Faculty of Medicine
Ain Shams University

Postgraduate Studies

Master of Science in Neurology and Psychiatry

درجة الماجستير في طب المخ والأعصاب والطب النفسي

Program Code: NP600

Program Guide and Logbook
**Candidate Curriculum vitae**

[Name]

Please attach your recent photo

[telephone no]
[mobile no]
[mailing address]

[email address]
[postcode]

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<th>Experience</th>
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[organization]
| **[previous job title]** |
| [start and end date] |
| [location] |
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[start and end date]
[location]
[responsibilities]

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**Education**

[certificates]
[start and end date]
[school or college]
### Training

[any other training that will be useful in your job]

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**Filled by post graduate authorities**

**Date of Registration**

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I – Welcome Statement:

The Department of Neurology and Psychiatry welcomes you to the Master of Science in Neurology and Psychiatry. As a department we are committed to medical student education and continuously strive to improve your educational experience.

This handbook presents information guide and logbook activity of this degree administered by the Neurology and Psychiatry department, Faculty of Medicine, Ain Shams University.

II - Mission Statement:

The mission of the Faculty of Medicine, Ain Shams University is “Preparation of a trained physician, researcher and life long tutor capable of following standards of medical care and ethics, with managerial and technical skills in his specialty. Furthermore, promotion outstanding programs of health care to serve the society, environmental development and targeted scientific research for continual improvement of health”.

The mission of this degree is to provide the candidates with an excellent introduction to Neurology and Psychiatry and to provide them with training in both theoretical and clinical skills requisite to the practice of Neurology and Psychiatry. Thus, qualify the candidate to be capable of providing the optimum health care service to the society and improving the scientific research. Ain Shams University awards the Master of Science degree in Neurology and Psychiatry as postgraduate academic degree as a specialty training degree for physicians who have completed Basic Neurology and Psychiatry Training. The Master of Science degree comprises taught courses and a final exam preparing for registration as a specialist in Neurology/ Psychiatry in the Egyptian Medical Syndicate.

III – Senior Supervisor and Affiliated Departments and Hospitals:

Senior Supervisor:

Psychiatry:
Professor/ Mohamed Ghanem
E-mail: ghanemmmohamed2002@yahoo.com
Neurology:
Professor/ Samia Ashour Helal
E-mail: dr.s.ashour@gmail.com

Affiliated Departments and Hospitals:
Department of Neuropsychiatry at Ain Shams University Hospitals,
Institute of Psychiatry and Ain Shams University Specialized Hospital.

IV – Program Specifications:

A- Basic Information:
1. Program title: Master of Science in Neurology and Psychiatry.
2. Program type: Single.
3. Faculty: Faculty of Medicine, Ain Shams University.
5. Assistant coordinator:
   Psychiatry:
   Neurology:

6. Coordinator:
   Psychiatry:
   Neurology:

7. Last date of program approval: 2013

B- Professional Information:
1. Program aims:
   1. Understanding the pathophysiology of different neurological
diseases/psychiatric disorders and the associated neuroscience
background.
   2. Understanding the appropriate use and interpretation of common
diagnostic studies.
   3. Development of the necessary knowledge and skills to approach and
manage the wide array of neurological/psychiatric disorders.
   4. Acquiring the skills for competently performing the basic
neurological/psychiatric procedures.
   5. Effectively perform a detailed and an efficient
neurological/psychiatric history taking and examination.
6. Ability to carry out the diagnosis and plan the treatment of the commonly encountered neurological diseases/psychiatric disorders and emergencies in a compassionate, appropriate and effective manner.

7. Effectively work within a team and implement liaison with members of the other medical specialties.

8. Capacity to learn independently and to use the medical literature to improve the clinical practice.

9. Development of the necessary skills for finding scientific information, critical appraisal of medical literature and scientific writing.

2. Intended learning outcomes (ILOs):

A. Knowledge and understanding:

By the end of the program the candidate will be able to:

Neurology:

A1 - Understand the basic science underlying normal and abnormal functioning of the nervous system.
A2 - Recognize the risk factors and clinical picture of the different neurological diseases.
A3 - Understand the appropriate use and interpretation of common diagnostic studies for neurological diseases.
A4 - Identify the methods of treatment of the different neurological diseases.
A5 - Recognize and carry out the diagnosis and treatment of commonly encountered neurological diseases and emergencies.

Psychiatry:

A1 - Understanding the basic knowledge that will promote competent diagnosis and management of psychiatric disorders.
A2 - Understanding the epidemiology, psychopathology and outcome of psychiatric disorders.
A3 - Understanding and mastering the biological, psychological and social factors in the development of psychiatric disorders.
A4 - Recognize different instruments, tools and psychological assessments in psychiatry.
A5 – Recognize medical ethics as applied to psychiatric practice.
A6 - Identify the legal aspects of psychiatric practice.

B. Intellectual capabilities:

By the end of the program the candidate will be able to:

Neurology:
B1 - Analysis and developing an approach to patients with common complaints associated with disorders of the nervous system.
B2 - Select the proper diagnostic tool for each of the neurological disorders.
B3 - Conclude the diagnosis of the different neurological disorders based on clinical data and investigations.
B4 - Design the treatment plan of neurological diseases.
B5 - Find solutions to manage the wide array of neurological conditions and difficult neurological cases.

**Psychiatry:**
B1- Assigning a correct diagnosis and make reasonable differential diagnosis.
B2- Acquiring advanced knowledge about pharmacotherapy, psychotherapy and other modalities of therapeutic interventions in psychiatry.
B3 - Conclude the diagnosis of the different psychiatric disorders based on clinical data and investigations.
B4 - Design the treatment plan of psychiatric disorders and formulate a systemic risk assessment.
B5 – Able to demonstrate a working knowledge of prevention.

C. Professional and practical skills:
By the end of the program the candidate will be able to:

**Neurology:**
C1 - Evaluate the patients presenting with neurological manifestations.
C2 - Construct a plan for management of the different neurological disorders.
C3 - Design and perform a research project that contributes to scientific knowledge in neurology.
C4 - Judge and critically appraise the medical literature.
C5 - Search for scientific information and use the medical literature to improve clinical practice.
C6 - Interpret the basic neurophysiology procedures.

**Psychiatry:**
C1 - Perform a detailed physical and mental status examination to elicit and identify correctly the full range of symptoms and signs, in psychiatric patients.
C2 - Carry out investigation in an efficient way.
C3- Manage patients with the full range of current pharmacological and psychological treatment.
C4 –Write coherent, concise and clinically appropriate progress notes and recognize the importance of prompt and efficient documentation of the clinical record.
C5- Judge and critically appraise the psychiatric literatures.
C6 - Search for scientific information and use the psychiatric literatures to improve clinical practice.

D. General and transferable skills:

By the end of the program the candidate will be able to:

D1 - Work effectively within a team and implement liaison with members of other specialties.
D2 - Develop the communication and interpersonal skills necessary to communicate effectively with other medical members, patients and their families.
D3 - Use computer skills to review the recent medical literature worldwide in order to improve clinical practice.
D4 - Show interest in systemic integration of the biologic, psychologic and social frames of reference for understanding, behaviour.
D5 - Demonstrate familiarity with the application of the multidisciplinary team in psychiatry.
D6 - Give comprehensive information and health education to the patients and their families.
D7 - Demonstrate issues of confidentiality, ethical and legal practice.
D8 - Conduct an efficient doctor patient relationship.

3. Benchmark standards:

The academic reference standards of NAQAAE, guided by the established guidelines of the World Federation of Neurology (WFN) for the development of Neurology Training Programs. Such guidelines should prove a valuable resource for other countries with an interest in and commitment to developing and implementing their own Neurology Training Programs, these guidelines are available at the website of WFN; www.wfneurology.org.

The NCCMH is responsible for developing mental health guidelines, and is a partnership between the Royal College of Psychiatrists and the British Psychological Society. Such guidelines aim to bring about genuine and lasting improvements in patient care. These clinical guidelines should also raise the profile of research with both practitioners and the public. For more information; www.rcpsych.ac.uk and www.nccmh.org.uk
4. Curriculum structure and contents:
4A - Program duration: 24 months
4B - Program structure:

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<thead>
<tr>
<th>كود</th>
<th>المقرر الدراسي</th>
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<tbody>
<tr>
<td>NP6001</td>
<td>Anatomy and embryology of nervous system</td>
</tr>
<tr>
<td>NP6002</td>
<td>Physiology of nervous system</td>
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5. Program courses:

A- Compulsory:

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<tr>
<td>NP6002</td>
<td>Physiology of nervous system</td>
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</tr>
<tr>
<td>Code</td>
<td>Course title</td>
<td>Number of hours</td>
</tr>
<tr>
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<td>--------------------------------------------------</td>
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<td>NP6003</td>
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<td>Biochemistry of nervous system</td>
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<td>NP6008</td>
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<td>NP6009</td>
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L: Lecture, P: Practical and SDL: Self directed learning

B- Elective:

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<td>E6091</td>
<td>Development of human capacities</td>
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<tr>
<td>E6092</td>
<td>Electroencephalogram (EEG)</td>
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<tr>
<td>E6093</td>
<td>Nerve conduction study and Electromyography</td>
<td>15  30</td>
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</tbody>
</table>

L: Lecture, P: Practical and SDL: Self directed learning

6. Program admission requirements:

المادة (6): يشترط لقيد الطالب للحصول على درجة الماجستير:

1- أن يكون حاصلاً على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة 2- أن يكون قد أمضى سنة التدريب (الامتحان) 3- موافقة جهة العمل 4- تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة واستيفاء المستندات المطلوبة في الملحق (1) 5- التفرغ للدراسة لمدة فصلين دراسيين قبل دخول امتحان الجزء الثاني 0

ملحق (1): يقدم طالب الإلتحاق لدرجة الماجستير الأوراق التالية:

1- طلب إلتحاق 2- شهادة البكالوريوس 3- شهادة الامتحان 4- شهادة الميلاد أو مستخرج رسمي 5- الموافق من التجنيد 6- موافقة جهة العمل على التسجيل والتوقيع 7- عدد 6 صور فوتوغرافية جديدة 8- بالنسبة للوافدين يقدم الطالب موافقة السفارة ويحدد جهة تحمل النفقات كما يقدم شهادة صحته
7. Regulation for progression and program completion

MÁTÁDA (8): يتم التسجيل للماجستير مرة واحدة في السنة تبدأ من أول يوليو حتى أخر أغسطس.

على أن تبدأ الدراسة في شهر أكتوبر من كل عام ويجوز قبول تسجيل النوبات والمعتمدين والوافدين في الفترة من أول نوفمبر حتى أخر ديسمبر على ألا يسمح لهم بدخول إمتحان الجزء الأول إلا بعد انقضاء فترة الدراسة المطلوبة.

MÁTÁDA (9): توزع الدراسة في كل عام جامعي على فصول دراسيين مدة كل منها خمسة عشر أسبوعاً. بدأ الأول في أول أكتوبر ويبدأ الثاني في منتصف فبراير. مع تنظيم فصل دراسي صغير مكتف لمدة ستة أسابيع. يتم التسجيل للفصل الدراسي قبل أسبوعين من بدايةه على الأقل بعد إستيفاء الشروط حسب المقررات المسجدة. ولا ينبغي أن يزيد العبء الدراسي في الفصل الواحد عن 6 ساعات معتمدة.

ويجوز للطالب تعديل المقررات خلال أسبوعين من بداية الفصل الدراسي (بالحذف أو الإضافة). كما يجوز له الانسحاب خلال سته أسابيع من أحد المقررات دون احتسابه راسبًا فيها.

MÁTÁDA (11): مدة الدراسة للحصول على درجة الدبلوم أو الماجستير هي أربعة وعشرون شهراً (أربعة فصول دراسية) على جزئين يجتاز فيها الطالب برنامجاً تدريبياً متكاملاً طبقاً للساعات المعتمدة الموضوعة بالنسب الرابع ويتوسف خلالها المطلوب منه في كتيب متابعة الأنشطة ولا يسمح له بدخول الامتحان قبل إستيفاء ثلاثة أرباع المطلوب منه في كل جزء من البرنامج.

MÁTÁDA (12): مدة الدراسة في الدبلوم والماجستير الجزء الأول قبل دهاسي واحد يجتاز بعدها الطالب إمتحانًا ولا يشترط النجاح فيه بالكامل للانتقال للدراسة في الجزء الثاني. والجزء الثاني يتطلب تفرغ الطالب للتدريب لمدة فصول دراسيين بأحد المستشفيات أو المراكز المعتمدة من الكلية.

MÁTÁDA (13): يقوم الدارس لدرجة الماجستير بتسجيل موضوع الرسالة على شكل بحث نظري أو عملي بعد إستيفاء فصل دراسي واحد على الأقل ويجوز أن ينشق رسانلة بعد ستة أشهر من التسجيل على الأقل على أن يكون قد نجح في مقررات الجزء الأول بالكامل وقبل دخول إمتحان الجزء الثاني ولا يخصص لها درجات.

MÁTÁDA (14): يقوم دارس الماجستير بإستيفاء متطلبات الجامعة قبل تسجيل الرسالة ومتطلبات الكلية قبل دخول إمتحان الجزء الثاني. ومتطلبات الجامعة هي الحصول على شهادة التوقيف في اللغة الإنجليزية بمجموع (450 درجة على الأقل) ومتطلبات الكلية هي تصريح دورات معتمدة من لجنة الدراسات العليا بالكلية في مجالات البحث العلمي والإحصاء الطبي أو بإجتياز اختبارات خاصة تحددها اللجنة.

MÁTÁDA (15): يجوز للحاصلين على درجة الدبلوم استكمال درجة الماجستير بتسجيل رسالة الماجستير خلال أربع سنوات من الحصول على درجة الدبلوم وبحصل على الدرجة بعد إستيفاء متطلبات الجامعة والكلية ومناقشة الرسالة بنجاح.
مادة (16): الساعات المعتمدة لدراسة البكالوريوس والماجستير ثلاثون ساعة معتمدة على الأقل يخصص منها ست ساعات لكتيب متابعة الأنشطة وتشمل ست ساعات على الأقل للجزء الأول وثماني عشرة ساعة على الأقل للجزء الثاني وضافة إليها ست ساعات للرسالة في الماجستير.


مادة (26): يكون النجاح في كل مادة من البكالوريوس والماجستير بعد الحصول على 60% من الدرجة الكلية لكل لجان المادة مجتمعة على الأقل التحريري عن 50%، ويلزم النجاح في مواد الدكتوراه بعد الحصول على 60% من درجة التحريري والعملي والاكلينيكي والشفوي كل على حدة.

مادة (29): في حالة إستنفاد مدة القيد يمكن لطالب الدراسات العليا إعادة التسجيل مرة أخرى ولا يعتمد النجاح في الجزء الأول أو الرسالة ويجب إعادتهما.

### Assessment Schedule and Weighing of Assessments

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ملحوظة: تعادل درجات الطالب طبقاً للنقطة على الوجه التالي:

- **A** : 4 نقطة 1 - 90% فأكثر
- **A-** : 3.67 نقطة 85% حتى أقل من 90%
- **B+** : 3.33 نقطة 80% حتى أقل من 85%
8. Course specifications:

Anatomy and embryology course specifications.
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Anatomy department.
Academic Level: Master – 1st semester.
Date of specification approval:

A- Basic Information:
Title: Anatomy and embryology course. Code: NP6001
Credit Hours: 1 hour Lecture: 1 h/week Total: 15 hour

Coordinator: Anatomy department.
**B - Professional Information:**

**1- Course Aims:**

The aims of this course are to enable the candidate to:

1- Acquire an appropriate knowledge about the development of the nervous system.
2- Explore in detail the cross sectional anatomy of the nervous system.
3- Integrate the anatomical data and the mechanisms with the ongoing basic sciences as histology, physiology and biochemistry.
4- Integrate the anatomical data and the clinical manifestations of nervous system affection due to variable neurological disorders.
5- Develop the basic scientific research skills in the field of anatomy and embryology.

**2- Intended Learning Outcomes (ILOs) from the Course:**

**A- Knowledge and understanding**

By the end of the course the candidate will be able to:

A1- Understand the basic science of the embryological development of the nervous system.
A2- Identify the anatomy of the skull and vertebrae.
A3- Identify the anatomical structures of the central and peripheral nervous system.
A4- Describe and explain the cross sectional anatomy of cerebrum, cerebellum, brainstem, spinal cord, nerve roots and peripheral nerves.
A5- Describe and explain the anatomical pathways of the motor nervous system (including pyramidal and extrapyramidal tracts) and the different bodily sensations.
A6- Recognize the blood supply of the different anatomical nervous structures.

**B- Intellectual skills**

By the end of the course the candidate will be able to:

B1- Interpret the effect of structural injury of the different anatomical structures and relation to clinical manifestations of neurological disorders.
B2- Interpret the effect on decreased blood supply of the different anatomical structures and relation to clinical manifestations of neurological disorders.
B3- Integrate the anatomy of the nervous system with the other basic and clinical sciences.

**C- Professional skills**

By the end of the course the candidate will be able to:

C1- Present the anatomical scientific data in a graphical form.
C2- Interpret the effect of anatomical lesions and basis of neurological disorders.

**D- General and transferable skills**
By the end of the course the candidate will be able to:
D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.
D2- Responsible towards work.
D3- Understand the importance of life-long self-learning and show a strong commitment to it.

3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
</tr>
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<tbody>
<tr>
<td>Development of the nervous system</td>
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</tr>
<tr>
<td>Anatomy of the cerebral cortex</td>
<td>1</td>
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<tr>
<td>Anatomy of brain stem</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of cerebellum</td>
<td>1</td>
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<tr>
<td>Anatomy of basal ganglia</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy thalamus &amp; hypothalamus</td>
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<tr>
<td>Anatomy of limbic system</td>
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<tr>
<td>Anatomy of cranial nerves I,II,III,IV,VI,V</td>
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<tr>
<td>Anatomy of cranial nerves VII,VIII,IX,X,XI,XII</td>
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<tr>
<td>Anatomy spinal nerves &amp; roots</td>
<td>1</td>
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<tr>
<td>Anatomy of peripheral nerves</td>
<td>1</td>
</tr>
<tr>
<td>Meninges, ventricles and CSF</td>
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<tr>
<td>Blood supply of nervous system</td>
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<tr>
<td>Anatomy of skull and vertebrae</td>
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</tr>
<tr>
<td>Applied anatomy: lesions in cerebrum, brain stem &amp; spinal cord</td>
<td>1</td>
</tr>
</tbody>
</table>

L: Lectures

4. Student assessment methods:
4.1 Written exam 30
4.2 Practical exam 10
4.3 Oral exam 10
Total 50

5. List of references:
5.1 Course notes (paper and/or electronic)
Lecture notes.
5.2 Essential books (Text books)
High Yield Neuroanatomy, James D Fix.
Clinical Neuroanatomy, Stephen G Waxman.

5.3 Recommended books
5.4 Periodicals, web sites, etc

Physiology course specifications.
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Physiology department.
Academic Level: Master – 1st semester.
Date of specification approval:

A- Basic Information:
Title: Physiology course. Code: NP6002
Credit Hours: 1 hour Lecture: 1 h/week Total: 15 hour

Coordinator: Physiology department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate functional background of the nervous system.
2- Explore in detail the physiological basis of function, transmission and control in the central and peripheral nervous systems.
3- Integrate the physiological data and the mechanisms with the ongoing basic sciences as anatomy, physiology and biochemistry.
4- Integrate the physiological data and the clinical manifestations of nervous system affection due to variable neurologic disorders.
5- Develop the basic scientific research skills in the field of physiology of nervous system.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Understand the basic science of physiology of the nervous system.
A2- Describe and explain the physiology of excitable tissues and synaptic junctions.
A3- Describe and explain the physiological basis of the reflexes and different modalities of sensations.
A4- Describe and explain the physiological basis of control of posture and movement.
A5- Identify the physiology of the higher functions of the nervous system as language, memory, learning, emotion and behavior.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Interpret the physiological basis of the nervous system and relation to clinical practice.
B2- Interpret the physiological basis of the nervous system and relation to the clinical manifestations of different neurological disorders.
B3- Integrate the physiology of the nervous system with the other basic and clinical sciences.

C- Professional skills
By the end of the course the candidate will be able to:
C1- Interpret the effect of disorders of physiological nervous system and the basis of neurological disorders.
C2- Apply the knowledge and understanding of the physiological basis to plan and undertake actions in the treatment of different neurological diseases.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.
D2- Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.
D3- Understand the importance of life-long self-learning and show a strong commitment to it.

3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
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<tbody>
<tr>
<td>Pain</td>
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<tr>
<td>Thermal regulation</td>
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<td>Topic</td>
<td>Credits</td>
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<td>----------------------------------------------------------------------</td>
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<tr>
<td>Glucose homeostasis</td>
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<tr>
<td>Thyroid gland</td>
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<tr>
<td>Calcium homeostasis</td>
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<tr>
<td>Hypothalamus</td>
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<tr>
<td>Central neurotransmitters</td>
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<tr>
<td>RAS and consciousness</td>
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<tr>
<td>Sleep and coma</td>
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<tr>
<td>EEG</td>
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<tr>
<td>Speech</td>
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<tr>
<td>Memory and learning</td>
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<tr>
<td>Sensory systems and lesions</td>
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</tr>
<tr>
<td>Motor systems and lesions</td>
<td>1</td>
</tr>
<tr>
<td>Reflexes</td>
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</tr>
<tr>
<td>Pituitary gland</td>
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<tr>
<td>Adrenal cortex</td>
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<tr>
<td>Neuromuscular transmission and its clinical disorder</td>
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<tr>
<td>Molecular mechanism of skeletal muscle contraction</td>
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</tr>
<tr>
<td>Autonomic nervous system and adrenal medulla</td>
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</tbody>
</table>

L: Lectures

4. Student assessment methods:
4.1 Written exam 30
4.2 Oral exam 10
4.2 Practical exam 10
Total 50

5. List of references:
5.1 Course notes (paper and/or electronic)
Lecture notes.
5.2 Essential books (Text books)
Guyton: Textbook of Medical Physiology.
Ganong: Review of Medical Physiology.
5.3 Recommended books
5.4 Periodicals, web sites, etc

Pharmacology course specifications.
Faculty of Medicine – Ain Shams University
Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Pharmacology department.
Academic Level: Master – 1st semester.
Date of specification approval:

A- Basic Information:
Title: Pharmacology course.   Code: NP6003
Credit Hours: 1 hour   Lecture: 1 h/week   Total: 15 hour

Coordinator: Pharmacology department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge about the principles of pharmacology.
2- Explore in detail the dosing, pharmacokinetics, metabolism, mechanism of action, side effects, drug interactions and use in specific situations for each medication that is used in the field neurology and psychiatry.
3- Integrate the pharmacological data and the mechanisms with the ongoing basic sciences as anatomy, physiology and biochemistry.
4- Develop the basic scientific research skills in the field of pharmacology.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs used in the field of neurology and psychiatry.
A2- Discuss the adverse and toxic effects of commonly used groups in addition to limitations of use of such as contraindications and drug interactions.
A3- Define the principles, indications, relative advantages and disadvantages of various pharmacotherapy modalities.
A4- Recognize the rational and general guidelines of the use of drugs in the proper dose in the normal population and in special population such as pediatrics, geriatrics, pregnancy, and in cases of liver or kidney impairment.
**B- Intellectual skills**
By the end of the course the candidate will be able to:

**B1** - Calculate accurately the drug dosage and plasma half life in different patient populations.

**B2** - Obtain and record a comprehensive drug history of the patient.

**B3** - Document drug adverse reactions.

**B4** - Write prescriptions for different neurological diseases.

**C- Professional skills**
By the end of the course the candidate will be able to:

**C1** - Analyze information relating to practical aspects and current advances within the pharmacological sciences.

**C2** - Apply the knowledge and understanding of the pharmacological sciences to plan and undertake actions in the treatment of different neurological diseases.

**C3** - Demonstrate confidence and competency in understanding, analysis and interpreting pharmacological data.

**D- General and transferable skills**
By the end of the course the candidate will be able to:

**D1** - Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.

**D2** - Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.

**D3** - Understand the importance of life-long self-learning and show a strong commitment to it.

### 3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
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</thead>
<tbody>
<tr>
<td>Antiplatelets</td>
<td>1</td>
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<tr>
<td>Anticoagulants</td>
<td>1</td>
</tr>
<tr>
<td>Lipid lowering agents</td>
<td>1</td>
</tr>
<tr>
<td>Drug therapy of epilepsy</td>
<td>1</td>
</tr>
<tr>
<td>Drug therapy of dementia</td>
<td>1</td>
</tr>
<tr>
<td>Drug therapy of parkinsonism</td>
<td>1</td>
</tr>
<tr>
<td>Analgesics</td>
<td>1</td>
</tr>
</tbody>
</table>
Drug therapy of migraine  1
Corticosteroids  1
Immunomodulators  1
Antimicrobials  1
Antipsychotics  1
Antidepressants  1
Mood Stabilizers  1
Anxiolytics  1
Psychoactive substances  1

L: Lectures

4. Student assessment methods:
4.1 Written exam  30
4.2 Practical exam  10
4.3 Oral exam  10
    Total  50

5. List of references:
5.1 Course notes (paper and/or electronic)
    Lecture notes.
5.2 Essential books (Text books)
    Principles of Clinical Pharmacology.
5.3 Recommended books
5.4 Periodicals, web sites, etc

Biochemistry course specification.
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Biochemistry department.
Academic Level: Master – 1st semester.
Date of specification approval:

A- Basic Information:
Title: Biochemistry course.  
Code: NP6004

Credit Hours: 1 hour  
Lecture: 1 h/week  
Total: 15 hour

Coordinator: Biochemistry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Understand the essential topics of biochemistry especially those related to the nervous system.
2- Identify the physico-chemical basis of the biological systems; and the related clinical problems.
3- Understand the basic principles of molecular biology and biotechnology methods.
4- Integrate the biochemical data and the clinical manifestations different neurologic disorders.
5- Develop the basic scientific research skills in the field of biochemistry and molecular biology.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Understand the basic science of the biochemistry and relation to the nervous system.
A2- Describe the metabolism of carbohydrates, lipids and proteins.
A3- Describe the basis of immunity including the different immunological reactions and their implications in etiology and treatment of different neurological diseases.
A4- Describe the basis of synthesis and metabolism of neurotransmitters and their implications in different neurological diseases.
A5- Describe the basis of molecular biology as DNA/RNA structure, replication, transcription, recombinant DNA technology and gene therapy.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Interpret the effect of biochemical disorders of nervous system and relation to clinical manifestations of neurological disorders.
B2- Identify the biochemical basis of immunological therapy of neurological disorders.
B3- Integrate the biochemistry of the nervous system with the other basic and clinical sciences.
C- Professional skills
By the end of the course the candidate will be able to:
C1- Present the biochemical scientific data in a graphical form.
C2- Interpret the effect of biochemical disorders and the basis of neurological disorders.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.
D2- Understand the importance of life-long self-learning and show a strong commitment to it.

3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbohydrate metabolism</td>
<td>2</td>
</tr>
<tr>
<td>Lipid metabolism</td>
<td>2</td>
</tr>
<tr>
<td>Protein metabolism</td>
<td>2</td>
</tr>
<tr>
<td>Vitamins</td>
<td>2</td>
</tr>
<tr>
<td>Synthesis &amp; metabolism of neurotransmitters</td>
<td>3</td>
</tr>
<tr>
<td>Basic immunology (tissues &amp; cells of immune response, types of immune response, cytokines)</td>
<td>3</td>
</tr>
<tr>
<td>Molecular biology</td>
<td>1</td>
</tr>
</tbody>
</table>

L: Lectures

4. Student assessment methods:
4.1 Written exam 30
4.2 Practical exam 10
4.3 Oral exam 10
Total 50

5. List of references:
5.1 Course notes (paper and/or electronic)
Lecture notes.
5.2 Essential books (Text books)
Harper’s Biochemistry.
5.3 Recommended books
5.4 Periodicals, web sites, etc

Psychology course specification.
Faculty of Medicine – Ain Shams University
Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Master – 1st semester.
Date of specification approval: A

A- Basic Information:
Title: Psychology course. Code: NP6005
Credit Hours: 2 hour Lecture: 2 h/week Total: 30 hour
Coordinator: Neurology and Psychiatry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
   1- Define the basic psychology
   2- Grasp the psychological impact on human behavior
   3- Recognize the psychophysiology and neurochemistry
   4- Appreciate social sciences and social psychology

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Understand the basic psychology
A2- Describe the psychological impact on human behavior
A3- Understand the psychophysiology and neurochemistry
A4- Describes social sciences and social psychology.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Identify the basic psychology
B2- Interpret the different psychological effects on the human behavior
B3- Interpret psychophysiology and neurochemistry  
B4- Identify social sciences and social psychology

C- Professional skills  
By the end of the course the candidate will be able to:  
C1- Integrate the psychological factors in the plan of management of psychiatric disorders  
C2- Integrating neurochemistry and psychophysiology in the treatment  
C3- Applying the social sciences in developing a healthy doctor-patient relationship

D- General and transferable skills  
By the end of the course the candidate will be able to:  
D1- Deal with different types of behavior  
D2- Become a part of a team work  
D3- Develop good therapeutic alliance with the patients

3. Course contents: 

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Psychology</td>
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<tr>
<td>Conscious and unconscious processes</td>
<td>3</td>
</tr>
<tr>
<td>Psycho-physiology and neurochemistry</td>
<td>2</td>
</tr>
<tr>
<td>Social psychology and social sciences</td>
<td>2</td>
</tr>
<tr>
<td>Women psychology</td>
<td>2</td>
</tr>
<tr>
<td>Family psychology</td>
<td>2</td>
</tr>
<tr>
<td>Human growth and developmental psychology</td>
<td>3</td>
</tr>
<tr>
<td>Culture, society and religion in relation to psychology</td>
<td>2</td>
</tr>
<tr>
<td>Introduction in Epidemiology, statistics</td>
<td>2</td>
</tr>
<tr>
<td>Psychological assessment and psychometrics</td>
<td>2</td>
</tr>
<tr>
<td>Doctor - patient relationship</td>
<td>2</td>
</tr>
<tr>
<td>Psychology in relation to medicine</td>
<td>2</td>
</tr>
<tr>
<td>Basic genetics in relation to psychiatry</td>
<td>2</td>
</tr>
</tbody>
</table>

L: Lectures
4. Student assessment methods:
4.1 Written exam 60
4.2 Clinical exam 20
4.3 Oral exam 20

5. List of references:
5.1 Course notes (Lectures)
5.2 Essential books
   1. Medical Psychology Institute of Psychiatry 2008
   2. Psychology David G Myers 2006
5.3 Recommended books
   1. Hilgard’s Psychology Edward Smith 2002
   2. Psychology for psychiatrists Gupta & Gupta 2000
5.4 Periodicals, websites; www.asuip.net, etc

Psychiatry course specification.
Faculty of Medicine – Ain Shams University
Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Master – 2nd, 3rd and 4th semester.
Date of specification approval:

A- Basic Information:
Title: Psychiatry course. Code: NP6006
Credit Hours: 6 hour Lecture: 1h/w Total: 45
Clinical: 2h/w Total: 90

Coordinator: Neurology and Psychiatry department.

B- Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
   1. Understanding the pathophysiology of different psychiatric disorders and the associated neuroscience background.
2. Understanding the appropriate use and interpretation of common diagnostic studies.
3. Development of the necessary knowledge and skills to approach and manage the wide array of psychiatric disorders.
4. Acquiring the skills for competently performing the basic psychiatric procedures.
5. Effectively perform a detailed and an efficient psychiatric history taking and examination.
6. Ability to carry out the diagnosis and plan the treatment of the commonly encountered psychiatric disorders and emergencies in a compassionate, appropriate and effective manner.
7. Effectively work within a team and implement liaison with members of the other medical specialties.
8. Capacity to learn independently and to use the medical literature to improve the clinical practice.
9. Development of the necessary skills for finding scientific information, critical appraisal of medical literature and scientific writing.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
   A1- Understanding the basic Knowledge that will promote competent diagnosis and management of psychiatric disorders.
   A2- Understanding the epidemiology, psychopathology and outcome of psychiatric disorders.
   A3- Understanding and mastering the biological, psychological and social factors in the development of psychiatric disorders.
   A4- Recognize different instruments, tools and psychological assessments in psychiatry.
   A5 – Recognize medical ethics as applied to psychiatric practice.
   A6- Identify the legal aspects of psychiatric practice.

B- Intellectual skills
By the end of the course the candidate will be able to:
   B1- Assigning a correct diagnosis and make reasonable differential diagnosis.
   B2- Acquiring advanced knowledge about pharmacotherapy, psychotherapy and other modalities of therapeutic interventions in psychiatry.
B3 - Conclude the diagnosis of the different psychiatric disorders based on clinical data and investigations.
B4 - Design the treatment plan of psychiatric disorders and formulate a systemic risk assessment.
B5 – Able to demonstrate a working knowledge of prevention

C - Professional skills
By the end of the course the candidate will be able to:
C1 - Perform a detailed physical and mental status examination to elicit and identify correctly the full range of symptoms and signs, in psychiatric patients.
C2 - Carry out investigation in an efficient way.
C3- Manage patients with the full range of current pharmacological and psychological treatment.
C4 –Write coherent, concise and clinically appropriate progress notes and recognize the importance of prompt and efficient documentation of the clinical record.
C5- Judge and critically appraise the psychiatric literatures.
C6 - Search for scientific information and use the psychiatric literatures to improve clinical practice.

D - General and transferable skills
By the end of the course the candidate will be able to:
D1 - Work effectively within a team and implement liaison with members of other specialties.
D2 - Develop the communication and interpersonal skills necessary to communicate effectively with other medical members, patients and their families.
D3 - Use computer skills to review the recent medical literature worldwide in order to improve clinical practice.
D4- Show interest in systemic integration of the biologic, psychologic and social frames of reference for understanding, behaviour.
D5- Demonstrate familiarity with the application of the multidisciplinary team in psychiatry.
D6- Give comprehensive information and health education to the patients and their families.
D7- Demonstrate issues of confidentiality, ethical and legal practice.
D8- Conduct an efficient doctor patient relationship.
3. Course contents:

2nd semester

Title: Module 1
Credit Hours: 2 hour  
Lecture: 1 h/w  
Clinical: 2 h/w  
Total: 15 hour  
Total: 30 hour

Module 1

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<tr>
<th>Topics</th>
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<tbody>
<tr>
<td>History taking and mental state examination</td>
<td>L 3  C 6</td>
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<tr>
<td>Schizophrenia and other psychotic disorders</td>
<td>L 3  C 6</td>
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<tr>
<td>Mood disorders</td>
<td>L 3  C 6</td>
</tr>
<tr>
<td>Neurotic and stress related disorders</td>
<td>L 3  C 6</td>
</tr>
<tr>
<td>Addiction Psychiatry</td>
<td>L 3  C 6</td>
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</table>

L: Lecture and C: Clinical

3rd semester

Title: Module 2
Credit Hours: 2 hour  
Lecture: 1 h/w  
Clinical: 2 h/w  
Total: 15 hour  
Total: 30 hour

Module 2

<table>
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<tr>
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<td>Organic mental disorders</td>
<td>L 2  C 6</td>
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<tr>
<td>Personality disorders</td>
<td>L 3  C 8</td>
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<tr>
<td>Sexual disorders</td>
<td>L 2  C 2</td>
</tr>
<tr>
<td>Eating disorders</td>
<td>L 2  C 4</td>
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<tr>
<td>Service planning and administration</td>
<td>L 1</td>
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<tr>
<td>Psychiatric disorders in women</td>
<td>L 1  C 4</td>
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<tr>
<td>Guidelines of management of psychiatric disorders in pregnant and lactating women</td>
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<tr>
<td>Psychiatric emergencies</td>
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<td>Investigation in psychiatry</td>
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L: Lecture and C: Clinical
Module 3

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<td>Child psychiatry</td>
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<td>Old age psychiatry</td>
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<tr>
<td>Cultural psychiatry</td>
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<tr>
<td>Psychotherapy, physical treatments and other models of therapy</td>
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<tr>
<td>Sleep disorders</td>
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<tr>
<td>Forensic and Ethics</td>
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Other topics
- Basics psychopharmacology.
- Genetic and counseling.
- Prevention in psychiatry.
- Future of psychiatry.
- Stigma because of mental illness.
- Commonly used instruments in psychiatry.
- Quality of life in psychiatry.
- Role of family in psychiatric disorder.
- Fever in psychiatry.
- Clinical audit.

3. L: Lecture and C: Clinical

4. Student assessment methods:
4.1 Written exam 180
4.2 Clinical exam 100
4.3 Oral exam 20
Total 300

5. List of references:
5.1 Course notes (Lectures)
5.2 Essential books

1. Synopsis of psychiatry (three volumes)  Benjamin James Sadock, Virginia Alcott Sadock 2007
2. Comprehensive Textbook of psychiatry  Benjamin J Sadock; Virginia A Sadock 2004
3. Case files psychiatry  Toy Klamen 2004

5.3 Recommended books

1 Neurobiology of mental illness: second edition  Dennis Charney, Eric Niestter 2005
2 Handbook of psychiatric drugs  Lawrence J., Rhoda K., Christopher 2005

5.4 Periodicals, websites; www.asuip.net , etc

Neurology course specifications,
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Master – 2nd, 3rd and 4th semester.
Date of specification approval:

A- Basic Information:
Title: Neurology course. Code: NP6007
Credit Hours: 6 hour Lecture: 1 h/week Total: 45
Clinical: 2 h/week Total: 90

Coordinator: Neurology and Psychiatry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge about the wide array of neurological disorders.
2- Perform an efficient neurological history taking and examination.
3- Carry out the diagnosis and plan the treatment of the commonly encountered neurological diseases and emergencies.
4- Acquire the appropriate professional attitudes, communication and problem solving skills.
5- Use the medical literature to improve the clinical practice and develop independent and life-long learning.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Discuss the common neurological disorders regarding the etiology, clinical picture, diagnosis, prevention and treatment.
A2- State the clinical manifestations and differential diagnosis of the common neurological disorders.
A3- Describe the use and benefit of the neuroimaging studies and neurophysiology procedures.
A4- Recognize the role, privilege and limitations of the different medication groups and therapeutic procedures used in the field of neurology.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Analyze symptoms and signs, and hence constructing a differential diagnosis for the common presenting complaints.
B2- Design an appropriate diagnostic plan for evaluation of the common neurological disorders, and institute the appropriate diagnostic, preventive and therapeutic interventions.
B3- Construct a treatment plan, incorporating medical knowledge, available diagnostic procedures and patient’s preferences in a cost effective manner.

C- Professional skills
By the end of the course the candidate will be able to:
C1- Take a thorough history of appropriate depth and detail.
C2- Perform a complete and problem focused neurological examination.
C3- Interpret the basic neurophysiology procedures and neuroimaging studies.
C4- Search for scientific information and use the medical literature to improve clinical practice.
C5- Recognize and carry out competent management in the wide array of neurological diseases and neurological emergency situations including increased intracranial pressure, evolving stroke, intracranial hemorrhage, status epilepticus, spinal cord compression and impending respiratory failure due to neuromuscular weakness.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.
D2- Acquire an effective comprehensive clinical method.
D3- Work within the organizational, interpersonal and inter-professional dynamics of the clinical team.
D4- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.
D5- Understand the importance of life-long self-learning and show a strong commitment to it.

3. Course contents:
2nd semester
Title: Module 1 Code: NP6007 a
Credit Hours: 2 hour Lecture: 1 h/w Total: 15 hour
Clinical: 2 h/w Total: 30 hour

### Module 1

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>L</td>
</tr>
<tr>
<td>History taking and localization</td>
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<tr>
<td>Neurological examination</td>
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<tr>
<td>Investigations</td>
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<tr>
<td>Epilepsy</td>
<td>4</td>
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<tr>
<td>Dementia</td>
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<td>Headache</td>
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L: Lecture and C: Clinical
3rd semester
Title: Module 2
Code: NP6007 b
Credit Hours: 2 hour
Lecture: 1 h/w  Total: 15 hour
Clinical: 2 h/w  Total: 30 hour

Module 2

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<tr>
<th>Topics</th>
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<th>C</th>
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<tr>
<td>Cerebrovascular diseases</td>
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<td>Vasculitis &amp; collagen vascular disorders</td>
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<tr>
<td>Multiple sclerosis &amp; other demyelinating</td>
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<tr>
<td>Cerebrospinal fluid disorders</td>
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<tr>
<td>CNS infections</td>
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L: Lecture and C: Clinical

4th semester
Title: Module 3
Code: NP6007 c
Credit Hours: 2 hour
Lecture: 1 h/w  Total: 15 hour
Clinical: 2 h/w  Total: 30 hour

Module 3

<table>
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<tr>
<th>Topics</th>
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<th>C</th>
</tr>
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<tbody>
<tr>
<td>Movement disorders</td>
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<td>6</td>
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<tr>
<td>Tremor, ataxia and cerebellar disorders</td>
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<td>3</td>
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<tr>
<td>Polyneuropathies</td>
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<td>Muscle diseases</td>
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<td>6</td>
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<tr>
<td>Motor neuron disease</td>
<td></td>
<td>1</td>
<td>3</td>
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<tr>
<td>Spinal cord disorders</td>
<td></td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Tumors of nervous system &amp; paraneoplastic syndromes</td>
<td></td>
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</table>

L: Lecture and C: Clinical

4. Student assessment methods:
4.1 Written exam  180
4.2 Clinical exam  100
4.3 Practical exam  20
Total  300
5. List of references:
5.1 Course notes (paper and/or electronic)
Lecture notes.
National books approved by Neurology & Psychiatry Department.
5.2 Essential books (Text books)
Brain’s Diseases of the Nervous System, Michael Donaghy
Adams and Victor’s Principles of Neurology, Ropper AH and Brown RH.
Clinical Neurology, Aminoff MJ, Greenberg DA and Simon RP.
Merritt’s Neurology, Houston H and Rowland LP.
5.3 Recommended books
5.4 Periodicals, web sites, etc

Pathology course specifications:
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Pathology department.
Academic Level: Master – 2nd semester.
Date of specification approval:

A- Basic Information:
Title: Pathology course. Code: NP6008
Credit Hours: 2 hour Lecture: 2 h/week Total: 30 hour

Coordinator: Pathology department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge for the common neurological/psychiatric disorders.
2- Explore in detail the etiology, pathogenesis, morphological changes, clinical manifestations and complications of neurological/psychiatric disorders.
3- Integrate the pathological data and the mechanisms with the ongoing basic sciences as anatomy, physiology and biochemistry.
4- Determine the most likely diagnosis and management of the variable neurological/psychiatric disorders when provided with the clinical history, anatomical lesions and the laboratory data.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to: 
A1- Recognize and define the basic pathological processes that disturb the structure and function of the body including cell injury, tissue response to injury (inflammation, healing and repair), hemodynamic disturbances, neoplasia and infections.
A2- List the etiology and pathogenesis of the common neurological/psychiatric disorders.
A3- Describe the basic pathologic features (morphologic alterations) including the gross and microscopic pictures of various neurological diseases.
A4- Identify the functional consequences and clinical manifestations of the common neurological/psychiatric disorders.
A5- Explain the symptoms and signs of the disease based on its pathogenesis, thereby demonstrate clinical reasoning.
A6- Identify the complications of the common neurological diseases.
A7- Recognize the terminology used in the classification, investigations and description of the disease, enabling effective communication with professional colleagues and patients.

B- Intellectual skills
By the end of the course the candidate will be able to: 
B1- Correlate the pathological features of the disease/disorder with its clinical presentation, laboratory investigations and complications.
B2- Analyze the basic clinical and pathological data essential to diagnose the various neurological/psychiatric disorders.
B3- Integrate the pathology of nervous system with the other basic and clinical sciences.

C- Professional skills
By the end of the course the candidate will be able to: 
C1- Recognize the important pathological lesions in a pathology report that can provide reliable basis for rational clinical care and therapy.
C2- Interpret the effect of pathological lesions and basis of neurological/psychiatric disorders.
**D- General and transferable skills**

**By the end of the course the candidate will be able to:**

**D1-** Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.

**D2-** Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.

**D3-** Understand the importance of life-long self-learning and show a strong commitment to it.

### 3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General pathology (acute &amp; chronic inflammation, cell injury, tissue repair &amp; healing, granulomas, intracellular accumulations, infections, neoplasia)</td>
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</tr>
<tr>
<td>Vascular lesions (anoxia, infarction, hemorrhage, aneurysms, vascular malformations, vasculitis)</td>
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</tr>
<tr>
<td>CNS infections (bacterial, viral, fungal, parasitic)</td>
<td>2</td>
</tr>
<tr>
<td>CNS tumors</td>
<td>2</td>
</tr>
<tr>
<td>Demyelinating diseases</td>
<td>2</td>
</tr>
<tr>
<td>Dementia</td>
<td>2</td>
</tr>
<tr>
<td>Parkinsonism</td>
<td>2</td>
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<tr>
<td>Myopathy</td>
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<tr>
<td>Neuropathy</td>
<td>2</td>
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<tr>
<td>Congenital malformations</td>
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<tr>
<td>Metabolic &amp; toxic diseases</td>
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<tr>
<td>Trauma (herniation syndromes, cerebral contusions)</td>
<td>1</td>
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<tr>
<td>Degenerative diseases</td>
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<tr>
<td>Psychopathology (an overview to the phenomenological approaches)</td>
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<tr>
<td>Concept on normality Vs abnormality</td>
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<tr>
<td>Family dynamics &amp; psychiatric disorders</td>
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<tr>
<td>Psychopathology of affect, speech and language, motor behaviour, perception, thinking, consciousness, self-awareness</td>
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and volition and insight.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Psychopathology of homicide, aggression and violence</td>
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<tr>
<td>Psychopathology of gender and sexual disorders</td>
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<tr>
<td>Dynamic psychopathology</td>
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</table>

**L: Lectures**

4. **Student assessment methods:**
   4.1 Written exam 60
   4.2 Oral exam 40
   Total 100

5. **List of references:**
   5.1 **Course notes (paper and/or electronic)**
       General and Systemic Pathology Notes written by staff members of Pathology Department
   5.2 **Essential books (Text books)**
       Basic Pathology, Kumar V, Cotran RS, Robbins SL., Fish’s Psychopathology
   5.3 **Recommended books**
   5.4 **Periodicals, web sites, etc**

**Internal medicine course specifications,**
Faculty of Medicine – Ain Shams University

**Course specifications:**
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Major.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Internal medicine department.
Academic Level: Master – 3rd semester.
Date of specification approval:

**A- Basic Information:**
Title: Internal medicine course. Code: NP6009
Credit Hours: 2 hour Lecture: 2 h/week Total: 30 hour

Coordinator: Internal medicine department.

**B - Professional Information:**
1- **Course Aims:**
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge for the etiology, clinical manifestations and treatment the common neurological complications of various medical diseases.
2- Acquire an appropriate knowledge for the diagnosis and treatment of the common medical illness associating neurological diseases.
3- Determine the diagnostic tools and methods of treatment of interfering medical and neurological diseases.
4- Differentiate between neurological and medical causes of coma.
5- Recognize the non interfering methods of treatment used in management of comorbid medical and neurological diseases.

2- **Intended Learning Outcomes (ILOs) from the Course:**
A- **Knowledge and understanding**
By the end of the course the candidate will be able to:
A1- Identify the common medical problems presenting with neurological/psychiatric symptoms or signs.
A2- Recognize the etiology and treatment of the common neurological /psychiatric symptoms and signs presenting in the clinical picture of different medical diseases.
A3- Identify the proper diagnostic tools needed to differentiate neurological-psychiatric from metabolic causes of coma.
A4- Identify the neurological-psychiatric complications of the different medical diseases and effectively treat them in a way that does not interfere with other given medications.
A5- Recognize the different neurological-psychiatric diseases that require consultation of the internal medicine in order to establish the proper plan of treatment.

B- **Intellectual skills**
By the end of the course the candidate will be able to:
B1- Analyze the neurological-psychiatric symptoms and signs in patients with other medical illness than neurological diseases.
B2- Identify the neurological complications in the different medical illness and effectively manage them.
B3- Design an appropriate plan for evaluation of the common presenting complaints which require cooperation between neurology and internal medicine physicians either to establish a proper diagnosis or prescribe an effective treatment.

C- **Professional skills**
By the end of the course the candidate will be able to:
C1- Take a thorough history of appropriate detail relative to the clinical context.
C2- Demonstrate a problem focused physical examination

C3- Interpret the neurological symptoms and signs in patients with other medical illness than neurological diseases.

C4- Differentiate the neurological causes of coma from other metabolic causes of coma.

**D- General and transferable skills**

**By the end of the course the candidate will be able to:**

**D1-** Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.

**D2-** Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.

**D3-** Understand the importance of life-long self-learning and show a strong commitment to it.

### 3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
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<tbody>
<tr>
<td>L: Lectures</td>
<td>L</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of endocrinal diseases</td>
<td>4</td>
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<tr>
<td>Neurological/Psychiatric manifestations of hematological diseases &amp; oncology</td>
<td>4</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of immunological &amp; rheumatology diseases</td>
<td>4</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of GIT diseases</td>
<td>2</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of nephrology diseases</td>
<td>2</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of diseases due to nutritional disorders</td>
<td>3</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of tropical diseases &amp; diseases due to infection</td>
<td>3</td>
</tr>
<tr>
<td>Differential diagnosis of Coma</td>
<td>3</td>
</tr>
<tr>
<td>Neurological/Psychiatric manifestations of disturbance of electrolyte &amp; acid base balance</td>
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</tr>
<tr>
<td>Common neurological/psychiatric disorders in geriatric population</td>
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</table>

**4. Student assessment methods:**
4.1 Written exam   60  
4.2 Clinical exam   40  
    Total       100  

5. List of references:  
5.1 Course notes (paper and/or electronic)  
5.2 Essential books (Text books)  
    Davidson’s textbook of medicine  
    Current textbook of medicine.  
    Kumar textbook of medicine.  
    Hutchison’s Clinical Methods.  
5.3 Recommended books  
    Harrison textbook of medicine.  
5.4 Periodicals, web sites, etc

Culture Psychiatry course specifications.  
Faculty of Medicine – Ain Shams University

Course specifications:  
Program on which the course is given: Master of science in Neurology and Psychiatry.  
Major or minor element of programs: Minor.  
Department offering the program: Neurology and Psychiatry department.  
Department offering the course: Neurology and Psychiatry department.  
Academic Level: Diploma – 4th semester.  
Date of specification approval:  

A- Basic Information:  
Title: Culture Psychiatry course.      Code: E6090  
Credit Hours: 2 hour   Lecture: 2 h/week   Total: 30 hour

Coordinator: Neurology and Psychiatry department.

B - Professional Information:  
1- Course Aims:  
The aims of this course are to enable the candidate to:  
    1- Acquire appropriate knowledge on the cultural context of normative and deviant behavior
2- Recognize the anthropological and epidemiological and clinical aspects of the subject
3- Fostering systematic and wide ranging examination of the significance of culture in healthcare

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Recognize the role of cultural context on normal and deviant behavior
A2- Discuss the anthropological and epidemiological and clinical aspects of the subject
A3- Appreciate significance of culture in healthcare
B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Define the cultural variable and its impact on the general health
B2- Analyze the anthropological and epidemiological and clinical aspects of the subject
B3- design appropriate cultural epidemiological research

C- Professional skills
By the end of the course the candidate will be able to:
C1- Interpreting the culture impact on different psychiatric disorders
C2- Recognize the importance of biological factors to human behavior and mental disorders
C3- Be oriented to the psychological, social and cultural aspect of behavior and illness

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Develop the communication and interpersonal skills necessary for effective communication
D2- Being able to deal with different patients with different backgrounds

3. Course contents:

<table>
<thead>
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<th>Number of hours</th>
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<tr>
<td>Society, culture, race</td>
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<tr>
<td>Anthropology and ethnicity</td>
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</table>
Cultural Aetiology, Psychopathology and Management
Religion and Psychiatry
Trans-cultural Aspects of Psychiatric Disorders
Cross Culture Psychiatry
Ethno-psychopharmacology

4. Student assessment methods:
4.1 Written exam 60
4.2 Practical exam 40
Total 100

5. List of references:
5.1 Course notes (paper and/or electronic)
5.2 Essential books (Text books)
5.3 Recommended books
5.4 Periodicals, web sites, etc

Development of human capacities course specifications.
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Minor.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Diploma – 4th semester.
Date of specification approval:

A- Basic Information:
Title: Development of human capacities course. Code: E6091
Credit Hours: 2 hour Lecture: 2 h/week Total: 30 hour

Coordinator: Neurology and Psychiatry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1. Appreciate implementation of Human resource strategy.
2. Understanding the Human resource framework that can be directed in a manner that will advance both the objectives of the organization and the interests of the individual.
3. Recognize policies and procedures, which govern personnel activities in the work place.
4. Recognize these policies and principles then may be translated into action and into a productive and harmonious working environment.

2- Intended Learning Outcomes (ILOs) from the Course:

A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Understanding the outlines of the basic personnel policies, practices, and procedures in the Court System.
A2- Recognize personnel program that provides equal employment opportunity to all persons.
A3- Understanding the Human resource organization chart.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Collecting and documenting information about jobs when performing job analysis for purposes of classification, determining minimum qualifications, developing assessment devices or determining training needs.
B2- Addressing Position Description, desk audit, special questionnaire, and interview.
B3- Defining Job analysis as systematic process of collecting and making certain judgments about all of the important information relating to the nature of a specific job.

C- Professional skills
By the end of the course the candidate will be able to:
C1- Gather information about the work performed in the most practicable means possible.
C2- Analyze and document job analysis in a manner that is understandable to others.
C3-Selecting a data collection method, consider the purpose for collecting the information.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Lead a better career
D2- Improve the quality of work delivered

3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
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<td></td>
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<tr>
<td>Strategic management</td>
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<tr>
<td>Training and development</td>
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<td>Organization behavior</td>
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<td>Human resources information system</td>
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</table>

4. Student assessment methods:
4.1 Written exam 60
4.2 Clinical exam 40
Total 100

5. List of references:
5.1 Course notes (paper and/or electronic)
5.2 Essential books (Text books)
5.3 Recommended books
5.4 Periodicals, web sites, etc

Electroencephalogram (EEG) course specifications:
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Minor.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Master – 4th semester.
Date of specification approval:

A- Basic Information:
Title: Electroencephalogram (EEG) course. Code: E6092
Credit Hours: 2 hour Lecture: 1 h/w Total: 15 hour
Clinical: 2 h/w Total: 30 hour

Coordinator: Neurology and Psychiatry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge about the principles of electroencephalogram (EEG).
2- Explore in detail the physical principles of EEG, montages, pattern of normal and abnormal waves, ictal and interictal epileptiform patterns.
3- Integrate the pattern of EEG and the clinical data in order to reach proper diagnosis and treatment.
4- Identify the different types of EEG as interictal EEG, sleep EEG, video EEG and ictal EEG.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Discuss the methods for application of the EEG electrodes and different montages.
A2- Discuss the pattern of different EEG waves.
A3- Define the background activity, focal and paroxysmal epileptiform discharges.
A4- Recognize the value of EEG in the management of different neurological disorders.
A5- Recognize the different types of EEG and the indication of each of them.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Differentiate the normal waves, artifacts, epileptiform discharge, sleep pattern.
B2- Write an EEG report efficiently.
B3- Identify the need of each of the different types of EEG according to the clinical data of each patient.
C- Professional skills
By the end of the course the candidate will be able to:
C1- Correlate between the information provided by EEG and the clinical data of the patient, hence reaching the proper diagnosis.
C2- Apply the knowledge provided by EEG in the medical or surgical treatment of different neurological disorders especially epilepsy.
C3- Demonstrate competency in understanding and interpreting the different types of EEG.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Use the computer skills to review the recent medical literature; in order to improve the medical knowledge.
D2- Develop the communication and interpersonal skills necessary to communicate effectively with colleagues, other medical members, patients and their families.
D3- Understand the importance of life-long self-learning and show a strong commitment to it.

3. Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>Number of hours</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>Placement of EEG electrodes</td>
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<td>Montages</td>
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<td>EEG waves</td>
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<tr>
<td>Artifacts</td>
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<td>Epileptiform patterns</td>
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<td>Value of EEG</td>
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<tr>
<td>Types of EEG</td>
<td>2</td>
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</tbody>
</table>

L: Lectures and C: Clinical

4. Student assessment methods:
4.1 Written exam 60
4.2 Clinical exam 40
Total 100

5. List of references:
5.1 Course notes (paper and/or electronic)
Lecture notes.
5.2 Essential books (Text books)
Nerve conduction study & Electromyography course specifications.
Faculty of Medicine – Ain Shams University

Course specifications:
Program on which the course is given: Master of Science in Neurology and Psychiatry.
Major or minor element of programs: Minor.
Department offering the program: Neurology and Psychiatry department.
Department offering the course: Neurology and Psychiatry department.
Academic Level: Master – 4th semester.
Date of specification approval:

A- Basic Information:
Title: Nerve conduction study & Electromyography course. 
Credit Hours: 2 hour 
Lecture: 1 h/w 
Total: 15 hour 
Clinical: 2 h/w 
Total: 30 hour

Coordinator: Neurology and Psychiatry department.

B - Professional Information:
1- Course Aims:
The aims of this course are to enable the candidate to:
1- Acquire an appropriate knowledge about the principles of nerve conduction studies (NCS) and electromyography (EMG).
2- Explore in detail the electrical, physiological and anatomical basis needed for proper understanding the basis of NCS and EMG.
3- Explore in detail the normal patterns and the abnormal patterns in the different neurological disorders.
4- Perform and interpret NCS and EMG efficiently.
5- Identify the value of NCS and EMG in diagnosis of the different neurological disorders.

2- Intended Learning Outcomes (ILOs) from the Course:
A- Knowledge and understanding
By the end of the course the candidate will be able to:
A1- Discuss the physiological, anatomical and electrical basis of NCS and EMG.
A2- Discuss the patterns of NCS and EMG in the different neurological diseases.
A3- Define the principles and procedures for performing NCS and EMG.
A4- Recognize the rationale and general guidelines of the use of NCS and EMG in order to reach a proper diagnosis.

B- Intellectual skills
By the end of the course the candidate will be able to:
B1- Interpret NCS and EMG in an efficient and competent way.
B2- Write a report for NCS and EMG.
B3- Identify the value of NCS and EMG in order to reach the proper diagnosis of the different neurological disorders.

C- Professional skills
By the end of the course the candidate will be able to:
C1- Correlate between the information provided by NCS and EMG, and the clinical data of the patient, hence reaching the proper diagnosis.
C2- Demonstrate a competency in interpreting NCS and EMG.

D- General and transferable skills
By the end of the course the candidate will be able to:
D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.
D2- Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.
D3- Understand the importance of life-long self-learning.

3. Course contents:

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L: Lectures and C: Clinical

4. Student assessment methods:
4.1 Written exam   60
4.2 Clinical exam  40  
Total  100  

5. List of references:  
5.1 Course notes (paper and/or electronic)  
5.2 Essential books (Text books)  
5.3 Recommended books  
5.4 Periodicals, web sites, etc 

V – General information:  
1 - Monitoring of Training and Submission of Training Reports:  
- Proper and updated records are kept in our logbook reflecting the activities encountered sin our training.  
- We are ready for assessment after completion of each semester.  

2 - Action Completion of Clinical Training:  
Once all the training sessions are completed, the log book will be signed by the head of the department and the senior supervisor, and then will be submitted to the post graduate Secretariat.  

3 - Reference:  
The Training Guide is available at the post graduate Secretariat and could be downloaded from the following website.  

End of semester evaluation will be done after the end of 2nd, 3rd and 4th semester with total of 300 marks 

VI – Your log book:  
1. Introduction:  
Training in Neurology and Psychiatry at Ain Shams University is divided into Basic and Higher training. Basic training comprises the Master of Science and the Diploma Degree in Neurology & Psychiatry.  

Higher training is provided for specialists (neurologists-psychiatrists) with academic post at the university as part of the Medical Doctorate Degree in Neurology/Psychiatry.
2. **Supervisors:**

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  - Break
  - Group Staff Ward Round
  - Asst. Lecturer Ward Round

- **Sunday**
  - Resident Ward Round
  - Post-graduate Lecture 1
  - Break
  - Post-graduate Lecture 2
  - Break
  - Post-graduate Lecture 3
  - Break

- **Monday**
  - Resident Ward Round
  - Outpatient Clinics
  - Break
  - Epilepsy Group Meeting
  - Asst. Lecturer Ward Round / Conference Preparation

- **Tuesday**
  - Resident Ward Round
  - Case Presentation
  - Break
  - Group Staff Ward Round
  - Asst. Lecturer Ward Round

- **Wednesday**
  - Resident Ward Round
  - Journal Club
  - Weekly Conference
  - Break

- **Thursday**
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**Saturday**
- Resident Ward Round
- Case Presentation

**Sunday**
- Resident Ward Round
- Case Presentation

**Monday**
- Outpatient Clinics
- Journal Club

**Tuesday**
- Resident Ward Round
- Weekly Conference

**Wednesday**
- Resident Ward Round
- Case Presentation

**Thursday**
- Outpatient Clinics
### Unit III weekly Schedule

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**Saturday**
- Resident Ward Round
- Outpatient Clinics

**Sunday**
- Resident Ward Round
- Case Presentation

**Monday**
- Resident Ward Round
- Case Presentation

**Tuesday**
- Journal Club
- Weekly Conference
- Asst. Lecturer Ward Round

**Wednesday**
- Asst. Lecturer Ward Round

**Thursday**
- Resident Ward Round
- Case Presentation

**Monday**
- Resident Ward Round
- Case Presentation

**Saturday**
- Resident Ward Round
- Outpatient Clinics

**Sunday**
- Resident Ward Round
- Case Presentation

**Monday**
- Resident Ward Round
- Case Presentation

**Tuesday**
- Journal Club
- Weekly Conference
- Asst. Lecturer Ward Round

**Wednesday**
- Asst. Lecturer Ward Round

**Thursday**
- Resident Ward Round
- Case Presentation
3. **Tables for training records:**
Candidates are required to fulfill the listed activities in order to be eligible for the exam entry (the candidate is free to attend more and record his/her extra attendance).

**CONFERENCES ATTENDANCE**
(Minimum number required is 18)

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# Clinical Rounds Attendance

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### Thesis Attendance

(Minimum number required is 10)

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### General & Special Clinics Attendance

(Minimum number required is 12)

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### Emergency Attendance
(Minimum number required is 8)

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### Neurology ICU Attendance
(Minimum number required is 6)

<table>
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</table>
### Neurophysiology Sessions Attendance

(Minimum number required is 6)

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Place</th>
<th>Topics</th>
<th>Supervisor signature</th>
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### Case Presentations

(Minimum number required is 6)

<table>
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</table>
**POST GRADUATE LECTURES ATTENDANCE**
(Minimum number required is 12)

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4. **Log book preview:**

The candidate logbook will be reviewed and summarized during the semester evaluation and at the end of course in the table below. The results of this review will be totaled in the summary chart below.
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<tr>
<th>Semester</th>
<th>1&lt;sup&gt;st&lt;/sup&gt;</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt;</th>
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<tr>
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<td>Thesis attendance</td>
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<tr>
<td>General &amp; special clinics attendance</td>
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<tr>
<td>Emergency attendance</td>
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<tr>
<td>Case presentations</td>
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<tr>
<td>Post graduate lectures attendance</td>
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</table>

**VII – Head of department approval for the exam entry:**

The council of the Department of Neurology held on / / 20 was assured that the candidate has fulfilled the requirements needed for the exam entry and the candidate is now eligible for the exam entry.

Head of department signature
VIII – Thesis Follow up

التقرير النصف السنوي لعام / عن الطالب / المقيد لدرجة (ماجستير / الدكتوراة)

بقسم / تقرير السادة الأستاذة المشرفين

<table>
<thead>
<tr>
<th>جمع المادة العلمية وكتابة المقدمة</th>
<th>بدأ</th>
<th>أُنتهى من الجمع</th>
<th>أُنتهى من الإنتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>الجزء العملي</td>
<td>بدأ</td>
<td>أُنتهى من التحليل</td>
<td>أُنتهى من الإنتهاء</td>
</tr>
<tr>
<td>مناقشة النتائج</td>
<td>بدأ</td>
<td>أُنتهى من التحرير</td>
<td>أُنتهى من الإنتهاء</td>
</tr>
<tr>
<td>المراجعة النهائية مع المشرف</td>
<td>بدأ</td>
<td>أُنتهى تماما</td>
<td>أُنتهى من الإنتهاء</td>
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- رقم الفحص / المدقق
- إستمرار قيد الطالب
- شطب قيد الطالب

- تم تشكيل لجنة المناقشة
- نعم
- لا

- توقيع السادة المشرفين

وكيل الكلية
VIII – Thesis Follow up

التقرير النصفي السنوي لعام
عن الطالب
المقيد لدرجة (ماجستير / الدكتوراة)
بقسم

تقرير السادة الإساتذة المشرفين

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<td>End of the discussion</td>
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<tr>
<td>Signature of the supervisors and the director</td>
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Ratification of the supervisors

Signature of the Dean

Date of the examination

Signature of the Chair

Signature of the Dean

Signature of the Chair

Signature of the Dean
التقرير النصفي السنوي لعام / عن الطالب / المقيد لدرجة (ماجستير/ الدكتوراة) 

قسم / تقرير السادة الأساتذة المشرفين

جمع المادة العلمية وكتابة المقدمة بدأ / أشترك على الانتهاء

انتهى من الجمع

الجزء العملي بدأ / أشترك على الانتهاء

انتهى من التحليل

مناقشة النتائج بدأ / أشترك على الانتهاء

انتهى من التحرير

المراجعة النهائية مع المشرف بدأ / أشترك على الانتهاء

انتهى تماما

رأى السادة المشرفين

لا / إستمرار قيد الطالب

شطب قيد الطالب

رجاء السادة المشرفين

لم تشكيل لجنة المناقشة

نعم / تم تشكيك لجنة المناقشة

موافق / الشطب القيادي

توقيع السادة المشرفين

وكيل الكلية
### VIII – Thesis Follow up

التقرير النصف السنوي لعام

- عن الطالب
- المقيد لدرجة ( ماجستير / الدكتوراة )
- بقسم

التقرير السادة الاساتذة المشرفين

<table>
<thead>
<tr>
<th>جمع المادة العلمية و كتابة المقدمة</th>
<th>بدأ</th>
<th>أوكش على الانتهاء</th>
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<th>بدأ</th>
<th>أوكش على الانتهاء</th>
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<table>
<thead>
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<th>مناقشة النتائج</th>
<th>بدأ</th>
<th>أوكش على الانتهاء</th>
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</table>

<table>
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<th>المراجعة النهائية مع المشرف</th>
<th>بدأ</th>
<th>أوكش على الانتهاء</th>
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<table>
<thead>
<tr>
<th>رأى السادة المشرفين</th>
<th>إستمرار قيد الطالب</th>
<th>شطب قيد الطالب</th>
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خ.a. تم تشكيل لجنة المناقشة
- نعم
- لا

<table>
<thead>
<tr>
<th>توقيع السادة المشرفين</th>
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</table>
Evaluation Form

To be completed at -------------------------------------

Candidate
Supervisor
Location

Aim of training
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Comments by Candidate
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Comments by Supervisor
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Date of next meeting
Signed by candidate
Signed by Supervisor
Date
**Evaluation Forms**

To be completed at -----------------------------

*Candidate*

*Supervisor*

*Location*

Aim of training

________________________________________________________________
________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.

________________________________________________________________
________________________________________________________________

Comments by Candidate

________________________________________________________________
________________________________________________________________

Comments by Supervisor

________________________________________________________________
________________________________________________________________

Date of next meeting

Signed by candidate

Signed by Supervisor

Date
**IX – Evaluation Forms (to be completed at the end of each semester)**

To be completed at ____________________________

**Candidate**

**Supervisor**

**Location**

Aim of training

______________________________________________________________

________________________________________________________________

________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.

________________________________

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Comments by Candidate

________________________________________________________________

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________________________________________________________________

Comments by Supervisor

________________________________________________________________

________________________________________________________________

________________________________________________________________

Date of next meeting

Signed by candidate

Signed by Supervisor

Date
**Evaluation Form**

To be completed at -------------------------------

**Candidate**

**Supervisor**

**Location**

Aim of training

__________________________________________________________________
__________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Candidate

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Supervisor

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Date of next meeting

Signed by candidate

Signed by Supervisor

Date
Degree Program Evaluation Form by The Candidate

Please consider each pair of statements and decide which most clearly reflects your view and **tick one box or answer the question.**

I. Individual Information
1. Are you a graduate of ASU?  
   - yes  
   - no

2. Year and semester when studies began:

II. General Questions
1. What are the advantages/disadvantages of the general study environment at the University ASU?

2. What were your expectations when you applied to the degree?

3. Do you feel that the degree program prepares you well for your future studies or employment according to the demands and expectations of those institutions?  
   - yes  
   - no  
   - to some degree

4. Has the time limit of the program (two or three academic years) caused you any difficulties or inconveniences?  
   - yes  
   - no  
   - to some degree

III. Structure of Degree Program
1. Did you receive enough guidance in planning your study schedule in the beginning of the program?  
   - yes  
   - no  
   - to some degree

2. What were the main difficulties in the planning of your study schedule?

3. What is your general opinion on the structure of the degree program?
4. In your opinion, does the degree program offer a good balance of lectures, seminars, conferences, and book exams?  
☐ yes ☐ no ☐ to some degree

**a) General Studies**

i) Do you feel that you have received enough guidance on academic writing?  
☐ yes ☐ no ☐ to some degree

ii) Do you feel that you have acquired sufficient knowledge on research skills (e.g., quantitative and qualitative research methods)?  
☐ yes ☐ no ☐ to some degree

**b) Courses**

i) Have you had some special difficulties in completing some of the courses? Please specify.

ii) Has there been a sufficient variety of courses offered for your optional studies?  
☐ yes ☐ no ☐ to some degree

iii) Have you received enough guidance for the preparation of your thesis?  
☐ yes ☐ no ☐ to some degree

**IV. Concluding Points**
1. Did the degree program meet your expectations?  
☐ yes ☐ no ☐ to some degree

2. What aspects of the degree program do you particularly like?

3. What aspects of the degree program do you particularly dislike?

4. What are your suggestions on how to improve the program?

Thank you!