

Mansoura University, Faculty of Medicine



**MANSOURA
MANCHESTER**
Programme for medical education



Year 1 course Specifications Semester 1 Foundation (MPPh1S1F)

University Mansoura

Faculty Medicine

Course specifications

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

Major or minor element of programmes: Foundation

Department offering the programme: All depts in Faculty of Medicine

Department offering the course: Anatomy, Histology, Biochemistry and Physiology

Academic year / Level: first year, first semester

Date of specification approval: May 2016

A- Basic Information

Title: Foundation Code: MPPh1S1F

Teaching hours/ week:

Lecture: 6 h/w

Practical: 4h/w

Tutorial: 5 h/w

Total: 15h/w

B- Professional Information

1 – Overall aims of course

- This semester aims to provide students with the basic science needed to equip them for studying medicine and to acquire skills in:
 - Self-directed learning.
 - Problem solving.
 - Using technical resources (library, computers).
 - Interpersonal communication.
- To give an understanding of basic aspects of chemistry and biochemistry which underline medicine.
- To teach the basic laboratory skills necessary to medicine.
- To provide a sufficient background in human biology.
- To foster the collaborative skills required for working in groups given broad objectives.
- To encourage self-motivation and independent learning.

2 – Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

a1- To recognize general anatomy and embryology of musculoskeletal, respiratory, nervous and digestive systems

a2- To recognize general histology (basic cell structure and tissues of the body) of muscle, bone, blood and nervous tissue

a3- To discuss basic aspects of biochemistry of carbohydrates, lipid, proteins, vitamins, minerals and cell biology

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Mansoura –Manchester Programme for Medical Education

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a4- To recognize physiology of blood, respiration, cardiac cycle and homeostasis

b- Intellectual skills

b1 - To assess information on appropriate management and understand how this may be used.

b2- To interpret problems and try to solve them

b3- To Collect the sources of information.

c- Professional and practical skills

c1- To prepare blood film and blood groups

c2- To analyze urine

c3- To test pulmonary function tests, and basics of ECG

d- General and transferable skills

d1 Work effectively in team

d2 Communicate ideas, concepts and arguments effectively.

d3 Manage and present information

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Anatomy:	19	Introduction to human anatomy Skeletal system Muscular system Joints Digestive tract Skin and fascia CVS Lymphatic system Respiratory system Nervous system Autonomic nervous system	The skeleton Digestive system Heart and lungs
Embryology:	7	Male & female genital systems Female reproductive cycles Fertilization to implantation 2nd week 3rd week 4th week and fetal membranes Placenta and umbilical cord	
Biochemistry	13	Biochemistry of carbohydrates Oxidation, reduction and ATP production Chemistry of proteins Replication, translation and transcription Enzymes and digestive	Urine analysis Effect of changing pH & temp on metabolism

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		<p>enzymes Vitamins Minerals Chemistry of lipids Isoenzymes and enzymes released by myocardial damage</p>	
Histology:	20	<p>Blood components Structure of the cell The cartilage & bone The muscular tissue Nucleus, chromosomes & genes Cell division Epithelium The connective tissue proper The skin The blood vascular system The Nervous Tissue</p>	<p>Blood film Intestine Pancreas Types of receptors</p>
Physiology:	19	<p>Blood functions Cell membrane The nephron Water regulation Calcium homeostasis Digestion and absorption The cardiac cycle Physiology of Respiration Resting membrane potential Control of blood sugar Neurophysiology of sensation</p>	<p>Blood groups Blood clotting Comparative muscle physiology Pulmonary function tests</p>
Student's presentation:	20		<p>Osmosis and diffusion Optics of light microscope Structure of the kidney Function of the kidney Aerobic and anaerobic respiration Work, power and efficiency Mendel's law Coagulation defects</p>

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			<p>Spermatogenesis and spermiogenesis Recommended food during pregnancy Antacids, how do they work? Malabsorption syndrome Types and differences of human races Development of subspecies Blood supply of the heart Pathophysiology of the heart attack Imaging in medicine Concept of epidemiology of the disease Types and complication of diabetes Process of healing of skin wounds</p>
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4- Teaching and learning methods

- 4.1 Lectures
- 4.2 Practical
- 4.3 Student's presentation
- 4.4 Problem based learning

5- Student assessment methods

- 5.1 MCQ mid-semester exam to assess knowledge, skills
- 5.2 MCQ final to assess knowledge, skills
- 5.3 Short essay to assess knowledge, attitude
- 5.4 OSCE to assess skills
- 5.5 Ongoing assessment to assess overall performance

Assessment schedule

- Assessment 1 mid-semester exam Week after first 5 weeks
- Assessment 2 MCQ week end of semester
- Assessment 3 Short essay Week end of semester
- Assessment 4 OSCE Week end of semester

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Programme for medical education



Assessment Ongoing assessment Week end of semester

Weighting of assessments

Mid-Term Examination 12.5 %
Final-term Examination 55 %
Oral Examination. 0%
Practical Examination 25%
Semester Work and Other types of assessment 7.5 %
Total 100%

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, Williams & Wilkins
Guyton AC, Hall JE, Textbook of Medical Physiology, 2006, Elsevier Saunders
Devlin TM, Textbook of Biochemistry with Clinical Correlations, 5th edition, 2002, Wiley-Liss
Stevens A, Lowe J, Human Histology, 2005, Elsevier/Mosby
Strachan T, Read AP, Human Molecular Genetics 1997, Bios scientific, London
Larsen W, Essentials of Human Embryology, 1998, Churchill Livingstone
- 6.3- Recommended books
Gray anatomy for students
Langman medical embryology
Guyton
- 6.4- Periodicals, Web sites, etc

7- Facilities required for teaching and learning

Audiovisual means in lectures
Library
Labs of different departments for practical lessons
Dissecting rooms

Course coordinator: Dr.Mohamed Medhat Ali
Programme Director: Dr. Nagy Abdel-Hady

Date:May /2016