

Mansoura University, Faculty of Medicine



**MANSOURA
MANCHESTER**
Programme for medical education



Year 2 course Specifications Semester 4 Abilities and Disabilities (MPPh1S4AD)

**University of Mansoura
Faculty of Medicine**

Faculty of Medicine

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

Major or minor element of programs:

Neuroscience Module

Department offering the program:

Departments in Faculty of Medicine

Department offering the course:

Anatomy, Physiology, Pharma, Neurology, etc

Academic year / level: 2nd year

2nd year

Date of specification approval:

May 2016

A Basic information

Title: Abilities and Disabilities Code: MPPh1S4AD

Teaching hour/week

Lecture: 6 h/w

Tutorial: 5 h/w

Practical: 6 h/w

Total: 17 hs/week

B Professional Information

1 - Overall Aims of Course

Semester 4 (Abilities and Disabilities) is about neuroscience. Each PBL case contains case learning outcomes that by definition must be linked to the learning outcomes for the semester. Each case is integrated and contains cues that raise potential learning objectives relating to knowledge, skills and attitudes in all areas of biological and behavioral sciences, and certain aspects of ethics and law. The early experience programme is also designed around these objectives and it is expected that students may discuss the clinical experience they have had within the context of a PBL case.

2 – Intended Learning Outcomes of Course (ILOs)

A- Knowledge and Understanding

- a1. Discuss normal structure and function of the body and each of its major systems. head, neck and vertebral column the central and peripheral nervous systems; cerebral hemispheres the motor and sensory systems the thalamus, brain-stem, cerebellum and spinal cord relating to case scenarios.
- a 2. Recogni pain and its modulation; including physiology, perception, theories and management
- a 3. Identify the pathways and principles of neurotransmission in the brain and spinal cord and related drug action

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- a 4. Describe mechanisms of action of the main classes of CNS drugs, including local and general anesthetics
- a 5. Summarize the structure and function of skeletal muscle basics of normal and abnormal human behaviors.
- a 6. Report the physiology and psychology of consciousness; emotions and motivation
- a 7. Express the cognitive functions of attention, perception, and memory methods of their assessment
- a 8. Review the physiological, psychological and environmental factors involved in the development of mental illness
- a 9. Record individual responses (coping) and social responses to chronic illness and disability
- a 10. List mental Health Legislation
- a 11. Define health, competence and incompetence
- a 12. Outline pathogenesis and clinical features of neurological, locomotor diseases
- a 13. State etiology and diagnosis of mental illnesses relating to the case scenarios.
- a 14. Label the complications of common and life threatening illnesses.

B- Intellectual Skills

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

- b1. Apply basic biomedical science with clinical care
- b2. Solve clinical problems

C-Professional and Practical Skills

By the end of the semester, the student should be able to:

- C1. Intradermal injection of a sterile solution
- C2. Apply drops of solution to the eye
- C3. Calculate the volume of a drug required for a specific application and demonstrate accurate drug dilution techniques
- C4. Test the functions of the cranial nerves
- C5. Demonstrate the ability to use an ophthalmoscope to inspect the retina
- C6. Show the measurement of visual acuity for distance vision; near point and visual field
- C7. Use an otoscope to inspect the ear
- C8. Testing conduction and sensation in the ear, and obtaining an audiogram
- C9. Test somatic reflexes (including ankle, knee, triceps, biceps, supinator, plantar and abdominal reflexes)
- C10. Test visual reflexes (including light and accommodation reflexes)
- C11. Assess EMG.

D. General and transferable Skills

- D1. Employ for the lifelong learning needs of the medical profession.
- D2. Use information and communication technology effectively in the field of medical practice.
- D3. Formulate, manage, and manipulate information by all means, including electronic means.

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- D4. Illustrate information clearly in written, electronic and oral forms.
- D5. Communicate ideas and arguments effectively.
- D6. Judge effectively within a team.
- D7. Analyze and use numerical data including the use of simple statistical methods).
- D8. Use Evidence Based Medicine in management decision.
- D9. Measure time and resources and set priorities.
- D10. Plan as effective team leader.
- D11. Solve problems related to patients, work management, and among colleagues.
- D12. Appraise a changing work environment.
- D13. Apply safety and infection control measures during practice.
- D14. Evaluate their work and that of others use constructive feedback.

E- Professional attitude

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

- E1. Prepare an empathic and holistic approach to the patients and their problems.
- E2. Value patients' rights and involve them and/ or their caretakers in management decisions.
- E3. Differentiate the different cultural beliefs and values in the community they serve.
- E4. Illustrate the important role played by other health care professions in patients' management.
- E5. Apply the national code of ethics issued by the Egyptian Medical Syndicate.
- E6. Counsel Patients and families suffering from different conditions.

3 – Contents

Tutorial/Practical	Lecture	No. of hours	Topic
24	19	43	Anatomy and development of the spinal cord, vertebral column and head and neck, CNS, PNS
5	16	21	Physiology of pain, vision. Hearing, control of voluntary movement, nerve and muscle, sleep and consciousness
6	4	10	Pharmacology , mechanisms of action of the main classes of CNS drugs, including local and general anesthetics
2	2	4	Histology of CNS, PNS, skeletal muscle
0	1	1	Pathology of demyelinating diseases
3	3	6	Psychology of motivation, emotion and cognitive brain function and addiction behavior
2	1	3	strabismus and using ophthalmoscope
2	1	3	otitis media, otoscope and audiometry
2	3	5	neural tube defects, low back pain, head trauma
0	4	4	cerebrovascular strokes, MS, Parkinsonism and abnormal gait
4	0	4	cranial nerve examination, neurological examination and EMG
0	1	1	In utero diagnosis of uterine tube defects

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4 – Teaching and Learning Methods

Lectures
Practical and Early experience
Student's presentation
Problem based learning sessions

5 – Student Assessment Methods

Midterm exam	to assess	knowledge, skills
MCQ	to assess	knowledge, skills
Short essay	to assess	knowledge, attitude
OSPE	to assess	skills
Ongoing assessment	to assess	attitude and overall

performance

Assessment Schedule

6	week	midterm exam	Assessment 1
final exam	week	MCQ	Assessment 2
final exam	week	Short essay	Assessment 3
final exam	week	OSCE	Assessment 4
every pbl	week	ongoing assessment	Assessment 5

Weighting of Assessments

Mid-Term Examination	35 marks (6.4%)
Semester work	75 marks (13.6%)
Final-Term Examination	350 marks (62%)
Practical Examination	100 marks (18%)
Oral Examination	0
Other types of assessment	0
Total	100%

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
- Golan DE, Tashjian AH, Armstrong EJ (editors), Principles of pharmacology, 2005, Lippincott Williams & Wilkins
- Siegel A, Sapru HN, Essential Neuroscience, 2006, Lippincott Williams & Wilkins

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6.3- Periodicals, Web Sites, ...etc

- 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 200 students
2. Four lab rooms can accommodate at least 25 students
3. Data show and PC with windows xp as an operating system and office 2007
4. 27 pbl rooms which accommodate 10 students

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Chief Tutor: Dr. Dalia Saleh

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