



*Faculty of Medicine*  
*Suez Canal University*

*Otorhinolaryngology Department*  
*Program Specification- MSc*

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## ***PROGRAM SPECIFICATIONS***

*Program Title:*

**Master of Audio-Vestibular  
Medicine**

*Code:*

***ENHE***



## Program Specification

### A- Basic Information

- Program Title: **Master Audio-Vestibular Medicine**

2- Program Type: Single  Double  Multiple

3- Department (s): **Otorhinolaryngology**

4- Coordinator: **Prof. Alaa Abou-Setta**

5- External Evaluator(s): **Prof Dr. Adel Abdel-Maksoud.**

6- Last date of program specifications approval: **the bylaws of the MS program in Audio-Vestibular Medicine in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities on 2016.**

7- Date of program specification revision approval: **2018**

8- Number of credit points for this degree: **120 CP**

### B- Professional Information

#### **1- Program Aims**

The overall goals of the program are to develop clinical audiologist with the following characteristics:

1. Actively acquire the updated knowledge in the field of audiology by covering all topics related to audiovestibular medicine.
2. Capable of communicating as a resident with other clinicians and patients, as well as being capable of optimally carry out clinical examination.
3. Understand the science and technology of hearing assessment techniques of basic audiological evaluation and bedside examination.
4. Evaluate and choose in a priority and cost-effective manner to diagnose and evaluate the patient.

#### **2. Intended Learning Outcomes (ILOs) of the program**

*On successful completion of the program, the candidate will be able to:*

##### **a- Knowledge and Understanding:**

- a.1 Describe the basics of auditory pathways
- a.2 Describe the type of patient recordings, stimulus and recording parameters used in of Basic audiological evaluation
- a.3 Describe principles of the psychophysical assessment of auditory pathologies.
- a.4 Recognize basics of acoustics and speech .
- a.5 Recognize the basic principles of pharmacology and evaluate the evidence related to drugs affecting critically the auditory system.
- a.6 Recognize the role of the audiologist in acquired hearing impairment.



- a.7 Describe the basic concept of the process of calibration of audiological equipment.
- a.8 Describe the anatomy, genetics and physiology of the vestibular system.
- a.9 Describe the basic vestibular assessment and rehabilitation.
- a.10 Recognize different strategies of prevention and control of voice, speech and hearing disorders.
- a.11 Demonstrate basic knowledge of medicolegal ethics and research ethics .
- a.12 Demonstrate basic knowledge of biostatistics .
- a.13 Identify basis and principles of quality assurance in professional practice.
- a.14 Realize the effects of this professional practices on the environment and ways of the development and maintenance of the environment

**a- Intellectual Skills add to them (discuss, explain)**

- b.1 Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation to solve problems
- b.2 Demonstrate proficiency in evaluating investigations and treatment of routine audiological disorders.
- b.3 Critically analyze and objectively interpret information/data objectively.
- b.4 Determine clinically optimal yet cost-effective investigation.
- b.5 Demonstrate the ability to apply principles of clinical research design, implementation, and interpretation and critically appraise scientific literature.
- b.6 Assess risk in professional practices
- b.7 Plan to improve performance related to Audiovestibular medicine
- b.8 Write scientific background for a research problem
- b.9 Make professional decision in relation to different professional sequences
- b.10 Determine levels of evidence in medicine and their translation into evidence-based practice.
- b.11 Provide students with adequate knowledge and skills in research methodology that enable them to design experiments, analyze data, and review literature critically
- b.12 Provide students with adequate knowledge and skills in research ethics that enable them to design researches with high ethical consideration.

**c. Professional and Practical Skills**

- c.1 Master general and local patient examination related to Audiovestibular medicine.
- c.2 Perform all tests in course specifications
- c.3 Evaluate different methods and tools available related to Audiovestibular medicine.
- c.4 Effectively utilize a range of information sources including information technology / health informatics in Audiovestibular medicine field.
- c.5 Write informative medical reports.

**d- General and Transferable Skills**



- d.1 Demonstrate effective communication skills
- d.2 Use conventional and electronic resources to collect, select and organize complex scientific information.
- d.3 Demonstrate capacity for self-learning and independent thinking and to utilize problem solving skills.
- d.4 Perform self-evaluation and peer evaluation and specify his own educational needs
- d.5 Critically evaluate their personal performance both as an individual and within a team.
- d.6 Use different resources to obtain knowledge and information.
- d.7 Manage time effectively
- d.8 Demonstrate skills in working collegiately and effectively with others as a member of a team.

### **3- Academic Standards**

#### **3a External References for Standards**

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate

#### **3b -Comparison of Provision to External References (attached)**

### **4- Curriculum Structure and Contents**

**4a- Program duration:** The program lasts for a minimum of 3 academic years and maximum 5 years, as specified in the internal bylaws for postgraduate studies based on credit points system in the Faculty of Medicine, Suez Canal University approved on February 7<sup>th</sup>, 2016.

#### **4b- Program structure:**

**MS Program Credit points (CP) structure:**

**Total needed credit points for getting MS degree 120 CP**

The program consists of **First part 30 CP, Thesis 30 CP, and Second part 60 CP**

1. The first part of the program: 30 CP, its duration (15 weeks) for one academic semester. The first part comprises the following:
  - a. A course in **Research Methods and Statistics** planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
  - b. A course in The **Ethics of Scientific Research** planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
  - c. A course in **Audio-Vestibular Physiology** planned and held in the physiology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - d. A course in **ear Anatomy** planned and held in the anatomy Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
  - e. A course in **Applied Pharmacology** planned and held in the pharmacology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.



- f. A course in **Otology** planned and held in the otolaryngology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - g. A course in **Genetics** planned and held in the genetics Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
  - h. A course in **Internal Medicine, Neurology, and Psychiatry** and planned and held in the internal medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - i. A course in **Acoustics** planned and held in the otolaryngology Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - j. A course in **Public Health** planned and held in the public health Department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - k. One elective 2 CP.
- 2- **MS thesis:** 30 CP, no scores for thesis. The candidate has the right to register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after 2 years from the date of the faculty council approval on the thesis protocol.
- 3- **The second part of the program:** 60 CP, its duration (45 weeks ) for 3 consecutive academic semesters. The second part comprises the specialized courses in Audio-Vestibular Medicine, planned and held in the Audio-vestibular Unit. This part lasts for 1.5 years ending by written and practical exams.
- 4bi- No. of hours per week:** 2 CP / week which equivalent 50 hours/ week, including lectures, tutorials, self-learning and hands-on training.
- 4bii- No. of credit Points:** The Master program is 120 Credit Points
- 4- Every credit point includes 25 working hours (30% = 7 hours for face to face learning activities, and 70% =18 hours for self-learning activities).

## **5. Program Courses**

### **5.1- Level/Year of Program: First part of MS(30 CP)**



\*Student should select one course of the following as an elective course:

Courses			Assessment				
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Duration	Marks		
RB	Advanced Research Methods and Statistics	4	1	2 hours	80		
RE	Research ethics	2	1	1 hour	40		
ENHE01	Audio-Vestibular Physiology	3	1	1 hour	45	15	
ENHE02	Anatomy of the Ear	2	1	1 hour	30	10	
ENHE03	Applied Pharmacology	3	1	1 hour	45	15	
ENHE04	Otology	3	1	1 hour	45	15	
ENHE05	Genetics	2	1	1 hour	30	10	
ENHE06	Internal Medicine/ Neurology/ Psychiatry	3	1	3 hours	45	15	
ENHE07	Acoustics	3	1	1 hour	45	15	
ENHE08	Public health	3	1	1 hour	45	15	
E	Elective course	2	1	1 hour	40		
<b>Total</b>		<b>30 credit points</b>			<b>600 marks**</b>		

one elective courses has 2 CP.

E01	Evidence Based medicine	(Community Department)
E02	Scientific Writing	(Medical Education Department)
E03	Quality in Medical Education	(Medical Education Department)
E04	Infection Control	(Microbiology Department)
E05	Critical Appraisal	(Community Department)
E06	Communication Skills	(Medical Education Department)

\*\*every credit point equal 20 marks



**5.2- Level/Year of Program: Second part of MS program (60 CP)**

Courses			Assessment					
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam	Continues assessment *(Portfolio)
			No of Papers	Duration	Marks			
ENHE09	Theoretical and practical courses in audiovestibular medicine	25	2	3 hours for each paper	165+165	110	330	330
	Specialized clinical training audiovestibular medicine	30						
	***Scientific activities	5						
<b>Total</b>		<b>55 credit points</b>			<b>1100**marks</b>			

\*Portfolio its scores distributed in the different parts of the portfolio and its total score included among total mark of second part

\*\*every credit point equal 20 marks

\*\*\*Scientific activities are not included in the total marks

**5.3Thesis:** A faculty senior & junior supervisor from the staff members are nominated by the department council to prepare a proposal of the thesis protocol after the selection of a subject that is complementary to the research plans of the department. Data collection, methodologies, study question, time table, ethical considerations and budget are formulated by the candidate under guidance of his supervisors into a research project. The research protocol is then peer reviewed by two different staff members nominated by the Head of the department who share their ideas and comments with the supervisors to reach to the final form. The research protocol is discussed then openly in one of the department councils to be approved and diverted to the Faculty research committee where it is subjected to a critical appraisal to meet the research basic standards set by the committee. The final approvals of the research protocol are then issued by the committee of post graduate studies, the Faculty and University Council to be registered.

**6- Program Admission Requirements**

Bachelor of Medicine & surgery with minimum good grade

- Registration for the program opens 2 times / year, according to the internal bylaws for postgraduate studies of the Faculty of Medicine, Suez Canal University.



### **7- Student Assessment Methods**

- |                            |   |
|----------------------------|---|
| <b>7.1 Written (MEQ)</b>   | to assess the cognitive domain.                                 |
| <b>7.2 MCQs</b>            | to assess the cognitive domain                                  |
| <b>7.3 Oral Viva Cards</b> | to assess higher cognitive and attitude domains.                |
| <b>7.4 Observations</b>    | to assess practical and presentation skills.                    |
| <b>7.5 Portfolio</b>       | to assess the cognitive, psychomotor and the affective domains. |

### **8- Weighting of Assessments**

Type of exam	
First part (30 credit points= 600 mark)	
• Written exam	490
• Oral and practical exam	110
• <b><u>Total</u></b>	<b>600</b>
Second part (60 credit points including 10 credit points not included in the total marks =1800 mark)	
• Oral exam	110
• Practical exam	330
• Written exam	330
• Portfolio	330
<b><u>Total</u></b>	<b>1100</b>

### **9- Regulations for Progression and Program Completion**

- The regulations for program completion follow the general regulations for the Faculty of Medicine, Suez Canal University for MS approved by the Supreme Council of Universities. The program is considered complete with the accomplishment of 2 summative assessment (for the first and the second parts) and the defense of a thesis developed and submitted for the purpose of acquiring the degree.
- **First part**
- Passing level 60% of total marks of the exam and at least 50% passing level of the total written exam marks
- **Second part**
- Passing level 60% of total marks of the exam
- Passing level 60% total of practical and oral exam
- **Thesis/Assay**
- Passing discussion is required for MS degree

### **10- Evaluation of Program Intended Learning Outcomes (ILOs)**





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Evaluator	Tool	Sample
1- Postgraduate students	Needs assessment questionnaires	Random sample of participants
2- Alumni(N/A since this is the first time to implement the program)	N/A	N/A
3- Stakeholders	Self-administered questionnaires DELPHI Focus groups	According to the method
4-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	

**Head of Otorhinolaryngology Department**

**Prof. Maged Baher**