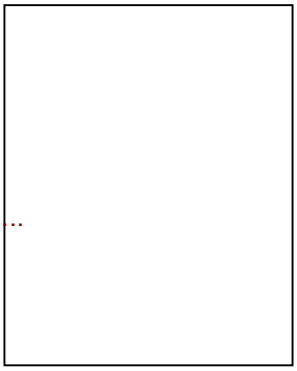
Resident
(M Sc student)

Mansoura University
Faculty of Medicine
Internal medicine department

Personal Data



Name: .....

Date of Birth: ...../...../.....

Home Address: .....

Telephone Number: .....

e-mail Address: .....

M.B. B. Ch.:

Date: ...../...../.....

Degree: .....

Present Job:

Work address: .....

Date of appointment: ...../...../.....

Master Degree:

Date of registration: ...../...../.....

Date of graduation (1st part): ...../...../.....

Date of discussion of thesis: ...../...../.....

Date of graduation (2nd part): ...../...../.....

Final degree: .....

Head of the Department

Vice Dean for research and postgraduate study

Contents

Resident:

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(1) A. Programme Aims:

The broad aims of the Programme are as follows:

M Sc candidates must be able to provide a high standard patient care that is compassionate and effective for the treatment of internal medical conditions and the promotion of health.

They must treat their patient's conditions with practices that are safe , scientifically based, effective, efficient, timely, cost effective as well as evidence - based.

The program must integrate patient centered care with medical education .

Master graduates are expected to demonstrate the ability of :

1- showing competency in applying the principles , methodology and various tools of scientific research in internal medicine.
2- applying and use of analytical design in internal medicine specialties.
3-applying and integration of general knowledge with the knowledge related to the practice of internal medicine and health care .
4- showing awareness with the present problems ,difficult conditions as well as recent updates in internal medicine.
5- detection of professional problems through analytical design and findings possible solutions in these situations.
6- 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.
7- effective communication and the ability of acting as a member and a leader of healthcare team in various situations .
8- the ability of making decisions in different situations including emergencies.
9- use and benefit of available resources to get the highest standards of clinical practice.
10- showing awareness of their role in community development and protection of the environment in the context of national and international changes.
11- acting with integrity, honesty and commitment with the roles and ethics of medical profession.
12- self development both academically and professionally and showing ability of continuous learning.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A 1 **recall the theoretical basis of the internal medical conditions and related subjects including the structure and functions of body organs .**
A2 recalls the basic and clinical aspects of pharmacotherapy and its recent updates.
A3 recalls the basics of microbiology, applied pathology and clinical and chemical pathology relevant to internal medicine..
A 4 **recognize the core content of general internal medicine which includes the internal medicine subspecialties, non internal medicine subspecialties and relevant non clinical topics at a level sufficient to practice internal medicine**.
A 5 **demonstrate sufficient knowledge to evaluate patients with an undiagnosed and undifferentiated presentation and recent updates and developments.**
A 6 **identify and recall treatment modalities of medical conditions commonly managed by internists as well as uncommon conditions.**
A 7 **recognize and outline initial and advanced management of emergency medical problems.**
A8 recognize principles and basics of quality assurance in the practice of internal medicine.
A 9 **recognize the moral ,ethical and legal principles in medical practice.**
A10 recognize and describe ethics code in the experimental and human scientific research.

B- Intellectual skills

B1 **identify strengths, deficiencies, and limits in one's knowledge and expertise and be able to be updated and face challenges.**

B 2 **solve specific clinical problems despite limited resources** .

B 3 **integrate knowledge and understanding of internal medicine and other medical specialties and interpret basic clinical tests and images as well as obscure findings to solve clinical problems .**

B4 analyze efficiently case scenarios and refer to the most appropriate diagnosis and possible differential diagnosis.

B5 making clinical decisions in different situations including emergencies.

B 6 **systematically analyze practice using *quality improvement methods* , and implement changes with the goal of practice improvement and set learning and improvement goals.**

B 7 **locate , appraise , and assimilate evidence from scientific studies related to their patient's health problems , i.e. adopt an evidence based approach .**

B 8 **use information technology to optimize learning and write an essay about a specific medical problem.**
B 9 identify and evaluate the potential risks in clinical practice of internal medicine.

C- Professional/practical skills

C 1 **demonstrate competency in history taking and clinical examination skills in different internal medicine specialties.**

C2 **perform and interpret laboratory and radiological findings in diagnosis and treatment of internal medical diseases.**

C3 **demonstrate competency in performing diagnostic and therapeutic procedures required by the medical specialists including advanced life support CVP , and Sengstaken tube insertion, difficult cases ECG interpretation, stress ECG, echocardiography, endoscopies , Liver biopsy, renal biopsy and lumber puncture, according to their specialization.**

C4 **act in a consultative role to other physicians and health professionals.**

C5 **write and evaluate medical reports and maintain comprehensive , timely, legible medical records if applicable.**

C6 **provide basic preventive care and counseling.**

D- Communication & Transferable skills

D 1 **communicate effectively with physicians , other health professionals and health related agencies.**

D 2 **communicate effectively with patients , families, and the public as appropriate , across a broad range of socioeconomic and cultural backgrounds.**

D 3 **demonstrate the ability to interact with diverse patient population including but not limited to diversity in gender ,age , culture , race ,religion, disabilities .**

D 4 **demonstrate compassion , integrity and respect of others and respect for patient privacy and autonomy and demonstrate responsiveness to patient needs that supersedes self interest.**

D5 use of information technology in the clinical practice.

D 6 use of different resources to gain knowledge and information.

D7 work effectively as a member or a leader of a health care team or other professional group.

D8 **effective time management and continuous self learning.**

D9 design roles and standards of professional evaluation of others.

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.

(4) Curriculum structure and contents:

4.a- Duration of the programme : 36 months.

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.**.

Log book including clinical training, workshops and training courses on diagnostic procedures: **14 credit hours.**

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: 3 hours /week . Seminars: 3 hour/week.

Clinical/practical: 3 hours/week . Total: 9 hours/week.

(5) Programme courses:

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

Course Title	Course Code	NO. of hours per week					Total teaching hours
		Theoretical				Total	
		Lectures	seminars				
Clinical pharmacology	MED506	**1**		**--**		**1**	**15**
Applied Physiology	MED503	**1**				**1**	**15**
Applied Anatomy	MED501	**1**				**1**	**7**
Applied Pathology	MED505	**1**				**1**	**8**
Applied Microbiology	MED507	**1**				**1**	**15**
Clinical and chemical pathology	MED530	**1**				**1**	**15**
Total							**75**

B. Secnd part Course content:

The internal medicine course is divided into 3 modules to be studies all over 3 semesters :

Module I and II = 6 credit hours each

Module III= 5 credit hours + an elective course fulfilling 1 credit hour

Subjects	Lectures	Seminars	Clinical/ Practical	Total teaching hours	credit hours
Module I: ***Gastroenterology , Hepatobiliary &pancreatic disorders:*** Oesophgeal disorders Stomach: H pylori peptic ulcer Gastritis Upper and lower GIT bleeding Small intestine: Malabsorption Inflammatory bowel disease Constipation -Diarrhea Functional bowl disorders Acute abdomen /Peritoneal diseases Jaundice Acute hepatitis Chronic hepatitis: viral - autoimmune Drug induced- NAFLD Liver cirrhosis & its Complications	**3**	**2**	**4**		**6 hours**

Liver cell failure/Liver transplantation Drugs & the liver Gall bladder: stones, inflammation pancreatitis , ***Hematology & oncology:*** Anemias: types, classification, diagnosis Bone marrow failure /Hemolytic anemia Myeloproliferative disorders Splenomegaly Blood transfusion White cell disorders Hemostasis and thrombosis Principles of cancer chemotherapy Leukemias /Lymphomas /Myeloma ***Infectious diseases*** Viral infections Bacterial infections:Brucellosis Typhoid Parasitic diseases /Fungal infections STDS /HIV Emerging viral infections ***General internal medicine*** History taking and examination Ethics and communication Chest pain / Dyspnea / Polyuria Syncope PUO Laboratory interpretation Imaging techniques and interpretation *Evidence based medicine* Steps of EBM					
Module II ***Endocrinology Diabetes ,Metabolism And Nutrition*** Reproduction and pubery & disorders Growth axis: short stature /Tall stature Growth hormone abnormalities Acromegay, gigantism /Hypopituitrism Thyroid : Hypo/hyperthyroidism / Goitre Suprarenal gland: Cushing Hypoadrenalism/ Pheochromocytoma Thirst axis: DI / SIADH Parathyroid disorders Metabolic bone disease Endocrinology of blood pressure	**3**	**2**	**4**		**6 credit hours**

Neuroendocrine tumours /MEN Diabetes and its Complications Hypoglycemia Obesity and metabolic syndrome Lipid disorders Assessment of nutrition/ malnutrition ***Rheumatology and immunology*** OA- RA Inflammatory arthritis Seronegative arthropathy /Crystal arthritis Connective tissue disorders: SLE Systemic vasulitis Uric acid disorers Principles of autoimmune disorders Immune deficiency disorders ***Neurology & psychiatry*** Mental state assessment Psychiatric aspects of physical diseases Depression and anxiety Eating disorders Coma / Cerebrovascular strokes Epilepsy Movement disorders Paraneoplastic syndromes Brain tumours Headache, migraine Peripheral nerve lesions Muscle disease ***Geriatrics*** Basics of geriatric medicine					
Module III ***Cardiology*** IHD Acute coronary syndromes Arrythmias Heart failure HTN Rheumatic fever /Valvular heart disease Infective endocarditis Cardiac muscle disease Pericardial disease ***Renal medicine& electrolytes*** Investigation of renal functions Glomerular disorders Nephrotic syndrome Kidney in systemic disorders UTI /Calculi Drugs & the kidney	**3**	**1**	**2**		**5 credit hours**

Acute renal failure /Chronic renal failure Water & electrolytes Acid base disorders Renal replacement therapy ***Respiratory & critical care medicine*** Pneumonia Suppurative lung disease Asthma / COPD Resiratory failure /ARDS TB Pleural effusion Intersitial lung disease /Sarcoidosis Basics of Mechanical ventilation ***Emergency medicine & Critical care:*** Shock Pulmonary embolism Cardiac arrest and brain death Advanced life support (ALS) ***Elective course:***					**1 credit hour**

Elective course:

The candidate will choose one of the following courses (1 credit hour each):

Renal dialysis

Diabetic foot

Endoscopies

Evidence based medicine

Advanced immunology

To be studied with module III.

B. Master Degree Course:

Scientific Lectures (1st part):

Date	Title	Supervisor

Scientific Lectures (2nd part):

Date	Title	Supervisor

Scientific lectures (2nd part):

Date	Subject	Supervisor

Scientific lectures (2nd part):

Date	Subject	Supervisor

B. Master Degree Essay/ Thesis:

Title: .....

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Supervisors:.....

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Summary of the essay: .....

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Supervisors:

Name			
Signature:			

C. Scientific Activities:

Seminars:

Date	Subject	Supervisor

Conferences:

Date	Conference	Supervisor

Thesis Discussion:

Date	Thesis discussed	Supervisor

Training Courses and Workshops:

Date	Training Subject	Supervisor

D. Other Activities at the Department:

Student Sections:

Date	Subject	Supervisor

Date	Subject	Supervisor

Practical Training
(Clinical Rotation during the residency program)

Duration (Months)	Training IN:	DATE From...to..	Supervisor signature
6	Gastroenteroloy and hepatology unit		
6	Endocrinology ,diabetes, metabolism and geriatrics unit.		
5	Department 3 (General internal medicine+Renal dialysis+ Rheumatology&Immunology		
3	Department 14 (General internal medicine + Infectious disease unit)		
2	Emergency hospital (ER) (under supervision of Dep.3)		
2	Specialized Medical Hosp.(ER) (under supervision of endocrinology unit)		
2	Hematemesis unit (under supervision of Gastroenterology unit)		
1	ICU (Oncology centre) (under supervision of Dep. 14)		
1	Nephrology unit (Urology&Nephrology Centre)		

2	Oncology &Hematology (Oncology center)		
2	Cardiology		
2	Chest		
1	Neurology		
1	Psychiatry		
36	Total duration		