Mansoura University
Faculty of Medicine

Log Book

Internal Medicine Department

2016 - 2017

ختم القسم

إيصال تسليم Log Book

اسم الطالب : .....

الفرقة : .....

رقم الجلوس : .....

تاريخ التسليم : .....

توقيع المستلم : .....

رسالــة الكلــية

"تقديم مستوى عال التميز فى التعليم والتدريب الطبى
وتقديم خدمات صحية متميزة للمجتمع
عن طريق المراكز الطبية المتخصصة
وكذلك الإرتقاء بالبحث العلمى"

رؤيــة الكلــية

"أن نصنف إقليميا ونحقق التميز فى التعليم الطبى
والبحوث وخدمة المجتمع"

Template for Course Specifications

Faculty : Mansoura Faculty of Medicine
Department : Internal Medicine

Course Specifications

Programme(s) on which the course is given : MBBCh
Major or minor element of programme : Major
Department offering the programme :
Department offering the course :
Internal Medicine (including the following:
Gastroenterology and hepatology
Endocrinology, diabetes, metabolism
Nephrology
Rheumatology and immunology
Medical oncology
Hematology
Geriatrics
General internal medicine
Critical care medicine
Cardiovascular Medicine Department.
Neurology
Chest medicine
Psychiatry
Rheumatology & Rehabilitation
Dermatology, Andrology & STDs
Tropical Medicine Department
Diagnostic radiology
Clinical Pathology

Academic year / level : Fifth year 2015/2016

Date of specification approval : Department council August 2016

Title:	Internal medicine and its specialties:					
Lecture:	92	Tutorial:	Practical	270 (15weeks)	Total:	362
Title:	Cardiology					
Lecture:	18	Tutorial:	Practical	54 (3weeks)	Total:	72
Title:	Dermatology					
Lecture:	24	Tutorial:	Practical	54(3weeks)	Total:	78
Title:	Clinical pathology					
Lecture:	16	Tutorial:	Practical		Total:	16
Title:	Chest					
Lecture:	18	Tutorial:	Practical	54(3weeks)	Total:	72
Title:	Neurology					
Lecture:	18	Tutorial:	Practical	54(3weeks)	Total:	72
Title:	Tropical medicine					
Lecture:	12	Tutorial:	Practical	36(2weeks)	Total:	48
Title:	Psychiatry					
Lecture:	6	Tutorial:	Practical	18(1weeks)	Total:	24
Title:	Rheumatology and rehabilitation					

Lecture:	6	Tutorial:	Practical	18(1weeks)	Total:	24
Title:	Diagnostic radiology					
Lecture:	6	Tutorial:	Practical	18(1weeks)	Total:	24

A- Professional Information

1 - Overall Aims of Course

Overall Aims of Course is to provide the student with:

1. Basic Knowledge and clinical Skills essential for dealing with common diseases and life threatening illnesses related to internal medicine and their prevention and management.
2. ATTITUDES that foster patient centered care and support the highest standards of the medical profession
3. Basic knowledge and skills to diagnose and manage stable cardiovascular diseases states as well as acute states
4. Basic amount of knowledge and skills needed for general practitioners for dealing with tropical, infectious and endemic diseases and their proper management
5. Basic knowledge & skills when dealing with the psychosocial effects of medical illness and to detect and manage common psychological health problems encountered in all specialties.
6. Knowledge & skills for undertaking advanced training in psychiatry
7. Basic knowledge, skills and attitude essential for the practice of Rheumatology, Physical medicine and Rehabilitation necessary to be able to examine, diagnose, advice and treat patients with common rheumatic disorders correctly.
8. Knowledge, clinical skills and ethical attitude about common disorders of skin, andrology and sexually transmitted diseases (STDs) likely to be seen by general practitioner .
9. Basic knowledge and skills necessary to make an essential radiologic framework, determine the essential radiological approaches needed in common emergencies and radiological interpretation of various diseases affecting the different body systems, including congenital, inflammatory, traumatic, neoplastic and functional disorders.
10. The ability to be proficient in thorough Neurology history taking, comprehensive physical and mental state examination, diagnosis and management of neurological diseases
11. Basic knowledge, cilinical skill and attitude to diagnose and treat different chest diseases and to basically interpret chest x-ray
12. Provide the students with the essential knowledge of Clinical pathology related to Medical practice.
13. Attitude of team relationship and personal development including a lifelong continued medical education.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding

A 1. Identify altered structure and function of the body and its major systems that are seen in various diseases and integrate it in clinical conditions including endocrinal, gastrointestinal, renal, rheumatological, immunological, hematological, oncological diseases.

A 2. Discuss etiology, pathogenesis, clinical features, diagnoses and complications of common and life threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum from adolescents to elderly, including gastrointestinal and hepatic ,endocrinal , diabetes, renal ,hematological and rheumatological disorders.

A 3. Identify common medical illnesses with multi-system reflections and their differential diagnosis.

A 4. Describe the principles of evidence based medicine (EBM) including its steps to practice EBM.

A 5. Identify causes of different cardiovascular diseases.

A 6. Describe Pathogenesis of different cardiovascular diseases.

A 7. Explain symptoms of different cardiovascular diseases.
A 8. Discuss clinical presentation of different cardiovascular diseases.
A 9. List investigations for diagnosis of cardiovascular diseases (Non-Invasive and Invasive)
A 10. Summarize Diagnostic Approach of different cardiovascular diseases.
A 11. List therapeutic approach of different cardiovascular diseases.
A 12. Enumerate preventive Approach of different cardiovascular diseases.
A 13. Describe the normal structure and function of the gastrointestinal and hepatobiliary system.
A 14. Discuss etiology and pathogenesis, clinical features and various diagnostic modalities of common tropical and endemic disorders.
A 15. List different principles of management of various Tropical and infectious disorders.
A 16. Describe etiology, pathogenesis, clinical features, diagnoses and complications of common psychiatric disorders, presenting throughout the age spectrum.
A 17. Describe the steps of proper management of different psychiatric disorders.
A 18. Describe etiology, pathogenesis and clinical features and identify various diagnostic methods of common and major rheumatic diseases
A 19. Discuss different principles of management of various rheumatic diseases and back pain
A 20. Discuss the differential diagnosis of rheumatological diseases.
A 21. Define different physical modalities and antirheumatic drugs, uses &contraindications.
A 22. Recognize etiology, pathogenesis, clinical features, diagnoses and complications of common dermatology, STDs and Andrology cases
A 23. Discuss principles of management of common dermatology, STDs and Andrology cases
A 24. Describe principles of disease surveillance and screening.
A 25. Identify the basic technical principles of the main radiologic equipments; x-ray, Barium study, CT and MRI.
A 26. Describe normal radiologic anatomy of different systems: CNS, CVS, GIT and GUS.
A 27. Discuss the radiologic appearance of different diseases: congenital, inflammatory and neoplastic.
A 28. List the main radiologic tools used in emergencies.
A 29. Discuss the common neurological problems presenting to doctors - in primary health care setting, hospital and community - their diagnosis, prevention and treatment.
A 30. Identify disease in terms of mental, functional and physical processes.
A 31. State the clinical manifestations and differential diagnosis of common neurological disorders with an emphasis on the incidence of the different manifestations and their relative importance in establishing diagnosis, and the early manifestations of serious diseases.
A 32. Identify risk factors for disease processes and injury, and institute the appropriate diagnostic, preventive, and therapeutic interventions.
A 33. Identify the indications and logistics of referring patients to higher levels of experience or specialization with regard to neurological cases.
A 34. List the aetiology , basics of pathogenesis and treatment of pulmonary embolism and pulmonary hypertension and diseases of mediastinum
A 35. Recognize the aetiology, pathogenesis and treatment of bronchial asthma, COPD, TB, suppurative lung diseases , pleural diseases and lung cancer.
A 36. Explain different types of pulmonary fibrosis , respiratory failure and pulmonary interventional techniques
A 37. Recognize pneumonia diagnosis and treatment options
A 38. Describe the causes, pathophysiology and laboratory diagnosis of various types of anemias.
A 39. List different types of benign and malignant leucocyte disorders.
A 40. Recognize appropriate laboratory tests needed for evaluation of organ functions.
A 41. Identify the basic principles of diagnostic microbiology.
A 42. Recognize the preanalytical variables that confound test results.

b- Intellectual Skills

B 1. Integrate basic biomedical & biopsychosocial science with clinical care.
B 2. Reason deductively in solving clinical problems:
B .2.1. Prioritize clinical problems.
B .2.2. Evaluate information objectively, recognizing its limitations
B 3. Use personal judgment for analytical and critical problem solving.
B 4. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation of various medical conditions.
B 5. Construct appropriate management strategies for patients with common medical diseases, both acute and chronic status.
B 6. Design an initial course of management for stabilization of patients with serious illnesses.
B 7. Classify factors that place individuals at risk for disease, to determine strategies for appropriate response.
B 8. Evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).
B 9. Recognize and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to uncertain situation through proper counseling, consultation and referral.
B 10. Choose the suitable diagnostic techniques as regard cost effectiveness
B 11. Interpret the clinical and report of diagnostic procedures to reach the proper diagnosis of specific cardiovascular disease
B 12. Choose the suitable therapeutic modalities for a specific cardiovascular disease
B 13. Analyze symptoms and signs and construct a differential diagnosis for common presenting complains pf tropical diseases
B 14. Recognize and prioritize the complains of the patient relevant to the musculoskeletal system and analyze them
B 15. Design appropriate management strategies for patients with common rheumatologic and musculoskeletal disorders.
B 16. Classify different radiological examination used in different diseases.
B 17. Analyze the radiological films and differentiate between normal and abnormal films.
B 18. Choose between different oxygen delivery devices.
B 19. Design an appropriate diagnostic plan for evaluation of common presenting complaints
B 20. Differentiate between different types of leukemias by laboratory tests and clinical assessment .
B 21. Use the blood bank appropriately in patient management.
B 22. Apply laboratory data for evaluation of hemostasis and immune system
B 23. Evaluate endocrine function by laboratory tests and correlate with clinical findings.
B 24. Use the appropriate laboratory assays of carbohydrates plasma proteins, lipids and minerals for screening, diagnosis and monitoring.

c-**Professional and Practical Skills**

C1. Take and record a structured, patient centered history of appropriate depth and details, relevant to the clinical context.
C2. Perform full physical examination of patients in complete and/or problem-focused manner.with acute and chronic clinical conditions appropriate to the age, gender, acute and

chronic clinical conditions while being culturally sensitive.

C3. Record patients ' data appropriately.
C4. Formulate management plans for common diseases and acute emergencies.
C5. Write safe prescriptions of different types of drugs based on patient's weight, age and health condition.
C6. Provide first aid measures for critically ill patients in skill lab.
C7. Demonstrate competency in cardiopulmonary resuscitation and basic life-support.
C8. Perform and interpret basic bedside laboratory tests.
C9. Perform some therapeutic interventions e.g. insert a nasogastric tube and a Sungstaken tube in skill lab .
C10. Apply safety and infection control measures during practice.
C11. Perform general cardiac examination (pulse , Blood Pressure , Neck veins, hand , Lower Limb)
C12. Perform Local cardiac examination
C13. Perform cardiac auscultation
C14. Interpret simple cardiac investigations
C15. Conduct a psychiatric interview and record a structured, patient centered history.
C16. Perform mental state examination for patients appropriate to the age,gender, acute, chronic psychiatric conditions while being culturally sensitive.
C17. Recognize different findings the radiological film.
C18. Analyze and interpret the radiological appearance of the common diseases on the film.
C19. Recognize life-threatening conditions and appropriate initial management.
C20. Perform full chest examination of patients with chest diseases
C21. Interpret the finding in chest x ray
C22. Basic interpretation of pulmonary function and ABG

d-**General and Transferable Skills**

D1. Adopt principles of the lifelong learning needs of the medical profession.
D2. Use information and communication technology effectively in the field of medical practice.
D3. Retrieve, manage, and manipulate information by all means, including electronic means.
D4. Present information clearly in written, electronic and oral forms.
D5. Communicate ideas and arguments effectively.
D6. Use Evidence Based Medicine in management decisions.
D7. Effectively manage time and resources and set priorities.
D8. Work efficiently within the health care team and as an effective team leader.
D9. Solve problems related to patients, work management, and among colleagues.
D10. Discuss freely about learned medical problems.
D11. Establish effective communication with the patient and the tutor and practice how to break bad news.
D12. Explain to the patients and the nature of the illness, the diagnostic and therapeutic options and recommended lifestyle modification.
D13. Honor and respect patients, seniors and other colleagues involved in his teaching and subsequently in his future practice.
D14. Respect patients' right and treat all patients equally regardless of believes, culture and behaviors
D15. Recognize one's own limitations of knowledge and skills and refer patients to appropriate specialized health facility at the appropriate stage.
D16. Present information to the patients and ethical way.

D17. Respond effectively to a patient's emotional and psychosocial concerns

E- Professional attitude:

E.1. Adopt an empathic and holistic approach to the patients and their problems.

E.2. Respect patients' rights and involve them and /or their caretakers in management decisions.

E.3. Recognize the important role played by other health care professions in patients' management.

E.4. Apply basics of medical ethics and be aware of the national code of ethics issued by the Egyptian Medical Syndicate.

E.5. Counsel Patients suffering from different conditions.

E.6. Ensure confidentiality and privacy of patients' information.

F- Communication skills:

F.1. Communicate clearly, sensitively and effectively with patients and , and colleagues from a variety of health and social care professions.

F.2. Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.

F.3. Cope with situations where communication is difficult including breaking bad news.

F.4. Show compassion to the patients and situations of stress and grief.

F.5. Honor and respect patients , superiors, colleagues and any other member of the health profession.

3 – Contents:

Internal medicine courses:

Topics	Number of teaching hours	
	Lecture	Tutorial/clinical
GASTROENTEROLOGY & HEPATOLOGY	**Total (26)**	**(20 rounds)**
GASTROENTEROLOGY 1. Approach to a patient with gastrointestinal disease 2. Oesophageal Diseases: Dysphagia, GERD 3. Peptic Ulcer Diseases & related disorders 4. Malabsorption syndrome 5. Diarrhea 6. Constipation 7. Irritable Bowel Syndrome 8. Inflammatory Bowel Disease 9. Upper GIT bleeding 10. Lower GIT bleeding **11.** GIT malignancies	**11**	**8**
HEPATOLOGY 1. **Acute Hepatitis** 2. Chronic Hepatitis I 3. Chronic Hepatitis II 4. Acute liver failure 5. Liver cirrhosis and Chronic liver failure 6. Ascites 7. Portal hypertension 8. Hepatic encephalopathy	**15**	**12**

9. Hepatorenal syndrome, HPS 10. Non viral hepatitis Non alcoholic fatty liver disease, Wilson disease, hemochromatosis & others. 11. Liver Tumors & Hepatomegaly (differential diagnosis) 12. Jaundice & cholestasis . 13. Liver transplantation. 14. Pancreatic Diseases 15. Gall bladder Diseases		
ENDOCRINOLOGY, DIABETES , METABOLISM & NUTRITION	**Total (24)**	**22**
ENDOCRINOLOGY 1. Approach to a patient with endocrinal disorder 2. Pituitary Disorders – I Hypopituitarism , diabetes insipidus Short stature in adults 3. Pituitary Disorders – II Acromegaly, differential diagnosis of tall stature. SIADH 4. Metabolic Bone Disease: Osteoporosis and osteomalacia 5. Disorders of the Parathyroid Glands: Hypo- and hypercalcemia 6. Adrenal Disorders – I Cushing syndrome Conn's syndrome Pheochromocytoma 7. Adrenal Disorders – II Addison disease Acute suprarenal failure 8. Hypothyroidism 9. Hyperthyroidism 10. Other thyroid disorders : Goiter, thyroiditis, thyroid emergencies. 11. Gonadal disorders 12. Common presentations of endocrine disorders (including Hirsutism and hyperprolactinemia) 13. Case scenarios in Endocrinology	**13**	**12**

DIABETES & METABOLISM: 1. Classification , Clinical Aspects & Diagnosis of DM. 2. Acute complications of diabetes I 3. Acute complications of diabetes II 4. Chronic complications of diabetes I 5. Chronic complications of diabetes II 6. Management of Diabetes I 7. Management of Diabetes II 8. Hypoglycemia 9. Lipid disorders **NUTRITION** 1. Obesity & Metabolic syndrome **2.** Assessment of nutrition & Nutritional deficiencies	**9** **2**	**8** 2
GERIATRICS 1. Introduction to geriatric medicine I **2.** Introduction to geriatric medicine II	**2**	**2**
HAEMATOLOGY& ONCOLOGY : 1. Anemia – I Iron deficiency anemia Megaloblastic anemia 2. Anemia – II Aplastic anemia Hemolytic anemia 3. Blood transfusion (clinical aspects) 4. Acute Leukemia 5. Chronic Leukemia 6. Myeloproliferative Disorders Polycythemia Multiple myloma 7. Lymphoma 8. Haemorrhagic disorders I **9.** Haemorrhagic disorders II	**9**	**8**
RHEUMATOLOGY and CLINICAL IMMUNOLOGY: 1. SLE & Lupus related syndromes I 2. SLE & Lupus related syndromes II 3. Rheumatoid arthritis (systemic manifestations and treatment) 4. Seronegative arthropathies. 5. Progressive Systemic Sclerosis & Myositis. 6. Vasculitis **7.** Differential diagnosis of arthritis	**7**	**8**

NEPHROLOGY 1. Common symptomatology of a renal patient I 2. Common symptomatology of a renal patient II 3. Evaluation of patient with kidney disease 4. Acute kidney injury I 5. Acute kidney injury II 6. Chronic Kidney disease I 7. Chronic Kidney disease II 8. Fluid and Electrolyte disturbance. 9. Acid Base Balance **10.** Drugs and Kidney	**10**	**8**
GENERAL INTERNAL MEDICINE **CRITICAL CARE MEDICINE** **DIFFERENTIAL DIAGNOSIS** 1. Evidence based medicine (EBM) principles 2. Iatrogenic disorders: 3. Nanotechnology in medicine 4. Principles of Regenerative medicine 5. Medical ethics 6. Patterns of fevers, Hyperpyrexia , hypothermia, Bacteremia and Septicemia. 7. Sudden death & resuscitation & Care of critically ill patient. 8. Common differential diagnosis in medicine I Pyrexia of unknown origin = PUO (infectious and non infectious causes). 9. Common differential diagnosis in medicine II a. Fatigue and chronic fatigue syndrome b. Dyspnea 10. Common differential diagnosis in medicine III a. Polyuria b-Oedema 11. Common differential diagnosis in medicine Non surgical causes of abdominal pain 12. Common differential diagnosis in medicine IV Lymphadenopathy 13. Case scenarios in internal medicine I **14.** Case scenarios in internal medicine II	**14**	**12**
General approach to history taking and clinical (general and local) examination.		**6**
PROCEDURAL SKILLS : **At the end of the course the student will be able to:** • Demonstrate the medical instruments used for liver biopsy, nasogastric and Sungstaken tube. • Predict and describe the indications, contraindications, precautions and possible complications of such procedures. • Demonstrate competency on cardiopulmonary resuscitation and basic life support.		**4 clinical rounds** **1 skill lab**

Total	92 hours	270 hours (15 weeks , 6 rounds /week, each round 3 hours)

Cardiology topics:

Topic	Lecture	Tutorial/Practical
Introduction to cardiovascular diseases (CVD)		1
Symptoms of CVD		2
General Examinations (General & other Systemic Items related to CVD)		1
Local Cardiac Examination.		2
Cardiac Auscultations an Heart Sounds		1
Cardiac Murmurs (Genesis and Clinical Approach)		3
Investigation for Cardiovascular Diagnosis		2
Congenital Heart Diseases in Adults	1	3
Rheumatic Fever	1	3
Valvular Heart Diseases (Stenotic and Regurgitate Lesions of all Cardiac Valves) (MV,TV,AV,PV)	2	9
Infective Endocarditis	1	3
Pericardial Diseases	1	3
Ischemic Heart Diseases	2	3
Systemic Hypertension.	2	3
Pulmonary Hypertension (Cor -pulmonal ,Pulmonary Embolism)	1	3
Myocarditis, Cardiomyopathy & specific heart muscle Diseases	1	3
Cardiac Arrhythmias & Conduction Defects	2	3
Congestive Heart Failure	1	3
Acute Circulatory Failure (Shock , Syncope and Hypertensive States)	2	1
Diseases of Aorta & Great Vessels	1	1
Peripheral Vascular Diseases		1
Total	18 hours	54 hours (3 weeks)

Chest topics:

Topic	Lecture	Tutorial/Practical
Anatomy	1	3
Pulmonary function test	1	3
Pneumonia	1	3
Pulmonary tuberculosis and Extra pulmonary TB	1	3
Suppurative lung syndrome	1	3
Pleural diseases	1	3
Bronchial asthma	1	3
Hypersenstivity pneumonitis	1	3
Smoking	1	3
Chronic obstructive pulmonary disease	1	3
Lung cancer	1	3

Topic	Lecture	Tutorial/Practical
Diseases of the mediastinum	1	3
Respiratory failure and ARDS	1	3
Oxygen therapy	1	3
Pulmonary thromboembolic disease and Pulmonary hypertension	1	3
Pulmonary fibrosis and Lung collapse	1	3
Chest wall diseases and Diaphragm	1	3
Chest radiology and Investigations in chest medicine	1	3
Total	18 hours	54 hours (3 weeks)

Neurology topics:

Topic		Lecture (18 hours)	Tutorial/practical 54 hours (3 weeks)
Neurological lectures			
Introduction.		1	
Cerebrovascular disorders.		2	
Hemiplegia.		1	
Diseases of the extrapyramidal system.		2	
Diseases of the Cerebellum.		1	
Diseases of the spinal cord.		1	
Diseases of the peripheral nerves.		1	
Diseases of the muscles.		1	
Epilepsy.		2	
Infections of the nervous system.		1	
Demyelinating diseases.		1	
Headache.		1	
Brain Tumors.		1	
Dementia.		1	
Coma.		1	
Neurological sheet			
History			4
Physical development and general appearance Intellectual functions - Speech & articulation			4
Cranial nerves	Olfactory -Optic		3
	Oculomotor -Trochlear -Abducent		3
	Trigeminal - Facial +clinical case		3
	Vestibulo-Cochlear -Glossopharyngeal Vagus -Accessory - Hypoglossal		3
Motor System	Muscle status, Muscle tonus, Muscle strength		3
	Reflexes -Involuntary movements		3
Sensory System	Superficial -Deep - Cortical		3
Coordination, Trophic & vasomotor changes, Vegetative & endocrine disorders , Spine, Cranium, Station and Gait Examination of other systems			3
Neurological cases			

Paraplegia		3
Cauda equina syndrome		3
Extrapyramidal syndromes		3
Cerebellum disorders		3
Muscle diseases & neuromuscular disorders		3
Polyneuropathy		3
Hemiplegia		3
Total	**18 hours**	**54 hours (3 weeks)**

Tropical medicine topics:

Topic	Lecture	Practical/tutorial
Fevers	1	3
Traveler's diarrhea	1	1
Emerging and re-emerging infections	1	2
Viral haemorrhagic fevers	1	3
Prion disease	1	3
Malaria	1	2
Parasitic liver disease	1	3
Tropical liver disease	1	3
Schistosomiasis	1	3
Common parasitic diseases and atlas of infectious diseases	1	2
Ameobiasis	1	2
Lieshmaniasis	1	
Tropical sheet		3
General examination		3
Local examination		3
Total	**12 hours**	**2 weeks (36 hours)**

Psychiatry topics:

Topic	Lecture	Tutorial/practical
Mental state examination& Symptomatology	1	3
Aetiology of psychiatric disorders& Organic mental disorders	1	3
Anxiety disorders	1	2
Somatoform disorders		2
Dissociative disorders		1
Mood disorders	1	3
Schizophrenia	1	3
Substance abuse &dependence	1	1
Total	**6 hours**	**18 hours (1 week)**

Physiotherapy, rehabilitation & rheumatology topics:

Topic	Lecture	Tutorial/Practical
Osteoarthritis & gout	1	
Articular manifestations of Rheumatoid arthritis	1	3
Low back pain	1	3
Rehabilitation	1	3
Physiotherapy	1	3
Anti-rheumatic drugs	1	

Osteoarthritis		3
Gout		3
Total	**6 hours**	**18 hours (1 week)**

Diagnostic radiology topics:

Topic	Lecture	Tutorial/Practical
Basic radiology of the central nervous system	1	3
Basic radiology of the cardiovascular system	1	3
Basic radiology of the chest	1	3
Basic radiology of the upper gastrointestinal tract	1	3
Basic radiology of the lower gastrointestinal tract and the liver	1	3
Basic radiology of the the emergency ultrasound and CT	1	3
Total	**6 hours**	**18 hours (1week)**

Dermatology topics:

Topic	Lecture	Practical/Tutorial
Structure & function of skin, pathological terms, principles of diagnosis, topical therapy	1	4
Viral infection	2	4
Fungus infection	2	8
T.B, Leprosy	1	2
Eczema	1	2
Bacterial infection	1	4
Parasitic diseases, urticaria, papular urticaria	1	4
Erythema multiforme, drug eruption	1	2
Psoriasis, Lichen planus, PRP	1	4
Diseases of sebaceous & sweat glands	1	4
Diseases of hair, melanin disorder	2	2
Collagen diseases, pemphigus	1	4
Anatomy of genitals, male infertility & Sexual medicine	2	4
Gonorrhea, NGU, Syphilis , Chancroid, granuloma inguinale, Viral STD, LGV, Candidiasis, trichomonias	7	6
Total	**24**	**54 (3 weeks)**

Clinical pathology topics:

Topic	Lecture
Laboratory approach for diagnosis of anaemia	1
Haemolytic disorders	1
Haemostasis	1
Transfusion medicine	1
Leucocyte disorders	1
Liver and kidney function tests	1
Diabetes and dyslipidemia	1
Cardiac functions, Acute phase reactants	1
Tumor markers	1
Sampling procedures in microbiology lab.	1
Laboratory diagnosis of viral and fungal infections	1
Laboratory diagnosis of bacterial infections	1
Hypersensitivity	1

Immune deficiency syndrome	1
Polycythemia	1
Lymphoma	1
Total	**16 hours**

Course ILOs matrix:

Courses	ILOs																																
	A																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Internal Medicine	X	X	X	X									X							X	X			X									
Cardiovascular Medicine					X	X	X	X	X	X	X	X																					
Neurology																													X	X	X	X	X
Chest Medicine																																	
Tropical Medicine														X	X																		
Psychiatry Medicine																X	X																
Rheumatology & Rehabilitation																		X	X		X												
Dermatology, Andrology & STDs.																						X	X										
Diagnostic Radiology																									X	X	X	X					
Clinical Pathology																																	

Courses	ILOs																																
	A									B																								
	34	35	36	37	38	39	40	41	42	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Internal Medicine					X	X				X	X	X	X	X	X	X	X	X	X									X				X	
Cardiovascular Medicine																			X	X	X												
Neurology																			X	X		X						X					
Chest Medicine	X	X	X	X									X						X								X						
Tropical Medicine														X					X			X											
Psychiatry Medicine										X			X	X																			
Rheumatology & Rehabilitation													X	X									X	X									
Dermatology, Andrology & STDs.										X		X																					
Diagnostic Radiology																			X						X	X							
Clinical Pathology					X	X	X	X	X																				X	X	X	X	X

Courses	ILOs																					
	C																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Internal Medicine	X	X	X	X	X	X	X	X	X	X												
Cardiovascular Medicine	X										X	X	X	X								
Neurology	X	X		X															**X**			
Chest Medicine	X			X																X	X	X
Tropical Medicine	X	X		X																		
Psychiatry Medicine															**X**	**X**						
Rheumatology & Rehabilitation	X	X	X																			
Dermatology, Andrology & STDs.	X	X																				
Diagnostic Radiology																	X	X				
Clinical Pathology																						

Courses	ILOs																										
	D																	E						F				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1	2	3	4	5	6	1	2	3	4	5
Internal Medicine	X	X	X	X	X	X	X	X	X									X	X	X	X	X	X	X	X	X	X	X
Cardiovascular Medicine	X			X	X			**X**			**X**																	
Neurology								**X**				**X**	**X**				X											
Chest Medicine	X				**X**			**X**																				
Tropical Medicine												X	X	X														
Psychiatry Medicine	X		X		**X**																							
Rheumatology & Rehabilitation															**X**	X												
Dermatology, Andrology & STDs.				**X**	**X**			**X**																				
Diagnostic Radiology																												
Clinical Pathology																												

Courses of General Medicine ILOs matrix:

Course	A	B	C	D	E	F
Gastroenterology and hepatology	A 1-3,13	B 1-5, 9	C1,2,5,6,10	D 1,2, 4,11	E 2-4, 5	F1-5
Endocrine/diabetes/ Metabolism/nutrition	A 1-3,	B 1-6,9,23	C 1,2,4-6	D 1-6 7-10	E 1-3, 6	F1-5
Hematology/oncology	A 1-3	B 1-6	C 1,2,4,5	D 1-4,6 7-10	E 1-3	F1,3,5
Nephrology	A 1-3	B 1-6	C 1,2,4-6	D1-3, 11 7-10	E 1,4-6	F3-5
Rheumatology /Immunology	A 1-3,20	B 1-5, 9,15	C 1,2,4,6	D1,3,5	E 1,2,5, 6	F1,4
General internal medicine (including fevers)/ Critical care medicine	A 1-4	B 1-6, 8,19	C 1,2, 4-6, 7,9,10	D 1-6, 7-10	E 1-6	F1,3,5
Procedural skills	A 3	B 5,7	C 7-11	D3-4,7,15	E 2-3, 6	F1-5
Geriatrics	A 2	B 3-5,7	C 1,2,6	D10,11,17	E 1.2,4-6	F1-5

4 – Teaching and Learning Methods

4.1- Lectures: Illustrated \ Interactive lectures with power point presentations in lecture halls which can accommodate moderate number of students.
4.2-Clinical bedside teaching and interactive tutorial: Clinical skills including history taking and clinical examination are taught for small groups (40 students each), and subgroups (around 10 students each) six days /week for 15weeks of rotation during the academic year.
4.3-Case studies (problem solving learning) and presentation of clinical cases by students supervised by clinical tutors.
4.4- Self learning: Solving case scenario and student presentation supervised by clinical tutors.
4.5- Skill Lab
4.6- Clinical Bed side.
4.7- Field visits to special medical units

5 – Student Assessment Methods

5.1 -	5.1-Multistation clinical examination:	to assess	Knowledge (A1- 37) , clinical examination skills C1-22 Intellectual skills (B1-24)
5.2 -	5.2-Case scenario on clinical topics	to assess	Intellectual skills (B1-24) Practical clinical skills (C1-22) knowledge and understanding (A1-37).
5.3 -	5.3-Short essay questions case scenario, and MCQ	to assess	Knowledge (A1- 42), Intellectual skills (B1-24) Clinical skills (C3-5).
5.4 -	5.3-Clinical/ oral final exam (a multi station clinical case discussion)	to assess	Intellectual (B1-24) , clinical skills (C1-22) & attitude (D1-17, E1-6, F1-5) Knowledge (A1- 37)
5.5 -	5.4-Skills and interpretation of laboratory data \ OSPE.	to assess	Practical (C8-11) , knowledge (A1-3) intellectual skills (B1-24)

Assessment Schedule & Weighting of Assessments:

Assessment 1	**Midterm exam (End of clinical round exam)** ***General Medicine:*** Multi-station clinical exam Clinical based case scenario exam Continuous assessment & logbook ***Special Medicine:*** Cardiology : OSCE(5 cases +short essay questions) Chest: OSCE and logbook Neurology OSCE Psychiatry MCQs exam Radiology MCQs exam Physiotherapy, rheumatology & rehabilitation: MCQs exam Dermatology OSCE Tropical Med. OSCE	 40 marks 25marks 10 marks 15 marks 17 marks 17 marks 9 marks 9 marks 9 marks 20 marks 9 marks	**20 %** **(180 marks)**

Assessment 2	**Final written Exam :** ***General & Special medicine:*** Short essay questions & case scenario (paper 1) Short essay questions (paper 2) MCQs (paper 3) Dermatology: MCQs Clinical pathology: MCQs	 130 marks 130 marks 130 marks 30 marks 30 marks	**50 %** **(450 marks)**
Assessment 3	**Final clinical and oral exam:** ***General & Special medicine:*** Clinical final exam multi-station case discussion Procedural skills X ray interpretation Dermatology (oral/clinical) Clinical pathology (oral)	 200 marks 20 marks 20 marks 20 marks 10 marks	**30%** **(270 marks)**
Total marks			**900 marks**

6 – List of References:

6.1- Course Notes	Handouts of lectures given by the staff of internal medicine department
6.2-Department website	Lectures in power point presentations are also available for the students on department website.: http://mansvu.mans.edu.eg/imd/
6.3- Essential Books	Kumar & Clark , Clinical Medicine (latest edition)
6.4- Recommended Books	Harrison principles of medicine (latest edition) Cecil Textbook of medicine Davidson's Principles and Practice of Medicine. Macleod's Clinical Examination by John Munro and C. Edwards A guide to physical examination, Barbara Bates
6.5- Periodicals, Web Sites,	MD consult, medicine, BMJ , NEJM……..

Cardio-Vascular Diseases	
6.1- Course Notes	
6.2- Essential Books	Chapter of Cardio-Vascular Diseases In Davidson's Text Book Medicine
6.3- Recommended Books	Harrison's Manual
6.4- Periodicals, Web Sites,	- Cardio Source - Med escape
Tropical Medicine	
6.1- Course Notes	
6.3- Recommended Books	Oxford Handbook of Tropical Medicine Handbook of Liver Diseases
6.4- Periodicals, Web Sites,	
Psychiatry	
6.1- Course Notes	Lectures in psychiatry, bystaff of the department
6.2- Essential Books :	Synopsis of psychiatry,Kaplan& Sadock's (text book)

6.3- Recommended Books	Current psychiatry(text book)
6.4- Periodicals, Web Sites,	American J & British J & J of psychosomatic medicine.
Rheumatology & Rehabilitation:	
6.1- Course Notes	Basics of Clinical Rheumatology and Rehahabilitation
6.2- Essential Books (Text Books)	- Kelly's Textbook of Rheumatology - Primer on The Rheumatic Diseases by Klipple
6.3- Recommended Books	ABC Rheumatology
6.4- Periodicals, Web Sites,	
Dermatology & Andorology	
6.1- Course Notes	Dermatology, Andrololgy & STDs: a book authorized by the department' staff members
6.2- Essential Books	Rook text book of dermatology, 2010. Blackwell company, USA-
6.3- Recommended Books	Andrology for the clinical skill, F comhair & T. Hargreve editor. Springer-Verlag Berlin Heidelberg 2006
6.4- Periodicals, Web Sites,	www.dermis.com
Radiology	
6.1- Course Notes	Radiology, student notes.
6.2- Essential Books	Text book of radiology and imaging
6.3- Recommended Books	
6.4- Periodicals, Web Sites,	Learning radiology.com, radiopedia, radiolopolis, pedrad.com
Neurology	
6.1- Course Notes	Handout of lectures.
6.2- Essential Books	Neurology in clinical practice.
6.3- Recommended Books	Department Book.
6.4- Periodicals, Web Sites,	http://emedicine.medscape.com/neurology.
Clinical Pathology	
6.1- Course Notes	Staff member lecture notes
6.2- Essential Books	Guide to clinical Patholoy
6.3- Recommended Books	Henry's clinical diagnosis and management by laboratory methods
Chest	
6.1- Course Notes	Handouts of lectures Lectures in power point presentations
6.2- Essential Books	Basics of Respiratory Medicine (Book of Chest Department)
6.3- Recommended Books	Fishman
6.4- Periodicals, Web Sites,	Emedicine, BMJ, ATS

7 – Facilities Required for Teaching and Learning

7.1. Lecture *halls* with data show availability:
At the Mansoura faculty of Medicine , Mansoura university hospital, and Specialized Medical Hospital .

7.2. *Seminar rooms* with couch for bed side teaching and interactive tutorials of small group teaching and instruments for procedural skills at Mansoura university hospital and Specialized Medical Hospital

7.3. *Skill lab* for training of students about procedural skills

7.4. A *student's log book* to follow the attendance of students and show their activities during the clinical training including self-learning and any formative assessment.

Course Coordinator :	**Prof Salah Elgamal**
Head of Department :	**Prof Salah Elgamal**

Mansoura University
Faculty of medicine
Internal Medicine Department

جامعـــة المنصـــورة
كلية الطب
أقسام الباطنه

السيد الأستاذ الدكتور / مدير وحدة الضمان والجودة

تحية طيبة وبعد

رداً على خطاب سيادتكم بشأن إعادة مراجعة توزيع الدرجات لمقرر الباطنة ، نرفق لسيادتكم كشف الدرجات بعد التعديل .

وتفضلوا بقبول فائق الاحترام ،،،

رئيس أقسام الباطنة العامة

ا.د /صلاح الجمل

المنصورة – ش الجمهورية تليفون وفاكس : ٢٢٠٢١٥١ / ٠٥٠ -Email: smhgimdept@mans.edu.eg

جامعـــة المنصـــورة
كلية الطب
أقسام الباطنه

Blue Print

Internal medicine branches	No. ofhours	Relative wt	Total marks	1st paper	2nd paper	3rd paper (Final MCQ)
Gastroenterology	11	6.5	25.2	35	------	15
Hepatology	15	8.8	34.25			15
Endocrinoloy	13	7.6	29.8	35	-------	10
Diabetes&	9	5.2	20.6			5
Metabolism (Nutrition)	2	1.1	4.2			5
Hematology and oncology	9	5.2	20	15	-------	5
Nephrology	10	5.8	22.8		20	3
Geriatrics	2	1.1	4.2		---------	5
General internal medicine and critical care	14	8.2	32	10	----------	22
Cardiology	18	10.5	41	35	--------	6
Chest	18	10.5	41	----------	35	6
Neurology	18	10.5	41	----------	35	6
Tropical medicine	12	7	27.5	--------	10	17
Rheumatology & clinical immunology	7	4.11	16	------	13	3
Rheumatology and rehabilitation	6	3.5	13.5	-------	12	2
Psychiatry	6	3.5	13.5	---	5	5
TOTAL MARKS				**130**	**130**	**130**

- **المجموعة الكلي لدرجات الورقة الأولى + الورقة الثانية + الورقة الثالثة = ١٣٠+١٣٠+١٣٠ = ٣٩٠ درجة**
- عدد ساعات الباطنة المحاضرات النظرية وفروعها ٢١٦ ساعة
- اجمالي عدد الدرجات في الامتحان النهائي التحريري = ٤٥٠ درجة
- عدد الساعات في امتحان الباطنة وفروعها (ورقة ١ و٢ و٣) ١٧٠ ساعة
- عدد الدرجات في امتحان الباطنة وفروعها (ورقة ١ و٢ و٣) = ١٣٠ + ١٣٠ + ١٣٠ = 390 درجة
- باقي الدرجات كما في اللائحة = 60 درجة

٣٠ درجة تحريري Clinical pathology (امتحان MCQ) + ٣٠ درجة تحريري Dermatology (امتحان MCQ)

- اجمالي عدد الدرجات في الامحانات النهائية التحريرية = ٣٩٠ +٦٠ = ٤٥٠ درجة

أ.د. صلاح الجمل
رئيس قسم الباطنة
كلية الطب

رئيس الأقسام

{ا.د /صلاح الجمل}

Mansoura University
Faculty of medicine
Internal medicine Department

****

Student's Logbook

Internal Medicine

Student's name:……

Student's ID: ……

Form:……**To:**……

Head of Department

Prof. Salah El-Gamal

Course Specifications

Internal medicine
2013/2014

Faculty: Mansoura Faculty of Medicine.
Department: Internal Medicine.
Course Specifications:

1. Program on which the course is given: MBBCh
2. Department offering the program: Internal (General) Medicine.

3. Department offering the course:

General medicine department including the following specialties:
Gastroenterology and hepatology,
Endocrinology,diabetes and metabolism,
Geriatrics,
Hematology and oncology,
Nephrology,
Rheumatology and immunology,
Infectious disease and fevers,
Emergency medicine and general internal medicine.

4. Academic year/ level: 2013/2014
5. Date of specification approval: 24-9-2013

A. Basic information

1. Title: Internal medicine course for undergraduate students. Code: **MED**
2. Lectures : 92 hours.
   Tutorial/clinical : 18h / week (15 weeks)

B. Professional Information

Overall Aims of Course:
a. Students should acquire a KNOWLEDGE AND UNDERSTANDING of common diseases and life threatening illnesses related to internal medicine and its prevention and management.

b. Students should acquire and become proficient in basic clinical SKILLS, such as the ability to obtain a patient's history, to perform a comprehensive physical examination and to interpret the findings, to formulate a treatment plan and to demonstrate competence in the performance of basic technical procedures.

c. Students should acquire and demonstrate ATTITUDES that foster patient centered care and support the highest standards of the medical professionand to develop the habits of self learning and self development.

Intended learning Outcomes of the Course (ILOs):

A .Knowledge& Understanding:

By the end of the course, the medical graduate will be able to;

A.1. Identify altered structure and function of the body and its major systems that are seen in various diseases and integrate it in clinical conditions.

A.2. Express etiology, pathogenesis, clinical features, diagnoses and complications of common and life threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum from adolescents to elderly.

A.3. Define principles of management of common and life threatening illnesses Including:

A.3.1. Pharmacological and non pharmacological basics of therapy.

A.3.2. Non invasive and invasive interventions (e.g. endoscopy, aspiration of body fluids …).

A.3.3. Basic pre- and post-operative care (in cases of medical disorders such as diabetes ,hypertension, Addison's disease……..)

A.3.4. Pain relief and palliative care in case of end organ failure.

A.4. Explain Basics of ethics, medico legal aspects of health problems, malpractice and common medical errors.

A.5. Explain Basics of health, patient's safety and safety procedures during practical and clinical years.

A.6. Identify common medical illnesses with multi-system reflections

A.7. Describe the principles of evidence based medicine (EBM).

B- Intellectual skills:

By the end of the program, the medical graduate will be able to;

B.1. Integrate basic biomedical science with clinical care.

B .2. Reason deductively in solving clinical problems:

B *.2.1. Prioritize clinical problems.*

B *.2.2. Evaluate information objectively, recognizing its limitations.*

B.3. Use personal judgment for analytical and critical problem solving.

B.4. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation of various medical conditions including gastrointestinal, hepatic, endocrinal, renal , hematological, infectious diseases, rheumatological and general medical diseases.

B.5. Construct appropriate management strategies for patients with common diseases, both acute and chronic, including gastrointestinal, hepatic, diabetes, endocrinal, renal , hematological, infectious diseases ,rheumatological and general medical diseases.

B.6. Design an initial course of management for stabilization of patients with serious illnesses.

B.7. Classify factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.

B.8. Evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

B.9. Recognize and cope with uncertainty that is unavoidable in the practice of medicine by accepting and reacting to uncertain situation through proper counseling, consultation and referral.

B.10. Design a research and apply scientific methods through:

B.10*.1. Formulation of research questions that is pertinent to medicine.*

B.10*.2. Recognition of the importance of precision in collecting, analyzing and interpreting medical data.*

C. Clinical Skills

By the end of the course, the medical graduate will be able to;

C.1. Take and record a structured, patient centered history.

C.2. Perform full physical examination of patients with acute and chronic clinical conditions appropriate to the age, gender, acute and chronic clinical conditions while being culturally sensitive.

C.3. Record patients ' data appropriately.

C.4. Formulate management plans for common diseases and acute emergencies.

C.5. Write safe prescriptions of different types of drugs based on patient's weight, age and health condition.

C.6. Provide first aid measures for injured and critically ill patients.

Practical technical and procedural skills:

C.7. Demonstrate competency in cardiopulmonary resuscitation and basic life-support.

C.8. Perform and interpret basic bedside laboratory tests.

C.9. Insert a nasogastric tube.

C. 10. Adopt suitable measures for infection control.

C. 11. Demonstrate how to perform paracenthesisabdominis and insert a Sungstaken tube**.**

D. General and transferable skills:

By the end of the program, the medical graduate will be able to;

D.1. Adopt principles of the lifelong learning needs of the medical profession.

D.**2**. Use information and communication technology effectively in the field of medical practice.

D.**3**. Retrieve, manage, and manipulate information by all means, including electronic means.

D.**4**. Present information clearly in written, electronic and oral forms.

D.**5**. Communicate ideas and arguments effectively.

D.**6**. Work effectively within a team.

D.**7**. Analyze and use numerical data including the use of simple statistical methods.

D.8. Use Evidence Based Medicine in management decisions.

D.9. Effectively manage time and resources and set priorities.

D.10. Work efficiently within the health care team and as an effective team leader.

D.11. Solve problems related to patients, work management, and among colleagues.

D.12. Cope with a changing work environment.

D.13. Apply safety and infection control measures during practice.

D.14. Evaluate their work and that of others using constructive feed back.

E- Professional attitude:

By the end of the course, the medical graduate will be able to;

E.1. Adopt an empathic and holistic approach to the patients and their problems.

E.2. Respect patients' rights and involve them and /or their caretakers in management decisions.

E.3. Understand and respect the different cultural beliefs and values in the community they serve.

E.4. Recognize the important role played by other health care professions in patients' management.

E.5. Be aware of and understand the national code of ethics issued by the Egyptian

Medical Syndicate.
E.6. Counsel Patients and families suffering from different conditions.
E.7. Recognize one's own limitations of knowledge and skills and refer patients to appropriate health facility at the appropriate stage.
E.8. Ensure confidentiality and privacy of patients'information.
E.9. Treat all patients equally, and avoid stigmatizing any category regardless of believes, culture, and behaviors.
E.10. Demonstrate respect and work cooperatively with other health care professions for effective patient management.
E.11. Be willing to share in all types of inter-professional activities including collaborative and shared learning
E.12. Ensure the cost effectiveness of health care management.
E.13. Notify/report about any physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.

F- Communication skills:
Graduates should be able to practice the following:
F.1. Communicate clearly, sensitively and effectively with patients and their relatives,and colleagues from a variety of health and social care professions.
F.2. Communicate effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.
F.3. Cope with situations where communication is difficult including breaking bad news.
F.4. Show compassion to the patients and their relatives in situations of stress and grief.
F.5. Honor and respect patients and their relatives, superiors, colleagues and any other member of the health profession.

Contents:

Topic	Lecture	Tutorial/clinical
Gastroenterology & **Hepatology.**	**11** **15**	**8 clinical rounds** **12 clinical rounds**
Endocrinology, **diabetes and metabolism** **Nutrition**	**13** **9** **2**	**12 clinical rounds** **8 clinical rounds** **2**
Hematology and oncology	**9**	**8 clinical rounds**
Nephrology	**10**	**8 clinical rounds**
Rheumatology & clinical immunology	**7**	**8 clinical rounds**
Geriatrics	**2**	**2 clinical rounds**
General medicine **Fevers & infectious diseases** **Emergency medicine** **Differential diagnosis**	**14**	**12 clinical rounds**
Case taking and clinical examination. **Procedural skills.**		**6 clinical rounds** **4 clinical round**
Total	**92 hours**	**270 hours** **(15 weeks, 6 rounds /week, each round 3 hours)**

Topics covered through the course:

Topics	Number of teaching hours	
	lectures	Tutorial /clinical
GASTROENTEROLOGY & HEPATOLOGY	**Total (26)**	**(20 rounds)**
GASTROENTEROLOGY 1. Approach to a patient with gastrointestinal disease 2. Oesophageal Diseases: Dysphagia, GERD 3. Peptic Ulcer Diseases & related disorders 4. Malabsorption syndrome 5. Diarrhea 6. Constipation 7. Irritable Bowel Syndrome 8. Inflammatory Bowel Disease 9. Upper GIT bleeding 10. Lower GIT bleeding 11. GIT malignancies	**11**	**8**
HEPATOLOGY 1. Acute Hepatitis 2. Chronic Hepatitis I 3. Chronic Hepatitis II 4. Acute liver failure 5. Liver cirrhosis and Chronic liver failure 6. Ascites 7. Portal hypertension 8. Hepatic encephalopathy 9. Hepatorenal syndrome, HPS 10. Non viral hepatitis Non alcoholic fatty liver disease, Wilson disease, hemochromatosis & others. 11. Liver Tumours& Hepatomegaly (differential diagnosis) 12. Jaundice &cholestasis . 13. Liver transplantation. 14. Pancreatic Diseases 15. Gall bladder Diseases	**15**	**12**

ENDOCRINOLOGY, DIABETES , METABOLISM & NUTRITION	Total (24)	22
ENDOCRINOLOGY 1. Approach to a patient with endocrinal disorder 2. Pituitary Disorders – I Hypopituitarism , diabetes insipidus Short stature in adults 3. Pituitary Disorders – II Acromegaly, differential diagnosis of tall stature. SIADH 4. Metabolic Bone Disease: Osteoporosis and osteomalacia 5. Disorders of the Parathyroid Glands: Hypo- and hypercalcemia 6. Adrenal Disorders – I Cushing syndrome Conn's syndrome Pheochromocytoma 7. Adrenal Disorders – II Addison disease Acute suprarenal failure 8. Hypothyroidism 9. Hyperthyroidism 10. Other thyroid disorders : Goiter, thyroiditis, thyroid emergencies. 11. Gonadal disorders 12. Common presentations of endocrine disorders (including Hirsutism and hyperprolactinemia) 13. Case scenarios in Endocrinology	13	12
DIABETES&METABOLISM: 1. Classification , Clinical Aspects & a. Diagnosis of DM. 2. Acute complications of diabetes I 3. Acute complications of diabetes II 4. Chronic complications of diabetes I 5. Chronic complications of diabetes II 6. Management of Diabetes I 7. Management of Diabetes II 8. Hypoglycemia 9. Lipid disorders	9 2	8 2
NUTRITION 1. Obesity & Metabolic syndrome 2. Assessment of nutrition & Nutritional deficiencies		

GERIATRICS **1. Introduction to geriatric medicine I** **2. Introduction to geriatric medicine II**	**2**	**2**
ONCOLOGY / HAEMATOLOGY **1. Anemia – I** **Iron deficiency anemia** **Megaloblastic anemia** **2. Anemia – II** **Aplastic anemia** **Hemolytic anemia** **3. Blood transfusion (clinical aspects)** **4. Acute Leukemia** **5. Chronic Leukemia** **6. Myeloproliferative Disorders** **Polycythemia** **Multiple myloma** **7. Lymphoma** **8. Haemorrhagic disorders I** **9. Haemorrhagic disorders II**	**9**	**8**
RHEUMATOLOGY and CLINICAL IMMUNOLOGY: **1. SLE & Lupus related syndromes I** **2. SLE & Lupus related syndromes II** **3. Rheumatoid arthritis (systemic manifestations and treatment)** **4. Seronegativearthropathies.** **5. Progressive Systemic Sclerosis & Myositis.** **6. Vasculitis** **7. Differential diagnosis of arthritis**	**7**	**8**
NEPHROLOGY **1. Common symptomatology of a renal patient I** **2. Common symptomatology of a renal patient II** **3. Evaluation of patient with kidney disease** **4. Acute kidney injury I** **5. Acute kidney injury II** **6. Chronic Kidney disease I** **7. Chronic Kidney disease II** **8. Fluid and Electrolyte disturbance.** **9. Acid Base Balance** **10. Drugs and Kidney**	**10**	**8**

GENERAL INTERNAL MEDICINE **EMERGENCY MEDICINE** **FEVERS and INFECTIOUS DISEASES** **1. Evidence based medicine (EBM) principles** **2. Iatrogenic disorders:** **3. Nanotechnology in medicine** **4. Principles of Regenerative medicine** **5. Medical ethics** **6. Patterns of fevers, Hyperpyrexia , hypothermia, Bacteremia and Septicemia.** **7. Emergency medicine: Sudden death & resuscitation & Care of critically ill patient.** **8. Common differential diagnosis in medicine I** **Pyrexia of unknown origin (infectious and non infectious causes).** **9. Common differential diagnosis in medicine II** **a. Fatigue and chronic fatigue syndrome** **b. Dyspnea** **10. Common differential diagnosis in medicine III** **a. Polyuria** **b. Oedema** **11. Common differential diagnosis in medicine** **Non surgical causes of abdominal pain** **12. Common differential diagnosis in medicine I** **Lymphadenopathy** **13. Case scenarios in internal medicine I** **14. Case scenarios in internal medicine II**	**14**	**12**
General approach to history taking and clinical (general and local) examination		**6**
PROCEDURAL SKILLS : **At the end of the course the student will be able to:** • **Identify the medical instruments used for liver biopsy,nasogastric and Sungstaken tube.** • **Predict and describe the indications, contraindications, precautions and possible complications of such procedures.** • **Demonstrate competency on cardiopulmonary resuscitation and basic life support.**		**4 clinical rounds** **1 skill lab**

N.B. *Other topics of internal medicine are covered by special medicine departments including cardiology ,chest, neurology , radiology , clinical pathology , psychiatry , dermatology, tropical medicine and rheumatology & rehabilitation .*

Course ILOs matrix:

Course	A	B	C	D	E	F
Gastroenterol/hepatol	A 1-3, 6,7	B 1-5, 9	C1,2,5,6,10 ,11	D 1,2, 4,11	E 2-4, 6-12	F1-5
Endocrine/diabetes Metabolism/nutrition	A 1-3, 6,7	B 1-6,9	C 1,2,4-6	D 1-6	E 1-4, 7-10	F1-5
Hematology/oncology	A 1-3,5,6	B 1-6	C 1,2,4,5	D 1-4,6	E 1-4	F1,3,5
Nephrology	A 1-3	B 1-6	C 1,2,4-6	D1-3,11	E 1,7-9	F3-5
Rheumatol /Immunol	A 1-3,7	B 1-5,9	C 1,2,4,6	D1,3,5	E 1,2,6, 7,8	F1,4
Fevers/infectious dis	A 1-3,7	B 3-5	C1,2,5,6,10	D1,2,4, 13	E 1,8,9	F1,2,5
General intern med/ Emergency med	A 1-4, 7,8	B 1-6, 8-10	C 1,2,4-6	D 1-5, 8-10	E 1,2 7-12	F1,3,5
Procedural skills	A 3,6	B 5,7	C 7-11	D 6,13	E 2-4, 7-10	F1
Geriatrics	A 2	B 3-5,7	C 1,2,6	D11	E 6,9	F1-5

4 – Teaching and Learning Methods

4.1- *Lectures:* Illustrated lectures with power point presentations in lecture halls which can accommodate moderate number of students.

4.2-*Clinical bedside teaching and interactive tutorial:*
Clinical skills including history taking and clinical examination are taught for small groups (40 students each), and subgroups(around 10 students each) six days /week for 15weeks of rotation during the academic year.

4.3-Case studies (*problem solving learning*) and presentation of clinical cases by students supervised by clinical tutors.

4.4-*Self learning* :
Solving case scenario and student presentation supervised by clinical tutors.

5 – Student Assessment Methods:

5.1 -	**5.1-Multistation clinical examination:**	**to assess**	**Knowledge (A1-7) , clinical examination skills C1-6) Intellectual skills (B1-10)**
5.2 -	**5.2-Case scenario on clinical topics**	**to assess**	**Intellectual skills (B1-10) practical clinical skills (C1-11) and knowledge and understanding (A1-7).**

5.3 -	**5.3-Short essay questions and a case scenario (written final exam paper 1 &2)**	**to assess**	**Knowledge (A1-7), intellectual and analytical skills (B1-10) and clinical skills (C3-5).**
5.4 -	**5.3-Clinical/ oral final exam (a multi station clinical case discussion)**	**to assess**	**Knowledge (A1-7), Intellectual (B1-10) , clinical skills (C1-11) attitude**
5.5 -	**5.4-Skills and interpretation of laboratory data.**	**to assess**	**Practical (C8-11) , knowledge (A7) intellectual skills (B1-10)**

Assessment Schedule :

20% midterm , 30% clinical /oral and 50% final written exam.

Assessment 1	**Midterm exam (at the end of clinical round)** **Multi-station clinical exam …….. 40 marks** **Clinical based case scenario exam ……....25marks** **Continuous assessment & logbook……..10 marks**
Assessment 2	**Final written Exam:** **(general +special medicine)** **Short essay and a case scenario in paper 1** **Short essay paper 2** **MCQs paper 3.** **(130 marks each)** **+ Dermatology and clinical pathology**
Assessment 3	**Final oral exam** **Procedures skills …….20 marks** **X ray interpretation……...20 marks** **Dermatology (oral +MCQs).** **Clinical pathology (oral+MCQs)**
Assessment 4	**Final clinical exam: …….200 marks** **multi-station case discussion.** **(general +special medicine)**

Continuous assessment include :

Case taking in clinical rounds to assess clinical, intellectual and communication skills and interpretation of clinical and investigation data to reach logic differential diagnosis.

6– List of References:

6.1- Course Notes	**Handouts of lectures given by the staff of internal medicine department**
6.2-Department website	**Lectures in power point presentations are also available for the students on department website. http://mansvu.mans.edu.eg/imd/**
6.3- Essential Books (Text Books)	**Kumar & Clark , Clinical Medicine (latest edition)**
6.4- Recommended Books	**Harrison principles of medicine (latest edition) Cecil Textbook of medicine Davidson's Principles and Practice of Medicine. Macleod's Clinical Examination by John Munro and C. Edwards A guide to physical examination, Barbara Bates**
6.5- Periodicals, Web Sites, …etc	**MDconsult, emdicine, BMJ , NEJM……..**

7 – Facilities Required for Teaching and Learning:

7.1. Lecture *halls* with data show availabililty:
At the Mansoura faculty of Medicine , Mansoura university hospital, and Specialized Medical Hospital .
7.2. *Seminar rooms* with couch for bed side teaching and interactive tutorials of small group teaching and instruments for procedural skills at Mansoura university hospital and Specialized Medical Hospital
7.3. *Skill lab* for training of students about procedural skills
7.4. A *student'slog book* to follow the attendance of students and show their activities during the clinical training including self-learning and any formative assessment.

Course Coordinator :	**Prof Salah Elgamal Prof Omayma Saleh Prof ManalTarshouby**
Head of Department :	**Prof Salah Elgamal**

Student Instructions

- This book is a document of student attendance and activities during Internal Medicine clinical rotation.
- Attendance should be more than 70% of the actual Teaching hours to be admitted to the end of rotation exam.
- Each student is required to present at least 2 clinical cases over the whole rotation (14 weeks); documentation in the logbook and signature of the supervising Professor is mandatory.
- Each student is scheduled for bedside teaching twice or three times per week, and for skill lab once in the whole rotation.
- Documentation of skills acquired in Bedside teaching and Skill lab session with supervisor signature is required.

COMPLETE Logbook MUST be turned in to the teaching center coordinator by the last day of week 13 of rotation.

Internal Medicine Clinical training Schedule

Duration	Rotation	Starting Time
1st week	Orientation History taking and general examination	----/---/--
4 week	GIT &Hepatology	---/---/--
4 Weeks	Endocrinology, Diabetes, Metabolism, Nutrition & geriatric	---/---/----
4 Weeks	General Medicine, Nephrology, Rheumatology, Immunology, Heamatology and Oncology	---/---/----
Final week	End of rotation Exam	
Total 14 Weeks		

Student need to write down the starting date of each rotation.
Student need to fill the following activities date and details as required
Bedside teaching and skill lab session start after the orientation week.
Bedside teaching in wards at 9:30am to 10:30am according to schedule
Skill lab on Sunday 3:00 pm in the faculty of Medicine

- *Please contact teaching center in cardiology department for your schedule.*

GIT &Hepatology Rotation

	Date	Clinical case
1		
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24		

Endocrinology, Diabetes, Metabolism, Nutrition & geriatric Rotation

	Date	Clinical case
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General Medicine, Nephrology, Rheumatology, Immunology, Heamatology and Oncology Rotation

	Date	Clinical case
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Bedside teaching

	Date	Learning points	Signature
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24			

Skill Lab

Date	Skills learned	Supervisor Signature

Professor name: **Date: / /**

Case Number:1

History:

Personal history: ……

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Complaint:

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Present history:

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Past history:

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Family history:

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General examination

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Examination of the abdomen:

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Chest examination:

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Cardiac examination:

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Interpretation of clinical data

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Differential diagnosis

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Suggested investigations

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Lines of treatment

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Professor name: **Date: / /**

Case Number: 2

History:

Personal history: ……

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Complaint:

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Present history:

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Past history:

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Family history:

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General examination

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Examination of the abdomen:

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Chest examination:

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Cardiac examination:

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Interpretation of clinical data

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Differential diagnosis

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Suggested investigations

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Lines of treatment

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