=1050 marks.

8. List of references

I. **Lectures notes**
1. Course notes
2. Staff members print out of lectures and/or CD copies.

II. **Essential books**
3. Elshenawi 's Otolaryngology.
4. Kaser El Aini INTRODUCTION TO SURGERY 2010.
5. Logan Turner's Otolaryngology 11th edition (December 8, 2015).
6. Synopsis of Otolaryngology 5th edition (January 20, 1992).
7. Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

III. **Recommended books** Paparella and Shumrick 's Otolaryngology.

Periodicals:
- Archieves of Otolaryngology- head and neck surgery
- Acta Oto-laryngloica
- Clinical Otolaryngology
- Laryngoscope
- Journal of Laryngology and Otology
- Otolaryngologic clinics of North America
- Egyptian Journal of Otolaryngology
- Journal of Egyptian Society of Otolaryngology and related science

Web sites,… etc
- WWW. entnet.org
- www,otohns.net
- www,sinus.org
- www.alexorl.com

9. Signature

Course Coordinator: professor Dr.	Head of the Department: professor Dr.
Date: ………………………………………..	Date: ………………………………………..

Course 6; module5: Basics of Audiology

1. Unit data

- Unit Title: *Basics of Audiology.*
- Course code: ENT230C
- Speciality *: Ear- Nose –Throat surgery.*
  Number of Credit points(CP) : Didactics 1.2CP (32%) ,4CP(68%) for training and total 5,2CP (100%).
- **Department (s) delivering the course: Otolaryngology head & necksurgery-**Unit of Audiology - Faculty of Medicine- Assiut University.
- Coordinator (s):
    - Course coordinator: Prof.Dr:Hussin Fareed Weshahe
    - Assistant coordinator (s) :
      Prof.Dr: Ali Ragai Abdalhakiem.
      Prof.Dr: Mahmoud Ragib Alsherief
      Prof. Dr: Ezzat Mohammed Saleh

Date last reviewed: 6/ 2022
- General requirements (prerequisites) if any :
  None
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

2- Module(Unit) Aims:

2/1. To enable candidates to keep with international standards of audiology medicine related to ENT patients care by teaching high level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area **audio vestibular medicine related to Ear- Nose – Throat surgery** in addition to l skills for minor& moderate procedures.

2/2. Provide candidates with fundamental knowledge of **audio vestibular medicine related to Ear- Nose – Throat surgery** as regards; dealing with equipment, techniques, indications, contraindications and training skills of different techniques.

3. Intending learning outcomes (ILOs):

A. Knowledge and understanding

ILOs	Methods of teaching/ learning	*Methods of Evaluation*
A. Describe the essential audiovestibular principles related to ENT surgery of the following: - Interview, take history, examine and clinically diagnose the following conditions: - Audiological pictures of otologic diseases. - Vestibular disorders. - Indications of audiological and vestibular examination & testing. - Differentiate between cochlear & retro-cochlear lesions using different audiologic testing.	-Lectures.	-Written and oral examination. - Log book
B .Counsel and educate patients and their family about:		

- Symptoms of ear diseases. - Methods of management of hearing loss (surgery or hearing aids). - How they synchronize with audiometers.		
C .Identify health care services aimed at preventing the following conditions: Hearing loss & vertigo		
D . Candidates will describe mastery of the basic and clinical science elements for Otolgic and audiologic disorders, interventions and audiologic techniques including: - Conductive hearing loss (HL) - Sensorinural HL - Mxed HL - Secretory otitis media (OM) - Adhesive OM - Suppurative OM (acute & Chronic) - Otosclerosis - Facial nerve palsy - Vertigo - Vestibular disorders		
E . Memorize the facts and principles of the relevant basic and clinically supportive sciences related to the audiology.		
F . Mention the basic ethical and medicolegal principles relevant to the audiology.		
G . Mention the basics of quality assurance to ensure good clinical care in the field of the audiology.		
H. Mention the ethical and scientific principles of medical research.		

B. Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to the audiology.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to the audiology.		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of the audiology.		

C. Practical skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	lectures, seminars, tutorial.	-Assessment of practical skills -Logbook
B. Order the following non invasive diagnostic procedures: -Routine appropriate Lab investigations related to conditions mentioned in A.A. -X ray Chest. -CT& MRI head and neck. -Basics audiological testing.		
C. Interpret the following non invasive diagnostic procedures:		

-Routine appropriate Lab investigations related to conditions mentioned in A.A -X ray Chest. -CT& MRI head and neck. -Basics audiological testing.		
D. Perform the following non invasive & invasive Diagnostic and therapeutic procedures. 1.Pure tone audiograms 2. Tympanograms 3. speech audiograms		
E. Prescribe the following non invasive & invasive therapeutic procedures : • Eply's maneuver in the treatment of begien paroxysmal vertigo. • Hearing aids application.		
F. Carry out patient management plans for common conditions related to the audiology.		
G. Use information technology to support patient care decisions and patient education in common clinical situations related to the audiology.		
H-Provide health care services aimed at preventing health problems related to Otolaryngology head & neck surgery like: -Occupitional hearing loss. -Ototoxic drugs.		
I-Provide patient-focused care in common conditions related to Otolaryngology head & neck surgery, while working with health care professionals, including those from other disciplines like: Conditions mentioned in A.A.		

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club)	-Journal clubs - Discussions in seminars and clinical rounds	
C. Conduct epidemiological Studies and surveys.		
D. Perform data management including data entry and analysis.		
E. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Maintain therapeutic and ethically sound relationship with patients.	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list and
G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
I. Work effectively with others as a member of a health care team or other professional group.		
J. Present a case in common problems related to the audiology.	Clinical round Seminars	Clinical Exam
K. Write a report on: 1.Pure tone audiograms 2. Tympanograms 3. speech audiograms	Senior staff experience	Chick list
L. Council patients and families about: -Occupitional hearing loss. -Ototoxic drugs. -Familial hearing loss.	Clinical round with senior staff	

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
N. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		
O. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		Objective structured clinical examination

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
P. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
R. Assist patients in dealing with system complexities.		1. 360o global rating 2. Patient survey

4. Contents (topic s/modules/rotation
Module Matrix

Time Schedule: Second Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
	A-H	**A-D**	**A-I**	**A-R**
1: Audiovestibular pictures of otologic diseases: • Otitis media (Suppurative & non suppurative). • Adhesive otitis media. • Otosclerosis. • Facial nerve palsy. • Meniere's disease. • Beigen paroxysmal vertigo. • Gloumus tumor. • Patulous Eustachian tube. • Acoustic neuroma. 2. Indications of audiological and vestibular examination & testing. 3-Interperitation of: 1.Pure tone audiograms				

2. Tympanograms 3. speech audiograms 4. Auditory brain stem response. 5. Electronystagmography. 4.Differentiate between cochlear & retro-cochlear lesions using different audiologic testing. 5.Hearing aids& Cochlear implants. 6.Approach to a dizzy patient.				

5. Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial).
2. Work in the dissection room in anatomy department.
3. Observation and supervision.
4. Written & oral communication.
5. Senior staff experience.

6. Methods of teaching/learning: for students with poor achievements

Extra Didactic (lectures, seminars, tutorial) according to their needs.

7. Assessment methods:

i. Assessment tools:
- Written and oral examination
- Assessment of practical skills.
- Log book

ii. Time schedule: At the end of the second part

iii. Marks 75 marks written

8. List of references

i. Lectures notes

9- Course notes

10- Staff members print out of lectures and/or CD copies

ii. Essential books

- Kaser El Aini INTRODUCTION TO SURGERY 2010.

- Logan Turner's Otolaryngology 11th edition (December 8, 2015).

- Synopsis of Otolaryngology 5th edition (January 20, 1992).

- Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

I. Module(unit) data

- **Module Title**: Basics of Phoniaterics.
- **Unit code**: ENT230C
- **Speciality** Ear – Nose Throat surgery.
- **Number of Credit points(CP) :** Didactics 1.2CP
  - (32%) ,4CP(68%) for training and total 5,2CP (100%).

- **Department (s) delivering the course:** Otolaryngology head & neck surgery- phoniatrics unit- Faculty of medicine, Assuit University
- **Coordinator (s):**
  Course coordinator: ProF. Dr. Hussein Fareed Weshahe.
  Assistant coordinator (s) Prof. Dr.Ali Ragai Abdalhakiem
                    Prof. Dr. Ezzat Mohamed Saleh
- **Date last reviewed:** 6/ 2022.
- **Requirements (prerequisites) if any** : None
- **Requirements from the students to achieve course ILOs are clarified in the joining log book.**

2/1- To provide knowledge of pathophysiological model of voice disorders and apply that knowledge to the interpretation of different voice and speech disorders.

2/2- To provide understanding of how techniques of voice therapy programs is performed and to supervise different voice and speech testing.

- Patient Care Objectives in phoniateric Settings
- Interpret the outpatient phoniateric tests done at Assuit University Hospital.
- Recognize the appropriate clinical context for basics phonatory functions of the larynx.
- Supervise different voice disorders.

3. Intending learning outcomes (ILOs):

A.Knowledge and understanding

ILOs	Methods of teaching/ learning	*Methods of Evaluation*
A. Describe the essential Phoniatrics principles related to ENT surgery including the following : - Interview, take history, examine and clinically <u>diagnose the following conditions</u>: • Congenital laryngeal disorders. • Neurological laryngeal disorders. • Functional voice disorders. • Minimal associated pathological lesions. • Snoring. • Speech and language disorders. • Snoring • Velopharyngel valve dysfunction	-tutorials didactics Lectures.	-Written and oral examination. - Log book

• speech and language disorders • rehabilitaion of total laryngectomee • rehabilitaion of swellowing disorders • principles of phonosurgery • Congenital laryngeal disorders • Neurological laryngeal disorders • Functional voice disorders • Minimal associated pathological lesions		
B-Identify health care services aimed at preventing the following conditions: Smoking laryngeal disorders.		
C . Memorize the facts and principles of the relevant basic and clinically supportive sciences related to phoniatrics.		
D . Mention the basic ethical and medicolegal principles relevant to phoniatrics..		
E. Mention the basics of quality assurance to ensure good clinical care in the field of phoniatrics.		
F . Mention the ethical and scientific principles of medical research.		

B.Intellectual outcomes

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to phoniatrics.	Didactic (lectures, seminars, tutorial)	-Written and oral examination -Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to phoniatrics..		
C. Design and present cases , seminars in common problem		
D-Formulate management plans and alternative decisions in different situations in the field of phoniatrics.		

C. Practical skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Obtain proper history and examine patients in caring and respectful behaviors.	lectures, seminars, tutorial. case presentation	-Assessment of practical skills -Logbook
B. Order the following non invasive & invasive diagnostic procedures: • -Routine appropriate Lab investigations related to conditions mentioned in A.A. • Basics of phonatory functions of the larynx		

• Assessment of velopharyngeal valve functions • Snoring tests • Microlaryneal phonosurgery		
C. Interpret the following non invasive & invasive diagnostic procedures: • Routine appropriate Lab investigations related to conditions mentioned in A.A. • Basics of phonatory functions of the larynx • Assessment of velopharyngeal valve functions • Snoring tests • Microlaryneal phonosurgery		
D. Perform the following non invasive & invasive Diagnostic and therapeutic procedures. • Basics of phonatory functions of the larynx • Assessment of velopharyngeal valve functions • Snoring tests		
E. Prescribe the following non invasive & invasive therapeutic procedures : • Basics of phonatory functions of the larynx • Assessment of velopharyngeal valve functions • Snoring tests • Microlaryneal phonosurgery		
F.Carry out patient management plans for common conditions related to phoniatrics: • Snoring • Velopharyngel valve dysfunction • speech and language disorders • rehabilitaion of total laryngectomee • rehabilitaion of swellowing disorders • principles of phonosurgery • Congenital laryngeal disorders • Neurological laryngeal disorders		

• Functional voice disorders • Minimal associated pathological lesions		
G. Use information technology to support patient care decisions and patient education in common clinical situations related to phoniatrics.		
H-Provide health care services aimed at preventing health problems related to Otolaryngology head & neck surgery like: -Smoking laryngeal disorders.		
I-Provide patient-focused care in common conditions related to Otolaryngology head & neck surgery, while working with health care professionals, including those from other disciplines like: Conditions mentioned in A.A.		

D-General Skills
Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology(audit, logbook)	-Case log -Observation and supervision -Written & oral communication	Procedure/case presentation -Log book and Portfolios
B. Appraises evidence from scientific studies(journal club)	-Journal clubs - Discussions in seminars and clinical rounds	
C. Conduct epidemiological Studies and surveys.		
D. Perform data management including data entry and analysis.		
E. Facilitate learning of junior students and other health care professionals.	Clinical rounds Senior staff experience	

Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
F. Maintain therapeutic and ethically sound relationship with patients.	Simulations Clinical round Seminars Lectures Case presentation Hand on workshops	Global rating Procedure/case presentation Log book Portfolios Chick list and
G. Elicit information using effective nonverbal, explanatory, questioning, and writing skills.		
H. Provide information using effective nonverbal, explanatory, questioning, and writing skills.		
I. Work effectively with others as a member of a health care team or other professional group.		
J. Present a case in common problems related to phoniatrics.	Clinical round Seminars	Clinical Exam
K. Write a report on: • Pre-test sheet • Final comment on the results of the test	Senior staff experience	Chick list
L. Council patients and families about: • Snoring • Velopharyngel valve dysfunction • speech and language disorders • rehabilitaion of total laryngectomee • rehabilitaion of swellowing disorders • principles of phonosurgery • Congenital laryngeal disorders	Clinical round with senior staff	

• Neurological laryngeal disorders • Functional voice disorders • Minimal associated pathological lesions • Occupitional voice disorders. • Smoking laryngeal disorders.		

Professionalism

ILOs	Methods of teaching/ learning	Methods of Evaluation
M. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society	Observation Senior staff experience Case taking	1. Objective structured clinical examination 2. Patient survey
N. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, business practices		
O. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		Objective structured clinical examination

Systems-Based Practice

ILOs	Methods of teaching/ learning	Methods of Evaluation
P. Work effectively in relevant health care delivery settings and systems.	Observation Senior staff experience	1. 360o global rating
Q. Practice cost-effective health care and resource allocation that does not compromise quality of care.		1. Check list evaluation of live or recorded performance
R. Assist patients in dealing with system complexities.		1. 360o global rating 2. Patient survey

4. Contents (topic s/modules/rotation)
Module Matrix

Time Schedule: Second Part

Topic	Covered ILOs			
	Knowledge	**Intellectual**	**Practical skill**	**General Skills**
	A-F	**A-D**	**A-I**	**A-R**
• Congenital laryngeal disorders. • Neurological laryngeal disorders. • Functional voice disorders. • Minimal associated pathological lesions. • Snoring. • Velopharyngeal valve function evaluation. • Speech and language disorders				

5. Methods of teaching/learning:

1. Didactic (lectures, seminars, tutorial).
2. Work in the dissection room in anatomy department.
3. Observation and supervision.
4. Written & oral communication.
5. Senior staff experience.

6. Methods of teaching/learning: for students with poor achievements

Extra Didactic (lectures, seminars, tutorial) according to their needs.

7. Assessment methods:

i. Assessment tools:
- Written and oral examination
- Assessment of practical skills.
- Log book

ii. Time schedule: At the end of the second part

iii. Marks: 75 marks

8. List of references

i. Lectures notes

11- Course notes

12- Staff members print out of lectures and/or CD copies

ii. Essential books

1- Kaser El Aini INTRODUCTION TO SURGERY 2010.

2- Logan Turner's Otolaryngology 11th edition (December 8, 2015).

3- Synopsis of Otolaryngology 5th edition (January 20, 1992).

4- Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition, 2018

9. Signatures

Course Coordinator	
Unit 5 Coordinator: ………………………….	**Head of the Department:** ……………………
Date: …………………………	**Date:** …………………………………
Unit 6 Coordinator: ………………………….	**Head of the Department:** ……………………
Date: …………………………	**Date:** …………………………………

ANNEX 2

1- Graduate attributes for master degree in Ear- Nose- Throat Surgery

The Graduate (after residence training and master degree years of study) must:

1- Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit **in Ear- Nose- Throat surgery.**

2- Appraise and utilise scientific knowledge to continuously update and improve clinical practice in related speciality.

3- Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in the field of **Ear- Nose- Throat surgery**.

4- Provide patient care that is appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and updated information.

5- Identify and share to solve health problems in his speciality.

6- Acquire all competencies –including the use of recent technologies- that enable him to provide safe, scientific, and ethical and evidence based clinical care including update use of new technology in **Ear- Nose- Throat surgery**.

7- Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public.

8- Function as supervisor, and trainer in relation to colleagues, medical students and other health professions.

9- Acquire decision making capabilities in different situations related to **Ear- Nose- Throat surgery.**

10- Show responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.

11- Be aware of public health and health policy issues and share in system-based improvement of health care.

12- Show appropriate attitudes and professionalism.

13- Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in *Ear- Nose- Throat surgery* or one of   its subspecialties.

2- Competency based Standards for clinical master degree graduates

2.1- Knowledge and understanding

By the end of the program, the graduate should demonstrate satisfactory knowledge and understanding of

2-1-A- Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problem and topics.

2-1-B- The relation between good clinical care of common health problems in the speciality and the welfare of society.

2-1-C- Up to date and recent developments in common problems related to *Ear- Nose- Throat surgery*

2-1-D- Ethical and medicolegal principles relevant to practice in *Ear- Nose- Throat surgery*

2-1-E -Quality assurance principles related to the good medical practice in *Ear- Nose- Throat surgery*

2-1-F- Ethical and scientific basics of medical research.

2.2- Intellectual skills:

By the end of the program, the graduate should be able to demonstrate the following:

2-2-A- Correlation of different relevant sciences in the problem solving and management of common diseases of *Ear- Nose- Throat surgery.*

2-2-B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to *Ear- Nose- Throat surgery.*

2.2- C- Demonstrating systematic approach in studying clinical problems relevant to *Ear- Nose- Throat surgery*.

2-2-D- Making alternative decisions in different situations in *Ear- Nose- Throat surgery*.

2.3- Clinical skills

By the end of the program, the graduate should be able to

2-3-A - Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

2-3-B- Demonstrate patient care skills relevant to ***Ear- Nose- Throat surgery*** for patients with common   diseases and problems.

2-3- C- Write and evaluate reports for situations related to the field of ***Ear- Nose- Throat surgery.***

2.4- General skills

By the end of the program, the graduate should be able to

  ✚ ***Competency-based   outcomes   for   Practice-based Learning and Improvement***

2-4-A- Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence,, improvements in patient care and risk management.

2-4-B- Use all information sources and technology to improve his practice.

2-4-C- Demonstrate skills of teaching and evaluating others.

  ✚ ***Competency-based objectives for Interpersonal and Communication Skills***

2-4-D- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.

  ✚ ***Competency-based objectives for Professionalism***

2-4-E- Demonstrate professionalism behaviors, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

  ✚ ***Competency-based   objectives   for   Systems-based Practice***

2-4-F- Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.

2-4-g- Demonstrate skills of effective time management.

2-4-H- Demonstrate skills of self and continuous learning.

Annex 3, Methods of teaching/learning

Annex 3 Methods of teaching/learning

	Patient care	Medical knowledge	Practice-based learning/ Improvement	Interpersonal and communication skills	Professionalism	Systems-based practice
Didactic (lectures, seminars, tutorial)	X	X		X	X	X
journal club,	X	X	X			
Educational prescription	X	X	X	X	X	X
Present a case (true or simulated) in a grand round	X	X	X	X	X	
Observation and supervision	X		X	X	X	X
conferences		X	X	X		X
Written assignments	X	X	X	X	X	X
Oral assignments	X	X	X	X	X	X

Teaching methods for knowledge

❖ Didactic (lectures, seminars, tutorial)

❖ journal club

❖ Critically appraised topic

❖ Educational prescription (a structured technique for following up on clinical questions that arise during rounds and other venues).

❖ Present a case (true or simulated) in a grand round

❖ Others

Teaching methods for patient care

❖ Observation and supervision /Completed tasks procedure/case logs

❖ On-the-job" training without structured teaching is not sufficient for this skill (checklists).

❖ Simulation is increasingly used as an effective method for skill/ teamwork training.

Teaching methods for other skills

❖ Written communication (e.g., orders, progress note, transfer note, discharge summary, operative reports, and diagnostic reports).

❖ Oral communication (e.g., presentations, transfer of care, interactions with patients, families, colleagues, members of the health care team) and/or non verbal skills (e.g., listening, team skills)

❖ Professionalism, including medical ethics, may be included as a theme throughout the program curriculum that includes both didactic and experiential components (e.g., may be integrated into already existing small group discussions of vignettes or case studies and role plays, computer-based modules) and may be modeled by the faculty in clinical practice and discussed with the resident as issues arise during their clinical practice.

Annex 4, Assessment methods

Annex 4,   ILOs evaluation methods for Master Degree students.

Method	Practical skills	K	Intellectual	General skills			
	Patient care	K	I	Practice-based learning/ Improvement	Interpersonal and communication skills	Professionalism	Systems-based practice
Record review	X	X	X		X	X	X
Checklist	X				X		
Global rating	X	X	X	X	X	X	X
Simulations	X	X	X	X	X	X	
Portfolios	X	X	X	X	X		
Standardized oral examination	X	X	X	X	X		X
Written examination	X	X	X	X			X
Procedure/ case log	X	X					
OSCE	X	X	X	X	X	X	X

Annex 4, Glossary of Master Degree doctors assessment methods

❖ Record Review – Abstraction of information from patient records, such as medications or tests ordered and comparison of findings against accepted patient care standards.

❖ Chart Stimulated Recall – Uses the MSc doctor's patient records in an oral examination to assess clinical decision-making.

❖ Mini clinical evaluation: Evaluation of Live/Recorded Performance (single event) – A single resident interaction with a patient is evaluated using a checklist. The encounter may be videotaped for later evaluation.

❖ Standardized Patients (SP) – Simulated patients are trained to respond in a manner similar to real patients. The standardized patient can be trained to rate MSc doctor's performance on checklists and provide feedback for history taking, physical examination, and communication skills. Physicians may also rate the MSc doctor's performance.

❖ Objective Structured Clinical Examination (OSCE) – A series of stations with standardized tasks for the MSc doctors to perform. Standardized patients and other assessment methods often are combined in an OSCE. An observer or the standardized patient may evaluate the MSc doctors.

❖ Procedure or Case Logs – MSc doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.

❖ PSQs – Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by a MSc doctors.

❖ Case /problems – assess use of knowledge in diagnosing or treating patients or evaluate procedural skills.

- ❖ Models: are simulations using mannequins or various anatomic structures to assess procedural skills and interpret clinical findings. Both are useful to assess practice performance and provide constructive feedback.
- ❖ 360 Global Rating Evaluations – MSc doctors, faculty, nurses, clerks, and other clinical staff evaluate MSc doctors from different perspectives using similar rating forms.
- ❖ Portfolios – A portfolio is a set of project reports that are prepared by the MSc doctors to document projects completed during the MSc study years. For each type of project standards of performance are set. Example projects are summarizing the research literature for selecting a treatment option, implementing a quality improvement program, revising a medical student clerkship elective, and creating a computer program to track patient care and outcomes.
- ❖ Examination MCQ – A standardized examination using multiple-choice questions (MCQ). The in-training examination and written board examinations are examples.
- ❖ Examination Oral – Uses structured realistic cases and patient case protocols in an oral examination to assess clinical decision-making.
- ❖ Procedure or Case Logs – MSc doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.
- ❖ PSQs – Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by MSc doctors.

Annex 5, Program evaluation tools

By whom	Method	sample
Quality Assurance Unit	Reports Field visits	#
External Evaluator (s):According to department council External Examiner (s): According to department council	Reports Field visits	#
Stakeholders	Reports Field visits questionnaires	#
Senior students	questionnaires	#
Alumni	questionnaires	#

Annex 6, Program Correlations:

1- Graduate attributes

Faculty ARS	NARS
1- Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in *Ear- Nose- Throat* surgery	1– إجادة تطبيق أساسيات و منهجيات البحث العلمي و استخدام أدواته المختلفة
2- Appraise and utilise scientific knowledge to continuously update and improve clinical practice in *Ear- Nose- Throat* surgery	2–تطبيق المنهج التحليلي و استخدامه في مجال التخصص
3- Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in *Ear- Nose- Throat* surgery.	3–تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية
4- Provide patient care that is appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and update information.	4–إظهار وعيا بالمشاكل الجارية و الرؤى الحديثة في مجال التخصص
5- Identify and share to solve health problems in *Ear- Nose- Throat* surgery	5–تحديد المشكلات المهنية و إيجاد حلولا لها
6- Acquire all competencies that enable him to provide safe, scientific, ethical and evidence based clinical care including update	6–إتقان نطاق مناسب من المهارات المهنية المتخصصة، واستخدام الوسائل

use of new technology in *Ear- Nose- Throat surgery.*	التكنولوجيةالمناسبة بما يخدم ممارسته المهنية
7- Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public. 8- Function as supervisor, and trainer in relation to colleagues, medical students and other health professions.	7-التواصل بفاعلية و القدرة على قيادة فرق العمل
9- Acquire decision making capabilities in different situations related to *Ear- Nose-Throat* *surgery*	8-اتخاذ القرار في سياقات مهنية مختلفة
10- Show responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.	9- توظيف الموارد المتاحة بما يحقق أعلي استفادةو الحفاظ عليها
11- Be aware of public health and health policy issues and share in system-based improvement of health care.	10-إظهار الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة في ضوء المتغيرات العالمية و الإقليمية
12- Show appropriate attitudes and professionalism.	11-التصرف بما يعكس الالتزام بالنزاهة و المصداقية و الالتزام بقواعد المهنة
13- Demonstrate skills of lifelong learning	12-تنمية ذاته أكاديميا و مهنيا و قادرا

and maintenance of competence and ability for continuous medical education and learning in subsequent stages in *Ear- Nose- Throat* surgery or one of its subspecialties.	علي التعلم المستمر

2. Academic standard

Faculty ARS	NARS
2.1.A -Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problems and topics.	2–1–أ–النظريات و الأساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة.
2.1.B- The relation between good clinical care of common health problems in *Ear- Nose- Throat surgery* and the welfare of society.	2–1–ب–التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة.
2.1. C- Up to date and recent developments in common problems related to *Ear- Nose- Throat surgery.*	2–1–ج–التطورات العلمية في مجال التخصص.
2.1. D- Ethical and medicolegal principles relevant to practice in the *Ear- Nose- Throat surgery.*	2–1–د–المبادئ الأخلاقية و القانونية للممارسة المهنية في مجال التخصص.
2.1. E-Quality assurance principles related to the good medical practice in *Ear- Nose- Throat surgery*	2–1–هـ– مبادئ و أساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1. F- Ethical and scientific basics of medical research.	2–1–و– أساسيات وأخلاقيات البحث العلمي

2.2. A-Correlation of different relevant sciences in the problem solving and management of common diseases of **Ear- Nose- Throat** *surgery* 2.2. B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to **Ear- Nose- Throat** *surgery*.	2-2–أ– تحليل و تقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
2.2. B- Problem solving skills based on data analysis and evaluation (even in the absence of some) for common clinical situations related to **Ear- Nose- Throat** *surgery*.	2-2–ب– حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
2.2. A-Correlation of different relevant sciences in the problem solving and management of common diseases of **Ear- Nose- Throat** *surgery*.	2-2–ج– الربط بين المعارف المختلفة لحل المشاكل المهنية
2.2. C- Demonstrating systematic approach in studying clinical problems relevant to the **Ear- Nose- Throat** *surgery*.	2-2–د– إجراء دراسة بحثية و /أو كتابة دراسة علمية منهجية حول مشكلة بحثية
2.4.A-Demonstrate practice-based learning and Improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient	2-2هـ– تقييم المخاطر في الممارسات المهنية في مجال التخصص

care and risk management	
2.4.A-Demonstrate practice-based learning and Improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management	2-2-و – التخطيط لتطوير الأداء في مجال التخصص
2.2.D- Making alternative decisions in different situations in the field of *Ear- Nose- Throat surgery.*	2-2-ز – اتخاذ القرارات المهنية في سياقات مهنية متنوعة
2.3.A- provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. 2.3.B- Demonstrate patient care skills relevant to *Ear- Nose- Throat surgery* for patients with common diseases and problems.	2-3-أ– إتقان المهارات المهنية الأساسية و الحديثة في مجال التخصص
2.3.C- Write and evaluate reports for Situation related to *Ear- Nose- Throat surgery.*	2-3-ب– كتابة و تقييم التقارير المهنية
2.3.A- provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.	2-3-ج– تقييم الطرق و الأدوات القائمة في مجال التخصص

2.3.B- Demonstrate patient care skills relevant to that speciality for patients with common diseases and problems.	
2.4.D- Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	4-2-أ-التواصل الفعال بأنواعه المختلفة
2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management 2.4.B- Use all information sources and technology to improve his practice.	4-2-ب- استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management 2.4.B- Use all information sources and technology to improve his practice. 2.4.E-Demonstrate professionalism	4-2-ج- التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية

behavior, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	
2.4.A-Demonstrate practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, , improvements in patient care and risk management.	2-4-د- استخدام المصادر المختلفة للحصول على المعلومات و المعارف
2.4. C- Demonstrate skills of teaching and evaluating others.	2-4-هـ- وضع قواعد ومؤشرات تقييم أداء الآخرين
2.4. F- Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.	2-4-و- العمل في فريق ، وقيادة فرق في سياقات مهنية مختلفة
2.4.G- Demonstrate skills of effective time management.	2-4-ز- إدارة الوقت بكفاءة
2.4.H- Demonstrate skills of self and continuous learning.	2-4-ح- التعلم الذاتي و المستمر

Comparison between ARS and ILOS for master degree in Ear- Nose- Throat surgery.

(ARS)	(ILOs)
2-1- Knowledge and understanding **2-1-A-** Established basic, biomedical, clinical, epidemiological and behavioral sciences related conditions, problem and topics.	**2-1- Knowledge and understanding** **2-1-A-** Explain the essential facts and principles of relevant basic sciences including, , Anatomy, Histology, Physiology, Biochemistry, Pharmacology, Pathology, Microbiology and Public health related to **Ear- Nose- Throat** *surgery* **2-1-B-** Mention <u>essential facts</u> of clinically supportive sciences including Basics of internal Medicine related to **Ear- Nose- Throat** *surgery* **2-1-C-** Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to **Ear- Nose- Throat** *surgery*
2-1-B The relation between good clinical care of common health problem in **Ear- Nose- Throat** *surgery* and the welfare of society.	**2-1-H-** State the impact of common health problems in **Ear- Nose- Throat** *surgery* on the society and how good clinical practice improve these problems.
2-1-C- Up to date and recent developments in common Problems related to **Ear- Nose- Throat**	**2-1-C-** Demonstrate sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of the common diseases and situations

surgery.	related to ***Ear- Nose- Throat*** *surgery* **2-1-D-** Give the recent and update developments in the pathogenesis, diagnosis, prevention and treatment of common diseases related to ***Ear- Nose- Throat*** *surgery*.
2-1-D- Ethical and medico legal Principles relevant to practice in ***Ear- Nose- Throat*** *surgery*	**2-1-E-** Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to ***Ear- Nose- Throat*** *surgery*
2-1-E-Quality assurance principles related to the good medical practice in ***Ear- Nose- Throat*** *surgery*	**2-1-F-** Mention the basics and standards of quality assurance to ensure good clinical practice in ***Ear- Nose- Throat*** *surgery*
2-1-F- Ethical and scientific basics of medical research.	**2-1-G-** Mention the ethical and scientific principles of medical research methodology.

III-Program matrix
Knowledge and Understanding

Course	2/1/A	2/1/B	2/1/C	2/1/D	2/1/E	2/1/F	2/1/G	2/1/H
Course 1 : Surgical Anatomy, and Embryology of head and neck	✓							
Course 2 : Pathology & clinical pathology& Microbiology, mycology	✓							
Course 3 : Applied Physiology (nose ear, nose and throat)	✓							
Course 4 : General surgery related to ENT		✓	✓					
Course 5 Internal medicine & neurology		✓	✓					
Course 6 :ENT(otolaryngeal head and neck) surgery	✓	✓	✓	✓	✓	✓	✓	✓

Intellectual

Course	2/2/A	2/2/B	2/2/C	2/2/D
Course 1 : Surgical Anatomy, and Embryology of head and neck	✓			
Course 2 : Pathology & clinical pathology& Microbiology, mycology	✓			
Course 3 : Applied Physiology (nose ear, nose and throat)	✓	✓		
Course 4 : General surgery related to ENT Surgery	✓	✓	✓	✓
Course 5 Internal medicine & Neurology	✓	✓	✓	✓
Course 6 :ENT(otolaryngeal head and neck) surgery	✓	✓	✓	✓

Practical Skills (Patient Care)

Course	2/3/1/A	2/3/1/B	2/3/1/C	2/3/1/D	2/3/1/E	2/3/1/F	2/3/1/G	2/3/1/H
Course 1 : Surgical Anatomy, and Embryology of head and neck								
Course 2 : Pathology & clinical pathology& Microbiology, mycology								
Course 3 : Applied Physiology (nose ear, nose and throat)								
Course 4 : General surgery related to ENT Surgery	✓							
Course 5 Internal medicine & Neurology	✓	✓						
Course 6 :ENT(otolaryngeal head and neck) surgery	✓	✓	✓	✓	✓	✓	✓	✓

General Skills

Course	2/3/2/A	2/3/2/B	2/3/2/C	2/3/2/D	2/3/2/E	2/3/2/F	2/3/2/G	2/3/2/H
Course 1 : Surgical Anatomy, and Embryology of head and neck				✓			✓	
Course 2 : Pathology & clinical pathology& Microbiology, mycology				✓			✓	
Course 3 : Applied Physiology (nose ear, nose and throat)				✓			✓	
Course 4 : General surgery related to ENT Surgery	✓	✓	✓	✓	✓	✓	✓	✓
Course 5 Internal medicine & Neurology	✓	✓	✓	✓	✓	✓	✓	✓
Course 6 :ENT(otolaryngeal head and neck) surgery	✓	✓	✓	✓	✓	✓	✓	✓

General Skills

Course	2/3/2/I	2/3/2/J	2/3/2/K	2/3/2/L	2/3/2/M	2/3/2/N	2/3/2/O	2/3/2/P
Course 1 : Surgical Anatomy, and Embryology of head and neck		✓			✓			
Course 2 : Pathology & clinical pathology& Microbiology, mycology		✓			✓			
Course 3 : Applied Physiology (nose ear, nose and throat)		✓			✓			
Course 4 : General surgery related to ENT Surgery	✓	✓	✓	✓	✓	✓	✓	✓
Course 5 Internal medicine & Neurology	✓	✓	✓	✓	✓	✓	✓	✓
Course 6 :ENT(otolaryngeal head and neck) surgery	✓	✓	✓	✓	✓	✓	✓	✓

Annex 7, Additional information:

Department information:

The department of Otolaryngology- Head & neck surgery in Assuit faculty of medicine consists of:

- Otology & neurotology division.

- Rhinology division.

- Head & neck surgery division.

- Endoscopies (Diagnostic &Therapeutic).

- Audiology unit.

- Phoniatric unit.

Staff members:

Prof. Mostafa Osman Ramadan.

Prof. Mohamed Abdel-Allah Mohamed.

Prof. Mohamed Abdel Aziz El Derwy.

Prof. Ali Ragaie Abd ELhakim.

Prof. Ahmed Abdel Hay El houssiny.

Prof. Mahmoud Ragib Alsherief.

Prof. Hussin Fareed Weshahe.
Prof. Mahmed Shaker Abdel all.

Prof. Ahmed Abdel Aleem Abdel Whab.

Prof. Ezzat Mohammed Saleh.

Prof. Mahmed Azzam Abdel Razik.

Prof. Ahmed Abo el wafa.

Prof. Usama Rashad El Shreif.

Dr. Hamza El shsaffy Ahmed.
Dr. Mohamed Mahmoud Salem.
Dr. Mohamed Mostafa Osman.

Opportunities within the department:

- Scientific Library
- Seminar room with data show
- Electronic Library of Scientific Seminars, case presentations.
- Data base filing of all the cases, procedures and out patient clinic data.

Department quality control insurance for completing the program:

- Evaluation by the Department head and staff members.
- Regular assessments.
- Log book monitoring.
- Recent equipment and Specialized Units.