PROGRAMME SPECIFICATION
Faculty of Medicine- Mansoura University

(A) Administrative information

Programme Title & Code	Postgraduate Master degree of internal medicine MED500
(1) Final award/degree	MSc
(2) Department (s)	Internal medicine
(3) Coordinator(s)	Name: Prof Salah El-Gamal Ass Prof Dina Shahin
(4) External evaluator (s)	Prof Mohamed Kamar, Professor and head of internal medicine department, Zagazig University.
(5) Date of approval by the Department`s council	26/7/2016
(6) Date of last approval of programme specification by Faculty council.	9/8/2016

(B) Professional information

(1) Programme Aims:

Internal Medicine is a professional degree. Candidates should achieve satisfactory levels of basic knowledge andclinical skills in all aspects of internal medicine, interact with community problems, respect ethical values according to community culture, and promote their medical standards throughengaging in continuing medical education. The program also aims to introduce thecandidate to the basics of scientific medical.

Master graduates are expected to demonstrate the ability of :

1- Showing competency of the professional skills required by the specialist of internal medicine and use of various suitable new technologies in the practice of medicine.

2- Applying and use of analytical design, finding solutions and decision making in internal medicine specialties including emergency situations.

3- Acting with integrity, honesty and commitment with the roles and ethics of medical profession.

4-Showing competency in applying the principles of scientific research in internal medicine.

5- Self-development both academically and professionally and showing ability of continuous learning.

6- Effective communication and the ability of acting as a member and a leader of healthcare team in various situations .

Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

A1 Recognize the basic scientific knowledge related to: anatomy, physiology, microbiology and immunology, clinical pharmacology, pathology and clinical pathology

A2 Identify and understand the core content of general internal medicine which includes the internal medicine subspecialtie (Endocrinology,Hematology, Nephrology, Rheumatology and immunology, Cardiology,Gastro-entrology,hepatology,Neurology,chest,infectious diseases and geriatric medicine).

A3 Describe the differential diagnosis and management modalities for common medical clinical problems.

A4 Understand basic concepts of different laboratory and imaging procedures todiagnose various clinical disorders related to various modules.

B- Intellectual Skills:

B1 Interpret and integrate basic science knowledge he had studied to maximize their benefit in practicing his clinical work.

B2 Analyze symptoms and signs to construct a differential diagnosis for the common clinical presentations.

B3 Design an appropriate diagnostic plan for evaluation of common clinical cases taking into consideration the risks, benefits and costs to the patient.

B4 Interpret the results of different investigations guided by the history andexamination.

B5 Set up treatment plans for common clinical problems taking into account the cultural and individual needs.

B6 use information technology to optimize learning and conducting a research

C- Professional/practical skills
C1 Practice the art of history taking.
C2 demonstrate competency in clinical examination skills in different internal medicine specialties.
C3 Perform simple bed side clinical procedures.
C4 write and evaluate medical reports and maintain comprehensive , timely, legible medical records if applicable.

D- Communication & Transferable skills
D1 Communicate with the patients in an ethical way to gain their confidence.
D2 Respond effectively to a patient's emotional and psychosocial concerns
D3 Communicate with other health care providers
D4 Respect the item of patient referral to another specialty at proper time. .
D5 Achieve Computer skills necessary to make use of medical data bases anduse the internet for communication.
D6 Show administrative skills that enables him to fulfill the paper work needed
D7 Show leadership skills that enable him to organize work and lead the juniorand paramedical staff and Appreciate team working
D8Write scientific article according to the basics of scientific research.

(1) 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:

Accreditation council for graduate medical education
Website: www.acgme.org

3.b- Comparison of the specification to the selected external reference/ benchmark:
The aims of the Benchmark are covered by the current program .
There are differences in the credit hours and the time table of the program.
About 85% of the topics of the benchmark are covered in our program.

(2) Curriculum structure and contents:

4.a- Duration of the programme : . 4 semister
4.b- programme structure:
Candidates should fulfill a total of 45 credit hours
●4.b.1: Number of credit hours:
First part:5 credit hours.
Second part:
- Internal medicine course: 18 credit hours (theoretical) + 14 credit clinical skills recorded in the log book
- Other scientific activities: 2 credit hours

- Dissertation: 6 credit hours.

●4.b.2: Teaching hours/week:
First part: Lectures: 1 hours /week for each course (15 weeks) .
Second part:
Lectures: 4 hours /week . Seminars: 2 hour/week.
Clinical/practical: 4 hours/week . Total: 10 hours/week.

Programme courses:

First part: Compulsory courses (First semester, 15 weeks)

Course Title	Course Code	Total teaching hours			
		Theoretical		Total	
		Lecture	seminars		
Clinical pharmacology	MED506	1		1	15
Applied Physiology	MED503	1		1	15
Applied Anatomy	MED501	0.5		0.5	7
Applied Pathology	MED505	0.5		0.5	8
Applied Microbiology	MED507	1		1	15
Clinical pathology	MED530	1		1	15
Total		5 credit			75 teachin hours

b-Elective courses: none

Second part: a- Compulsory courses (second to fourth semesters)

Course Title	Course Co	NO. of hours per week			Total teaching hours
		Theoretical (Lectures, seminars	Clinical /practical		
Internal medicine and its branches	MED510				
Module I = Gastroenterology , Hepatobiliarydisordes = infectious diseases = Hematology and medical oncology = General internal medicine		6	5		6× 15= 90 5× 30= 150

Evidence based medicine					
Module II: = Endocrinology ,Diabetes ,Metabolis and nutrition = = Rheumatology and Immunology = Neurology & psychiatry = Geriatrics		6	5		6× 15= 90 5× 30= 150
Module III = Cardiology =Respirato medicine / Emergency medicine Critical care = Nephrology & electrolytes		5	4		5×15= 75 4×30= 120
Elective course 1. Diabetic foot 2. Endoscopies 3. Renal dialysis 4. Immunology Evidence based medicine		1 hour			1×15= 15
Dissertation (Thesis)					

Programme-Courses ILOs Matrix

P.S. All courses` specifications are attached in Appendix III.

Course Title / Code	a1	a2	a3	a4	b1	b2	b3	b4	b5	b6
Clinical pharmacology /MED	×	×			×		×			
Applied Physiology / MED5	×				×		×			
Applied Anatomy / MED5	×	×			×		×			
Applied Pathology / MED5(	×				×		×			
Applied Microbiology/MED5	×				×		×			
Clinical and chemical pathology/ MED5	×				×		×			
Internal medicine course				×	×	×	×	×	×	×

Course Title / Code	c1	c2	c3	c4	d1	d2	d3	d4	d5	d6	d7	d8
Clinical pharmacology /MED5												
Applied Physiology / MED5												
Applied Anatomy / MED5												
Applied Pathology / MED50												
Applied Microbiology/MED5												
Clinical and chemical pathology/ MED530												
internal medicine course	×	×	×	×	×	×	×	×	×	×	×	×
Renal dialysis course	×	×	×	×	×	×	×	×	×	×	×	×
Diabetic foot course	×	×	×	×	×	×	×	×	×	×	×	×
GI endoscope course	×	×	×	×	×	×	×	×	×	×	×	×
Immunology course	×	×	×	×	×	×	×	×	×	×	×	×
Evidence based medicine course	×	×	×	×	×	×	×	×	×	×	×	×
Dissertation (Thesis)												×

(1) Programme admission requirements:

●General requirements:

According to the faculty postgraduate bylaws .

●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 MSc degree, which include the courses of first and second parts, thesis , activities of the log book and other activities in the department.

● Courses description are included in

During 36 months , residents will have clinical rotation in the general medicine units and some special medicine departments (shown in the log book including the clinical training , seminars ,conferences ,training courses and workshops as well as attendance of thesis discussions).

The dissertation:

The postgraduate student has to prepare an essay on a chosen subject in internal medicine under the supervision of a professor of internal medicine and at least one of the assistant professors or the lecturers in the department. It is registered 6 months after starting the M Sc program. An open discussion of the essay presented by the student must be accomplished before earning the degree.

The second part includes:

(covered through 18 months)

A course in internal medicine and its branches .

A clinical and practical training in internal medicine and its branches and diagnostic methods (log book activities).

The course topics are covered through:

Lectures

Interactive bedside teaching during clinical rotations

Clinical seminars

Journal clubs

Conferences

Self learning

- Lectures and seminars of the previously described courses 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.

Continuous assessment :

An MCQ exam is conducted after completion of each course of the first part and represents 20 % of the written exam of the first part

An MCQ exam is conducted after completion of each module of the second part course and the sum of the 3 exams represent 20 % of the final second part written exam,

Final exam:

الجزء الأول

المقرر	الاختبار	الـــدرجة		إجمالي
		تحريري	شفهي	
الفارماكولوجيا الباثولوجيا التطبيقية	إختبار تحريري (ورقتان) مدته ثلاث ساعات + اختبار شفهي	90 + 90	60 + 60	
الفسيولوجيا التطبيقية التشريح التطبيقي	إختبار تحريري (ورقتان) مدته ثلاث ساعات + اختبار شفهي	90 + 90	60 + 60	

الميكروبيولوجيا	إختبار تحريري مدته ثلاث ساعات + اختبار شفهي	90 + 90	60 + 60	
الباثولوجيا الإكلينيكية و الكيميائية				
إجمالي الدرجة				900

الجزء الثاني

المقرر	الاختبار	الـــدرجة					إجمالي
		تحريري	شفهي	إكلينيكي	عملي	MCQ	
الأمراض الباطنة العامة وفروعها	إختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار اكلينيكي + اختبار عملي	120 + 120	100	100	100	60	
إجمالي الدرجة							600

(7) Evaluation of Program's intended learning outcomes (ILOs):

Evaluators	Tools*	Sample si
Internal evaluator (s) Prof GamalShiha Prof MamdouhElnahas Prof Nagy Abd-Elhady	Group discussion	
External Evaluator (s) Prof Mohamed Kamar, Professor & of internal Medicine, Zagazig university.	External evaluator checklist repor	
Senior student (s)	None	
Alumni	None	
Stakeholder (s)	None	
Others	None	

We certify that all information required to deliver this program is contained in the above specification and will be implemented. All course specification for this programare in place.	
Program coordinators: Name: Prof Salah El-Gamal Prof Dina Shahin	Signature & date:
Dean: Name:	Signature & date:
Executive director of the quality assurance unit: Name:	Signature & date: