



## PROGRAMME SPECIFICATION

### Faculty of Medicine- Mansoura University

#### **(A) Administrative information**

<b>(1) Programme Title &amp; Code</b>	Postgraduate Doctorate degree of Phoniatriics/ Phon 600
<b>(2) Final award/degree</b>	M.D.
<b>(3) Department (s)</b>	Otorhinolaryngology Department
<b>(4) Coordinator</b>	Prof. Dr. Tamer Samir Abou-Elsaad Professor of Phoniatriics – Faculty of Medicine–Mansoura University
<b>(5) External evaluator (s)</b>	Prof.Dr. Yehia Amin Abo-Ras Professor of Phoniatriics- Alexandria University.
<b>(6) Date of approval by the Department's council</b>	15/5/2016
<b>(7) Date of last approval of programme specification by Faculty council</b>	9/8/2016

## **(B) Professional information**

### **(1) Programme Aims:**

The broad aims of the Programme are as follows.

- 1-** Within the philosophy of M.D., we aim to foster the development of personal communication skills with much emphasis on leadership & decision making skills as well as informational technology orientation.
- 2-** The degree is designed to provide the candidate with the basic and advanced knowledge and skills necessary to be competent as to the whole of prophylaxis, diagnostics, therapeutics, rehabilitation, medical report, teaching and research, with reference to 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.
- 3-** The certificate 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.
- 4-** The candidate knows (basic and advanced) the structures, functions, and dysfunctions of the communication organs and masters the treatment and rehabilitation methods as well as most important methods of alternative and augmentative communication (AAC).
- 5-** The candidate understands the geriatric aspect of the discipline.
- 6-** The candidate master instrumental examination methods of the discipline.
- 7-** The candidate is able to work in multidisciplinary team.
- 8-** The candidate is able to teach health care and non-health care professionals on phoniatric issues.
- 9-** The candidate has learnt methods for finding and adopting new phoniatric information.
- 10-** The candidate is able to participate in the development and planning processes of the discipline.
- 11-** The candidate is able to give information to the public on phoniatric issues.
- 12-** The degree is designed to prepare the candidate to understand the importance, application and also to practice the evidence-based treatment.
- 13-** Maintenance of abilities necessary for continuous medical education.
- 14-** The candidate is familiar with the administration and legislation of the health care system.
- 15-** The certificate aim to prepare the phoniatrician as senior practitioners, educators, researchers, and administrators capable of practicing phoniatrics in academic and clinical settings. The curriculum advances students' knowledge of the basic principles of research, including how research is conducted, evaluated, explained to patients, and applied to patient care.

## **(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.** Expand the basic medical knowledge thorough studying in details 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.** Identify the developmental and aging processes as to voice, language, speech, hearing, and swallowing.

**A4.** Understand the psychological and behavioral aspects of verbal communication.

**A5.** Acquire advanced knowledge of basic non-medical sciences (phonetics, linguistics and electronics) required for phoniatricians through attending relevant courses.

**A6.** Acquire advanced 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 advanced 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 advanced 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 advanced 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 teaching abilities relevant to disorders of voice, speech, language and swallowing in order to participate in planning and implantation of that field.
- A11.** To recognize & define thoroughly the principles of research ethics and in turn be able to conduct experimental design and statistical analysis of data as related to laboratory, clinical, and epidemiologic research.
- A12.** Know the Legal and medicolegal aspects in practise of phoniatric disorders as well as medical ethics.
- A13.** Acquire the basic knowledge and skills in evaluating of psychiatric patients in the domain of phoniatrics.
- A14.** Acquire advanced knowledge in surgical management of the benign vocal fold lesions, unilateral vocal fold immobility, tracheoesophageal puncture voice prosthesis insertion.
- A15.** Acquire advanced knowledge about the principles and complications of the laryngeal surgery

#### 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 phoniatrics.
- 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.** Determines the cause of the neurological deficit in the domain of phoniatric disorders and selects the proper investigation and interpretation of radiological findings (CT and MRI of the brain).
- B14.** Interprets the electroencephalogram (EEG).

## 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.  
for learning disabilities.

- 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
- 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 specialities 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 phoniatrician 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 phoniatric 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.
- D8.** Describe and be a model for applying professional and research ethics.
- D9.**Conduct a good training for the young colleagues, participate in CME program and perform self-appraisal.
- D10.** Conduct an effective lecture and presentation according to the known standards and time schedule.
- D11.** Conduct a research project, select an appropriate research methodology, and choose the proper research statistics to analyze data.

### **(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 Phoniatrician (UEP) under the section of the European Union of Medical Specialists (UEMS)

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

[http://www.orluems.com/gestor/upload/file/10\\_%20Logbook%20Phoniatrics\\_UEMS\\_2009.pdf](http://www.orluems.com/gestor/upload/file/10_%20Logbook%20Phoniatrics_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.

## **(1) Curriculum structure and contents.**

**4.a- Duration of the programme (in years or months).** 42 months

**4.b- programme structure.**

\*The programme consists of two parts; the first part composed of two courses which are: Communication Sciences and Phonetics and Linguistics, The second part composed of one course with four sub courses: Phoniatric Disorders course that include Language disorders sub course, Speech disorders sub course, Voice disorders and phonosurgery sub course and Swallowing disorders sub course.

\*Candidates should fulfill a total of **60 credit hours**.

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

First part: **5 credit hours**. Second part: **25 credit hours**. Thesis: **15 credit hours**.

Activities included in the log book: **15 credit hours**.

●**4.b.2:** Teaching hours/week.

**First part.**

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

**Second part.**

Lectures/seminars: 25 hours/week. Clinical/practical: 15 hours/week.

## **(2) Programme courses.**

## First part (20 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/20wks	Programme ILOs covered (REFERRING TO MATRIX)		
			Theoretical		Laboratory /practical	Field	Total				
			Lectures	seminar							
Communication Sciences	PHO N 624 CS	3h	3 hrs/15wks	-----	-----	----	3	48hours	A1,2,3,5		
Phonetics and Linguistics	PHO N 624 PL	2h	2 hrs/15wks	-----	-----	----	2	30 hours	A5 ,B3		
Advanced studies in the medical field: a- Scientific research methodology b- Medical statistics c- Use of computer in the medical sciences *			5 hrs/15wks				5	75 hours			

\* Advanced studies in medical fields consist of two hours lecture for 15 lectures over four weeks.

### b- Elective courses:

**Second part (76 weeks duration/19 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:	PHON 624 PD				-----				
1- Language disorders	PHON 624 PDTa	5h	5 hrs/15wks		3 hrs/15wks	-----		75hrs/wks lectures/ Seminars 45hrs/ wks practical	
2- Speech disorders.	PHON 624 PDTb	6h	6 hrs/15wks		3 hrs/15wks	-----		90hrs/15wks 'lectures/ seminars 45hrs/15wks practical	
3- Voice disorders and phonosurgery.	PHON 624 PDTc	5h	5 hrs/15wks		3 hrs/15wks	-----		75hrs/15wks lectures/ seminars 45hrs/15 wks practical	
4- Swallowing disorders.	PHON 624 PDTd	5h	5 hrs/15wks		3 hrs/15wks	-----		75hrs/15wks lectures/ seminars 45hrs/15wks practical	
<b>b-Elective courses</b>									
- Adult neuropsychiatry of phoniatric disorders	PHON 624ASY							A4,A7,A8,A9, A10,A13,B5,B7, B13,C2,D1-6	
- Pediatric neuropsychiatry of phoniatric disorders	PHON 624PSY							A4,A7,A8,A9, A10,A13,B5,B7, B13,B14,C2, D1-6	
- Advanced phonosurgery	PHON 624APS							A14,A15,B1,C6,D6	
- Logbook							15 credit hours		
Thesis							15credit hours		

## Program-Courses ILOs Matrix (MD degree)

Program ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the program ILOs in question.

Course Title/Code	Program ILOs																											
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Communication Sciences Phon 624 CS	x	x	x		x																							
Phonetics & linguistics Phon 624 PL				x													x											
Advanced studies in the medical field									x							x									x			
Language disorders PHON 624 PDTa			x			x		x		x					x	x	x	x	x		x	x	x	x	x			
Speech disorders PHON 624 PDTb			x		x			x		x					x	x	x	x	x		x				x			
Voice disorders and phonosurgery PHON 624 PDTc			x	x				x		x					x	x	x	x	x	x	x				x			
Swallowing disorders PHON 624 PDTd								x	x	x					x	x		x	x		x				x			

Course Title/Code	Program ILOs																											
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Elective course:																												
- Adult neuropsychiatry of phoniatric disorders			x		x	x	x	x					x						x		x					x		
- Pediatric neuropsychiatry of phoniatric disorders			x		x	x	x	x					x						x		x				x	x		
- Advanced phonosurgery														x	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	D8	D9	D10
Communication Sciences Phon 624 CS																											
Phonetics & linguistics Phon 624 PL																											
Advanced studies in the medical field																	x				x	x	x	x	x	x	
Language disorders PHON 624 PDTa	x	x	x					x		x		x			x	x	x	x	x	x	x						
Speech disorders PHON 624 PDTb	x	x	x	x			x		x		x		x			x	x	x	x	x	x	x					
Voice disorders and phonosurgery PHON 624 PDTc	x	x	x	x	x	x	x	x								x	x	x	x	x	x	x					
Swallowing disorders PHON 624 PDTd	x	x		x											x		x	x	x	x	x	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	D8	D9	D10
Elective course:																											
- Adult neuropsychiatry of phoniatric disorders	x																x	x	x	x	x						
- Pediatric neuropsychiatry of	x																x	x	x	x	x						
- phoniatric disorders					x																x						
- Advanced phonosurgery																											

### **(3) Program admission requirements.**

#### **•General requirements:**

According to the postgraduate by laws. [Appendix IV](#).

#### **•Specific requirements (if applicable):** NONE

### **(4) Regulations for progression and program completion.**

● Student must complete minimum of 60 credit hours in order to obtain the Doctorate 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 M.D. thesis is allowed 18 months from the day of admission to the programme and must fulfill a total of 15 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 credits of log book activities including clinical/practical work and conferences attendance or speaking.

● Lectures and clinical activities must be documented in the log book and signed by the lecturer and clinical supervisors.

● 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:**

الدرجة تحريري	الاختبار	المقرر
١٠٠	إختبار تحريري مدة ثلاثة ساعات.	علوم التخاطب
١٠٠	إختبار تحريري مدة ثلاثة ساعات.	الصوتيات واللسانيات

**Second Part:**

اجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	شفي	MCQ	تحريري		
٥٠٠	١٠٠	١٠٠	٦٠	١٢٠ + ١٢٠	إختباران تحريريان مدة كل منها ثلاثة ساعات + إختبار شفوي + إكلينيكي	أمراض التخاطب
١٠٠	٢٠	٢٠	١٢	٤٨	إختبار تحريري مدة ساعة ونصف + إختبار شفوي + إكلينيكي في الامراض العصبية (اطفال او كبار) او الجراحات الصوتية	المقرر الاختياري
٦٠٠	اجمالي					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_email 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 specification for this programme are in place.

<b>Programme coordinator:</b> Name: Prof. Dr. Tamer Samir Abou-Elsaad	Signature & date:
<b>Dean:</b> Name: Prof.Dr. El saeid abdelhady	Signature & date:
<b>Executive director of the quality assurance unit:</b> Name: Prof.Dr.Seham Gad El-hak	Signature & date: