

## **Peer Revision**

<b>Reviewers</b>	<b>University</b>	<b>Date of Revision</b>
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

# PROGRAM SPECIFICATION FOR MASTER DEGREE IN OTOLARYNGOLOGY

Sohag University

Faculty of Medicine

## A. Basic Information

- 1- Program title: Master of Otolaryngology
- 2- Program type: Single Program
- 3- Faculty : faculty of medicine
- 4- Department: Otolaryngology
- 5- Coordinator: Prof. Mohamed Abdel-Kader Ahmad.
- 6- Assistant Coordinator :Mostafa Abd el Moniem Mohammed.
- 7- External evaluator: Professor/ Mahmoud Ragheb Elsherif, Professor of Otolaryngology, Assuit University.
- 8- Last date of program specifications approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

## B. Professional Information

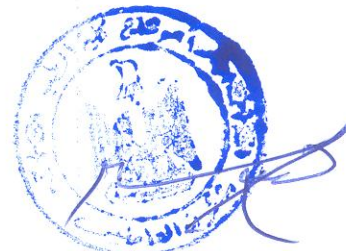
### 1. Program aims

The aim of this program is to provide the postgraduate student with medical knowledge and skills essential for the practice of otolaryngology and necessary for gaining further training and practice in the field of otolaryngology through providing:

1. Scientific knowledge essential for the practice of Otolaryngology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients in the field of otolaryngology including diagnostic, decision making problem solving and operative skills.
3. Ethical principles related to the practice in this speciality.
4. Active participation in community needs assessment and problem identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

### 2. Attributes of the student:

1. Mastering the basics of scientific research methodologies.



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## **B. Professional Information**

### **1. Program aims**

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3. Ethical principles related to the practice in this speciality.
4. Active participation in community needs assessment and problem identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

### **2. Attributes of the student:**

1. Mastering the basics of scientific research methodologies.

2. The application of the analytical method and used in the field of ENT
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of ENT
5. Identify problems in the field of ENT and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.
9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
12. Academic and professional self development and be capable of continuous learning.

### 3. Intended learning outcomes (ILOs)

#### a) Knowledge and understanding:

By the end of the study of master program in Otolaryngology the Graduate should be able to:

- a1. Mention the normal structure and function of the human head and neck on the macro and micro levels.
- a2. Describe the normal growth and development of the human head and neck.
- a3. List the abnormal structure, function, growth and development of human Ear, Nose and Throat.
- a4. Mention the natural history of Otolaryngology diseases.
- a5. Enumerate the causation of **Otolaryngology** diseases.
- a6. Enumerate Methods of **Otolaryngology** health and preventing their illness.
- a7. List the clinical picture and differential diagnosis of **Otolaryngology** illnesses.
- a8. Enumerate in the common diagnostic and laboratory techniques necessary to establish diagnosis of **Otolaryngology** illnesses.
- a9. Describe the various therapeutic methods/alternatives used for **Otolaryngology** diseases
- a10. Describe Scientific developments in the field of **Otolaryngology**.
- a11. Enumerate the mutual influence between professional practice and its impacts on the environment
- a12. Mention the ethical and legal principles of professional practice in the field of **Otolaryngology**.
- a13. List the principles and fundamentals of quality assurance of professional practice in the field of Otolaryngology.
- a14. Mention The basics and ethics of scientific research

#### b) Intellectual skills

By the end of the study of master program in ENT the Graduate should be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for Otolaryngology problems
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Otolaryngology problems.
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct a research study and or writing a scientific study on a research problem.
- b5. Assess risk in professional practices in the field of Otolaryngology.
- b6. Plan to improve performance in the field of Otolaryngology.
- b7. Identify Otolaryngology problems and find solutions..
- b8. Analyze researches and issues related to the Otolaryngology

**c) Professional and practical skills**

By the end of the study of master program in Otolaryngology the Graduate should be able to:

- c1. Master the basic and modern professional skills in the area of Otolaryngology.
- c2. Write and evaluate medical reports.
- c3. Assess methods and tools existing in the area of Otolaryngology.

**d) General and Transferable skills**

By the end of the study of master program in Otolaryngology the Graduate should be able to:

- d1. Communicate effectively by all types of effective communication.
- d2. Use information technology to serve the development of professional practice.
- d3. Assess himself and identify his personal needs.
- d4. Use different sources to obtain information and knowledge.
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time effectively.
- d8. Learn himself continuously.

**4. Academic standards**

Sohag faculty of Medicine adopted the general National Academic Reference Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs .This was approved by the faculty Council decree NO.6854,in its cession No.177 Dated: 18-5-2009. Based on these NARS: Academic Reference Standards(ARS) were suggested for this program .These ARS were suggested for this program. These ARS were approved by the Faculty Council decree No.7528 ,in its cession No.191,dated15-3-2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its cession No.60. Dated 26-12-2011.

**5. Curriculum Structure and Contents**

5.a- Program duration: **6 semesters(3 years)**

5.b- Program structure

Subject	No of hours /week		
	Lectures	Practical/surgical	Clinical

<u>First Part:</u>			
Pathology	2	----	
Microbiology	2	----	
Clinical pathology	2	----	
Biostatistics, computer, Research methodology ,	1	2	
Physiology	1		
Anatomy,Embryology in Otolaryngology ,Genetics	2		
General surgery related to Otolaryngology	1	1	1
Internal Medicine related to Otolaryngology	1		2
<u>Second Part:</u>			
Otorhinolaryngology diseases	5	3	3

code	Item	No	%	
b.i	Total credit hours	Compulsory	50	100
		Elective	·	·
		Optional	·	·
b.iii	credit hours of basic sciences courses	7	14	
b.iv	credit hours of courses of social sciences and humanities	·	·	
b.v	credit hours of specialized courses:	24	48	
b.vi	credit hours of other course	8	24	
b.vii	Practical/Field Training	5	10	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 <sup>st</sup> part	15	30	
	Level 2: 2 <sup>nd</sup> Part	24	48	
	Level 3: Thesis	6	12	

## 6. Program courses 9 courses are compulsory

### 6.1- Level/Year of Program

Semester...1.....

First part

a. Compulsory

Course Title	Total no	No. of hours /week	Program ILOs
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	of credit hours	Lect	Prac	Clinic	Covered (By No.)
Pathology related to Otolaryngology	2	2			a3, a4,b1, b2, b7, b8,c2 d2 , d4
Microbiology	2	2			a1,a3, a4, a5, a6,b1, b6 c2, c3,d1,d2 , d4
Clinical pathology	2	2			a8,b2,c2,d4
Physiology	1	1			a1, a4, a6,b1,c3,d1,d4
Anatomy and embryology Basic genetics	2	2			a1, a2,b7,c3,d4
Internal medicine	2	1		2	a4,a6,a8,b1,b8,c3,d4
General Surgery	2	1	1	1	a4, a5,a7,b1,b2,c1,c3,d2,d6
Biostatistics, computer, Research methodology ,	2	1	2		a11, a13,b4, b8,c2,d4
<b>Second Part</b>					
Otorhinolaryngology diseases	<b>24</b>	<b>5</b>	<b>3</b>	<b>3</b>	a4, a5 , a6, a7, a8,a9,a10, b1,b2,b5,b7,c1,c3 ,d1,d4,d6

## 7. Program Admission Requirements

### I- General Requirements.

1. Candidate should have either:
  - i. MBBCh degree from any Egyptian Faculty of Medicine or
  - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
2. Candidate should pass the house office training year.
3. Those who are not university hospital residents should pass a training for at least 12 months in one of the known hospitals.
4. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

### II. Specific Requirements:

- Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final year examination/cumulative years, and grade “Good Rank” in Otolaryngology Course too.
- Candidate should know how to speak & write English well.
- Candidate should have computer skills.

## 8. Regulations for Progression and Program Completion

Duration of program is 50 credit hours ( $\geq 4$  semesters  $\geq 3$  years), starting from registration till 2<sup>nd</sup> part exam; divided to:

### First Part: (15 Credit hours $\geq 6$ months $\geq 1$ semester):

- Program-related basic & clinical sciences & research Methodology, Ethics & medical reports, Biostatistics and computer.

- At least six months after registration should pass before the student can ask for examination in the 1<sup>st</sup> part.
- Two sets of exams: 1st in October — 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only for the next time only, and if re-fail, should register for the course from the start.

**Thesis/Essay(6 Credit hours ≥6 months=1 semester):**

- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1<sup>st</sup> part examination, and at least one month before allowing to enter 2<sup>nd</sup> part final examination.
- Accepting the thesis is enough to pass this part.

**Second Part: (24 Credit hours ≥18 months= 3 semesters):**

- Program related specialized sciences of Otolaryngology Courses. After passing 36 ms residency in the department of Otolaryngology (university hospital residents)
- Residents in other places:12 ms training in the deptment of Otolaryngology
- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the 2<sup>nd</sup> part courses.
- After passing at least:
  - University hospital residents: 36 months residency in the department of Otolaryngology.
  - Residents in other places: Completed 36 months residency; 12 months of them training in the department of Otolaryngology.
- The students should pass the 1<sup>st</sup> part before asking for examination in the 2<sup>nd</sup> part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (5 Credit hours; with obtaining ≥75% of its mark ) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
  - Each Cr. Hr.= 60 working Hrs.
  - Logbook= 5 Cr. Hr. X 60 working Hrs = 300 Working Hrs.
  - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمي موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية	١٢/day
	داخلي خارجة	18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمي موسع	٦



<b>Morbidity and Mortality conference</b>	ندوة تحليل المخاطر المرضية أو الوفاة	٦
<b>Self education program</b>	برنامج التعليم الذاتي	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2<sup>nd</sup> part exam, a score of at least 60% (Level D) in each course is needed.

### 9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Activities		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

### Assessment schedule:

#### Part I:

- Pathology: Written Exam (2 hours) + Structured oral Exam
- Medical Microbiology & Immunology: Written Exam (2 hours) + Structured oral Exam
- Clinical and Chemical Pathology: Written Exam (2 hours) + Structured oral Exam
- Medical Physiology: Written Exam (2 hours) + structured oral Exam
- Anatomy, Embryology and Genetics : Written Exam (2 hours) + structured oral Exam
- General Surgery: Written Exam (2 hours) + Structured oral Exam + OSCE
- Internal medicine: Written Exam (2 hours) + Structured oral Exam+ OSCE
- Biostatistics & Computer and Research Methodology: Written Exam (2 hours) + Structured oral Exam+ OSPE

#### Part II:

- Otolaryngology: Two Written Exams (3 hours for each) + OSCE + Structured oral Exam + Operative.

### 10. Evaluation of program intended learning outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaire	6
2- Alumni	Questionnaire	7
3- Stakeholders ( Employers)	Interviews	11
4-External Evaluator(s) - (External Examiner(s))	Reports	1
5- Other		

## Course Specifications of Pathology in master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in Otolaryngology
2. Minor element of program
3. Department offering the program: Otolaryngology department
4. Department offering the course: Pathology department,
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Title:** Pathology

**Code:** PAT 0524-200

Total hours:

Module	Lecture	Tutorial:	Practical	Credit hour
Pathology	30			2

### B. Professional Information

#### 1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of medical diseases related to E.N.T.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) Knowledge and Understanding:

By the end of the course, the candidate is expected be able to:

- a1. List the abnormal structure of human Ear, Nose and Throat.
- a2. Mention recent advances in the natural history and pathogenesis of Otolaryngology diseases.

##### b) Intellectual Skills:

By the end of the course, the candidate is expected be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for Otolaryngology problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Otolaryngology problems.
- b3. Identify pathological problems related to Otolaryngology and find solutions.
- b4. Analyze pathological researches and issues related to the Otolaryngology.

##### c) Professional and Practical Skills:

By the end of the course, the candidate is expected be able to:

- c1. Evaluates in a professional manner pathological reports.

##### d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. Effectively utilize various computer based instruction tools and E-learning of Pathology and utilize a variety of computer-based self assessment tools.
- d2. Use different sources to obtain information and knowledge.

### 3. Course contents:

#### Pathology module :

Topic	No. of hours	Lecture
1.1. Inflammation & repair.	1	1
1.2. Cell response to injury and aging.	1	1
1.3. Disturbances of circulation.	1	1
1.4. Immunity and hypersensitivity.	1	1
1.5. Bacterial infection.	1	1
1.6. Tuberculosis and leprosy.	1	1
1.7. Viral and rickettsial infections.	1	1
1.8. Mycotic diseases.	1	1
1.9. Disturbances of cellular growth.	1	1
1.10. General pathology of tumors.	1	1
2.1. Diseases of the nose & nasal sinuses.	2	2
2.2. Diseases of the oral cavity.	2	2
2.3. Diseases of salivary glands.	1	1
2.4. Diseases of the tonsils.	1	1
2.5. Diseases of pharynx.	2	1
2.6. Diseases of the larynx.	2	2
2.7. Diseases of the trachea & bronchi.	1	1
2.8. Diseases of external, middle & internal ear.	2	2
2.9. Diseases of thyroid gland.	1	1
2.10. Diseases of parathyroid gland.	1	1
2.11. Lymphadenopathy.	1	1
2.12. Lymphomas & leukemia.	1	1
2.13. Bleeding disorders, epistaxis & hemoptysis.	2	2
2.14. Anemia & leucopenia.	1	1
Total	30	30
Credit	2	2

#### 4. Teaching and Learning Methods

- 4.1. Lectures.
- 4.2. Department practical class and notes.
- 4.3- Practical lessons.

#### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

## Assessment Schedule

- Assessment 1. Written examination (week 24)
- Assessment 2. Oral examination (week 24)
- Assessment 3. Attendance and absenteeism

## Weighting of Assessments

Final-term Examination	50%
Oral Examination	50%
Total	100%

## 6. List of References

### 6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th edition, 2014.
- Robbins Pathologic Basis of Diseases, 10<sup>th</sup> edition, 2015.

### 6.2- Recommended Books:

- Rosai&Ackerman text book of Pathology, 11<sup>th</sup> edition,2017
- Sternberg text book of Pathology, 6<sup>th</sup> edition, 2015.

### 6.3- Periodicals, websites:

American journal of pathology

Pathology journal

Human pathology journal

Web Sites: <http://www.ncbi.nlm.nih.gov/pubmed/>

## 7. Facilities Required for Teaching and Learning:

- Library & textbooks.
- Computer & data show.
- Internet connection.

**Course Coordinator:** Dr. Fatma El Zahraa

**Head of Department:** Dr.Afaf Al-Nashar

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013,**Revised:**1/12/2018

## Course Specifications of Medical Microbiology and Immunology in Master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: **Master degree in Otolaryngology**
2. Minor element of program.
3. Department offering the program: **Otorhinolaryngology department**
4. Department offering the course: Medical Microbiology and Immunology department
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Title:** Medical Microbiology and Immunology for master degree in otolaryngology

**Code:** MIC 0524-200

Total hours :

Module	Lecture	Tutorial	Practical	Credit hour
Microbiology	30			2

### B. Professional Information

#### 1. Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt , and learn to use the knowledge gained from applied microbiology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription. The student is expected to fully understand the concept of nosocomial infections, particularly on how to avoid and manage SSI; and to fully co-operate with the infection control team. The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) Knowledge and Understanding:

By the end of the course the student is expected to:

- a1. Mention the structure and function of immune system
- a2. List the pathology, clinical symptoms and complications of each disease.
- a3. Enumerate the natural history of Otolaryngology diseases.
- a4. Enumerate the causation of Otolaryngology diseases
- a5. Describe infection control methods

**b) Intellectual Skills:**

By the end of the course the student is expected to:

- b1. Interpret data through microbiological testing to reach a provisional diagnosis for Otolaryngology problems
- b2. Assess the involvement of the immune system in the current disease process

**c) Professional and Practical Skills:**

By the end of the course the student is expected to:

- c1. Evaluate different pathological and microbiological reports.
- c2. Identify methods of staining, culturing and biochemical reactions

**d) General and Transferable Skills:**

By the end of the course the student is expected to:

- d1. Use data analysis and communication skills
- d2. Use the computer and the internet to gather scientific information.
- d3. Use different sources to obtain information and knowledge

**3. Course contents:**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Practical</b>
<u>General Bacteriology</u>			
Bacterial anatomy & Physiology	1	1	
Bacterial genetics	1	1	
Recombinant DNA technology	1	1	
Antibiotics	1	1	
Sterilization & Disinfection	1	1	
<u>Systematic Bacteriology</u>			
Gram +ve cocci	1	1	
Gram –ve cocci	1	1	
Gram +ve bacilli	1	1	
Gram –ve bacilli	1	1	
<u>General virology</u>	2	2	
<u>Systematic Virology</u>			
RNA viruses	2	2	
DNA viruses	2	2	
<u>Mycology</u>			
Fungal classifications	2	2	
Opportunistic mycosis& Antifungal drugs	2	2	
<u>Immunology</u>			
Congenital & Acquired Immunity	1	1	
Immunological Cells	2	2	
Hypersensitivity	2	2	
Transplantation	1	1	
Tumor Immunology	1	1	
Immunodeficiency	2	2	
<u>Applied Microbiology</u>	2	2	
<b>Total</b>	<b>30</b>	<b>30</b>	
<b>Credit</b>	<b>2</b>	<b>2</b>	

**4. Teaching and Learning Methods**

- 4.1. Lectures.
- 4.2. Department practical class and notes.

4.3- Practical lessons.

### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

### Assessment Schedule

Assessment 1. Written examination (week 24)

Assessment 2. Oral examination (week 24)

Assessment 3. Attendance and absenteeism

### Weighting of Assessments

Final-term Examination	50%
Oral Examination	50%
Total	100%

### 6. List of References

#### 6.1- Course Notes

Notes of the department and practical notebook Prof. Abla Elmeshad

#### 6.2- Essential Books (Text Books)

Jawetz Medical Microbiology 2016.

Roitt Essential Immunology.

Abbas Clinical Immunology

Alberts Molecular Biology

#### 6.3- Recommended Books

A coloured Atlas of Microbiology.

Topley and Wilson, Microbiology

#### 6.4- Periodicals, Web Sites, ... etc

Microbiology

Immunology

<http://mic.sgmjournals.org/>

### 7. Facilities Required for Teaching and Learning:

- Library & textbooks.
- Computer & data show.
- Internet connection.

**Course Coordinator:** Dr. Ekram Abd El-Rahman

**Head of department:** Dr. Abeer Shenief

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Clinical and Chemical Pathology in Master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: **Master degree in Otolaryngology**
2. Minor element of program.
3. Department offering the program: Otolaryngology department
4. Department offering the course: Clinical and Chemical Pathology department ,
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Title:** Clinical and Chemical Pathology for master degree in otolaryngology

**Code:** CLIP 0524-200

**Total hours :**

Module	Lecture	Tutorial:	Practical	Credit hour
Clinical and Chemical Pathology	30			2

### B. Professional Information

#### 1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of medical diseases related to E.N.T.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) Knowledge and Understanding:

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

- a1. Enumerate different laboratory tests necessary for diagnosis of various Otolaryngology illnesses.

##### b) Intellectual Skills:

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

- b1. Select from different laboratory testing that help to final diagnosis of Otolaryngology problems.

##### c) Professional and Practical Skills:

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

- c1. Evaluate various laboratory techniques in relation to Otolaryngology.

##### d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. Use different sources to obtain information and knowledge.

#### 3. Course contents:

	Lectures	No. of hours
<b>Total hours : (15 hrs)</b>		
Clinical haematology	<b>1</b>	<b>1</b>



1. Normal Hb. And its variants	<b>1</b>	<b>1</b>
2. Anemias	<b>2</b>	<b>2</b>
3. Normal haemostasis	2	2
4. Commonest cause of bleeding	2	2
5. Platelet disorders	2	2
6. Coagulation disorders	2	2
7. Anticoagulant therapy monitoring	1	1
8. How to investigate a case of bleeding?	1	1
9. Pre-transfusion compatibility procedure	1	1
10. Blood component therapy	1	1
11. Hazards of blood transfusion	1	1
Clinical chemistry		
1. Kidney function	<b>2</b>	<b>2</b>
2. Urine examination	<b>1</b>	<b>1</b>
Clinical microbiology		
1) Anti-microbial and sensitivity test	<b>2</b>	<b>2</b>
2) Medically important cases : a. sore throat	<b>2</b>	<b>2</b>
Clinical immunology		
1) Types of antigen and antibody reactions	2	2
2) Diagnosis of infectious diseases.	2	2
3) Immunological investigation of tonsillitis	2	2
<b>Total</b>	<b>30</b>	<b>30</b>
<b>Credit Hours</b>	<b>1</b>	<b>1</b>

#### 4. Teaching and Learning Methods

- 4.1. Lectures.
- 4.2. Department practical class and notes.
- 4.3- Practical lessons.

#### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

#### Assessment Schedule

- Assessment 1. Written examination (week 24)
- Assessment 2. Oral examination (week 24)
- Assessment 3. Attendance and absenteeism

#### Weighting of Assessments

Final-term Examination	50%
Oral Examination	50%
Total	100%

## **6. List of References**

### **6.1- Course Notes:**

Notes of the department and practical notebook

### **6.2- Essential Books (Text Books):**

**Essential Hematology** of A. H.Hoffbrand.

### **6.3- Recommended Books:**

Color Atlas of Hematology of Harald Thelml.

Atlas of Clinical Hematology of Douglas C. Tkachuk..

### **6.4- Periodicals, Web Sites, etc**

<http://mic.sgmjournals.org/>

## **7. Facilities Required for Teaching and Learning:**

- a. Library & textbooks.
- b. Computer & data show.
- c. Internet connection.

**Course Coordinator:** Dr. Lila M. Yousef

**Head of Department:** Dr. Hsnaa Aboelwafa

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Rvised:**1/12/2018

# Course Specifications of Medical Physiology in Master degree in Otolaryngology

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master degree in Otolaryngology
2. Minor element of program.
3. Department offering the program: Otolaryngology department
4. Department offering the course: Medical Physiology department
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

**A. Basic information**

**Title:** Medical Physiology ,

**Code :**PHY 0524-200

**Total hours :**

Module	Lecture	Tutorial	Practical	Credit
Physiology	15			1

**B. Professional information**

**1. Overall Aims of Course:**

To prepare an otolaryngology physician oriented with the physiology of the special senses including that of hearing, equilibrium, smell & taste also that concerned with the regulation of body temperature and upper respiratory physiology. in addition , graduates should have enough knowledge about haemostasis, hemorrhage & shock .

**2. Intended Learning Outcomes of Course (ILOs):**

**a) Knowledge and Understanding**

By the end of the course the student should be able to;

- a1. Mention the recent advances in the normal function of the human head and neck , Ear, nose and Throat on the macro level.
- a2. Mention the natural history of Otolaryngology diseases.
- a3. Enumerate Methods of Otolaryngology health and preventing their illness.

**b) Intellectual Skills**

By the end of the course the student should be able to;

- b1. Assess hearing & equilibrium disorders.

**c) Professional and Practical Skills**

By the end of the course the student should be able to;

- c1. Evaluate and develop methods and tools existing in the area of Otolaryngology

**d) General and Transferrable skills**

By the end of the course the student should be able to;

- d1. Communicate with members of physiology department.
- d2. Use different sources to obtain information and knowledge.

### 3. Contents

#### Physiology module :

Topic	No. of hours	Lecture
Body fluids, electrolytes, edema.	1	1
Water & electrolyte balance.	1	1
Upper respiratory tract physiology.	2	2
Hemostasis & its defects.	1	1
Blood groups & transfusion.	1	1
Hemorrhage & shock.	1	1
Deglutition.	1	1
Pain sensation.	1	1
Body temperature regulation.	1	1
R.B.Cs, hemoglobin & anaemia.	1	1
Taste sensation.	1	1
Smell sensation.	1	1
Physiology of hearing.	1	1
Physiology of equilibrium	1	1
Total	15	15
Credit	1	1

#### 4. Teaching and Learning Methods

4.1- Lectures.

4.2- Attending and participating in scientific conferences, workshop.

#### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

#### Assessment Schedule

Assessment 1.... Final written exam.... Week ...23

Assessment 2....Final oral exam..... Week....24

#### Weighting of Assessments

Final-term examination 50%

Oral examination 50%

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**Total 100%**

#### 6. List of References:

##### 6.1- Essential Books (Text Books)

Guyton and Hall Textbook of Medical Physiology, John E. Hall, 13<sup>th</sup> edition, Elsevier Health Sciences, 2015.

##### 6.2- Recommended Books

Ganong's Review of Medical Physiology, 25<sup>th</sup> Edition, McGraw Hill Professional, 2015.

**6-3Periodicals, Web sites**

## **7. Facilities Required for Teaching and Learning**

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements

**Course coordinator:** Dr/Hoda Moustafa

**Head of department:** Dr/. Hoda Moustafa

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Human Anatomy, Embryology and, Genetics in Master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

- 1- Program on which the course is given: Master degree in Otolaryngology
- 2- Minor element of program.
- 3- Department offering the program: Otorhinolaryngology department
- 4- Department offering the course: Human Anatomy & Embryology department,  
Histology and Cell Biology department
- 5- Academic year / Level: First part.
- 6- Date of specification approval: Faculty council No. “317”, decree No. “1533”  
dated 17/12/2018

### A. Basic Information

**Title:** Human Anatomy & Embryology and Genetics

**Code:** ANA-HIS0524-200

	Lecture	Tutorial	Practical	Credit
Anatomy & Genetics	30			2

### B. Professional Information

#### Anatomy and embryology module:

##### 1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the anatomy and embryology of the head, neck and chest.

#### Genetics module :

By the end of the course the post graduate students should be able to have the professional knowledge of the genetics related to E.N.T.

##### 2. Intended Learning Outcomes of Course (ILOs):

#### Anatomy and embryology module

##### a) Knowledge and Understanding

By the end of the course the student should be able to;

- a1. Mention the recent advances in the normal structure of the human head and neck , Ear ,nose and throat on the macro level.
- a2. Enumerate the normal growth and development of the human head and neck, ear nose and throat.

##### b) Intellectual Skills

By the end of the course the student should be able to;

- b1. Identify different anatomic variations that help in solving Otolaryngology problems.

##### c) Professional and Practical Skills

By the end of the course the student should be able to;

- c1. Assess methods and tools existing in the area of Otolaryngology.

##### d) General and Transferrable skills

By the end of the course the student should be able to;

d1. Use different sources to obtain information and knowledge.

**Genetics module :**

**a) Knowledge and Understanding:**

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

- a1. Mention the normal structure and function of gene
- a2. Describe the genetic base of otolaryngology diseases

**b) Intellectual Skills:**

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

- b1. Link between gene abnormalities and disease causation.

**c) Professional and Practical Skills:**

By the end of the course the student should have the ability to:

- c1. Assess methods and tools existing in the area of Otolaryngology.

**d) General and Transferable Skills:**

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

- d1. Use different sources to obtain information and knowledge

**3. Contents**

**Anatomy and embryology**

Topic	No. of hours	Lecture
Introduction	3	3
Anatomy and embryology of the nose	3	3
Anatomy and embryology of the ear	3	3
Anatomy and embryology of the pharynx	2	2
Anatomy and embryology of the larynx	2	2
Anatomy and embryology of the nasal cavity	2	2
<b>Total</b>	<b>15</b>	<b>15</b>
<b>Credit</b>	<b>1</b>	<b>1</b>

**Genetics module:**

Topic	No. of hours	Lecture
Introduction to DNA and its use	۲	۲
Variations	۲	۲
Gene interactions	1	1
Genes and environments	1	1
What is the contribution of genetics to hearing impaired?	1	1
How many genes involved	1	1
Inheritance	1	1
Mapping and cloning genes	1	1
The mouse as a model	1	1
Other otorhinolaryngological disorder	۲	۲
What lessons have we learned from genetics researched so far?	۲	۲
<b>Total</b>	<b>15</b>	<b>15</b>
<b>Credit</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

- 4.1- Lectures.
- 4.2- Practical lessons.
- 4.3- Assignments for the students to empower and assess the general and transferable skills.
- 4.4- Attending and participating in scientific conferences, workshop.

### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

### Assessment Schedule

Assessment 2.... Final written exam....	Week ...23
Assessment 3.....Final oral exam.....	Week...24

### Weighting of Assessments

Final-term Examination	50 %
Oral Examination.	50 %
<hr/>	
Total	100%

### 6. List of References

#### Anatomy and embryology module

- 6.1- Essential Books (Text Books)
  - Fitzgerald M.J.T. (2016): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York. Sydney. Toronto.
- 6.2- Recommended Books
  - Stevens A. and Lowe J. S. (2015): Human histology; 5<sup>th</sup> edition; edited by Elsevier Mosby
  - Colored Atlas of anatomy.
  - Martini F. H., Timmons M. J. and McKinley M.P. (2015): Human anatomy; 10 edition.
  - Tortora G. J. and Nielson M.T. (2016): Principles of human anatomy 14 edition; Edited by John Wiley and Sons ; United states.
  - McMinn R.M.H. (2017): Lasts anatomy regional and applied chapter 7; 14 edition, edited by Longman group UK.

#### Genetics module :

##### 6.1- Course Notes: genetics

Scott-Brown's Otolaryngology

##### 6.2- Essential Books (Text Books):

Scott-Brown's Otolaryngology

Cummings otolaryngology& head neck

##### 6.3- Recommended Books:

Scott-Brown's Otolaryngology



Cummings otolaryngology& head neck

**6.4- Periodicals, Web sites**

<http://www.ncbi.nlm.nih.gov/PubMed/>

<http://www.ncbi.nlm.nih.gov/>

<http://www.uwcm.ac.uk/uwcm/mg/hgmd0.html>

**7. Facilities Required for Teaching and Learning**

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements

**Course Coordinator:**

**Anatomy and embryology module:** Dr . Mohamed Al-Badry.

**Genetics module:** . Eman Khalefa Ahmed

**Head of Department:**

**Anatomy and embryology module:** Dr. Mohamed Al- Badry.

**Genetics module:** Prof. Hekmat Osman Abd El Aziz

**Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018**

## Course Specifications of Internal Medicine in Master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in Otolaryngology
2. Minor element of program.
3. Department offering the program: Otorhinolaryngology department
4. Department offering the course: Internal Medicine department
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Title:** Internal Medicine for postgraduate students ENT Msc

**Code:** MED 0524-200

Lecture	Tutorial:	Practical	Credit
15 hs		30	2

### B. Professional Information

#### 1. Overall Aims of Course

By the end of the course of Internal Medicine, the candidate should be able to:

- 1- Deal with common medical conditions related to ENT disorders on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- 2- Deal with acute medical emergencies related to ENT disorders.
- 3- Perceive and integrate progress in medical technology.

#### 2. Intended Learning Outcomes of Course (ILOs)

##### a) Knowledge and Understanding:

By the end of the course, the candidate is expected be able to:

- a1. Enumerate the natural history of certain Otolaryngology diseases.
- a2. Enumerate the common medical conditions related to ENT diseases.
- a3. Describe the concept of emergency management of acute medical disorders related to ENT disorders.

##### b) Intellectual Skills

By the end of the course, the candidate is expected be able to:

- b1. Interpret the most important symptoms and signs of disease in Internal Medicine patients.
- b2. Identify common clinical situations related to ENT disorders using appropriate problem solving skills

##### c) Professional and Practical Skills

By the end of the course, the candidate is expected be able to:

- c1. Assess X-ray and CT films, blood gas and blood picture reports covering the most important medical conditions

#### d) General and Transferable Skills

By the end of the course, the candidate is expected to be able to:

- d1. Use different sources to obtain information and knowledge.

### 3. Contents

#### Detailed Contents

##### 1-Cardiology Teaching

The cardiology curriculum is designed so that at the end of the course the candidate will be able to:

- 1- Know the principles of cardiovascular anatomy and physiology which are relevant to cardiovascular diseases.
- 2- Know the basic patho-physiological and structural alteration that occur in Rheumatic heart diseases, heart failure and infective endocarditis, Systemic hypertension.
- 3- Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
  - Heart failure (acute, chronic, systolic, diastolic)
  - Rheumatic fever, rheumatic heart disease including the affection of the pericardium and cardiac valves.
  - Causes features and management of infective endocarditis.
  - The problem of hypertension in Egypt and the importance of all grades of elevated blood pressure also causes and features of essential and secondary hypertension,, also methods of treatment and the problem attending the use of antihypertensive drugs.
  - The interaction between the lung and the heart and causes Clinical presentation and management of pulmonary embolism and cor pulmonale)
  - Elements of management of cardiac patients undergoing surgery, .
  - Properties, uses, and side effects of important cardiovascular drugs used in treatment of common diseases.
- 4- Skills: The graduate should be able to:
  - Elicit normal and abnormal cardiovascular signs such as general features, attitude, facies, BP arterial and venous pulse,.....
  - Elicit normal and abnormal physical signs in chest and abdominal examination that may cause or accompany or result from cardiac disease such as hepatomegaly, splenomegaly, ascites,.....
  - Can perform successfully basic life support and cardiac resuscitation (cardiac massage, mouth to mouth breath) either alone or with a team.
  - He should be able to interpret normal and abnormal cardiac shadows in chest Xray.

#### **Cardiology teaching (Methodology):**

A combination of strategies are used to reach the above mentioned objects, this include lectures, clinical and self teaching.

**1-Lectures :** lectures are given to accompany the clinical and the practical teaching. They are designed to cover the salient features, difficult aspects, recent advances not usually incorporated in students text books and specific personal practices of the following subjects:

## **A-Lectures**

Topics	No of lectures	hour
Cardiovascular Symptoms and signs	1	1/4
-Rheumatic fever -Valve lesions -Infective endocarditis	1	1/4
-Systemic Hypertension	1	1/4
-Adult congenital heart diseases	1	1/2
Systemic Hypertension	1	1/2
<u>Heart failure</u> -Systolic Heart Failure -Diastolic Heart Failure -High cardiac output heart failure -Cor pulmonal	1	3/4
Pulmonary embolism	1	1/2

## **B- Practical teaching (cardiology)**

### **Practical Topics:**

- 1-Cardiovascular history taking **1 hour**
  - 2-Cardiac examination (including pulse BP, and Jugular venous pressure comment) **1 hour**
  - 3-Cardiac valve lesions **1/2 hour**
  - 4-Rheumatic heart disease **1/2 hour**
  - 5-Infective endocarditis **1 hour**
  - 6-Heart failure **1 hour**
- 3-Self teaching: This include:
- Personal responsibility including follow up of inpatients in the department.
  - Cardiology outpatient sessions in which the student examine the patients with the assistant lecturer to recognize the presenting

## **2-Endocrinology teaching**

The curriculum consists of an integrated theoretical, clinical and practical training courses.

### **Terminal objectives are:**

- 1-To know the principles of the physiology of endocrinal system
- 2-To know the basic pathophysiological and structural alteration changes that occur in common endocrinal diseases as Pituitary, thyroid, parathyroid glands disorders.
- 3-To know the basics of various investigations of endocrinal diseases
- 4-To interpret endocrinal imagings such as X-ray , CT and MRI of different endocrinal organs.

### **Endocrinology teaching (Methodology)**

A combination of strategies is used to reach the above mentioned objectives. This includes:

### **1-Lectures**

Topics	No of lectures
Principles of endocrinology	1/4
Disorders of the anterior pituitary and the hypothalamus	1/4
Disorders of the neurohypophysis "Diabetes Insipidus"	1/4
<u>Disorders of the thyroid gland</u> Hypothyroidism Hyperthyroidism	1/4
<u>Disorders of the Parathyroid gland</u> And hypercalcemia	1/4
Endocrinology of blood pressure control	1/4
Diabetes mellitus	1/2
Hypoglycemia	1/2

### **B-Practical teaching in endocrinology (54 hours)**

#### **Practical topics:.**

- 1-History taking of various endocrinal disorders \_\_ 2 hour
- 2-Thyrotoxicosis 1 hour
- 3-Myxedema 1 hour
- 4-Diabetic commas 1 hour

### **3-Hematology teaching**

Topics	Hours
<u>1-Anemias</u> Iron deficiency Megaloblastic anemia Acquired hemolytic anemia	1/2
<u>2-Bleeding disorders</u> Platelets disorders Coagulation disorders	1/2
<u>3-Lymphadenopathy</u>	1/2
<u>4-Lymphomas</u>	1/4
<u>5-Acute and chronic leukemias</u>	1/4
<u>6-Splenomegally</u>	1/2

**Practical** **5 hour**

### **4-Nephrology teaching**

Topics	No of lectures
Structure and function	1/2
<u>Major clinical syndromes in nephrology:.</u> Nephrotic syndrome Acute nephritic syndrome	1/2
<u>Disturbed renal function:.</u> Acute renal failure Chronic renal failure Renal dialysis and Renal transplantation	1/2
Drug induced rena disorders	1/2
Investigations of renal disease	1/2

### **B-Practical nephrology:.**

#### Topics:.

- 1-History taking in renal disorders **1 hour**
- 2- Nephrotic syndrome **1 hour**
- 3-Generalized oedema **1 hour**
- 4-cute nephritis **1 hour**
- 5-Chronic renal failure **1/2 hour**
- 6-Acute renal failure **1/2 hour**

### **5-Gastroenterology and hepatology teaching**

#### **Terminal objectives in teaching are:**

- 1-To know the basic physiology of the digestive system (oesphagus, stomach, small, large intestine and the pancreas)

2-To know the anatomy and the basic pathophysiological and structural changes that occur in the upper gastrointestinal tract in various gastrointestinal diseases related to ENT disorders.

3 To know the upper gastrointestinal symptoms such as vomiting , ,..... and how to elicit important findings through abdominal examination, examination of the buccal cavity.

4-To know the important causes, presentation and management of the following disorders affecting the gastrointestinal tract:

- .Salivary gland disorders
- oesophageal diseases (GERD, oesphagitis, cancer)
- Peptic ulcer , gastritis, gastric malignancies.
- Acute and chronic GIT bleeding
- To acquire the basic knowledge for the following investigations done for GIT diseases as:
  - Abdominal sonography                      -Barium studies
  - abdominal CT

**A-Lectures**

Topics	No of lectures
Gastroesophageal junction disorders GERD Oesophageal malignancies	1/4
Peptic ulcer and gastritis and gastric malignancies	1/4
Crohn's disease	1/4
Salivary gland disorders	1/4
Dysphagia	1/4
Motility disorders of the GIT	1/4
Upper GI bleeding	1/4
Hepatology	
Acute and chronic hepatitis	1/4
Liver cirrhosis, portal hypertension and liver cell failure	1/8
Jaundice	1/8

**Practical GIT and Hepatology Topics:.**

- |  |          |
|--|----------|
| 1-History taking of gastroenterology       | 1 hour   |
| 2- Abdominal masses including malignancies | 1 hour   |
| 3-Hepatomegally                            | 1/2 hour |
| 4-Spleenomegally                           | 1/2 hour |
| 5-Vitamine deficiencies manifestations     | 1/2 hour |
| 6-Gastrointestinal bleeding evaluation     | 1/2 hour |
| 7-Ascites                                  | 1/4 hour |
| 8-Jaundice                                 | 1/4 hour |

**9-Self teaching: This includes:**

- Personal responsibility including follow up of inpatients in the department.
- Hepatology outpatient sessions in which the student examine the patients with the assistant lecturer to recognize the presenting manifestations of the diseased **and non diseased person**

**6-Respiratory disease teaching****A-Lectures**

Topics	No of lectures
Asthma	1/2
Upper respiratory infections	1/2
Pneumonias	1/2
Suppurative syndrome	1/4
Tuberculosis	1/4
Respiratory failure	1/4
Pleural effusion	1/4

**B- Practical respiratory****5 hour****Topics:**

- |                                     |          |
|-------------------------------------|----------|
| 1-History taking of chest diseases  | 1/2 hour |
| 2-Chest examination                 | 1/2 hour |
| 3-Cyanosis tremors                  | 1/2 hour |
| 4-Bronchial asthma,                 | 1/2 hour |
| 5-Pleural effusion                  | 1/2 hour |
| 6-Tuberculosis                      | 1/2 hour |
| 7- Chest infection                  | 1/2 hour |
| 8-Chronic suppurative lung diseases | 1/2 hour |
| 9-Interpretation of X-ray chest     | 1 hour   |

**4. Teaching and Learning Methods**

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients (once /week for 8 weeks)
- 4.3- Attendance in outpatient's clinic (once/week for 8 weeks)
- 4.4- Case studies in department conference (once/week for 8 weeks)
- 4.5- Interactive presentations (lectures with discussion)

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSCE	-Practical skills, intellectual skills General transferable skills



## Assessment Schedule

Written examination	<b>week23</b>
OSCE	<b>week23</b>
Structured Oral Exam	<b>week24</b>

## Weighting of Assessments

Written examination	50%
OSCE	20%
Structured Oral Exam	30%
<hr/>	
Total	100%

## 6. List of References

### 6.1- Essential Books (Text Books)

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 9<sup>th</sup> edition, 2018
- Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 24<sup>st</sup> edition;2018

### 6.2- Recommended Books

- Goldman-Cecil Textbook of Medicine;25<sup>th</sup> edition, 2018.
- Harrison's principles of internalmedicine,20<sup>th</sup> edition, 2018.

### 6.3- Periodicals, Web Sites, ... etc

## 7. Facilities Required for Teaching and Learning

- Lecture rooms
- Round rooms
- Accessibility to hospital wards, clinics and emergency department
- Audio-visual teaching equipments (computers, data show projector, video, etc.)
- Models and mannequins
- Video tapes and scientific pictures archives.
- Radiology collections and archives.
- Library for the department.

**Course Coordinator:** Dr. Mohamed Mustafa Ahmed Malak.

**Head of Department:** Prof. Usama Ahmed Arafa.

**Date:** 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, **Revised: 1/12/2018**

## Course Specifications of General Surgery in Master degree in Otolaryngology

**Sohag University**

**Faculty of Medicine**

- 1- Program on which the course is given: Master degree in Otolaryngology
- 2- Minor element of program.
- 3- Department offering the program: Otolaryngology department
- 4- Department offering the course: General Surgery department
- 5- Academic year / Level: First part.
- 6- Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic information

**Title:** General Surgery

**Code:** SUR0524-200

Lecture	Tutorial	Practical	credit
15		30	2

### B. Professional information

#### 1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the general surgery.

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) Knowledge and Understanding

By the end of the course the student should be able to;

- a1. Enumerate the natural history of head and neck diseases.
- a2. Describe the causation of head and neck diseases
- a3. List the clinical picture and differential diagnosis of head and neck illnesses

##### b) Intellectual Skills

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for head and neck problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for head and neck problems.

##### c) Professional and Practical Skills

By the end of the course the student should be able to;

- c1. Master the basic and modern professional skills in the area of head and neck.

##### d) General and Transferrable skills

By the end of the course the student should be able to;

- d1. Use information technology to serve the development of professional practice.
- d2. Work in a team, and team's leadership in various professional contexts.

### 3. Contents

Topic	No. of hours	Lecture	Practical
<b>1.General Part</b>			
Hemorrhage.	2	0.5	1.5
Shock.	2	0.5	1.5
Blood transfusion.	2	0.5	1.5
Surgical infections & Antibiotic ice.	2	0.5	1.5
Hospital crosses infection.	2	0.5	1.5
Fluid therapy & acid base imbalance.	2	0.5	1.5
Pre-operative care of surgical Patient.	2	0.5	1.5
Post-operative complications. General & chest Complications.	2	0.5	1.5
<b>2.Special part</b>			
Closed head injuries.	2	0.5	1.5
Intra-cranial space occupying Lesions & increased intracranial pressure.	2	0.5	1.5
Brain abscess.	2	0.5	1.5
Parotid gland swellings.	2	0.5	1.5
Ulcers of the tongue.	2	0.5	1.5
Tongue cancer.	2	0.5	1.5
Pharyngeal Pouch.	2	1	1
Cleft palate.	2	1	1
Jaw swellings.	2	1	1
Temporo-mandibular arthritis.	2	1	1
Ludwig 's angina.	2	1	1
Neck swellings. ▪ Swellings in the anterior triangle. ▪ Swellings in the posterior triangle. ▪ Swellings in the front of the neck.	3	1	2
Thyroid gland & post	2	1	1
Anomalies of the thyroglossal tract.	2	1	1
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit</b>	<b>2</b>	<b>1</b>	<b>1</b>

### 4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients (once /week for 8 weeks)
- 4.3- Attendance in outpatient's clinic (once/week for 8 weeks)

### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General

	transferable skills
5.4-OSCE	-Practical skills, intellectual skills General transferable skills

### Assessment Schedule

Assessment 1.....	Written exam .....	Week: 22
Assessment 2.....	Structured Oral Exam .....	Week ...23
Assessment 3.....	OSCE .....	Week...24

### Weighting of Assessments

Written examination	50%
Structured Oral Exam	30%
OSCE	20 %
<hr/>	
Total	100%

### 6. List of References

#### 6.1- Course Notes:

Lecture notes prepared by staff member in the department

#### 6.2- Essential Books (Text Books)

Belly and Love

#### 6.3- Recommended Books

#### 6-4 Periodicals, Web sites

### 7. Facilities Required for Teaching and Learning

- 1- Lecture rooms
- 2- Round rooms
- 3- Accessibility to hospital wards, clinics and emergency department
- 4- Audio-visual teaching equipments (computers, data show projector, video, etc.)
- 5- Models and mannequins
- 6- Video tapes and scientific pictures archives.
- 7- Radiology collections and archives.
- 8- Library for the department.

**Course Coordinator:** Prof. Alaa El Soyoty.

**Head of Department:** Prof. Nabil Ysef Abo El Dahab

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications Medical statistics computer, Research methodology in Master degree in Otolaryngology

Sohag University

Faculty of Medicine

1. Program on which the course is given: Master degree in Otolaryngology
2. Minor element of program.
3. Department offering the program: Otorhinolaryngology department
4. Department offering the course: Community Medicine and public Health department
5. Academic year / Level: First part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic information

**Title:** medical statistics, computer research methodology

**Code:** COM 0524-200

**Total hours :**

Module	Lecture	Tutorial	Practical	Credit
Medical statistics, Computer, Research methodology	15		30	2

### B. Professional information

#### 1. Overall Aims of Course:

To develop a post-graduate who will apply the knowledge and skills learned, and is able to take the responsibility of making study design, collect, code, analyze and interpret data

#### 2. Intended Learning Outcomes of Course (ILOs):

##### a) Knowledge and understanding:

By the end of the course, the Pediatrics post-graduate is expected to be able to:

- a1. Mention the mutual influence between professional practice and its impacts on the environment
- a2. Enumerate the basics and ethics of scientific research
- a3. Describe the principles and fundamentals of quality assurance of professional practice in the field of Otolaryngology

##### b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

- b1. Conduct a research study and or writing a scientific study on a research problem.
- b2. Analyze researches and issues related to the Otolaryngology.

##### c) Professional and Practical Skills:

- c1. Write and evaluate medical reports.

##### d) General and Transferable Skills:

- d1. Use different sources to obtain information and knowledge.

### 3. Contents

Topic	Lecture	Practical
Methodology & statistics	1	2
Terminology and rationale	1	2
Data collection	1	2
Types of Data	1	2
Tabulation of data	1	2
Graphical presentation of data	1	2
Measures of central tendency	1	2
Measures of dispersion	1	2
Normal distribution curves	1	2
Basics of Screening	1	2
International death certificate	1	2
Study design:	1	2
Cross sectional study and the prevalence rate	1/2	1
Cohort study, incidence rate, relative & attributable risk	1/2	1
Case-control study, Odd's ratio	1/2	1
Sampling	1/2	1
Investigation of an epidemic, the attack rates	1/2	1
<b>Total</b>	<b>15</b>	<b>30</b>
<b>Credit Hours</b>	<b>1</b>	<b>1</b>

### 4. Teaching and Learning Methods

4.1- Lectures.

4.2- Attending and participating in scientific conferences, workshop.

### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

### Assessment Schedule

Assessment 1.... Final written exam.... Week ...23

Assessment 2.....Final oral exam..... Week....24

### Weighting of Assessments

Final-term examination 50%

Oral examination 50%

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**Total 100%**

## **6. List of References:**

### **6.1- Essential Books (Text Books)**

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

### **6.2- Recommended Books**

Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

### **6.3- Periodicals, Web Sites, ...etc**

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

WWW. CDC and WHO sites

## **7. Facilities Required for Teaching and Learning**

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements

**Course coordinator: Dr/ Rasha Abd-Elhameed**

**Head of department: Prof/ Ahmed Fathy Hammed**

**Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018**

# Course Specifications of Otolaryngology in Master degree in Otorhinolaryngology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in Otolaryngology
2. Major element of program.
3. Department offering the program: Otorhinolaryngology department
4. Department offering the course Otorhinolaryngology department
5. Academic year / Level: 2<sup>nd</sup> part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

## A. Basic Information

**Title: Otolaryngology**

**Code:** OTO 0524-200

Lecture	Tutorial:	Practical	CREDIT
225	120	150	24

## B. Professional Information

### 1. Overall Aims of Course

The aim of this program is to provide the candidate with the basic knowledge and skills essential for the practice of otolaryngology and necessary for further training and practice in the field of otolaryngology including: Doctorate degree through providing:

- 1- Scientific knowledge essential for the practice of otolaryngology.
- 2- Skills necessary for proper diagnosis and management of patients including diagnostic, problem solving and decision making skills.
- 3- Sound ethical principles related to medical practice in general and with special concentration on otolaryngology practice.
- 4- Active participation in community needs assessment and problems identification.
- 5- Developing learning abilities necessary for continuous medical education.
- 6- Developing research interest and abilities.

### 2. Intended Learning Outcomes of Course (ILOs):

#### a) Knowledge and Understanding

By the end of the program, the student is expected to gain the knowledge and understanding to be able to:

- a1. Enumerate recent advances in the natural history of Otolaryngology diseases.



- a2. Mention recent advances in the causation of Otolaryngology diseases.
- a3. Enumerate Methods of Otolaryngology health and preventing their illness.
- a4. List the clinical picture and differential diagnosis of Otolaryngology illnesses.
- a5. Enumerate different laboratory tests necessary for diagnosis of various Otolaryngology illnesses.
- a6. Describe recent advances in the various therapeutic methods/alternatives used for Otolaryngology diseases.
- a7. Enumerate Scientific developments in the field of Otolaryngology.

**b) Intellectual skills**

By the end of the program, the student is expected to be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for Otolaryngology problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for Otolaryngology problems.
- b3. Assess risk in professional practices in the field of Otolaryngology.
- b4. Identify Otolaryngology problems and find solutions

**c) Professional and practical skills**

By the end of the program, the student is expected to be able to:

- c1. Master the basic and modern professional skills in the area of Otolaryngology.
- c2. Assess methods and tools existing in the area of Otolaryngology.

**d) General and transferable skills**

By the end of the program, the student is expected to be able to:

- d1. Communicates effectively by all types of effective communication.
- d2. Assess himself and identify his personal needs.
- d3. Use different sources to obtain information and knowledge.
- d4. Work coherently and successfully as a part of a team and team's leadership.
- d5. Manage time effectively
- d6. Learn himself continuously.

**3. Contents**

Topic	No. of hours/year	Lecture	Tutorial / Practical
<b>The course</b>	<b>495</b>	<b>225</b>	<b>270</b>
<b>The Ear</b>	<b>110</b>	<b>50</b>	<b>60</b>
1- Anatomy, physiology of hearing-equilibrium. Examination and investigations.	15	5	10
2- Diseases of external ear: congenital, wax, foreign bodies, trauma and infections.	10	5	5
3- Diseases of middle ear: - Congenital anomalies, trauma - Acute, chronic suppurative and non-suppurative OM and complications. - Otosclerosis	10	5	5

- Tumors			
4- Diseases of inner ear: - Meniere's syndrome, labyrinthitis, acoustic neuroma - Ototoxicity - Vestibular and balance disorders	20	10	10
5- Audiology: - Types of hearing loss in adults and children - Assessment of hearing - Management of deafness including hearing aids and cochlear implants	25	10	15
6- Symptoms and signs of ear diseases - Deafness                      - Tinnitus - Vertigo                         - Pain - Facial nerve paralysis – Discharge	20	10	10
7- Principles and details of some operations: - Myringotomy                - Simple mastoidectomy - Radical mastoidectomy - Stapedectomy	10	5	5
<b>The Nose and Paranasal sinuses</b>	<b>110</b>	<b>50</b>	<b>60</b>
- Anatomy, physiology, examination and investigations including endoscopy	15	5	10
- Symptoms and signs of nasal diseases: - Nasal discharge            - CSF rhinorrhoea - Nasal obstruction        - Headache - Smell disorders            - Snoring, sleep apnea - Epistaxis	20	10	10
3- Congenital malformations, foreign bodies ,nasal and facial trauma.	15	5	10
4- Acute and chronic inflammations of the nose.	10	5	5
5- Allergy and nasal polypi.	10	5	5
6- Diseases of nasal septum.	10	5	5
7-.Acute and chronic sinusitis and complications.	10	5	5

8- Cysts and tumors of nose, PNS.	10	5	5
9- Principles and details of some operations: - INA - Radical antrum operation - Septal surgery - FESS	10	5	5
<b>The Mouth and Pharynx</b>	<b>110</b>	<b>50</b>	<b>60</b>
1- Anatomy, physiology, examination and investigations.	15	5	10
2- Diseases of nasopharynx: - Adenoids - NP tumors	15	5	10
3- Diseases of oropharynx: - Inflammations - Oropharyngeal ulcerations - Tumors	20	10	10
4- Suppuration of the spaces related to pharynx	20	10	10
5- Diseases of hypopharynx: - Inflammations - Hypopharyngeal pouch - Tumors	20	10	10
6- Principles and details of some operations: - Tonsillectomy - Adenoidectomy, pharyngeal endoscopies	20	10	10
<b>The Larynx</b>	<b>105</b>	<b>50</b>	<b>55</b>
1- Anatomy, physiology, examination and investigations including endoscopy.	15	5	10
2- Congenital anomalies, trauma to larynx	10	5	5
3- Acute and chronic inflammations of the larynx	10	5	5
4- Neurological disorders of the larynx	10	5	5
5- Benign and malignant tumors of larynx	10	5	5
6- Symptoms of laryngeal diseases: - Hoarseness of voice - Stridor - Pain, cough, expectoration	20	10	10
7- Principles and details of some laryngeal operations:	20	10	10
8- Principles of phoniatrics:	10	5	5

- Voice induced disorders (MAP lesions)			
<b>The esophagus</b>	<b>35</b>	<b>15</b>	<b>20</b>
1- Anatomy, physiology, investigations including esophagoscopy.	15	5	10
2- Dysphagia: causes, management, including: - Corrosive swallow - FB swallowing - Achalasia - Tumors	20	10	10
<b>The trachea and bronchi</b>	<b>35</b>	<b>10</b>	<b>15</b>
1- Anatomy, physiology, investigations including bronchoscopy.	7.5	2.5	5
2- FB inhalation	7.5	2.5	5
3- Tracheostomy	10	2.5	2.5
Diseases and tumors of Salivary glands	10	2.5	2.5
Total	<b>495</b>	<b>225</b>	<b>270</b>
Credit	<b>۲۴</b>	<b>۱۰</b>	<b>۹</b>

#### 4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Seminars
- 4.3- Outpatient clinic demonstration and explanation.
- 4.4- Attending in the operative theatre and perform the common operations under supervision ranging from strict direct supervision until indirect supervision.
- 4.5- Demonstration and explanation of different cases in clinical rounds.

#### 5. Student Assessment Method

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3- Written Exam: - Short essay: 40% - structured questions: 25% - MCQs: 20% - Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5- OSCE	- Practical skills, intellectual skills General transferable skills

### **Assessment Schedule:**

1. final written examination      week94
2. Structured Oral Exam              week 96
3. OSCE                                      week 96

### **Weighting of assessment**

Written exam	50%
Oral exam	30%
OSCE	20%

### **6. List of References**

#### **6.1- Course Notes**

Handouts of Lectures and clinical seminars.

#### **6.2- Essential Books (Text Books)**

Scott-Brown's Otolaryngology

#### **6.3- Recommended Books**

Logan Turner's Diseases of the Nose, Throat and Ear

#### **6.4- Periodicals, Web Sites, etc**

Journal of Laryngology and Otology,

Laryngoscope

Achieves of otolaryngology-Head& Neck Surgery,

Clinical Otolaryngology

### **7. Facilities Required for Teaching and Learning**

- Slide projector
- PowerPoint programs and data show
- Other multimedia for case presentation and clinical skills
- Audiovisual system in the operative theatre to be acquainted with common operations

**Course Coordinator:** Dr/ Badawy Shahat Sadawy

**Head of Department:** Prof. Mohamed Abdel-Kader Ahmad

**Date:** 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Rvised:1/12/2018