

# Mansoura University, Faculty of Medicine



**MANSOURA**  
**MANCHESTER**  
Programme for medical education



## Year 3 course Specifications Semester 5 Nutrition and Metabolism (MPPh1S5NM)

University of Mansoura

Faculty of Medicine

### Course specifications

Programme(s) on which the course is given: Mansoura Manchester Programme for Medical Education

Major or minor element of programmes: Nutrition and Metabolism

Department offering the programme: All departments in Faculty of Medicine

Department offering the course: Anatomy, Biochemistry, Physiology, Pharma, Pathology and histology

Academic year / Level 3<sup>rd</sup> year

Date of specification approval: May 2016

### A- Basic Information

**Title:** Nutrition and Metabolism    **Code:** MPPh1S5NM

#### Teaching Hours/week

**Lecture:** 6h/w

**Tutorial:** 5 h/w

**Practical:** 4 h/w

**Total:** 15 h/w

### B- Professional Information

#### 1 – Overall aims of course

The aim of this course is to go through gastrointestinal tract and to know how organs of this system function normally to maintain body homeostasis. Also to examine the functions of the liver, kidney and urinary tract and introduce to metabolism and, how nutrients are digested, absorbed and utilized in a coordinated way to generate energy. In addition, to know how the body excretes the waste products of metabolism.

#### 2 – Intended learning outcomes of course (ILOs)

##### a- Knowledge and understanding:

a1- Understand the physiology of swallowing, gastric & pancreatic sec., Liver & thyroid gland functions, how body temp. is regulated, kidney & UB functions

a2- Describe the pathology underlying peptic ulcer (PU), hepatitis, Bilharisiasis, BPH, intestinal tumors, thyroid diseases, Malabsorption, glomerular diseases & dysphagia

a3- Recognize the basics of metabolism and how hormones do their action & to know the therapy of D.M, PU, hepatitis, Bilharisiasis, thyroid dis. & diuretics.

##### b- Intellectual skills

b1- Measure health status & quality of life and show the key features of healthy lifestyle and health belief model

b2- Evaluate the concept of psychosomatic illnesses, anxiety, mood disorders and psychological reactions to cancer

b3- Relate theories of addiction & understand the philosophy of hospice care.

##### c- Professional and practical skills

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c1- Demonstrate the anatomy of oral cavity, oesophagus, stomach, duodenum, LI, liver, pancreas, ducts and associated vessels, nerves & lymph nodes

c2- Illustrate the structure of the lining of GIT, thyroid gland, Liver, Pancreas, Kineys, UB & Prostate.

c3- Measure glucose in blood& urine

### **d- General and transferable skills**

d1- Manage and present information (in the form of student presentation and Poster presentation) and communicate ideas, concepts and arguments effectively.

d2- Work effectively in team

d3- Apply the moral and ethical responsibilities involved in patient care

### **3- Contents**

Topic No. of hours Lecture Tutorial/Practical

Topic	No of hou	Lecture	Tutorial/Practica
Show an awareness of the moral and ethical responsibilities involved in patient care	14	0	14
Anatomy of Anterior & Posterior Abdomin Wall, Abdominal cavity Portal circulation, Urinary tract.	5	5	0
Physiology of swallowing, gastric& pancreatic sec., LI functions, Thyroid gl., Regul.of body temp.	6	6	0
Phys: Glucose Homeostasis & Liver functions, Nutrition, Functions of Kidneys, UB & Prostate gland.	7	7	0
Histology of stomach, duodenum, LI, Live Pancreas, thyroid gland, Kineys, UB & Prostate	14	0	14
Drug Therapy of PU, DM, viral hepatitis, Bilharisiasis, Antithyroid drugs, Chemotherapy & Diuretics	7	7	0
Digestion and Absorption of CHO, Lipid & Protein	3	3	0
Metabolism of CHO, Lipid & Protein Mechanism of Hormonal action	8	6	2
Pathology of swallowing dis, PU, Malabsorption, Hepatitis, Bilhar., Tumor	9	9	0

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glomerular diseases & BPH			
Clinical aspects of swallowing disorders, P Liver dis., D.M, Thyroid dis, Renal dis, Heamodialysis.	14	6	8
Imaging technique of GIT and Kidney	2	2	0
Psychological reactions in cancer patient	1	1	0
Virology of Viral hepatitis	1	1	0
Parasitology of Bilharziasis	3	1	2
How to design a poster?	1	1	0

## 4- Teaching and learning methods

- 4.1-Tutorial sessions
- 4.2-Lectures
- 4.3-Practical and early experience sessions
- 4.4-Student presentation

## 5- Student assessment methods

- 5.1 MCQ mid-semester exam to assess knowledge, Understanding
- 5.2 MCQs & EMQs final exam to assess knowledge, skills
- 5.3 Short Essay Questions to assess knowledge, skills
- 5.4 OSCE to assess Skills
- 5.5 Ongoing assessment (SSC, PBL) overall performance

## Assessment schedule

- Assessment 1 Mid-semester exam Week 6
- Assessment 2 Mid-semester exam Final exam
- Assessment 3 Short Essay Questions Final exam
- Assessment 4 OSCE Final exam
- Assessment 5 ongoing assessment

## Weighting of assessments

- Mid-Term Examination 10 % (Mcqs= 35 marks)
- Final-term Examination 60% (Mcqs+Essay= 340)
- Oral Examination 0 %
- Practical Examination 20% (OSCE= 100 marks)
- Semester Work 10% (Assessment = 25 marks)
- Other types of assessment (Poster presentation) 0 % (=50 marks)
- Total 100% (550 marks)

Any formative only assessments

## 6- List of references

- 6.1- Course notes
- Student's case book
- 6.2- Essential books (text books)
- Snell RS, Clinical Anatomy for Medical Students, 6th edition, 2000, Lippincott for Biochemistry, Williams & Wilkins

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Guyton AC, Hall JE, Textbook of Medical Physiology, 2006, Elsevier Saunders 6.3-

6.3 Recommended books

Kumar & Clark, Clinical Medicine, 6th edition, Fox Human Physiology 6.4- Periodicals, Web sites, ... etc

[http://en.wikipedia.org/wiki/Main\\_Page](http://en.wikipedia.org/wiki/Main_Page)

<http://www.ncbi.nlm.nih.gov/pubmed/>

### 7- Facilities required for teaching and learning

1. A theatre which can accommodate the students
2. Two lab rooms can accommodate at least 25 students/each lab
3. Datashow and PC with windows XP as an operating system and office 2007
4. Rooms for PBL sessions which accommodate 10 students

**Course coordinator: Dr. Amany Atwa**

**Programme Director: Dr. Nagy Abdel-Hady**

**Date: May 2016**