Faculty of Medicine
Suez Canal University

Program Specifications

Master Degree of

Chest Diseases and Tuberculosis

Code: ***IMCD***

Program Specifications

A. Basic Information:

- Programme Title: Master Degree of Chest Diseases and Tuberculosis
- Programme Type: Single ■ Double Multiple
- Department (s): Department of Internal Medicine (Chest unit).
- Coordinator: Head of Chest unit.
- External Evaluator (s):
- Date of specification approval: the bylaws of the master program in Chest Diseases and Tuberculosis in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities in 2016.

B. Professional Information:

Overall aims of the program:

1. Demonstrate understanding of the principles of chest diseases, approach to the patient, and proper clinical and laboratory assessment of patients.
2. Demonstrate understanding of physiological basis of the respiratory system and chest diseases.
3. Demonstrate understanding of anatomy of the thorax, abdomen and neck.
4. Demonstrate understanding of histology of the respiratory system.
5. Demonstrate understanding and clinical assessment of other diseases that coexist in chest patients.
6. Demonstrate understanding of basics and skills of public health and community medicine and to use them in practice of chest medicine.
7. Demonstrate understanding of basics of the immune system, microbiology and principles of sterilization and infection control.
8. Demonstrate understanding of pathological basis of chest diseases.

9. Demonstrate understanding of pharmacological basics of drugs used in management of chest patients.

2. Intended learning outcomes:

Upon completion of this course, the student should be able to:

a. Knowledge and Understanding Teaching Assessment:

a1. Discuss basic knowledge of Physiology of respiration & cardiac circulation.

a2. Discuss basic knowledge of Anatomy of the Thorax & Abdomen & Neck.

a3. Discuss basic knowledge of Histology of the pulmonary system.

a4. Discuss basic knowledge of the common Bacteria & viruses affecting respiratory system.

a5. Discuss basic knowledge of drugs used for different chest diseases.

a6. Discuss updated guidelines of management of different chest diseases.

a7. Discuss basic knowledge of diagnostic methods of chest diseases.

a8. Discuss basic knowledge of developmental & metabolic lung diseases.

a9. Discuss basic knowledge of Infectious lung diseases.

a10. Discuss basic knowledge of pulmonary neoplasm.

a11. Demonstrate understanding of the chronic interstitial lung diseases (sarciodosis, lymphangioleiomatosis, and idiopathic pulmonary fibrosis).

a12. Discuss types, diagnosis and management of immunological lung diseases. (Connective tissue, vasculitis).

a13. Discuss basic knowledge of diseases of the airways (obstructive lung abscess, chronic obstructive lung disease and asthma).

a14. Discuss basic knowledge of plural diseases (effusion, cylothrax, pneumothorax, fibrosis, neoplasm).

a15. Demonstrate understanding of the vascular lung diseases (pulmonary hypertension, pulmonary edema, and pulmonary embolism).

a16. Discuss basic knowledge of tuberculosis (diagnosis, prevention, treatment).

a17. Discuss basics of research ethics.

a18. Discuss basics of biostatistics.

a19. Discuss basics of ethical and medico-legal aspects of chest practice.

a20. Discuss principles of quality assurance related to chest practice and instrumentation.

(B) Intellectual Skills:

b1. Solve problems related to chest diseases.

b2.Write scientific background for a research problem

b3.Have self-learning and self-evaluation skills.

b4. Integrate different information to solve problems.

b5. Integrate research and scientific data to solve professional problems.

b6. Assess risk related to practice of chest medicine.

b7. Analyze data for decision making in practice of chest medicine.

b8.Plan to improve performance related to specialty

(C) Professional and Practical skills:

c1. Diagnose and manage a case of chest diseases.

c2. Perform diagnostic fiber optic bronchoscope.

c3. Perform Plural biopsy & tapping.

c4. Perform CT guided biopsies & thorax biopsies.

c5. Write and evaluate professional reports.

c6. Perform pulmonary function tests & interpret its different types of reports.

c7. Use different data, methods, and instruments in practice of chest medicine.

(D) General and Transferable Skills:

d1. Work in a team.

d2. Explain ideas and lead discussions properly.

d3. Master managerial skills.

d4. Master presentation skills.

d5. Master evaluation skills (self-evaluation, subordinates, peers & program).

d6. Master computer skills.

d7. Use different data, tools and technologies properly.

d8. Use research and different data for self-learning.

d9.Manage time effectively

d10. Adopt the principles of self and lifelong learning

3- Academic Standards:

3a External References for Standards (Benchmarks)
External References for Standards (Benchmarks)

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate (2009) [http://naqaae.org/main/php/book/index.php]

3b Comparison of Provision to External References (attached)

- Some unique courses were suggested and introduced during assessment of the current situation and the needs of assessment achieved during preparation for the program.

4- Curriculum Structure and Contents

4a- Program duration: the program lasts for a minimum of 2 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 7th, 2016.

4b- Program structure:

Master Program Credit points (CP) structure:

Total needed credit points for getting master 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. It includes

a. A course in Research Methodology and biostatistics 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 Research ethics planned and held in the Forensic and Toxicology Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
c. One elective course, the students should select one elective among six courses. This part includes 2 CP.
d. The specialized courses in anatomy, histology, physiology, pharmacology, microbiology, pathology, and public health.
e. Course in internal medicine. It includes 5 CP

2. Master thesis: 30 CP, not included in the total marks for master degree, the candidate has the right to register the thesis protocol after 6 months from the degree registration. The thesis defense is allowed after 6 months from the date of the faculty council approval on the thesis protocol and passing the first part exam.
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 chest diseases and Tuberculosis, planned and held in the Internal Medicine Department. 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

Every credit point include 25 working hour (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 Programme: 1st part MSc

a. Compulsory

Courses			Assessment				
Code No.	Course Title	No. of CP	Written Exam			Oral Exam	Practical Exam
			No of Papers	Duration	Marks		
RB	Research methodology and Biostatistics	4	1	2 hours	80	-	-
RE	Research Ethics	2	1	1 hour	40	-	-
IMCD01	Applied Physiology	3	1	1 hour	45	15	-

IMCD02	Applied Anatomy	2	1	1 hour	30	10	-
IMCD03	Histology	2	1	1 hour	30	10	-
IMCD04	Internal Medicine	5	1	2 hours	40	20	40
IMCD05	Public Health	3	1	1 hour	45	15	-
IMCD06	Microbiology and Clinical Immunology	2	1	1hour	30	10	-
IMCD07	Applied Pathology	3	1	1 hour	45	15	-
IMCD08	Clinical Pharmacology	2	1	1 hour	30	10	-
E	Elective Course	2	1	1 hour	40	-	-
Total		**30 credit points**			**600 marks****		

***E: Student should select one course of the following as an elective course:**
One elective course has 2 CP. The students should select one elective in first part of the Master degree

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 Programme: 2nd part MSc

a. Compulsory

Courses			**Assessment**					
Code No.	**Course Title**	No. of CP	Written Exam			Oral Exam	Practical Exam	Continues assessment *(Portfolio)
			No of papers	Duration	Marks			
IMCD09	Specialized course in Chest Diseases	55*	2	3 hours for each paper	165 + 165	110	330	330
	***Scientific activities	5	-	-	-	-	-	-
Total		**60 credit points**			**1100 score**			

***55 credit points: 15 credit points for knowledge, 40 for clinical practice, and 5 for scientific activities in chest diseases.**

***Portfolio scores distributed in the different parts of the portfolio and its total score included among the total mark of the second part**
****Every credit point equal 20 marks**
*****Scientific activities are not included in the total marks**

6- Programme Admission Requirements:

- Bachelor of Medicine & surgery with minimum good grade & very good in Medicine.

7- Student Assessment Methods

(7.1) Written (MEQ) exam to assess the cognitive, knowledge and practical skills.
(7.2) MCQs to assess the cognitive, knowledge and practical skills.
(7.3) Oral exam to assess higher cognitive and attitude domains.
(7.4) Practical exam to assess practical and presentation skills.
(7.5) Portfolio to assess the cognitive, psychomotor and the affective domains.

8- Weighting of Assessments

Total marks for master degree 1700

Type of exam	
First part (30 credit points= 600 mark)	
• Written exam	455
• Oral exam	105
• Practical exam	40
• **Total**	**600**
Second part (60 credit points including 5 credit points not included in the total marks =1100 mark)	
• Oral exam	110
• Practical exam	330
• Written exam	330
• Portfolio	330
Total	**1100**

9- Regulations for Progression and Programme Completion

First part
Passing level 60% of total marks of the exam
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% is prerequisite for MSC degree
Thesis/Assay
Passing thesis defense is perquisite for getting MSc. Degree

10- Evaluation of Programme Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students	**Questionnaires**	Random sample of participants
2- Alumni	**Questionnaires**	Comprehensive sample
3- Stakeholders (Employers)	**Interviews**	Random sample
4-External Evaluator(s) (External Examiner(s)	**Attending exam (using checklist and/or rating scale)**	
5- Other		

Head of the Department: **Prof. Mahmoud El prince**

Date: / /