



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Internal Medicine

Course Specifications

Internal Medicine fifth Year

2011-2012

Internal Medicine fifth Year Course specifications

University: T anta

Faculty: Medicine

Department: Internal medicine

1-Administrative Information

- **Course title: Internal Medicine**
- **Code: TMED.05:01**
- **Department offering the course: Internal Medicine**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Departments offering the program: Internal Medicine**
- **Academic year/ Level: 2011/ 2012 / 5th. year of M.B.B.Ch**
- **Semester in which the course is given: 2010-2011(whole academic year)**
- **Date of specifications /revision:**
- **Date of approval by departmental/faculty council : 18-9-2011 / 21-9-2011**
- **Taught hours:**
 - **Lectures : 216 hrs (9 hours /week)**
 - **Tutorial : 432hrs (18 hours /week)**
 - **Practical :**
 - **Others:**
 - **Total : 648hrs(27 hours /week)**

2 – Overall Course Aims

- To provide students with knowledge and understanding of health and its promotion, and of diseases, its prevention and management, and to cover medical emergencies in the context of whole individual and his/her place in family and community.
- To enable the students to acquire and become efficient in basic clinical skills as history taking, physical and mental examination, interpreting diagnostic investigation and sharing treatment plan. The student should be competent in doing of a limited number of basic technical procedures.
- To enable the student to acquire and demonstrate attitudes necessary for achievement of high standards of medical practice including lifelong continuous medical education (CME).

3- Intended learning outcomes (ILOs):

a) knowledge and understanding:

- a1 outline the normal structure and function of the human body and mind at the molecular, cellular and organ level and the total body values.

- a2 Outline the normal growth and development of the human body and mind throughout different life stages, including clinically relevant age and sex variations.
- a3 Infer etiology of illness and disease.
- a4 Infer the altered development, growth, structure and function of the body and mind that occur as a result of disease.
- a5 Recognize the principles of genetics and the role of genetics in health and disease, as well as, the basics of gene therapy and genetic counseling.
- a6 Know common disease's clinical manifestations and differential diagnosis with emphasis on the importance of their relative incidences in establishing the diagnosis.
- a7 Outline the principles of early diagnosis of malignancy and screening
- a8 Identify the principles of early recognition and management of acute illnesses; including common medical cases
- a9 Identify the principles, indications, the relative advantages and disadvantage of various management strategies applied to common clinical situations.
- a10 Infer natural history of common illnesses with understanding of the importance of risk factors and disease prevention.
- a11 Describe the principles of problem solving using a comprehensive knowledge base. Infer the pharmacological principles of treatment including: drug effects/pharmacokinetics, dosage, drug-drug interactions and adverse reactions.
- a12 Label the principles of non-pharmacological therapies, and their role in disease management.
- a13 Infer the ethical aspects of medical practice, and laws related to medical practice.

b) Intellectual skills

- b1 Interpret the results of commonly used diagnostic procedures (laboratory and radiological).
- b2 Illustrate patients with life / organ threatening conditions
- b3 The ability to evaluate their current medical practice aiming to update and improve it.
- b4 Express Skills in solving clinical problems:
 - a. Recognize, define and prioritize problems.
 - b. Interpret, analyze, and evaluate information objectively, recognizing its limitations.
- b5 Analyse and Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.
- b6 Classify factors that place individuals at risk for disease to determine strategies for appropriate response.

c) Professional & practical skills

- c1 Record a complete or focused medical history in the outpatient, inpatient or emergency settings.
- c2 Perform and record a complete or focused physical and mental examination.
- c3 Construct diagnosis by patient's symptoms and physical signs in terms of anatomic, pathologic and functional diagnostic significances

- c4 Report problems and select the most appropriate and cost effective diagnostic procedures for each problem.
- c5 Apply available facilities for early recognition and management of acute illnesses; including common medical problems
- c6 Manage the patient as a person, not as a disease and understand that patients are human beings with beliefs, values, goals and concerns which must be respected.
- c7 Perform basic clinical procedures under strict supervision.

d) General transferable skills

- d1 Conduct patient interviews that are characterized by patience and attentive listening.
- d2 Demonstrate understanding of the differences in beliefs and backgrounds among them.
- d3 Explain to patients and their families the clinical investigation's findings in relation to possible courses of therapy including indications, risks, benefits and alternatives as well as plans for follow up.
- d4 Achieve consensus and obtain informed consent from the patient or the patient's surrogate for the treatment plan.
- d5 Ask for senior consultation when needed.
- d6 Give accurate and clear oral summaries of the patient's illness.
- d7 Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.
- d8 Write clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.
- d9 List his/her personal weaknesses through accurate self-assessment and/or supervisors and colleagues and actively set a clear learning plan to address these weaknesses.
- d10 Utilize the resources of biomedical information including the available electronic facilities to update his/her knowledge
- d11 Decide and respect the role of other health care professionals, and the need to collaborate with others in caring of individual patients

4- Topics (Contents of the course)

Topic	Lectures (hrs)	Practical/ small groups (weeks)
Cardiovascular	12	5 weeks (specialties) each for each branch
Respiratory	12	
Infections	8	
Physical Medicine	5	
Radiology	5	
Neurology	16	4 weeks
Psychiatry	8	
GIT& Hepatology	26	(general medicine) 12 weeks
Hematology	15	

Nephrology	18		
Rheumatology	10		
Endocrinology & nutrition	22		
Geriatric	2		
Genetics	2		
Ethics & Law	1		
Symptomatology	6		
Emergency	3		
Immunology	2		
Skin & venereal diseases	24		3 weeks
Clinical pathology	16		No practical small groups
MCQ	3		
<i>Total</i>	216	24	

5-Teaching and learning methods

5.1. Illustrated lectures: Large group plenary sessions in lecture theaters are time tabled; they set the scene for a topic, highlight important issues and arouse curiosity in relevant areas.

5.2. Clinical rounds: Tutors demonstrate the core practical clinical skills and students practice these skills on patient's under supervision for 3 hours daily.

5.3. Problem based learning: to study written descriptions of clinical situations.

5.4. Tutorial (small groups): For giving introduction, indications and interpretations of clinical laboratory tests, radiography and electrocardiography, illustration of internal medicine objectives using data show and movies.

5.5. Teaching plan:

	Time	Method
Session I	8:00 –11:00 AM	Medical clinical course/ *Illustration of the objectives (by assistant lecturer *Full clinical examination (history, general and local examination, investigation and treatment. *Interactive sessions (MCQ , Problem solving and QUIZ on the clinical case)
	(8:00 -9 :00)	
	(9:00 -11:00)	
session II	11:30 AM–12:30 PM	Lectures (Saturday , Monday and Wednesday) Internal Medicine Lectures (Sunday , Tuesday and Thursday Specialties
	12:30 - 1:30 PM	
	1:30 -2:30 PM	

i. Lectures

Symptomatology & Physical Signs

a) Cardinal symptoms of the cardiac disease:

- | | |
|---------------|----------------|
| 1. Dyspnea | 3. Palpitation |
| 2. Chest pain | 4. Syncope . |

b) Cardinal symptoms of the chest disease:

- | | |
|----------------------------|-----------|
| 1. Cough and expectoration | 2. Wheeze |
|----------------------------|-----------|

3. Cyanosis
4. Hemoptysis

5. Dyspnea
6. Chest pain

c) Cardinal symptoms of gastrointestinal disease:

1. Dysphagia
2. Dyspepsia , heart burn , regurgitation , water brush , nausea and vomiting .
3. Abdominal pain
4. Gastrointestinal hemorrhage

5. Disorders of defecation
6. Flatulence and hiccup .
7. Jaundice
8. Fatigue

d) Others:

1. Abnormalities of urine
2. Oedema

3. Diagnostic approach for arthritis
4. Loss of weight.

e) Ethics and Law

1. Informed consent
2. Life, Death, Dying and Killing
3. Organ transplantation
4. Refusal of treatment

5. Autonomy
6. Confidentiality and good clinical practice

f) Geriatric medicine

1. Effect of aging on body systems
2. CVS disorders in the elderly
3. Diabetes in the elderly
4. Hypertension in the elderly
5. Falls

6. Cognitive disorders in the elderly
7. Delirium in the elderly
8. Senile osteoporosis
9. Urinary incontinence
10. Prescribing for the elderly

g) Genetics

1. Nucleic acids
2. Recombinant DNA technology
3. Chromosomal abnormalities

4. Regulation of gene expression
5. Immunogenetics

h) Cardiology

1. Rheumatic fever
2. Infective endocarditis
3. Ischemic heart disease
4. Systemic hypertension
5. Cor Pulmonale
6. Pulmonary embolism
7. Arrhythmia

8. Heart failure
9. Pericarditis
10. Large vessel disease
11. Cardiovascular drugs
12. Cardiomyopathy
13. Congenital heart disease.

i) Respiratory system

1. Diseases of the pleura.
2. Chronic bronchitis and bronchial asthma
3. Emphysema
4. Pneumonias
5. Bronchiectasis

6. Lung abscess
7. Pulmonary TB
8. Drug induced pulmonary disease
9. Mediastinal syndrome
10. Adult respiratory distress syndrome

11. Respiratory failure

12. Bronchial carcinoma

j) GIT and hepatology

1. Diseases of the mouth

2. Diseases of the esophagus

3. Diseases of the stomach & duodenum

4. Peptic ulcer

5. Gastrointestinal malignancy

6. Diseases of the small intestine

7. Malabsorption syndrome

8. Diseases of the large intestine

9. Diseases of the pancreas

10. Diseases of the peritoneum

11. Diarrheas and dysenteries

12. Gall bladder diseases

k) Hematology/ Oncology

1. Hematopoiesis

2. Iron deficiency anemia

3. Sideroblastic anemia

4. Megaloblastic anemia

5. Hemolytic anemia

6. Polycythemia

7. Multiple myeloma

8. Leukemias

l) Nephrology

1. Structure and function

2. Major clinical syndromes in nephrology

3. Acute renal failure

4. Chronic renal failure

5. Nephrotic syndrome

6. Nephritic syndrome

7. Interstitial and tubular disease

8. Drug nephrotoxicity

m) Rheumatology

1. Rheumatoid arthritis

2. Systemic lupus erythematosus

3. Scleroderma

4. Sjogren's syndrome

5. Polymyalgia rheumatica

6. Behcet's syndrome

13. Occupational lung disease

13. Functional colonic disorders

14. Inflammatory bowel disease

15. Disorders of GI motility

16. Jaundice

17. Acute hepatitis

18. Chronic hepatitis

19. Cirrhosis

20. Portal hypertension

21. Upper GI bleeding

22. Hepatocellular failure

23. Liver transplantation

24. vascular diseases of GIT

9. Lymphoma

10. Myeloproliferative disorders

11. Bleeding and clotting disorders

12. Spleen

13. Blood transfusion

14. BM transplantation

15. Thrombophilias

16. Lymphadenopathy

9. Water, electrolyte and acid base balance

10. Renal replacement therapy

11. Kidney in systemic diseases

12. Obstructive nephropathy

13. Investigations of renal disease

14. Tumors of the urinary tract

7. Polymyositis and dermatomyositis

8. Mixed connective tissue disease

9. Seronegative spondyloarthropathies

10. Osteoarthritis & Osteoporosis

11. Infective arthritis & Reactive arthritis

n) Infections

1. Enteric fevers
2. Brucellosis
3. Meningitis
4. Schistosomiasis
5. Amebiasis
6. Malaria
7. Infectious mononucleosis
8. Cytomegalovirus
9. HIV
10. Cholera
11. Plague
12. Toxoplasmosis
13. PUO
14. Rabies
15. Diagnosis of parasitic diseases
16. Filariasis
17. Fascioliasis
18. Measles, mumps, Influenza

o) Endocrinology & Metabolism

1. Acromegaly and other pituitary tumors
2. Sheehan's and other hypopituitary disorders
3. Stunted growth
4. Diabetes insipidus and SIADH
5. Diseases of thyroid gland.
6. Hyperparathyroidism and metabolic bone disease
7. Tetany and calcium homeostasis
8. Gushing syndrome
9. Addison's
10. Pheochromocytoma
11. Obesity
12. Diabetes
13. Hypoglycemia
14. Dyslipidemias
15. Vitamins
16. Nutritional deficiency
17. Gonadal disorders
18. Endocrine emergencies.

p) Neurology

1. Neuroanatomy, neurophysiology and organization of the nervous system.
2. Higher cortical functions.
3. Diagnosis and investigations in neurology.
4. Cranial nerve disorders.
5. Cerebrovascular disorders.
6. Movement disorders.
7. Inflammatory and demyelinating disorders.
8. Degenerative disorders.
9. Neuropathy.
10. Myopathy and myasthenia gravis.
11. Epilepsy
12. Headache and brain tumors.
13. Spinal cord, cauda equine disorders and neurogenic bladder.
14. Spondylosis and sciatica

q) Psychiatry

1. Introduction.
2. Etiology.
3. Symptomology.
4. Treatment.
5. Anxiety disorders
6. OCD.
7. Hysteria.
8. Mood disorders.
9. Schizophrenia.
10. Substance abuse.
11. Child psychiatry.
12. Dementia.
13. Psychiatric emergency.

r) Clinical pathology

a. Hematology:

- | | |
|------------------------------------|--|
| 1. Leukocyte disorders & leukemias | 5. Clinical enzymology Organ functions |
| 2. Haemostatic disorders | Endocrine functions |
| 3. Blood transfusion | 6. Metabolic disorders of |
| 4. Red cell disorders and anemias | carbohydrate, lipids& proteins |

b. Clinical chemistry:

- | | |
|-----------------------|------------------------------|
| 1. Acid base | 3. Tumor markers |
| 2. Mineral metabolism | 4. CSF, Transudate & Exudate |

c- Immunology:

1. Immunodeficiency
2. Hypersensitivity
3. Autoimmunity

d- Clinical Microbiology:

1. Bacteraemia & septicemia

Skin and venereal diseases:

- Introduction about the skin Infections of the skin:

1. Bacterial; Impetigo, erysipelas and cellulites.
2. Mycobacterial; leprosy
3. Viral; herpes viruses (herpes simplex, varicella, herpes zoster), human papilloma virus (verruca) and pox virus (molluscum)
4. Parasitic; scabies, pediculosis
5. Fungal; tinea, candidiasis, pityriasis versicolour.

-Papulosquamous diseases:

1. Psoriasis
2. Lichen planus
3. Pityriasis rubra pilaris
4. Pityriasis rosea Diseases of sebaceous glands:
 - a. Acne vulgaris

-Disorders of melanin pigmentation:

1. Hypomelanosis D.D. Vitilligo

-Hypersensitivity disorders:

1. Urticaria
2. Papular urticaria Eczema
3. Erythema multiforme
4. Erythema nodosum

Disorders of hair: Alopecia

-Sexually transmitted diseases:

1. HIV

2. Syphilis
3. Gonorrhoea
4. urethritis
5. Chancroid, lymphogranuloma venereum, and granuloma inguinale

II) - Clinical Cases

Cardiology:

1. Case taking
2. Valvular disease
3. Ischemic heart disease
4. Hypertension
5. Cor Pulmonale
6. Cardiovascular
7. Arrhythmia
8. Large vessel disease
9. Cardiomyopathy
10. Congenital heart

Respiratory

1. Case taking
2. Asthma
3. COPD- Chronic bronchitis, Emphysema
4. Suppurative syndrome
5. Tuberculosis
6. Pleural diseases
7. Interstitial disease
8. Respiratory failure
9. Lung in systemic diseases
10. Mediastinal syndrome
11. Bronchial carcinoma

Gastrointestinal and hepatology

1. Abdominal case taking
2. Jaundice
3. Chronic hepatitis
4. Cirrhosis
5. G.I. bleeding.
6. Ascites and peritoneal diseases
7. Hepatocellular failure
8. Gall bladder diseases
9. Functional colonic disorders
10. Focal hepatic lesions

Rheumatology

1. Joint examination
2. Rheumatoid arthritis
3. Systemic lupus erythematosus
4. Osteoarthritis
5. Osteoporosis
6. Vasculitis
7. Non-articular rheumatic disorders
8. Other autoimmune joint diseases

Endocrinology and metabolism

1. Acromegaly and other pituitary tumors
2. Sheehan's and other hypopituitary disorders
3. Gonadal disorders
4. Stunted growth
5. Addison's and Gushing
6. Thyrotoxicosis and Hypothyroidism
7. Hyperparathyroidism and metabolic bone disease
8. Tetany and calcium homeostasis
9. Diabetes
10. Obesity

Hematology/Oncology

1. Anemia
2. Lymphadenopathy

3. Chronic leukemia

Infections

1. Enteric fevers
2. Schistosomiasis
3. Amebiasis
4. Malaria
5. PUO

Nephrology

1. Chronic renal failure
2. Obstructive nephropathy
3. Nephrotic syndrome
4. Glomerulonephritis
5. Evaluation of hematuria
6. Kidney in systemic diseases

Neurology

1. Extra pyramidal syndromes
2. Peripheral neuropathy/radiculopathy
3. Facial palsy
4. Metabolic encephalopathies
5. Abnormal movements
6. Speech abnormalities
7. Alzheimer's disease

Psychiatry

1. psychosexual functions
2. Personality disorders
3. Mental retardation
4. Old age psychiatric disorders
5. Violence, abuse of children and adults
6. Somatoform disorders
7. Disorders of eating and sleeping
8. Misuse of and drug independence
9. Schizophrenias.
10. Depression and manic disorders
11. Acute reaction to stress, PTSD and adjustment disorders
12. Anxiety, phobic and obsessional

Skin

1. Impetigo
2. Leprosy
3. herpes simplex
4. Chicken pox
5. Herpes zoster
6. Verruca
7. Molluscum contagiosum
8. Scabies, pediculosis
9. Tinea capiti
10. Dermatophyte infection of glabrous skin (tinea circinata, cruris, manus, pedis)
11. Onychomycosis
12. Mucocutaneous
13. Pityriasis versicolour
14. Psoriasis
15. Lichen planus
16. Pityriasis rubra pilaris
17. Pityriasis rosea
18. Acne vulgaris
19. Rosacea
20. Vitilligo
21. dermatitis) Alopecia areata
22. Urticaria - angiodema
23. Erythema multiforme
24. Eczema (atopic dermatitis-seborrheic dermatitis- contact Delirium and dementia

III) - Medical skills A (OBSERVATION)

Aseptic technique.

Venous procedures: blood sampling, cannulation, I.V. injections, and infusion, use infusion pump.

Arterial blood sampling.

I.M. and subcutaneous injections.

Blood transfusion.

Insert nasogastric tube, nasogastric feeding.

Urinary bladder catheterization.

Some investigations: ECG, Urine dipstick.

Oxygen therapy.

Cardiopulmonary resuscitation

III) - Medical skills B (Clinical Diagnostic studies):

The course content includes an introduction to, indications for, and interpretation of clinical laboratory tests, radiological diagnosis and ECG. The following topics will be discovered:

I -laboratory tests:

- | | |
|--|---|
| a- Morphology of blood elements & complete blood count (CBC) | g- Urine& stool examinationh. bone marrow |
| b- liver function tests | h- CSF analysis |
| c- renal function tests | i- peritoneal & pleural fluid analysis |
| d- coagulation & bleeding profile | j- ABO blood grouping & Rh typing |
| e- Urine& stool examination | k- Common immunological tests |
| f- common endocrine Lab tests | l- ABG & Electrolytes |
| | m- Hepatic viral markers |

II- Radiology:

- a- CVS: normal x-ray for heart, pathological lesions .
- b- Respiratory system: normal chest x-ray, pathological lesions .
- c- GIT: Plain x-ray, barium study and US CT
- d- Radiology of the musculoskeletal system.

III. Electrocardiography interpretation

6-Student Assessment :

a) Methods used

Tool	Purpose
Written examination	Assess ILOs: a1,2,3,4,5,6,7,8,9,10,12,13
MCQs	Assess ILOs: a3,4,5,6,7,8,9,10,12,13

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OSCE	Assess ILOs: b1-c2
Clinical cases examination	Assess ILOs: a6,10-b5,6-c1,2,3,4
Oral exam	Assess ILOs: a1,2,3,4,5,6,7,10
Log book	Assess ILOs: a8-b1,2,3,4,7-c5,6,7-d1,2,3,4,5,6,7,8,9,10
Assignment	Assess ILOs: a11

b) - Assessment schedule التوقيت

Assessment	Week
Midterm (MCQ & Sheet)	After the clinical round of general internal medicine
Oral examination for special medicine	After the clinical round of special internal medicine
Final term written examination	End of the academic year
Final term oral examination	
Final term practical examination	

c- Weighing of assessments (توزيع الدرجات)

Mid-Term Examination & Other types of assessment	20%
Final-term Examination	50%
Oral Examination & Practical Examination	30%
Total	100%

D-Grading system:

Exam	Marks	Total
Int. Medicine: MCQs & Medical skills (Logbook) Sheet	70 20	90
Specialties: Cardiology Chest	10 10	70
Tropical Physical Medicine	10 10	
Neurology& psychiatry Radiology (Term examination)	20 10	
Dermatology	20	
Total		180
Written: Final examination		

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1st paper(GIT 40, Endocrine 40 , Rheumatology 30, Cardiology 20 , Tropical 20)	150		450
2nd paper (Hematology 40 , Renal 40 , Chest 20 , Neuropsych 30 , General 20)	150		
3rd paper includes the following:			
- Dermatology	30		
- Clinical pathology	30		
- Objectives in int. medicine specialties (problems and short questions)	90		
Clinical (3 cases)	180	240	270
OSCE (ECG , Radiology , LAB interpretation & physical examination)	10		
Oral	50		
Dermatology (Clinical)	20	30	
Clinical pathology	10		
Total			900

7- List of references

7.1 Course notes

- Handout of lectures.
- National books approved by the internal medicine council

7.2 Text book

- Staff member's handouts (book).
- Staff member's Color atlases of gross and microscopic Pathology.
- Slide boxes of 70 slides to be used during the academic year.

7.3 Recommended books

- Davidson's Principles and practice of medicine
- Clinical medicine Kummar and Clark
- 1000 MCQs for Davidson's Principles and practice of medicine
- MCQs for Clinical medicine Kummar and Clark
- Hutchison's clinical methods.
- Clinical examination, Macleod, Munro.
- A guide to physical examination, Barbara Bates.

7.4 Periodicals and web sites

- <http://emedicine.medscape.com/>

8- Other resources / facilities required for teaching and learning to achieve the above ILOs:

- Lectures halls: A, B, and C.
- Rooms for small group teaching (4).
- Black and white board.

- Audiovisual aid (data shows, overhead, and slide projectors).
- Faculty library.
- Electronic library
- Beds and patients (Tanta University Hospital).
- General & specialized outpatient clinics
- General & specialized inpatients units
- Emergency unit.

Course coordinator

Name-----signature.....Date.....

Head of department

name.....signature.....Date.....

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) A (Intended learning outcomes of the course INTENBDED LEARNING OUTCOMES OF THE COURSE

NAME OF THE COURSE		ACADEMY/ UNIVERSITY: TANTA FACULTY: MEDICINE DEPARTMENT: INTERNAL MEDICIN
CODE OF THE COURSE		

TOPIC OF COURSE	TOTAL HOURS	KNOWLEDGE AND UNDERSTANDING	INTELECTUAL SKILLS	PRACTICAL SKILLS	GENERAL TRANSFERABLE SKILLS
Cardiovascular	69	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Respiratory	60	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Infections	26	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Physical Medicine	23	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Radiology	23	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Neurology Psychiatry	96	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
GIT& Hepatology	74	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Hematology	42	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Nephrology	45	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13	B1- b7	C1- c6	D1- d10
Rheumatology	28	A1, a3, a5, a6, a7, a9, a10, a11,	B1- b7	C1- c6	D1- d10

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		a12, a13			
Endocrinology & nutrition	49	A1- a13	B1- b7	C1- c6	D1- d10
Geriatric	2	A1, a3, a6, a7, a9, a10, a11, a12, a13	B3- b7		

NAME OF THE COURSE		ACADEMY/ UNIVERSITY: TANTA			
CODE OF THE COURSE		FACULTY: MEDICINE			
		DEPARTMENT: INTERNAL MEDICIN			
TOPIC OF COURSE	TOTAL HOURS	KNOWLEDGE AND UNDERSTANDING	INTELECTUAL SKILLS	PRACTICAL SKILLS	GENERAL TRANSFERABLE SKILLS
Genetics	2	A5			
Ethics & Law	1	A14			
Symptomatology	6			C3	
Emergency	3	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13, a14	B1- b7	C1- c6	D1- d10
Immunology	2	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13			
Skin & venereal diseases	78	A1, a3, a5, a6, a7, a9, a10, a11, a12, a13, a14	B1- b7	C1- c6	D1- d10
Clinical pathology	16		B1		
MCQ	3		B1- b7		

