Peer Revision

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

Program Specification of Medical Doctorate Degree of Otolaryngology

Sohag University **Faculty of Medicine…**

A. Basic Information

1. Program title: MD in Otolaryngology.
2. Program type: Single Program
3. Faculty: Faculty of Medicine
4. Department: Otolaryngology
5. Coordinator: Dr Ramadan Hashim Sayed, Professor at Otorhinolaryngology Department, Sohag Faculty of Medicine, Sohag University
6. Assistant coordinator, Mahmoud Ahmed Hamed, lecturer at otolaryngology department Sohag Faculty of Medicine, Sohag University
7. External evaluator: Professor/ Mahmoud Mohammed Ragheb Elsherif, Professor of Otolaryngology, Assuit University.
8. Last date of program specifications approval: Faculty council No. jk.

B. Professional Information

1. **Program aims**

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

   1. Recent scientific knowledge essential for the mastery of 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 Otolaryngology.
   4. Active participation in community needs assessment and problems identification.
   5. Maintenance of learning abilities necessary for continous medical education.
   6. Upgrading research interest and abilities.

2. **Attributes of the student:**

   1. Efficient in carrying out the basics and methodologies of scientific research.
   2. The continuous working to add new knowledge in the field of ENT.
   3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.
   4. Merging the ENT knowledge with the other related knowledge with conclusion and developing the relationships in between them.

Program Specification of Medical Doctorate Degree of Otolaryngology

Sohag University **Faculty of Medicine…**

A. Basic Information

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5. Coordinator: Dr Ramadan Hashim Sayed, Professor at Otorhinolaryngology Department, Sohag Faculty of Medicine, Sohag University
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7. External evaluator: Professor/ Mahmoud Mohammed Ragheb Elsherif, Professor of Otolaryngology, Assuit University.
8. Last date of program specifications approval: Faculty council No. 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 the advanced medical knowledge and skills essential for the mastery of practice of otolaryngology and necessary for further training and practice in the field of otolaryngology through providing:

   1. Recent scientific knowledge essential for the mastery of 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 Otolaryngology.
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   5. Maintenance of learning abilities necessary for continous medical education.
   6. Upgrading research interest and abilities.

2. **Attributes of the student:**

   1. Efficient in carrying out the basics and methodologies of scientific research.
   2. The continuous working to add new knowledge in the field of ENT.
   3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.

4. Merging the ENT knowledge with the other related knowledge with conclusion and developing the relationships in between them.
5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in the specialty of ENT.
6. Determination of the professional problems in the specialty of ENT and creating solutions for them.
7. Efficient in carrying out the professional skills in his specialty.
8. Using advanced suitable technologies which serves his practice.
9. Efficient communication and leadership of team work in his specialty.
10. Decision making through the available information.
11. Using the available resources efficiently and working to find new resources.
12. Awareness with his role in the development of the society and preserve environment.
13. Behaving in a way which reflects his credibility, accountability, and responsibility.
14. Keeping continuous self development and transfer his experiences and knowledge to others.

3. Intended learning outcomes (ILOs)

a) Knowledge and understanding:

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

a1. Mention the recent advances in the normal structure and function of the human head and neck on the macro and micro levels.
a2. Describe recent advances in the normal growth and development of the human head and neck.
a3. List the recent advances in the abnormal structure, function, growth and development of human Ear,Nose and Throat.
a4. Mention recent advances in the natural history of Otolaryngology diseases.
a5. Enumerate recent advances in 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 recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of Otolaryngology illnesses.
a9. Describe recent advances in the various therapeutic methods/alternatives used for Otolaryngology diseases.
a10. Enumerate Principles, methodologies, tools and ethics of scientific research and biostatistics and computer.
a11. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Otolaryngology.
a12. Mintion the principles and fundamentals of quality assurance of professional practice in the field of Otolaryngology.
a13. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual skills

By the end of the program, the candidate 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. Conduct research studies, that adds to knowledge.
b4. Formulate scientific papers in the area of Otolaryngology.
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. Have the ability to innovate nontraditional solutions to Otolaryngology problems.
b9. Manage Scientific discussion based on scientific evidences and proofs.
b10. Criticize researches related to Otolaryngology.

c) Professional and practical skills

By the end of the program, the candidate is expected to be able to:
c1. Master the basic and modern professional skills in the area of Otolaryngology.
c2. Write and evaluate medical reports.
c3. Evaluate and develop methods and tools existing in the area of Otolaryngology.
c4. Perform endoscopic and imaging evaluation of Otolaryngology problems.
c5. Train junior staff through continous medical education programs.
c6. Design new methods ,tools and ways of professional practice.

d) General and transferable skills

By the end of the program, the candidate is expected to be able to:
d1. Present reports in seminars effectively.
d2. Use appropriate computer program packages
d3. Teach others and evaluate their performance.
d4. Assess himself and identify his personal learning needs.
d5. Use different sources for information and knowledge.
d6. Work coherently and successfully as a part of a team
d7. Manage scientific meetings according to the available time

4. Academic standards

Sohag faculty of Medicine adopted the general National Academic Reference Standards (NARS) prvided 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- Programme duration: **7 semesters (3.5)years**

5.b- Programme structure

5.b.i- No. of hours per week:

Subject	**No of hours/week**		
	Lectures	**Practical/ surgical**	**clinical**
First Part:			
Minors :			
Bio Statistics & Computer	2	2	
Research Methodology	2	2	
Primary medical reports	1	2	
Basic sciences:			
a-compulsory			
Anatomy&embryology	2		
Physiology	2		
Pathology	1		
b-optional			
one of: 1-Advanced Neuro-anatomy and surgical anatomy of the skull base	2		
2- Basics of allergy and Immunology	2		
3- Basic principles of laser surgery	2		
4- Advanced physiology of voice and speech production	2		
5- Advanced physiology of auditory and vestibular systems	2		
Second Part:			
Surgery of ear ,nose and throat head neck and maxillofacial surgery	7	6	6

Code	Item		No	%
b.i	Total credit hours	Compulsory	88	97.7
		Elective	0	0
		Optional	2	2.3
b.iii	credit hours of basic sciences courses		5	5.5
b.iv	credit hours of courses of social sciences and humanities		0	0
b.v	credit hours of specialized courses:		52	57.7

b.vi	credit hours of other course	10	11.11
b.vii	Practical/Field Training	8	8.9%
b.viii	Program Levels (in credit-hours system): Level 1: 1st part Level 2: 2nd Part Level 3: Thesis	 15 52 15	 16.7 57.8 16.7

6. <u>Program courses: Compulsory 7 optional 1</u>

Semester…1…..

6.1 First part

a. Compulsory

Course Title	Total No. of hours	No. of hours/ week			Program ILOs covered (by No.)
		Lectures	Practical	Clinical	
Biostatistics + Computer	3	2	2	---	a10, a13.b3,b4,b9,b10, c3,d2,d5
Research Methodology	3	2	2	---	a10, b3,b4,b9,b10,c1, c6,d5,d6
Primary Medical Report	2	1	2	---	a11,b1,c2,d5
Surgical anatomy and Embryology of the ear, nose and throat and head and neck and ches	2	2		---	a1,a2,b7,c4,d5
Pathology of the E.N.T diseases and head and neck swellings and neoplasns	2	2		---	a3,a4,a7,b1,b7,c2,c3,d2
Physiology of the auditory and vestibular systems, Physiology of nose and Para nasal sinuses, physiology of respiration and deglutition	1	1	---	---	a1,a6,b7,c2,c3,d5

b-Optional

Course Title	Total No. of hours	No. of hours/ week			Programme ILOs covered (by No.)
		Lectures	Practical	Clinical	
Advanced Neuro-anatomy and surgical anatomy of the skull base	2	2		---	a1,b5,c3,d5
Basics of allergy and Immunology	2	2		---	a1,a5,a6,b1,b2,b7,c2 ,d5

Basic principles of laser surgery	2	2		---	a9,b6, b8,c3,c6,d5
Advanced physiology of voice and speech production	2	2		---	a1,a4,a5,b7,c3,d5
Advanced physiology of auditory and vestibular systems	2	2		---	a1,a4,b2,c4,d5

6,2 Second part

a- compulsory

Course Title	Total No. of hours	No. of hours/weeks			Programme ILOs covered (By No.)
		Lect.	Practical/ surgical	clinical	
Surgery of ear ,nose and throat head neck and maxillofacial surgery	52	7	6	6	a4,a5,a6,a7,a8,a9,a12, b1,b2,b5, b6,b7,b8,c1, c3,c4,c5,c6,d1,d3,d4, d6,d7

7. Program Admission Requirements

I- General Requirements.

- Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- Candidate should know how to speak & write English well
- Candidate should have computer skills**.**
- Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II- Specific Requirements

- Master degree in Otolaryngology with at least "Good Rank".

8. Regulations for Progression and Program Completion

Duration of program is 90 credit hours (≥7 semesters ≥3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (15 Credit hours ≥6 months ≥1 semester):

- Program-related basic science, 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 1st part.
- Two sets of exams: 1st in October — 2nd in April after fulfillment of the credit hours.
- At least 60% of the written exam and 60% of the total oral and practical/clinical 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.
- GPA of ≥1.3 is needed to pass this level (semester).

Second Part: (50-60 Credit hours ≥24 months= 4 semesters):

- Program related specialized science of Otolaryngology courses. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (8 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= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
  - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمى موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية داخلى خارجة	 ١٢/day 18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمى موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أوالوفاة	٦
Self education program	برنامج التعليم الذاتى	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Third Part (Thesis) (15 Credit hours =24-48 months=4-8 semester):

- Documentation of the subject should not be delayed for > 1.5 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.

- Accepting the thesis is enough to pass this part.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Research assignment		- 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:

- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology: Written Exam (1.5 hours) + structured oral Exam+ OSPE
- Primary medical reports: Written Exam (١ hour) + Structured oral Exam
- Human Anatomy & Embryology: Written Exam (2 hour) + structured oral Exam.
- Pathology: Written Exam (2 hour) + structured oral Exam.
- Medical Physiology: Written Exam (2 hour) + structured oral Exam.
- Optional course: Written Exam (2 hour) + structured oral Exam

Part II:

- ENT: Two Written Exams (3 hours for each), Written exam containing commentary (1.5 hours) Structured oral Exam + OSCE + Operative Exam..

10. Evaluation of programme intended learning outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaire	10
2- Alumni	Questionnaire	10
3- Stakeholders)	Interviews	19
4-External Evaluator(s) - (External Examiner(s)	Reports	1
5- Other		

Course Specification of Biostatistics and computer in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

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

A. Basic Information

Title: Course Specification of Biostatistics and computer in MD degree in Otolaryngology
Code: COM0524-300

Title	lecture	practical	Total	Credit
Applied biostatistics	30	30	60	3

B. Professional Information

1. Overall Aims of Course

To use precisely medical biostatistics and computer programs

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

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

a1. Mention different programs of analysis of data and statistical packages
a2. Define the recent advances of sources of data and methods of collection.
a3. Summarize data, construct tables and graphs
a4. Calculate measures of central tendency and measures of dispersion
a5. Describe the normal curves and its uses
a6. Illustrate selected tests of significance and the inferences obtained from such tests
a7. Illustrate selected tests of significance for parametric and non parametric inferences
a8. Identify factor analysis and discrimination analysis

b) Intellectual Skills

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

b1. Understand how to collect and verify data from different sources
b2. Interpret data to diagnose prevalent health problems in the field of Otorhinolaryngology

c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in the field of Otorhinolaryngology

d) General and Transferable Skills:

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

d1. Use appropriate computer program packages.

d2. Use of different sources for information and knowledge about biostatistics.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Recent advances in collection, analysis and interpretation of data	5	2.5	2.5
-Details of Tests of significance: Proportion test	5	2.5	2.5
Chi-square test	5	2.5	2.5
Student T test	5	2.5	2.5
Paired T test	5	2.5	2.5
-Correlation	5	2.5	2.5
-Regression	5	2.5	2.5
-ANOVA test	5	2.5	2.5
-Discrimination analysis	5	2.5	2.5
Factor analysis	5	2.5	2.5
- parametric and non parametric tests	10	5	**5**
Total	**60**	**30**	**30**
Credit hours	**2**	**2**	**1**

4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

4.3- Computer search assignments

4.4- Computer application

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 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1……..Final written exam Week: 24
Assessment 2……..Final Structured Oral Exam Week: 24
Assessment 3 Attendance and absenteeism throughout the course
Assessment 4 Computer search assignment performance throughout the course

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

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

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.
2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
3- 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

3- 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/Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

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

Course Specification of Research Methodology in MD degree in Otolaryngology

Sohag University **Faculty of Medicine**

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

A. Basic Information

Title: Course Specification of Research Methodology in MD degree in Otolaryngology

Code : COM0524-300

Title	lecture	practical	Total credit
Research Methods	**30**	**30**	**3**

B. Professional Information

1. Overall Aims of Course

1. To influence the students to adopt an analytical thinking for evidence based medicine
2. To use precisely the research methodology in researches

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

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

a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
a3. Describe the study design, uses, and limitations.
a4. Enumerate the recent advances of principles, methodologies, tools and ethics of scientific research.
a5. Explain the strategies and design of researches.
a6. Describe bias and confounding.
a7. Describe sampling techniques and list advantages of sampling
a8. Identify principles of evidence based medicine.

b) Intellectual Skills

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

b1. Conduct research studies that adds to knowledge.
b2. Formulate scientific papers in the field of Otorhinolaryngology
b3. Innovate and create researches to find solutions to prevalent problems in the field of Otorhinolaryngology
b4. Criticize researches in the field of Otorhinolaryngology

c) Professional and Practical Skills:

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

c1. Master the basic and modern professional skills in conducting researches in the field of Otorhinolaryngology

c2. Design new methods, tools and ways of conducting researches. .

d) General and Transferable Skills:

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

d1. Use of different sources for information and knowledge to serve research.

d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Details of epidemiological studies (case control, cohort and cross sectional)	8	4	4
Clinical trials, Quasi experimental study	8	4	4
Bias and errors	8	4	4
Setting a hypothesis	8	4	4
Recent advances in screening	8	4	4
Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum	8	4	4
Setting an objective - Critical thinking	8	4	4
Formulation of papers	4	2	**2**
Total	60	30	30
Credite Hours	3	2	1

4. Teaching and Learning Methods

4.1- Lectures.

4.2- Computer search assignments

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 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1Final written exam Week: 24
Assessment 2Final Structured Oral Exam Week: 24
Assessment 3 Attendance and absenteeism throughout the course
Assessment 4 Computer search assignment performance throughout the course

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Any formative only assessments Attendance and absenteeism throughout the course
Computer search assignment performance throughout the course

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2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
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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/Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

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

Course Specification of Primary Medical Report in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

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

A. Basic Information

Title: Primary Medical Report in MD degree in Otolaryngology

Code FOR 0524-300

Title	Lecture	practical	Total credit
Primary Medical Report	**15**	**30**	**2**

B. Professional Information

1. Overall Aims of Course

By the end of this course ,the candidate should be able to different medicolegalproblems related to E.N.T practice and write a proper medical report

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

a1. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Otolaryngology.

b) Intellectual Skills

b1. Interpret data acquired through history taking to reach a provisional diagnosis for Otolaryngology problems.

c) Professional and Practical Skills:

c1. Write and evaluate medical reports.

d) General and Transferable Skills:

d1. Use of different sources for information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Practical
The pathology of wounds, chest and abdominal injuries, self inflicted injury	3	١	2

The systemic effect of trauma& Permanent infirmity	3	1	2
Head and spinal injuries	3	١	2
The medicolegal aspects of firearm injuries	3	١	2
Burn and scold	3	١	2
How to write a medicolegal report& How to write death certificate	3	١	2
The medicolegal aspect of deaths associated with surgical procedures and toxicological sampling	3	1	2
Obligation of physicians (towards patients, colleagues, community)	3	1	2
Consent, and professional secrecy	3	1	2
Types of malpractice, and items of medical responsibility	3	1	2
Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	7.5	2.5	5
ethical considerations of medical research involving human subjects	7.5	2.5	5
Total hours	**45**	**15**	**30**
Credite Hours	**2**	**1**	**1**

4. Teaching and Learning Methods

4.1- Lectures

4.2-Assignment

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Final-term written examination Week 23

Structured Oral Exam. Week 24

Weighting of Assessments

Final written examination	50%

Structured Oral Exam	50%
Total	100%

Formative only assessments: Observation of attendance and absenteeism ,Assignment

6. List of References:

Essential books

Simpson's Forensic Medicine, 13th Edition, by Jason Payne-James, RichardJones,Steven B Karch,John Manlove. published by Hodder& Stoughton Ltd (2011).

Goldfrank'sToxicologic Emergencies, (9th ed.) by Lewis S. Nelson, Robert S. Hoffman, Mary Ann Howland, Neal A Lewin, Lewis R. Goldfrank, Neal E. Flomenbaum. Published by McGraw-Hill (2011)

Emergency Toxicology,Peter Viccellio,(2nded.) Published by Lippincott Williams & Wilkins (1998)

Recommended books

Medical ethics.(1997)Robert M Veatch. 2nd edition.Jones & Bartlett publishers

Periodicals and websites……etc.

Egyptian journals of forensic medicine and clinical toxicology

International journals of forensic medicine and clinical toxicology

www.sciencedirect.com

https://emedicine.medscape.com

https://www.ncbi.nlm.nih.gov/pmc/

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/Sohier Ali Mahmood

Head of Department: Prof/ Sohier Ali Mahmood

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

Course Specification of Human Anatomy & Embryology in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

1. Program on which the course is given: MD degree in Otolaryngology
2. Minor element of program.
3. Department offering the program: Otorhinolaryngology department
4. Department offering the course: Human Anatomy & Embryology 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: Course Specification of Human Anatomy & Embryology in MD degree in Otolaryngology

Code:ANA 0524-300

Title	Lecture	practical	Total credit
Anatomy and Embryology	**30**	**-**	**2**

B. Professional Information

1. Overall Aims of Course

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

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding

By the end of the course the student should have the ability 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. Mention recent advances in the normal growth and development of the human head and neck

b) Intellectual Skills

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

b1. Identify Otolaryngology problems and find solutions..

c) Professional and Practical skills

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

c1. Perform endoscopic and imaging evaluation of Otolaryngology problems.

d) General and Transferrable skills

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

d1. Use of different sources for information and knowledge in solving Otolaryngology problems.

3. **Contents**

Topic	No. of hours	Lecture	Practical
Introduction	4	4	
Anatomy and embryology and surgical anatomy of the nose	4	4	
Anatomy and embryology and surgical anatomy of the ear	4	4	
Anatomy and embryology and surgical anatomy of the pharynx	4	4	
Anatomy and embryology and surgical anatomy of the larynx	4	4	
Anatomy and embryology and surgical anatomy of the nasal cavity	4	4	
Revision	6	6	
Total	30	30	
Credite Hours	2	2	

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
5.4-OSPE	-Practical skills, intellectual skills
5.5 Assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 2 …Final OSPE … Week: 24
Assessment 3…. Final written exam…. Week 24
Assessment 4…..Final Structured Oral Exam … Week 24

Weighting of Assessments

Final term examination	50%
Structured Oral Exam	30%
OSPE	20 %
Total	**100 %**

6. List of References

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; 5th 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.

7. Facilities Required for Teaching and Learning

Data show device for lectures.

Course Coordinator: Dr . Mohamed Al-Badry

Head of Department: Dr. Mohamed A. Eldsoky.

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

Course Specification of Medical Physiology in MD degree in Otolaryngology

Sohag University **Faculty of Medicine**

1. Program on which the course is given: MD degree in Otolaryngology
2. Minor element of program.
3. Department offering the Program : Otolaryngology
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: Course Specification of Medical Physiology in MD degree in Otolaryngology
Code:PHY 0524-300

Title	Lecture	Practical	Total credit
Physiology	15	--	1

B. Professional information

1. Overall Aims of Course

aim of the 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 (ILOs):

a) **Knowledge and Understanding** :

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

a1. Mention the recent advances in the normal function of the human head and neck on the macro level.

a2. Enumerate Methods of Otolaryngology health and preventing their illness.

b) **Intellectual skills:**

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

b1. Plan to improve performance in the field of Otolaryngology based on natural history snd physiology of human ear nose and throat.

c) **Professional and Practical skills:**

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

c1. Plan to improve performance in the field of Otolaryngology based on natural history snd physiology of human ear nose and throat.

d) **General and Transferrable skills**

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

d1. Use of different sources for information and knowledge.

3. Contents of the course:

Topic	No of hrs	lectures	Practical
I- body fluids, electrolytes, oedema	1	1	
II- water & electrolyte balance	1	1	
III- upper respiratory tract physiology	1	1	
IV- haemostasis & its defects.	1	1	
V- blood groups & transfusion.	1	1	
VI- hemorrhage & shock.	1	1	
VII-Deglutition.	1	1	
VIII-pain sensation.	1	1	
IX-body temperature regulation.	1	1	
X-R.B.Cs, hemoglobin & anaemia.	1	1	
XI-taste sensation.	1	1	
XII-smell sensation.	1	1	
XIII-physiology of hearing.	1	1	
XIV- physiology of equilibrium.	2	2	
Total	**15**	**15**	
Credit Hours	**1**	**1**	

4. Teaching & learning methods:

4-1 lectures

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:

1-Assesment 1: written examination Week 24

2-Assessment 2: Structured Oral Exam Week 24

3-Assessment of attendance & absenteeism throughout the course

Weighting of assessments:

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

6. List of references:

6.1- Essential Books (Text Books)

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

6.2- Recommended Books

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

6-3 Periodicals , Web sites

- American journal of physiology.
- Journal of applied physiology.

7. Facilities Required for Teaching and Learning

Data show device for lectures.

Course coordinator: Dr/ Ahmed Mostafa

Head of department : Dr / Hoda Moustafa

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

Course Specification of Pathology in MD degree in Otolaryngology

Faculty of Medicine **Sohag University**

1. Program on which the course is given: MD 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: Course Specification of Pathology in MD degree in Otolaryngology
Code: PAT0524-300

Title	Lecture	Practical	Total credit
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):

According to the intended goals of the faculty

a) Knowledge and Understanding:

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

a1. List the recent advances in the abnormal structure of human Ear,Nose and Throat.
a2. Mention recent advances in the natural history and pathogenesis of Otolaryngology diseases.
a3. List the clinical picture and Pathological diagnosis of Otolaryngology illnesses.

b) Intellectual Skills:

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

b1. Interpret in a professional manner a pathology report
b2. Be able to solve pathological problems

c) Professional and Practical Skills:

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

c1. Evaluate pathological reports.
c2. Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, and degenerative) and mechanisms of diseases and the way through which they operate in the body (pathogenesis of diseases related to E.N.T).

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 the sources of biomedical information to remain current with the advances in knowledge and practice

3. Contents:

Topic	No. of hours	Lecture	Practical
1- **General Pathology**:	**5**	**5**	
1.1. Inflammation & repair.	1	1	
1.2. Immunity and hypersensitivity.	1	1	
1.3. Infectious diseases.	1	1	
1.4. Disturbances of cellular growth	1	1	
1.5. General pathology of tumors.	1	1	
2- **E.N.T. & Head & Neck diseases:**	**25**	**25**	
2.1. Diseases of the nose & nasal sinuses.	3	3	
2.2. Diseases of the oral cavity.	3	3	
2.3. Diseases of salivary glands.	3	3	
2.4. Diseases of the tonsils.	3	3	
2.5. Diseases of pharynx.	3	3	
2.6. Diseases of the larynx.	3	3	
2.7. Diseases of the trachea & bronchi.	3	3	
2.8. Diseases of external, middle & internal ear.	2	2	
2.9. Diseases of thyroid gland.	2	2	
2.10. Diseases of parathyroid gland.	1	1	
Total	**30**	**30**	
Credit Hours	**2**	**2**	

4. Teaching and Learning Methods

4.1. Lectures.

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. Written examination Week 24
Assessment 2. Structured Oral Exam Week 24

Weighting of Assessments

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

Formative only assessment : attendance and absteeism

6. List of References

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th egition,2014
- Robbins pathologic basis of diseases, 10th edition, 2017

6.2- Recommended Books:

- Rosi &Ackerman text book of pathology, 11th edition, 2017
- Sternberg text book of pathology, 6th edition,2015

6.3- Periodicals, websites:

American journal of pathology

Pathology journal

Human pathology jounal

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

7. Facilities Required for Teaching and Learning:

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

Course Coordinator: Dr/ Eman Mohamed Salah El-deen

Head of Department: Dr/Afaf Al-Nashar

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

Course Specification of Advanced Neuroanatomy and Anatomy of the skull base in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

1. Program on which the course is given: MD degree in Otolaryngology
2. Minor element of program.
3. Department offering the course: Human Anatomy & Embryology.
4. Department offering the program: Otorhinolaryngology 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: Course Specification of Advanced Neuroanatomy and Anatomy of the skull base in MD degree in Otolaryngology

Code:ENT 0524-300

Title	Lecture	Practical	Total credit
Advanced Neuroanatomy and Anatomy of the skull base	**30**		**2**

B. Professional Information

1. Overall Aims of Course

By the end of this course the candidate should be able to a good knowledge about the anatomy of skullbase and advanced anatomy of cranial nerves

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

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

a1. Mention the recent advances in the human neuro-anatomy and anatomy of the skull base on the macro level.

b) Intellectual Skills

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

b1. Assess risk in professional practices in the field of skull base surgery.

c) Professional and Practical Skills:

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

c1. Evaluate Neurosurgical problems in relation to Otolaryngology through applied neuroanatomy.

d) General and Transferable Skills:

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

d1. Use of different sources for information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Clinical
1. Overall topography of the skull base	4	4	
2. Anterior skull base	4	4	
3. Posterior skull base	4	4	
4. Lateral skull base	4	4	
5. Structure within skull base	4	4	
6. Muscles superficial to lateral skull base	4	4	
7. Clinical neuroanatomy	6	6	
1. Introduction			
2. The cranial nerves: a. Anatomy b. Physiology			
Total	**30**	**30**	
Credit Hurs	**1**	**1**	

4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

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

Final-term written examination Week 24

Structured Oral Exam Week 24

Weighting of Assessments

Final-term written examination 50%

Structured Oral Exam. 30%

Clinical ex 20%

Total 100 %

formative only assessments

6. List of References

6.1- Course Notes:

bLetcure notes prepared by staff member in the department

6.2- Essential Books (Text Books)

Gray's Anatomy

6.3- Recommended Books

A colored Atlas of Human anatomy and Embryology.

6-4 Periodicals , Web sites

American Journal of anatomy and embryology

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 . Mohamed Al-Badry**.**

Head of Department: Dr. Mohamed Al-Baadry.

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

Course Specifications of Basics of allergy and Immunology for MD Otorhinolaryngology

Sohag University **Faculty Of Medicine**

1. Program on which the course is given: - MD in Otorhinolaryngology
2. Minor element of program: Minor
3. Department offering the program: Otorhinolaryngology
4. Department offering the course: Medical Microbiology & Immunology.
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: Course Specifications of Basics of allergy and Immunology for MD Otorhinolaryngology

Code:MIC 0524-300

Title	Lecture	Practical	Total credit
Basics of allergy and Immunology	**30**	--	**2**

B. Professional Information

1. Overall Aims of Course

The student is 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. The course includes basic immunology for the clinician where the student is taught about the components of the immune system, then investigative tools for the immune system, and finally the various applications of the immune system in health and disease, particularly diseases of concern to rheumatologists.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

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

a1. Mention the structure and function of the human immune system .

a2. Enumerate the role of the immune system in health and diseases related to Otolaryngology.

a3. Enumerate Methods of Otolaryngology health and preventing their illness on immunologic base.

b) Intellectual Skills:

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

b1. Interpret the tests required to achieve proper diagnosis of the case

b2. Select from different diagnostic tests of allergy snd immunology the ones that help reaching a final diagnosis for Otolaryngology problems.

b3. Identify the methods and perform laboratory tests in Otolaryngology..

c) Professional and Practical Skills:

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

c1. Interpret a report containing microbiological or immunological data.

d) General and Transferable Skills:

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

d1. Use of different sources for information and knowledge.

3. Contents

Topic	No of hrs	lectures	practical
Defense mechanisms	6	6	
Allergy: basic mechanisms and tests	6	6	
Evaluation of the immune system	6	6	
Primary immunodeficiencies	6	6	
Rheumatological diseases	6	6	
Total	30	30	
Credit Hourse	1	1	

4. Teaching and Learning Methods

4.1- Lectures.

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…Written exam Week 23

Assessment 2… Structured Oral Exam Week 24

Weighting of Assessments

Written Examination	50	%
Structured Oral Exam.	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)

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. **<u>Facilities Required for Teaching and Learning:</u>**

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

Course Coordinator: Prof. Nahed Fath-Alla

Head of Department: Prof. Abeer Sheniaf

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

Course Specification of Basic principle of laser surgery in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

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

A. Basic Information

Title: Course Specification of Basic principle of laser surgery in MD degree in Otolaryngology

Code:ENT 0524-300

Title	Lecture	Practical	Total credit
Basic principle of laser surgery	**30**	**--**	**2**

B. Professional Information

1. Overall Aims of Course

By the end of this course the candidate should be able to know the basic principle of laser surgery related to ENT practice.

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and Understanding:

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

a1. Describe recent advances in laser surgery as an advanced therapeutic alternative used for Otolaryngology diseases.

b) Intellectual Skills

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

b1. Plan to improve performance in the field of laser surgery in Otolaryngology.

b2. Have the ability to innovate nontraditional solutions to Otolaryngology problems.

c) Professional and Practical Skills:

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

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

c2. Design new therapeutic lines in professional practice of Otolaryngology.

d) General and Transferable Skills

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

d1. Use of different sources for information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
History	4	4	
Principles of laser action	4	4	
Laser light delivery devices	4	4	
Laser-tissue interaction	4	4	
Laser application in otorhinolaryngology	4	4	
Laser safety	4	4	
Photodynamic therapy in otorhinolaryngology	6	6	
Total	**30**	**30**	
Credit Hours	**1**	**1**	

4. Teaching and Learning Methods

4.1- Lectures

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

Final-term written examination Week 24

Structured Oral Exam. Week 24

Weighting of Assessments

Final-term written examination 50 %
Structured Oral Exam. 50 %
Total 100 %

Any formative only assessments

6. List of References

6.1- Course Notes: Letcure notes prepared by staff member in the department

6.2- Essential Books (Text Books)

Scott-Brown Otolaryngology

6.3- Recommended Books

Cumming's Otolaryngology, head and neck surgery

6-4 Periodicals , Web sites

Achieves of Otolaryngology , head and neck surgery**.**

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 /Ramadan Hashem Sayed**.**

Head of Department: Prof/Mohammed Abd El Kader Ahmed.

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

Course Specification of Advanced physiology of voice and speech production in MD degree in Otolaryngology

South valley University **Faculty Of Medicine**

1. Program on which the course is given: MD degree in Otolaryngology
2. Minor element of program.
3. Department offering the course: Otorhinolaryngology department
4. Department offering the program: Otorhinolaryngology 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: Course Specification of Advanced physiology of voice and speech production in MD degree in Otolaryngology
Code:ENT 0524-300

Title	Lecture	Practical	Total
Advanced physiology of voice and speech production	**30**	**--**	**30**

B. Professional Information

1. Overall Aims of Course

By the end of this course the candidate should be able to have agood knowledge about advanced physiology of voice and speech production

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

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

a1. Mention the most recent advances in the normal function and physiology of the human larynx on the macro level.
a2. Describe recent advances in the natural history of voice and speech problems.
a3. Describe recent advances in the causation of phoniatric disorders.

b) Intellectual Skills

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

b1. Identify language disorders and find solutions..

c) Professional and Practical Skills:

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

c1.Evaluate and develop methods and tools existing in the area of voice and speech production.

d) General and Transferable Skills:

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

d1. Use of different sources for information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Introduction	5	5	
Characteristics of the sound source / glottal signal	5	5	
Modifying the glottal signal	5	5	
Vocal resonance	5	5	
Fundamental of speech / articulation	5	5	
Paralinguistic features of voice and speech	5	5	
Total	30	30	
Crdite Hours	1	1	

4. Teaching and Learning Methods

4.1- Lectures

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

Final-term written examination Week23

Structured Oral Exam. Week 24

Weighting of Assessments

Final-term written examination 50%

Structured Oral Exam. 50%

Total 100 %

Any formative only assessments

6. List of References

6.1- Course Notes:

Lecture notes prepared by staff member of the department

6.2- Essential Books (Text Books):

Cumming Otolaryngology

6.3- Recommended Books;

Scott Brown Otolaryngology

6-4 Periodicals, Web sites;

Achieves of otolaryngology-Head& Neck Surgery,

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/Ahlam El Adawy

Head of Department: Prof/ Mohammed Abd El Kader Ahmed

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

Course Specification of Audiology in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

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

A. Basic Information

Title: Course Specification of Advanced Physiology of vestibular and auditory system in MD degree in Otolaryngology
Code:ENT 0524-300

Title	Lecture	Practical	Total
Advanced Physiology of vestibular and auditory system	**30**	**--**	**30**

B. Professional Information

1. **Overall Aims of Course**

   By the end of this course the candidate should be able to have agood knowledge about Advanced Physiology of vestibular and auditory system

2. **Intended Learning Outcomes of Courses (ILOs)**

   a) Knowledge and understanding:

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

   a1. Mention the recent advances in the normal structure and function of the human inner ear on the macro and micro levels.

   a2. Describe recent advances in the natural history of the inner ear problems.

   b) Intellectual Skills

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

   b1. Select from different vestibular and auditry testing the ones that help reaching a final diagnosis for Otolaryngology problems.

   c) Professional and Practical Skills:

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

   c1. Perform different advanced tests for auditory and vestibular evaluation.

   d) General and Transferable Skills:

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

   d1. Use of different sources for information and knowledge.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Sound and its analysis	2	1	1
The external ear	2	1	1
The middle ear	2	1	1
The cochlea	2	1	1
Perilymph	2	1	1
Organ of corti and subtectorial space	2	1	1
The responses of auditory nerve fibres	2	1	1
The centrifugal innervations of the cochlea	2	1	1
Cochlear echoes	2	1	1
Physiology of equilibrium :	2	1	1
Role of the vestibular system	2	1	1
Central projections of the peripheral vestibular system	2	1	1
Hair cell physiology Clinical implication of hair cell function	2	1	1
Origins of vertigo and motion sickness	2	1	1
The perception of sound:	2	1	1
Total	30	15	15
Credit Hours	1.5	1	0.5

4. Teaching and Learning Methods

4.1- Lectures

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

Final-term written examination Week 23

Structured Oral Exam Week 24

Weighting of Assessments

Final-term written examination 50 %

Structured Oral Exam. 50 %

Total 100 %

6. List of References

6.1- Course Notes:

Letcure notes prepared by staff member in the department

6.2- Essential Books (Text Books)

Jacobson text book

6.3- Recommended Books

Kacz's book of audiology

6-4 Periodicals , Web sites

Audiology online

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/mohammed Abd El Ghafar El Maghraby

Head of Department: Prof/Mohammed Abd El Kader Ahmed

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

Course Specification of Otolaryngology in MD degree in Otolaryngology

Sohag University **Faculty Of Medicine**

1. Program on which the course is given: MD 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: Second part.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018.

A. Basic Information

Title: Course Specification of Otolaryngology in MD degree in Otolaryngology
Code:OTO 0524-300

Title	Lecture	Surgical	Clinical	Total credit
Otolaryngology	420	360	360	52

B. Professional Information

1. **Over all aims of the course:**

The aim of this course is to provide the candidate with most of the knowledge and skills essential for the practice of otolaryngology and necessary for Professional practice in the field of through providing:

1. knowledge and applying the basics and methods of scientific research.
2. continuous efforts to add more knowledge in the field of Otolaryngology.
3. Follow analytic methods in the knowledge related to Otolaryngology and other related specialties.
4. Deep understanding for current problems and new concepts in Otolaryngology.
5. Identifying technical problems and try to find new solutions.
6. Technical professionalism in otolaryngology.

2. **Intended learning outcomes (ILOs)**

a) Knowledge and understanding

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

a1. Describe recent advances in the natural history of Otolaryngology diseases.
a2. Understand 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 recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of Otolaryngology illnesses.
a6. Describe recent advances in the various therapeutic methods/alternatives used for Otolaryngology diseases.
a7. Enumerate 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 candidate 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..
b5. Have the ability to innovate nontraditional solutions to Otolaryngology problems.
b6. Manage Scientific discussion based on scientific evidences and proofs.

c) Professional and practical skills

By the end of the course, the candidate is expected to be able to:
c1. Master the basic and modern professional skills in the area of Otolaryngology.
c2. Evaluate and develop methods and tools existing in the area of Otolaryngology.
c3. Perform endoscopic and imaging evaluation of Otolaryngology problems.
c4. Train junior staff through continous medical education programs.
c5. Design new methods ,tools and ways of professional practice.

d) General and transferable skills

By the end of the course, the candidate is expected to be able to**:**
d1. Present reports in seminars effectively.
d2. Assess himself and identify his personal learning needs.
d3. Work coherently and successfully as a part of a team and team's leadership.
d4. Teach others and evaluate their performance.
d5. Manage scientific meetings according to the available time

3. Contents:

Topic	No . of hrs	Lecture	Clinical	Surgical
Part 1 Cell biology	10	10		
Molecular biology		2		
Genetics		2		
Gene therapy		2		
Radiotherapy and radiosensitizers		2		
Apoptosis and cell death		1		
Stem cells		1		
Part 2 wound healing	9	9		
Soft and hard tissue repair		5		
Skin flap physiology		4		
Part 3 Immunology	10	10		
Allergy: basic mechanisms and tests		2.5		
Evaluation of the immune system		2.5		
Primary immunodeficiencies		2.5		
Rheumatological diseases		2.5		
Part 4 Microbiology	10	10		
Microorganisms		4		
Antimicrobial therapy		3		
HIV and otolaryngology		3		
Part 5 Haematology	10	10		
Blood groups, blood components and alternatives to transfusion		5		
Haemostasis; normal physiology, disorders of haemostasis and thrombosis and their management		5		
Part 6 Endocrinology	9	9		
Head and neck manifestations of endocrine disease		9		
Part 7 Pharmacotherapeutics	9	9		
Drug therapy in Otorhinolaryngology		4		
Corticosteroids in otolaryngology		5		
Part 8 Perioperative management	10	10		
Preparation of the patient for surgery	7	4	1	
Recognition and management of the difficult airway	4	3	1	
Anaethesia	4	3	1	
Part 9 Safe and effective practice	10	9	1	
Part 10 Interpretation and management of data	10	9	1	
Part 11 Recent advances in technology	35	10	15.0	20.0
Ultrasound in ear, nose and throat practice		2		
Laser principles in otolaryngology, head and neck surgery		2		
Electrophysiology and monitoring		3		

Contact endoscopy		3		
Part 12 Pediatric otorhinolaryngology	98	38	30.0	30.0
Hearing loss in preschool children: screening and surveillance		3		
Pediatric cochlear implantation		3		
Congenital middle ear abnormalities in children		3		
Otitis media in children		3		
Disorders of speech and language in pediatric otolaryngology		3		
Diseases of the nose in children		3		
Airway Obstruction and its management.		4		
Orbital and optic nerve decompression .		4		
Dacryocystochinostomy .		4		
Conditions of the external nose.		4		
The diagnosis and management of facial pain.		4		
Part 13 the neck	11	11		
Surgical anatomy of the neck		3		
Examination and imaging of the neck		3		
Neck trauma		3		
Benign neck disease: infections and swellings		2		
Part 14The upper digestive tract	158	38	60	60
Anatomy of the pharynx and oesophagus		2		
Physiology of swallowing		2		
Functional investigations of the upper gastrointestinal tract		2		
Acute and chronic pharyngeal infection		2		
Causes of dysphagia		2		
Globus pharyngeus		2		
Pharyngeal pouch		2		
Oesophaga! diseases		2		
Neurological disease of the pharynx		2		
Dysphagia: management and intervention		2		
Management and treatment of intractable aspiration		2		
Anatomy of the pharynx and oesophagus		2		
Physiology of swallowing		2		
Functional investigations of the upper gastrointestinal tract		2		
Acute and chronic pharyngeal infection		2		
Causes of dysphagia		2		
Globus pharyngeus		2		
Pharyngeal pouch		1		
Oesophaga! diseases		1		
Neurological disease of the pharynx		1		

Dysphagia: management and intervention		1		
Part 15 The upper airway	158	38	60	60
Anatomy of the nasopharynx		2		
Benign conditions of the nasopharynx		2		
Anatomy of the larynx and tracheobronchial tree		2		
Assessment and examination of the upper respiratory tract		2		
Physiology of the larynx		2		
Voice and speech production		2		
Objective evaluation of the voice		2		
disorders of the voice		2		
the professional voice		2		
speech therapy in ENT practice: scope, science and evidence for intervention		2		
Phonosurgery		2		
Acute infections of the larynx		1		
laryngeal trauma and stenosis		1		
Upper airway obstruction		1		
Tracheostomy		1		
Physiology of sleep and sleep disorders		١		
Obstructive sleep apnea: Medical management		١		
The surgical management of snoring		١		
Anatomy of the nasopharynx		١		
Benign conditions of the nasopharynx		١		
Anatomy of the larynx and tracheobronchial tree		١		
Assessment and examination of the upper respiratory tract		١		
Physiology of the larynx		١		
Voice and speech production		١		
Objective evaluation of the voice		١		
disorders of the voice		١		
the professional voice		١		
Part 16 Head and neck tumours	118	38	40	40
epidemiology of head and neck cancer		3		
Etiology of head and neck cancer		3		
Staging of head and neck cancer		3		
Data collection of head and neck cancer		3		
prognostic indicators and serum markers		3		
skin cancer of the head and neck		3		
Mucosal malignant melanoma		3		
Nasal cavity and paranasal sinus malignancy		3		
Juvenile angiofibroma		3		
Nasopharyngeal carcinoma		3		
Tumours of the hypopharynx and		3		

esophagus				
Metastatic neck disease		3		
Medical negligence in head and neck surgery		2		
Part 17 Plastic surgery of the head and neck	98	38	30	30
Drafts and local flaps in head and neck surgery		8		
Free flaps in head and neck reconstruction		6		
Reduction rhinoplasty		6		
External rhinoplasty		6		
Augmantation rhinoplasty		6		
Revision rhinoplasty		6		
Part 18The ear, hearing and balance	158	38	60	60
The anatomy and embryology of the external and middle ear		4		
Sound vibrations and waves		4		
Physiology of hearing		3		
Physiology of equilibrium		3		
The perception of sound		3		
Psychoacoustic audiometry		3		
Conditions of the penna and the external auditory canal		3		
Conditions of the middle ear		3		
Conditions of the cochlea		3		
Management of hearing impairment		3		
Balance disorders		3		
Retrocochlear ad facial nerve disorders		3		
Part 19 Skull base	30	30		
Anterior Skull base		10		
Middle Skull base		10		
Posterior Skull base		10		
Part 20 Nose and paranasal sinuses	166	46	60.0	60.0
Anatomy of the nose and paranasal sinuses		3		
Nasal endoscopy		3		
Physiology of the nose and paranasal sinuses		3		
Measurement of the nasal airway		3		
Classification and differential diagnosis of rhinosinusitis		3		
Allergic rhinitis		3		
Occupational rhinitis		2		
Food allergy and intolerance		2		
Rhinosinusitis		2		
Fungal rhinosinusitis		2		
Specific chronic infections		2		

Medical management of chronic rhinosinusitis		2		
Surgical management of rhinosinusitis		2		
The frontal sinus		2		
Mucocoeles		2		
Complications of rhinosinusitis		2		
Nasal polyposis		2		
The relationship between the upper and lower respiratory tract		2		
The septum		2		
Nasal septal perforations		2		
Total	1140	420	360	360
Credit	٥٢	٢٨	١٢	١٢

4. Teaching and Learning Methods:

4.1-Lectures
4.2- Seminars
4.3-Attendance at outpatient clinic.
4.4-Attending in the operative theatre and perform different operations
4.5-Demonstration and explanation of different cases in clinical rounds.
4.6-journal clubs and attendance local and international conferences and workshops

5. Student Assessment Methods

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

Assesment Schedule

Assessment 1: log book (formative exam) Week 80
Assessment 2: written exam Week 95
Assessment 3: Commentary Week 96
Assessment 4: OSCE Week 96
Assessment 5: Structured Oral Exam Week 96
Operative Week 96

Weighting of Assessments:

Final Written Examination. Separate exam.
Passing in the written exam is a condition to attend the following exams:
Structured Oral Exam 50 %
OSCE 50 %

Total	100%

Formative only assessment: simple research assignment, log book, attendance and absenteeism.

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

Cummings Otolaryngology Head and Neck surgery.

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

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

Course Coordinator:Prof/ Ramadan Hashem Sayed, Assistant

Head of Department: Prof/ Mohamed Abdel-Kader Ahmad,

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