



PROGRAM SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme Title & Code	Postgraduate Master degree of Phoniatics/ PHON 500
(2) Final award/degree	M.Sc.
(3) Department (s)	Otorhinolaryngology Department
(4) Coordinator	Prof. Dr. Tamer Samir Abou-Elsaad Professor of Phoniatics - Faculty of Medicine-Mansoura University.
(5) External evaluator (s)	Prof.Dr. Yehia Amin Abo-Ras Professor of Phoniatics- Alexandria University.
(6) Date of approval by the Department`s council	15/5/2016
(7) Date of last approval of programme specification by Faculty council	9/8/2016

(B) Professional information

Phoniatrics is the medical specialty for communication disorders, concerned with diseases and disorders of voice, speech, language, hearing (in so far as hearing impairment has its effects on any of the areas previously mentioned) and swallowing.

The specialty is based on the anatomical, physiological, diagnostic and therapeutic principles of Otorhinolaryngology and also on other medical disciplines (e.g. neurology, psychiatrics, pediatrics, dentistry, orthodontics) and non-medical sciences (e.g. linguistics, phonetics, psychology, behavior sciences, pedagogics, acoustics, communication sciences). These fundamentals guarantee that physical, developmental, functional and behavioral aspects of verbal communication can be taken care of in Phoniatrics with competence.

(1) Programme Aims.

The broad aims of the Programme are as follows:

- 1- The training program for Phoniatrician is designed to provide the candidate with the basic knowledge and skills necessary to be competent as to the whole of prophylaxis, diagnostics, therapeutics, rehabilitation, medical report, teaching and research, with reference to the diseases and disorders previously mentioned.
- 2- The training program will ensure that the candidate will be able to work with clients of all ages, including children and adults, and provide a variety of services skillfully in rehabilitation centers, medical clinics, and in private practice.
- 3- The training program is carried out in a consistent and logical manner to make them adequately prepared to practice in research laboratories, community centers, colleges and universities, and state and federal agencies.
- 4- The final evaluation should reflect the candidate ability to practice competently and independently.
- 5- The candidate should recognize the ethical principles related to the practice in this specialty.
- 6- Maintenance of abilities necessary for continuous medical education.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

A- Knowledge and Understanding.

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

- A1.** Enlarge the basic medical knowledge and made more thorough primarily by the study in detail of the anatomy, physiology and pathological physiology of the functions of voice, speech, language, hearing, and swallowing.
- A2.** Comprehend the neurophysiological principles of the central encoding, decoding, memory and integration processes in speech, hearing, and swallowing.
- A3.** Know the genetic principles and the influence of the environment in the development of language, speech, hearing, and swallowing abilities.
- A4.** Identify the developmental and aging processes as to voice, language, speech, hearing, and swallowing.
- A5.** Understand the psychological and behavioral aspects of verbal communication.
- A6.** Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the voice disorders that include:
 - A6a. Congenital voice disorders.
 - A6b. Developmental voice disorders.
 - A6c. Non-organic (functional) voice disorders with and without secondary organic lesions in the larynx, including occupational dysphonia and also singers' voice.
 - A6d. Dysphonia caused by hormones.
 - A6e. Dysphonia as a result of organic alterations in the larynx.
 - A6f. Voice disorders due to neurological and psychiatric diseases, including vocal fold paralysis.
 - A6g. Voice disorders after operation or trauma of the larynx.
- A7.** Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the speech disorders that include:
 - A7a. Organic and functional articulation disorders.
 - A7b. Nasality, including cleft palate.
 - A7c. Dysfluency (stuttering and cluttering)
 - A7d. Dysarthria due to neurological (central, peripheral) and muscular diseases.

A8. Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the language disorders that include:

A8a. Delayed language development in children due to (but not limited to) hearing disorders (central and peripheral), mental retardation, brain damaged motor handicapped child (cerebral palsy), autism spectral disorder(ASD), attention deficit hyperactive disorders (ADHD), Specific language impairment (SLP).

A8b. Learning disability due to disorders of reading, writing and calculating (dyslexia, dysgraphia).

A8c. Dysphasia, aphasia.

A9. Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the swallowing disorders (Dysphagias) due to problems in the oral, and/or pharyngeal stages of swallowing (structural lesions, neurological disorders).

A10. Acquire selected knowledge from other disciplines required for phoniaticians (acoustics, electronics, phonetics, linguistics, pedagogics, psychology and behavior sciences) through attending of relevant basic science courses. This will form the starting point for the formation of a Phoniatician and also the basis for interdisciplinary cooperation and to carryout research work.

A11. Acquire the basic knowledge for common ENT problems in the domain of phoniatics and for basic general surgical skills.

A12. Acquire the basic knowledge for evaluating of children with outpatient health problems, disabilities and milestones delay.

A13. Acquire the basic knowledge in evaluation and management of psychiatric patients in the domain of phoniatics.

A14. Acquire the basic knowledge for interpreting a basic and computerized audiological report.

A15. Acquire teaching abilities relevant to disorders of voice, speech, language and swallowing in order to participate in planning and implantation of that field.

A16. Know the Legal and medicolegal aspects in practise of phoniatic disorders as well as medical ethics.

A17. Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, and line of treatments of endocrine disorders related to patients with communication and swallowing disorders.

A18. Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics of mental retardation and brain damaged motor handicapped child (cerebral palsy).

A19. Acquire specific knowledge in different types of grafts.

A20. Acquire specific knowledge in different types of flaps.

A21. Acquire advanced knowledge in surgical management of the cleft palate (primary and secondary repair).

A22. Identifies the type of teeth malocclusion and its effect on the speech.

A23. Identifies lines of management of teeth malocclusion in order to correct the underlying speech disorder.

A24. Identifies the types of obturators used in management of different speech and swallowing disorders.

A25. Recognize how to design and select a psychometric test for specific patient group. Identify the methods of application of a psychometric test. Comprehend the validity and reliability of a psychometric test.

A26. Identify the principles of data collection, presentation and analysis of data. Identify the research methodologies related to communication and swallowing disorders.

A27. Identify the causes, diagnosis and lines of management of vocal fold immobility.

A28. Identify the diagnosis, differential diagnosis, classification and lines of management of cancer larynx.

A29. Identify the causes, diagnosis and lines of management of open and closed nasality.

A30. Identify the causes, diagnosis and lines of management of conductive and sensori-neural hearing impairment.

B- Intellectual skills :

- B1.** Outlines the therapeutic measures in the field of diseases of voice, speech, language and swallowing and applies them surgically, pharmacologically and behaviorally in order to be able to draw and perform the strategy of the therapy in the field efficiently.
- B2.** Collects complete, clear and organized information about the patient's ailments in order to be able to analyze it and formulate a preliminary idea concerning the etiological diagnosis of ailments.
- B3.** Analyses the speech (verbal) message of the patient concerning voice, phonology, semantic, syntax, and morphology in order to be able to describe precisely the type and degree of pathological aspects of communication.
- B4.** Analyses and relates the results of all different items of the battery of investigations in order to reach at an etiological diagnosis and possible differential diagnosis utilizing his/her theoretical background that draws charts for different groups of ailments in the field of phoniatics.
- B5.** Outlines the role of pharmacological therapeutic agents in treatment of diseases of voice, speech, language and swallowing in order to be able to describe them when needed.
- B6.** Recognizes the methods of voice therapy in order to criticize the efficiency and pitfalls of each.
- B7.** Grasps the principles of behavior therapy in order to introduce efficiently these measures in the therapeutic programs given to patients.
- B8.** Grasps the principles of general language stimulation in order to be able to give efficient family guidance programs to help families that have children with delayed language development to participate efficiently in the therapeutic program.
- B9.** Grasps the principles of language rehabilitation of dysphasic patients in order to include it efficiently in the comprehensive rehabilitation program for these patients, including family guidance.
- B10.** Grasps the principles of language rehabilitation for the hearing impaired patient in order to include it efficiently in the comprehensive program for rehabilitation of the hearing handicapped.
- B11.** Identifies the role of prosthetic devices and aids in the therapeutic program for diseases of voice, speech, language and swallowing in order to be able to use it efficiently when indicated.
- B12.** Acquaints himself with the methodology of scientific research in the field of voice, speech, language and swallowing disorders in order to carry out efficiently academic and field research work.
- B13.** Assess the developmental milestones of children and classify their different types of disabilities.
- B14.** Recognizes high risk children for disabilities and determine the degree of handicap.
- B15.** Determines the cause of the neurological deficit in the domain of phoniatic disorders and selects the proper investigation and interpretation of radiological findings (CT and MRI of the brain).
- B16.** Interprets the electroencephalogram (EEG).
- B17.** Outlines the role of pharmacological therapeutic agents in treatment of endocrine diseases elated to voice, speech, language and swallowing in order to be able to describe them when needed.

B18. Outlines the role of pharmacological therapeutic agents in treatment of epilepsy and other pediatric neurological disorders.

B19. Outlines the selection criteria for management of velopharyngeal insufficiency.

B20. Determines the surgical procedure for velopharyngeal insufficiency patients.

B21. Outlines the role of Orthodontics and prosthodontics agents in treatment of diseases related to speech and swallowing in order to be able to describe them when needed.

C- Professional/practical skills:

- C1.** Examines patients with disorders of voice, speech, language and swallowing clinically and instrumentally and performs related formal tests on those patients in order to reach detailed etiological diagnosis and suggests prognosis.
- C2.** Examines the ear, nose, pharynx and larynx as well as the nervous system efficiently in order to detect organic changes and evaluate its significance and in order to associate between these signs and the symptomatology collected previously.
- C3.** Examines the larynx by means of stroboscope in order to study vocal fold's vibration during phonation and to detect the pathological picture of these vibrations and its significance.
- C4.** Performs the available standardized psychological tests in order to draw a diagnostic profile for the various perceptual, affective, social, cognitive aptitudes as well as the performance abilities of the patients.
- C5.** Carries out the various measurements and investigations using the available instrumental diagnostic procedures in order to support the preliminary diagnosis objectively.
- C6.** Practices micro-laryngoscopy in order to be able to perform efficiently the necessary micro laryngeal surgical procedures on the vocal folds and the larynx in general.
- C7.** Practices rehabilitation methods for speakers' and singers' voice.
- C8.** Practices rehabilitation methods for nasality.
- C9.** Practices rehabilitation of the laryngectomized patients.
- C10.** Practices habilitation methods in delayed language development.
- C11.** Practices rehabilitation methods for the correction of articulation errors.
- C12.** Practices rehabilitation methods for learning disabilities.
- C13.** Practices rehabilitation methods for stutterers and clutterers.
- C14.** Practices rehabilitation methods in dysphasia and aphasia.
- C15.** Practices rehabilitation methods in dysarthrias.
- C16.** Practices rehabilitation methods in oro-pharyngeal dysphagias.
- C17.** Practices habilitation for hard of hearing children, including auditory training and habilitation of cochlear implantee.

D- Communication & Transferable skills:

- D1.** Communicates effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds.
- D2.** Cooperates with disciplines related to disorders of voice, speech, language and swallowing in order to participate in teamwork necessary for the proper management of those patients.
- D3.** Conveys his/her ideas to specialists in other disciplines in order to be able to function effectively in a group.
- D4.** Identifies the capacities and limitations of the other medical specialties participating with him/her in the clinical teams in order to be able to put effectively an integrated, realistic therapeutic program.
- D5.** Practices the activities of group interaction in order to be able participate efficiently in the activities of the clinical teams.
- D6.** Apply principles of medical ethics in dealing with patient information by keeping patient privacy and confidentiality even with multi-personnel accessibility to patient data.
- D7.** On the basis of the knowledge, competence, and skill he has acquired during his training, a phoniatician must also be prepared to fulfill the following important tasks:
- D7a. Medical report on vocational unfitness and disability.
 - D7b. Medical care for voice professions.
 - D7c. Collaboration in early detection of laryngeal malignancies.
 - D7d. Organization and guidance of phoniatic institutes.
 - D7e. Education of physicians and special needs professions.
 - D7f. Conditions to be fulfilled with respect to training centers and supervisors.
 - D7g. Coordinate the rehabilitation programs (physical therapy, occupational therapy, cognitive therapy.) for multi-handicapped children.

(3) Academic standards.

Academic standards for the programme are attached in **Appendix I**, in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used. External reference points/Benchmarks are attached in **Appendix II**.

3.a- External reference points/benchmarks are selected to confirm the appropriateness of the objectives, ILOs and structure of assessment of the programme.

The program is structured according to education standards and training program provided by the Union of the European Phoniatician (UEP) under the section of the European Union of Medical Specialists (UEMS)

<http://www.phoniatics-uep.org/education.htm>

http://www.orluems.com/gestor/upload/file/10_%20Logbook%20Phoniatics_UEMS_2009.pdf

3.b- Comparison of the specification to the selected external reference/ benchmark.

1- All programme aims of the Benchmarks are covered by the current programme.

2- The programme courses are matched by 90% degrees to those offered by the European universities except in the context of credit hours, and the durations of rotations in other specialties.

(4) Curriculum structure and contents.

4.a- Duration of the programme (in years or months): 36 months

4.b- programme structure.

*The programme consists of two parts; the first part composed of six courses which are: Communication Sciences , Phonetics and Linguistics, Psychology, Psychometry, Medical Genetics, Medical Statistics. The second part composed of five courses which are: Phoniatic Disorders, Psychiatry and pediatric Psychiatry of phoniatic disorders, Neurology of phoniatic disorders, Audiology of phoniatic disorders, ENT of phoniatic disorders

*Candidates should fulfill a total of **45 credit hours**.

●4.b.1: Number of credit hours (minimum):

First part: **5 credit hours**. Second part: **18 credit hours**. Activities included in the log book: **10+2=12 credit hours**. Thesis: **10 credit hours**.

●4.b.2: Teaching hours/week:

First part:

Lectures: 5hours/week. Total: 75 hours for 15 weeks (referred to the table below).

Second part:

Lectures: 18hours/week. Clinical/practical: 10 hours/week.

(5) Programme courses:

First part (15 weeks duration over a period of 5 months):

a- Compulsory courses:

Course Title	Course Code	Credit hours	NO. of hours per week					Total teaching hours/15 wks	Programme ILOs covered (REFERRING TO MATRIX)
			Theoretical		Laboratory /practical	Field	Total		
			Lectures	seminars					
Communication Sciences	PHON 524 CS	2 hours	2 hours x 15 w	-----	-----	-----	---	30 hours	A1,2,4,10
Phonetics and Linguistics	PHON 524 PL	1 hour	1 hour x 15 w	-----	-----	-----	-----	15 hours	A10 ,B3
Psychology	PHON 513 PS	1/2 hour	1 hour x 8 w	-----	-----	-----	-----	8 hours	A5, 10, B7, D1, 2, 4
Psychometry	PHON 524 PM	1/2 hour	1 hour x 8 w	-----	-----	-----	-----	8hours	A10, B4, C4, D2, 3
Medical Genetics	PHON 509	1/2 hour	1 hour x 8 w	-----	-----	-----	-----	8 hours	A3, 8, 12, B13, 14, D2, 3, 4, 5
Medical Statistics	PHON 518	1/2 hour	1 hour x 8 w	-----	-----	-----	-----	8 hours	A15, B2,12
		5 hours			-----			75 hours	

b- Elective courses: none

Second part (45 weeks duration over a period of 15 months)

a- Compulsory courses

Course Title	Course Code	Credit hours	NO. of hours per week				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
			Theoretical		Lab /practical	Field			Total
			Lectures	Seminars					
Phoniatric Disorders that include. - Language disorders - Speech disorders. - Voice disorders & phonosurgery. - Swallowing disorders.	PHON 524 PD	7 hrs		---	8 credit hrs/w	---	23	345 hrs /45 wks	A1,4, 6-9, 15,16 B1-12, C1-3, 5-17, D1,5,6,7
	PHON 524PDTa	2 hrs	2hrs x 15w		3hrs x 15w				
	PHON 524PDTb	2hrs	2hrs x 15w		3hrs x 15w				
	PHON 524PDTc	2 hrs	2hrs x 15w		1hrs x 15w				
	PHON 524PDTd	1h	1hr x 15w		1hr x 15w				
Psychiatry and pediatric Psychiatry of phoniatric disorders	PHON 513 PSY	3hrs	3hrs X 15w		-----	---	3hrs	45 hrs/ 15 wks	A5, 8, 10, 13, b5, 7,
Neurology of phoniatric disorders	PHON 512	3 hrs	3hrs X 15 w		2 cr. hrs 2hrs x 15w		7 hrs	105 hrs/ 15 wks	A7, 8,9, B5, 15, 16, C2, D2-5
Audiology of phoniatric disorders	PHON 524 AUD	2 hrs	2hrs X 15 w		-----		2hr	30 hrs/ 15 wks	A14, B2, B4, B10,
ENT of phoniatric disorders	PHON 524 ENT	2 hrs	2hrs X 15 w				2hr	30 hrs/ 15 wks	A11, B5,
b-Elective course.									

Endocrinology of phoniatic disorders	PHON524 PEN	1hrs	1hrs X 15 w					15 hrs/ 15 wks	A17,B2,B4, B17
Physical medicine of phoniatic disorders	PHON524PRH	1 hrs	1hrs X 15 w					15 hrs/ 15 wks	A17,B2,B4, B17
Pediatric neurology of phoniatic disorders	PHON524PSY	1 hrs	1hrs X 15 w					15 hrs/ 15 wks	A17,B2,B4, B17
Plastic surgery of phoniatic disorders	PHON524PPS	1 hrs	1hrs X 15 w					15 hrs/ 15 wks	A17,B2,B4, B17
Orthodontic and prosthodontic of phoniatic disorders	PHON524OPD	1hrs	1hrs X 15 w					15 hrs/ 15 wks	A17,B2,B4, B17
		18 Cr. hrs	18 hrs		10 cr. hrs		37 hrs	555hrs	
Log book								10 +2 credit hrs	
Thesis								10 credit hrs.	

N.B.

- 2nd semester courses: PHON 524PDTa + PHON 513 PSY+ PHON 524 AUD
- 3rd semester courses: PHON 524PDTb + PHON 512
- 4th semester courses: PHON 524PDTc + PHON 524PDTd + PHON 524 ENT

Program - course ILOs matrix (master degree, phoniatics)

Program ILOs are enlisted in the first row of the table (by their code number: A1, A2,.....), then the course titles or codes are enlisted in first column, and an x mark is inserted where the respective standard contributes to achievement of the program ILOs in question.

Course assessment method	Program ILOs																																																											
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	B21									
Communication Sciences Phon 524 CS	x	x		x						x																																																		
Phonetics & linguistics Phon 524 PL										x																																																		
Psychology Phon 513 PS					x					x																																																		
Psychometry Phon 524 PM																									x																																			
Medical genetics Phon 509				x								x																																																
Medical statistics Phon 518																												x																																
Phoniatric disorders Phon 524 PD	x				x		x	x	x	x																																																		
Psychiatry and pediatric Psychiatry Phon 513 psy					x								x																																															

Course Title/Code	Program ILOs																							
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D1	D2	D3	D4	D5	D6	D7
Communication Sciences Phon 524 CS																								
Phonetics & linguistics Phon 524 PL																								
Psychology Phon 513 PS																								
Psychometry Phon 524 PM																								
Medical genetics Phon 509																								
Medical statistics Phon 518																								
Phoniatric disorders Phon 524 PD	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x
Psychiatry and pediatric Psychiatry Phon 513 psy																								
Neurology Phon 512		x																	x	x	x	x		
Audiology Phon 524 Aud																								
ENT Phon 524 ENT																								

Course Title/Code	Program ILOs																							
	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D1	D2	D3	D4	D5	D6	D7
Elective course. PHON 500																								
-Endocrinology of phoniatic disorder																								
- Physical medicine																								
-Pediatric neurology of phoniatic disorders																								
-Plastic surgery of phoniatic disorders																								
-Orthodontics and prosthodontics of phoniatic disorders																								

(1) Programme admission requirements.

● **General requirements.**

According to the postgraduate by laws. **Appendix IV.**

● **Specific requirements (if applicable): NONE**

(2) Regulations for progression and programme completion.

● Student must complete minimum of 45 credit hours in order to obtain the master degree, which include the courses of first and second parts, thesis and activities of the log book and pass the final exam (written, oral, clinical) at the end of the first and second parts.

● Courses descriptions are included in **Appendix III.**

● Registration for the Master is allowed 6 months from the day of registration to the programme and must fulfill a total of 8 credit hours including material collection, clinical/practical work, patients follow-up, and meetings with supervisors.

Log book fulfillment.

● Student must fulfill a minimum of 15 credit of log book activities including clinical training in the form of residency period, clinical rotation in other specialties, clinical/practical work and conferences attendance or speaking.

● Lectures and seminars must be documented in the log book and signed by the lecturer.

● Works related to thesis must be documented in the log book and signed by the supervisors.

● Any workshops, conferences and scientific meetings should be included in the log book.

Final Exam.:**First part:**

إجمالي	الدرجة		الاختبار	المقرر
	شفهي	تحريري		
	١٢٠	١٨٠ MCQ%٢٠	إختبار تحريري مدته ثلاث ساعات + إختبار شفهي	علوم التخاطب
	٨٠	١٢٠ MCQ%٢٠	إختبار تحريري مدته ساعتان + إختبار شفهي	الصوتيات واللسانيات
	٤٠	٦٠ MCQ%٢٠	إختبار تحريري مدته ساعة+ إختبار شفهي	علم النفس
	٤٠	٦٠ MCQ%٢٠	إختبار تحريري مدته ساعة+ إختبار شفهي	القياسات النفسية
	٨٠	٦٠ MCQ%٢٠	إختبار تحريري مدته ساعة+ إختبار شفهي	علم الوراثة التطبيقي
		٦٠ MCQ%٢٠	إختبار تحريري مدته ساعة	الإحصاء الطبي
٩٠٠	إجمالي الدرجة			

Second Part:

إجمالي	الدرجة			الاختبار	المقرر
	إكلينيكي	شفهي	تحريري		
	١٠٠	١٠٠	100 + 100 MCQ%٢٠	إختباران تحريريان مده كل منهما ثلاث ساعات +إختبار شفهي + إختبار إكلينيكي	أمراض التخاطب
	١٠٠	٥٠	MCQ%٢٠ ١٠٠	إختبار تحريري مدته ساعة ونصف +إختبار شفوي+إختبار إكلينيكي	الأمراض العصبية

		٥٠	١٠٠ MCQ%٢٠	إختبار تحريري مدته ساعة ونصف + إختبار شفهي في الأمراض النفسية	الأمراض النفسية وأمراض نفسية الأطفال المتعلقة بأمراض التخاطب
		٢٥	٧٥ MCQ%٢٠	إختبار تحريري مدته ساعة+ إختبار شفهي.	أمراض الأذن والأنف والحنجرة
		٢٥	٧٥ MCQ%٢٠	إختبار تحريري مدته ساعة + إختبار شفهي	علم السمع المتعلقة بأمراض التخاطب
		٥٠	٥٠ MCQ%٢٠	إختبار تحريري مدته ساعة+ إختبار شفهي.	المقرر الاختياري
١١٠٠	إجمالي الدرجة				

Evaluation of Programme's intended learning outcomes (ILOs):

Evaluator	Tools*	Signature
Internal evaluator (s) Prof.Dr.Mohamed Rashad Ghoniem Prof.Dr. Tamer samir Abou-Elsaad	Focus group E_mail Group discussion	
External Evaluator (s) Prof.Dr. Yehia Amin Abo-Ras	E_mail Interview checklist	
Senior student (s)	none	
Alumni	none	
Stakeholder (s)	none	
others	none	

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

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

Programme coordinator: Name: Prof. Dr. Tamer Samir Abou-Elsaad	Signature & date:
Dean: Name: Prof. Elsaid Abd-ELhady	Signature & date:
Executive director of the quality assurance unit: Name: Prof.Dr.Seham Gad El-hak	Signature & date: