

University: Al-Azhar University.

Faculty: Faculty of Medicine, Cairo.

Department : Psychiatry

1-data of the course

Code of the course: 07-700-Psych-M.D.	Course title: physiology M.D. degree Psychiatry	M.D.
Speciality: Psychiatry	Number Of teaching units: 8	Lectures: 2 hours weekly

2-Objectives of the course

By the end of the course, students should be able to:

- .1.** Recall all basic physiological information regarding the learned subjects.
- .2.** Explain, on physiological bases, the related clinical pictures seen in the field of general medicine.
- .3.** Apply course information to explain the physiological background for treatment of the related abnormal, dysfunction, or dysregulated physiological mechanisms accompanying diseases of general medicine.

3-ILOs

By the end of this course, through the following: knowledge, skills & attitude the students will be able to:

<p>Knowledge and understanding</p>	<ol style="list-style-type: none">1. List the temperature-regulating mechanisms, and describe the way in which they are integrated under hypothalamic control to maintain normal body temperature.2. describe the pattern of normal night time sleep in adults and the variations in this pattern from birth to old age3. Define the special features of the circulation in the brain and how it is regulated4. Describe the anatomic connections between the hypothalamus and the pituitary gland and the functional significance of each connection.5. Name the posture-regulating parts of the central nervous system and discuss the role of each.6. Describe the basal ganglia and list the pathways that interconnect them, along with the neurotransmitters in each pathway.7- Describe physiology of memory8- Describe physiology of thinking9- Describe physiology of mood10- Describe physiology of learning.
<p>Intellectual skills</p>	<ol style="list-style-type: none">1-Suggest the primary disturbances that can account for memory disturbance.2. Compare the pathway that mediates difrent types of learning.3. Suggest the primary disturbances that can account for mood disorders.4. Suggest the primary disturbances that can account for psychotic disorders.

M.D. Course specification - Physiology

Professional skills	Implement course information to explain the basis of disease states where components of the nervous system are abnormal, dysregulated, or both.
General skills	<ol style="list-style-type: none">1. Use course information effectively in the field of general medicine practice.2. Retrieve, manage, and manipulate course information by all means, including electronic means.3. Present course information clearly in written, electronic and oral forms.4. Communicate ideas and arguments effectively.5. Analyze and use numerical data including the use of simple statistical methods.

4-course content:

- 1- Physiology of THALAMUS
- 2-Physiology of Hypothalamus
- 3- Physiology of Basal Ganglia
- 4- Physiology of memory
- 5- Physiology of thinking
- 6- Physiology of mood
- 7- Physiology of learning.
- 8- Physiology of Sleep.

5-Methods of teaching:

Lectures: white board, Computers, Data show, overhead projector and CDs. Two hours per week throughout the course.

Methods of teaching for handicaps:

Not present

6-students evaluation and assessment

A-Method of assessment	Written Exam Oral Exam
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M.D. Course specification - Physiology

B-Time of assessment	Written Exam : 1 hr Oral exam
C- Allocated marks	1-Final written exam in one paper: 50%. 2- Oral exam: 50 %. 3-Formative only assessment: simple research assignment, Log book, attendance and absenteeism

7-teaching books, notebooks and references:

Ganong's Review of Medical Physiology,

Course coordinator: Dr Mohammed Abdalla
Ghowaynem

Head of department: Prof Dr Mohammed Hashem
Bahari