

توصيف برنامج ماجستير ٢٠١٣-٢٠١٤

Basic information

١-معلومات أساسية :

1- **Name of the program:** Master of Neuropsychiatry

2- **Nature of the program:** Multiple

3- **Departments responsible:**

- Neuropsychiatry department
- Physiology, Anatomy, Histology , Biochemistry, pharmacology ,pathology ,Internal medicine and Community Departments.

4- **Coordinator:**

- Prof. Abo Zaid Abdullah (Professor of Neurology)
- Prof. Mohammed Al Hammady (Professor of Psychiatry):

5-**Internal evaluation of program specification:**

- Prof. Dr.Rizk Khodair (Professor of Neurology)
- Prof. Dr.Huessein Elsheikh (Professor of Psychiatry)

6- **External evaluation of program specification:**

- Prof. Abd el- Halim Tantawy (Professor of Neurology) Mansoura University.
- Prof. Mostafa Kamel Ismail (Professor of Psychiatry) Ein Shams University.

7- **Date of approval of program specification:**

- Department council: 8/9/ 2013
- Faculty council 356:15/9/2013

١ - الأهداف العامة للبرنامج :

1-Program aims:

The overall aims of the program are

1. **Apply** properly the basic scientific knowledge & methodology of scientific research with use of tools to serve neuropsychiatric field.
2. **Provide** the fundamental knowledge & skills to manage wide array of neurological /psychiatric disorders with development of updates
3. **Carry** out the diagnosis and plan the treatment of the commonly encountered neurological diseases/ psychiatric disorders and emergencies in an effective manner.
4. **Work** effectively within a team and implement liaison with members of the other medical specialties
5. **Integrate** scientific knowledge in neurology, psychiatry and related medical branches for better diagnosis and management of neuropsychiatric diseases.
6. **Acquire** the skills for competently performing the basic Neurological/ Psychiatric procedures and the use of technological tools needed in practice.
7. **Perform** effectively detailed and an efficient neurological/psychiatric history taking and examination.
8. **Aware** of the current neurology & psychiatry problems and its management
- 9-**Show** awareness of his role in community development and environmental conservation in the light of the global and regional variables
10. **Analyze** the available data with the ability to make correct decisions serving patients.
11. **Manage** effectively available resources planning to increase it and create new resources.

12. **React** in professional manner reflecting his commitment towards the patients guarding the medical ethics and responsibilities
13. **State** the impact of common health problems in the field of neurological/psychiatric diseases on the society and how to improve it.
14. **Learn** independently to improve the clinical practice with continuous self development to be capable of transferring knowledge and experiences to others.

٢ - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

٢.أ - المعرفة والفهم :

2.a. Knowledge and Understanding:

On successful completion of the program, the graduate will be able to:

2. a.1. **Describe** the normal structure of the human nervous system and mind at the molecular, cellular and organ level.
- 2.a.2. **Identify** the basic science underlying normal and abnormal functioning of the nervous system.
2. a.3. **Recognize** the normal growth and development of the human body and mind (both physically and psychologically) throughout different life stages.
2. a.4. **Recognize** the etiology of illness and disease, with special emphasis on medical, psychosocial and environmental causes.
2. a.5. **Outline** the principles of genetics and its role in different psychiatric and neurological diseases.
- 2.a.6 **Recognize** the principles governing ethical aspect in clinical practice and the patient-doctor relationship
- 2.a.7. **identify** medical knowledge in the service of law with emphasis on medico-legal aspects of medical practice.

2.a.8 **Demonstrate** an analytical and investigatory thinking approach (problem solving) to common clinical situations and alternative decisions related to neurological and psychiatric diseases.

2.a.9. **Highlight** pharmacological principles of treatment including: drug effects/pharmacokinetics, dosage, drug-drug interactions and adverse reactions

2.a.10. **Explain** the common disease's clinical manifestations and differential diagnosis with recognition of the risk factors of the different neurological & psychiatric diseases.

2.a.11. **Recognize** the nature of disability, its impact on the community and the principles of management including: rehabilitation, institutional and community care.

2.a.12 **Identify** the epidemiology, psychopathology and outcome of psychiatric disorders.

2.a.13.- **point out** the biological, psychological and social factors in the development of psychiatric disorders.

2.a.14.- **Describe** the principles of non-pharmacological therapies, and their role in psychiatric management (psychotherapy, electroconvulsive therapy, transcranial magnetic stimulation)

2.a.15.- **understand** the basics of normal and abnormal human behavior.

٢. ب - القدرات الذهنية :

2.b. Intellectual Skills:

On successful completion of the program, the graduate will be able to:

2.b.1 - **Evaluate** the patients presenting with neurological and psychiatric manifestations.

2.b.2- **Construct** plan for management of the different neurological/Psychiatric disorders with appropriate Judgment of problems and

2.b.3 - **Design** research project that contributes to scientific knowledge in neurology& Psychiatry.

2.b.4. Judge and critically appraise the psychiatric and neurological literatures

2.b.5 - **Assess** scientific information with use the medical literature to improve clinical practice.

2.b.6- **Interpret** the basic neurophysiology procedures.

2.b.7. **Select** appropriate and cost effective diagnostic procedures for each problem

2.b.8 - **Carry** out investigation in an efficient way.

2.b.9- Manage patients with the full range of current pharmacological and psychological treatment.

2.b.10. **Interpret** patient's symptoms and physical signs in terms of anatomic, pathologic and functional diagnostic significances.

2.c. Practical and professional Skills:

٢.ج . مهارات مهنية وعملية :

On successful completion of the program, the graduate will be able to:

2.c.1- **take** complete and focused medical history in the outpatient, inpatient or emergency settings.

2.c.2- **Perform** complete and focused physical and mental examination.

2.c.3. **Write** coherent, concise and clinically appropriate progress notes and recognize the importance of prompt and efficient documentation of the clinical record.

2.c.4- **apply** the most appropriate and cost effective diagnostic procedures for each problem.

2.c.5- **Design** clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.

٢. د . مهارات عامة و منتقلة:

2.d. General and transferable skills:-

On successful completion of the program, the graduate will be able to:

2.d.1. **Communicate** effectively with patients and caregivers.

2.d.2. **Use** the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.d.3. **Use** different sources of data and knowledge.

2.d.4. **Work** effectively as a member or a leader of an interdisciplinary team.

2.d5. **Establish** effective interpersonal relationship to communicate ideas and arguments

2.d.6. **Continue** self learning.

٣ - المعايير الأكاديمية للبرنامج :

3. Academic Standards

Academic standards of master program of Neuropsychiatry, approved in department council date 6/ 2013 and in faculty council date 354, 16/9/ 2013 (ملحق ١)

٤ - العلامات المرجعية :

4. Reference standards

(المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والإعتماد (مارس ٢٠٠٩)

a) **Academic reference standards (ARS) , Master Program (March 2009)**

, which were issued by the National Authority for Quality Assurance & Accreditation of Education NAQAAE (ملحق ٢)

٥ - هيكل ومكونات البرنامج :

(5): Program structure and contents:

A) Program duration: 4 semesters (2 years)

- 1st part: - One Semester (6 months).
- 2nd part: - Two Semester (1 year).
- Thesis:- One Semester (at least 6months after 2nd part)).

b) Program structure

- Total hours of program 46 credit hours
- Theoretical 20 credit hours
- Practical 9 credit hours
- University 6 credit hours
- Thesis 5 credit hours
- Log book activities 6 credit hours

ج- مستويات ومقررات البرنامج:

COMPULSORY

الزامي

الساعات المعتمدة	الكود	المقررات	البند
6 CR HRS	UNIV 601	الجامعة والكلية	متطلبات
9 CR HRS	NEUR 601	Physiology Biochemistry Pharmacology	الجزء الأول
	NEUR 603	Psychology Medical statistics	
	NEUR 602	Anatomy Histology	
5 credit hours			كراسة النشطة

8 cr. hr.	NEUR 605	Neurology	الجزء الثاني
6 cr. hr.	NEUR 606	Psychiatry	
3 cr. hr. 3 cr. hr.	NEUR 604 NEUR 607- 608	Internal medicine Pathology	
6 cr. hr.			رسالة الماجستير
46 cr. hr.			الاجمالي

First part (one semester):

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week			Total teaching hours/20 weeks
		Theoretical Lectures Seminars	Laboratory /practical	Total	
Physiology	NEUR 601	2		2	30
Biochemistry		1		1	15
Pharmacology		1		1	15
Anatomy	NEUR 602	1		1	15
Histology		1		1	15
Psychology	NEUR 603	2		2	30
Medical statistics		1		1	15
Total				9	135

b- Elective courses: none c. Selective course:none

Second part (2 semesters):

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week			Total teaching hours
		Theoretical Lectures	Laboratory /practical seminars	Total	
Internal medicine	NEUR 604	2	1	3	45 hours
Psychiatry	NEUR 606	3	3	6	90 hours
Neurology	NEUR 605	4	4	8	120 hours
Pathology	NEUR607-608	2	1	3	45 hour
Total:		11	9	20	300 hours

b- Elective courses: none

c- Selective: none

٦- محتويات المقررات (راجع توصيف المقررات) ملحق ٦

٧ - متطلبات الإلتحاق بالبرنامج: (7): Program admission requirements:

مادة (٤): يشترط في قيد الطالب لدرجة الماجستير:

(١)

أ- أن يكون حاصلًا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات ج.م.ع أو على درجة معادلة لها من معهد علمي معترف به من الجامعة بتقدير جيد على الأقل.

- ب- يسمح للحاصل على الدبلوم وفقا لنظام هذه اللائحة وبتقدير جيد على الأقل بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم وبغض النظر على تقديره فى درجة البكالوريوس.
- ت- يسمح للحاصل على الدبلوم وعلى خلاف لنظام هذه اللائحة أن يسجل لدرجة الماجستير بشرط أن يكون تقديره فى الدبلوم لا يقل عن جيد وبغض النظر عن تقديره فى البكالوريوس.
- (٢) أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز)
- (٣) أن يتفرغ للدراسة لمدة سنة على الأقل فى الجزء الثانى (فصلين دراسيين)
- مادة (٥): يكون التقدم للقيود لدرجة الماجستير مرة واحدة فى السنة خلال شهري يوليو وأغسطس من كل عام.
- تبدأ الدراسة لدرجة الماجستير فى شهر أكتوبر من كل عام.

٨ - القواعد المنظمة لإستكمال البرنامج :

- مادة (٦): تتولى لجنة الدراسات العليا بالكلية عن طريق لجنة تشكل لكل تخصص من أعضاء مجلس القسم التابع له المادة والقسم المانح للدرجة وضع البرنامج التفصيلى للمقررات فى حدود الساعات المعتمدة الواردة باللائحة وعند الاختلاف يتم الاسترشاد بمقررات جامعة القاهرة ومقررات الشهادات العالمية الاوربية والامريكية يعتمدها مجالس الأقسام ثم يقرها مجلس الكلية وتشمل هذه الساعات محاضرات نظرية ودروس عملية وتدريب اكلينيكي ومحاضرات وندوات مشتركة.
- مادة (٧): يشترط فى الطالب لنيل درجة ماجستير التخصص فى أحد الفروع الاكلينيكية والعلوم الطبية الأساسية:

- أ- حضور المقررات الدراسية والتدريبات الاكلينيكية والعملية والمعملية بصفة مرضية طبقا للساعات المعتمدة.
- ب- أن يقوم بالعمل كطبيب مقيم أصلى أو زائر لمدة سنة على الأقل فى قسم التخصص بالنسبة للعلوم الاكلينيكية.
- ت- أن ينجح فى امتحان القسمين الأول والثانى.

- ث- اجتياز الطلب لثلاث دورات فى الحاسب الالى (دورة فى مقدمة الحاسب – دورة تدريبيه متوسطة – دورة فى تطبيقات الحاسب الالى) وذلك قبل مناقشة الرسالة.
- ج- اجتياز اختبار التوفيل بمستوى لا يقل عن ٤٠٠ وحدة وذلك قبل مناقشة الرسالة.
- ح- أن يقوم باعداد بحث فى موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهى باعداد رسالة تقبلها لجنة التحكيم.

٩ - طرق و قواعد تقييم المتحقيين بالبرنامج:

9- Students Assessment methods:

م	الطريقة	ما تقيسه من مخرجات التعلم المستهدفة
١	Written examination Including short assay case study ,MCQ examination	To assess knowledge, understanding intellectual skills. 2.a.1,2.a.2,.....2.a.15,2.b.1,.....2.b.
٢	Oral examination	To assess knowledge, understanding intellectual skills & General & transferable skills 2.a.1.....2.a.15., 2.b.1.....2.b.11., 2.d.1.....2.d.6.....
٣	Practical examination	To assess knowledge, understanding, intellectual skills, professional General & transferable skills 2.a.1.....2.a.10., 2.b.1.....2.b.11., 2.d.1.....2.d.6.2.a.1.....2.a.10., 2.c.1.....2.c.6...
٤	Thesis discussion	To assess knowledge, understanding, intellectual skills, professional General & transferable skills 2.a.1.....2.a.10., 2.b.1.....2.b.11., 2.d.1.....2.d.6.2.a.1.....2.a.10., 2.c.1.....2.c.6...

First part :

إجمالي	الدرجة			الاختبار	المقرر
	إكلينيكي	عملي	شفهي		
١٥٠			٧٥	٧٥	الفسولوجي
٥٠			٢٥	٢٥	اختبار تحريري لكل مادة مدته ثلاث ساعات + اختبار شفهي
٥٠			٢٥	٢٥	اختبار تحريري لكل مادة مدته ثلاث ساعات + اختبار شفهي
١٥٠			٧٥	٧٥	علم التشريح
٥٠			٢٥	٢٥	اختبار تحريري لكل مادة مدته ثلاث ساعات + اختبار شفهي
١٠٠			٥٠	٥٠	مادة
٥٠			٢٥	٢٥	اختبار تحريري لكل مادة مدته ثلاث ساعات + اختبار شفهي
٦٠٠					السيكولوجي (السلوكية) + علم الاحصاء إجمالي الدرجة

Second part:

إجمالي				الاختبار	المقرر
إجمالي	إكلينيكي	شفهي	تحريري		
٣٠٠	٧٥	٧٥	+ ٧٥ ٧٥	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مادة المخ و الاعصاب
٥٠		٢٥	٢٥	اختبار تحريري مدة ثلاث ساعات + شفهي + إكلينيكي	مادة الباثولوجيا
٥٠	١٠	١٥	٢٥	اختبار تحريري مدة ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مادة الباطنة
٥٠		٢٥	٢٥	اختبار تحريري مدة ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مادة الباثولوجي
٧٠٠					الإجمالي

Third part: Thesis: Pass or fail according to the committee decision and approved by department council, Faculty council and University council.

10-Evaluation of Program:

١٠ - طرق تقويم البرنامج :

Evaluator	Tools	Sample
Internal evaluator (s) مقيم داخلي	Report	<u>1-2 Report</u>
External Evaluator (s) مقيم خارجي	Report	<u>1-2 Report</u>
Senior student (s) طلاب السنة النهائية	Representative samples from all sectors	all
Alumni الخريجون	Representative samples from all sectors	Not less than 50% from the last 3 years
Stakeholder (s) أصحاب العمل	Representative samples from all sectors	Representative samples from all sectors
Others طرق أخرى	None	

١١ : استراتيجيات التعليم و التعلم علي مستوي البرنامج:

١. استراتيجية التعلم النشط. **Active learning**

٢. استراتيجية التعليم المبني على النتائج. **Outcome-based learning**

٣. استراتيجية التعليم المبني على حل المشكلات. **Problem-based learning**

المسئول عن البرنامج

التوقيع عبد الله خضير

ا.د.ابوزيد عبد الله خضير

التاريخ: سبتمبر / ٢٠١٣

التوقيع محمد مصطفى الحمادي

ا.د.محمد مصطفى الحمادي

التاريخ: سبتمبر / ٢٠١٣

الملاحق :

- ملحق ١ : وثيقة المعايير الأكاديمية لبرنامج ماجستير الأمراض الجلدية والتناسلية والذكورة
- ملحق ٢ : المعايير القياسية للدراسات العليا ٢٠٠٩ الصادرة عن الهيئة القومية لضمان جودة التعليم والاعتماد (برامج ماجستير الدراسات العليا)
- ملحق ٣ : مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.
- ملحق ٤ : مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.
- ملحق ٥ : مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix
- ملحق ٦ : توصيف المقررات

ملحق ١ : وثيقة المعايير الأكاديمية

لبرنامج ماجستير الأمراض العصبية والطب النفسي

1- Graduate Attributes

By the end of Master of Neuropsychiatry, the graduate should be capable of:

1. **Demonstrate** excellence in application of principles and methodology of scientific research with use of its tools.
2. **Apply** analytical methodology in the field of Neuropsychiatry.
3. **Integrate** specialized knowledge with related sciences in professional practice.
4. **Aware** of current problems and new concepts in the field of Neuropsychiatry.
5. **Determine** professional problems and propose appropriate solutions.
6. **Demonstrate** significant range of clinical practice with use of appropriate technological methods that serve practice.
7. **Communicate** effectively and lead a work team.
8. **Make** informed decisions in various professional contexts.
9. **Employ** available resources ,wisely to achieve maximum benefit and their preservation
10. **Aware** of his role community development and environmental preservation in light of global and regional changes.
11. **Act** with integrity, sincerity, and follows the ethical rules of practice.
12. Exercise autonomy in academic and professional self-development as well as continuous learn

2–Academic Standards.

2–1. Knowledge and understanding:

On successful completion of the program, the graduate should know and understand:

- 1. The concepts and fundamentals in the field of Neuropsychiatry , for diagnosis and management of common diseases.**
- 2. Principles of relevant basic sciences related to Neuropsychiatry (Anatomy, Physiology, and Pathology)**
- 3. Essential facts of clinically supportive sciences (basics of Internal medicine) related to Neuropsychiatry**
- 4. The mutual influence between professional practice and its impact on the environment and how to improve it.**
- 5. The scientific developments and updates in the area of neuropsychiatry (pathogenesis, diagnosis, treatment and prevention).**
- 6. Basic ethical and medico legal principles that should be applied in practice and relevant to Neuropsychiatry.**
- 7. Basics and standards of quality assurance to ensure qualified clinical practice in Neuropsychiatry field.**
- 8. Scientific principles of medical research methodology**

2.2 Intellectual skills:

On successful completion of the program, the graduate should be capable of:

- 1. Correlate** relevant basic and clinically supportive sciences with clinical diagnosis and management of common Neuropsychiatric diseases.

2. **Formulate** of management plan of different neuropsychiatric diseases and alternative decisions in different situations relevant to Neuropsychiatry
3. **Present** a case or review in one or more common problems relevant to Neuropsychiatry taking into consideration the nature of the clinical situation
4. **Link** between knowledge for Professional problems' solving
5. **Interpret** results of different investigations related to Neurological and Psychiatric disorders.
6. **Evaluate** the risks during practice with patients of neuropsychiatric diseases
7. **Take** medical decisions according to different situations when facing medical problem (during clinical training course).
8. **Innovate** solutions to medical problems in his neurology (suggest innovative scenarios for controlling Neurologic diseases)
9. **Discuss** of medical issues on evidence based manner.
10. **Plan** to improve performance in the field of neurology

2.3. Practical and Professional skills

On successful completion of the program, the graduate should be capable of:

1. **Apply** the most appropriate and cost effective diagnostic procedures for neurophysiological problems
2. **Recording** clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.
3. **Mastering** of the basic and modern professional clinical skills in the area of neurology and psychological medicine.
4. **Writing** and **evaluating** medical reports.
5. **Evaluating** and develop methods and tools existing in the area of neurology and psychological medicine.

6. **Performing** different neurophysiological methods (e.g NCS ,EMG,EEG) and psychometric assessment .

7. **Designing** new methods, tools and ways of professional practice.

2.4.General and transferable skills:

On successful completion of the program, the graduate should be capable of:

1. **Maintaining** an effective relationship with colleges, patients, paramedical and team workers.

2. **Using** information technology to serve the development of professional practice.

3. **Assessing** himself and identify personal learning needs.

4. **Using** different sources to obtain information and knowledge.

5. **Working** in a team and team's leadership in a professional context.

6. **Managing** time efficiently.

7. **Using** different learning resources to get knowledge and information

8. **Learning** himself continuously

9. **Teaching** others and evaluating their performance.

اجتماع مجلس القسم ، بتاريخ 9/6/2013

رئيس مجلس القسم الأستاذ الدكتور فيكتور سامي ميخائيل

اجتماع مجلس الكلية ٣٥٤ 16/6/2013

ملحق ٢ : المعايير القياسية للدراسات العليا ٢٠٠٩
الصادرة عن الهيئة القومية لضمان جودة التعليم والاعتماد

برامج ماجستير الدراسات العليا

موصفات الخريج

خريج برنامج الماجستير فى أى تخصص يجب أن يكون قادرا على :
إجادة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة
تطبيق المنهج التحليلى واستخدامه فى مجال التخصص
تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ممارسته المهنية
إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص
تحديد المشكلات المهنية وإيجاد حلول لها
إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم
ممارسته المهنية
التوصل بفاعلية والقدرة على قيادة فرق العمل
اتخاذ القرار فى سياقات مهنية مختلفة
توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
إظهار الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية
التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

- المعايير القياسية العامة

١-٢ المعرفة والفهم :

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :
- ١-٢-١ النظريات والاساسيات المتعلقة بمجال التعلم وكذا فى المجالات ذات العلاقة
 - ١-٢-٢ - التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
 - ١-٢-٣ التطورات العلمية فى مجال التخصص
 - ١-٢-٤ المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
 - ١-٢-٥ مبادئ واساسيات الجودة فى الممارسة المهنية فى مجال التخصص
 - ١-٢-٦ اساسيات واخلاقيات البحث العلمى

٢-٢ المهارات الذهنية :

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٢-٢ تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها لحل المشاكل
 - ٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
 - ٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية
 - ٤-٢-٢ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
 - ٥-٢-٢ تقييم المخاطر فى الممارسات المهنية فى مجال التخصص
 - ٦-٢-٢ التخطيط لتطوير الاداء فى مجال التخصص
 - ٧-٢-٢ اتخاذ القرارات المهنية فى سياقات مهنية متنوعة

٣-٢ المهارات المهنية

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٣-٢ اتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص
 - ٢-٣-٢ كتابة وتقييم التقارير المهنية
 - ٣-٣-٢ تقييم الطرق والادوات القائمة فى مجال التخصص

٤-٢ المهارات العامة والمنتقلة

- بانتهاج دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٤-٢ التواصل الفعال بأنواعه المختلفة
 - ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
 - ٣-٤-٢ التقييم الذاتى وتحديد احتياجاته التعليمية
 - ٤-٤-٢ استخدام المصادر المختلفة لحصول على المعلومات والمعارف
 - ٥-٤-٢ وضع قواعد ومؤشرات تقييم اداء الاخرين
 - ٦-٤-٢ العمل فى فريق سياقات كهنية مختلفة
 - ٧-٤-٢ ادارة الوقت بكفاءة
 - ٨-٤-٢ التعلم الذاتى والمستمر

ملحق ٣: مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الماجستير
مع المعايير الأكاديمية المتبناة لبرنامج ماجستير الأمراض العصبية والطب النفسي
مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الماجستير)
Demonstrate excellence in application of principles and methodology of scientific research with use of its tools	١-١ إجابة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
Apply analytical methodology in the field of Neuropsychiatry	١-٢ تطبيق المنهج التحليلي واستخدامه في مجال التخصص
. Integrate specialized knowledge with related sciences in professional practice	تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية
Aware of current problems and new concepts in the field of Neuropsychiatry	١.٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
Determine professional problems and propose appropriate solutions	١.٥ تحديد المشكلات المهنية وإيجاد حلول لها
Demonstrate significant range of clinical practice with use of appropriate technological methods that serve practice	١-٦ إتقان نطاق مناسب من المهارات المهنية المتخصصة
Communicate effectively and lead a work team	١-٧ التوصل بفاعلية والقدرة على قيادة فرق العمل
Make informed decisions in various professional contexts	١-٨ اتخاذ القرار في سياقات مهنية مختلفة
Employ available resources ,wisely to achieve maximum benefit and their preservation	١-٩ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها

Aware of his role community development and environmental preservation in light of global and regional changes.	١٠.١ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
Act with integrity, sincerity, and follows the ethical rules of practice	١١.١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة
Exercise autonomy in academic and professional self-development as well as continuous learning	١٢.١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (للدراسات العليا (درجة الماجستير)
2.1.1. 1The concepts and fundamentals in the field of Neuropsychiatry , for diagnosis and management of common diseases.	٢٠١٠١ النظريات والاساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة
2.1.2Principles of relevant basic sciences related to Neuropsychiatry (Anatomy, Physiology ,Pathology)	
2.1.3.Essential facts of clinically supportive sciences (basics of Internal medicine) related to Neuropsychiatry	
2.1.4.The mutual influence between professional practice and its impact on the environment and how to improve it.	٢-١-٢- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة

1.5.The scientific developments and updates in the area of neuropsychiatry (pathogenesis, diagnosis, treatment and prevention).	٣-١-٢ التطورات العلمية في مجال التخصص
2.1.7Basic ethical and medico legal principles that should be applied in practice and relevant to Neuropsychiatry	٤-١-٢ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
2.1.8.Basics and standards of quality assurance to ensure qualified clinical practice in Neuropsychiatry field.	٥-١-٢ مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1.9.Scientific principles of medical research methodology	٦-١-٢ اساسيات واخلاقيات البحث العلمي

ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (ARS) للدراسات العليا (درجة الماجستير)
2.2.1 Correlation of relevant basic and clinically supportive sciences with clinical diagnosis and management of common Neuropsychiatric diseases.	١-٢-٢ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
2.2.3Presentation of a case or review in one or more common problems relevant to Neuropsychiatry taking into consideration the nature of the clinical situation	
2.2.5. Interpretation of results of different investigations related to Neurological and Psychiatric disorders.	
2.2.8. Innovation of solutions to medical problems in his neurology (suggest innovative scenarios for controlling Neurologic diseases)	٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
2.2.4.Link between knowledge for Professional problems' solving	٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية
2.2.9. Discussion of medical issues on evidence based manner	٤-٢-٢ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية

2.2.6. Evaluation of risks during practice with patients of neuropsychiatric diseases	٥-٢-٢ تقييم المخاطر في الممارسات المهنية في مجال التخصص
2.2.7. Professional medical decisions according to different situations when facing medical problem (during clinical training course)	
2.2.10 Plan to improve performance in the field of neuropsychiatry	٦-٢-٢ التخطيط لتطوير الاداء في مجال التخصص
2.2.2 Formulation of management plan of different neuropsychiatric diseases and alternative decisions in different situations relevant to Neuropsychiatry	٧-٢-٢ اتخاذ القرارات المهنية في سياقات مهنية متنوعة

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (ARS) للدراسات العليا (درجة الماجستير)
3. Mastering of the basic and modern professional clinical skills in the area of Neurology and psychological medicine.	١-٣-٢ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص
2. Recording clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.	٢-٣-٢ كتابة وتقييم التقارير المهنية
4. Writing and evaluating medical reports.	
1. apply the most appropriate and cost effective diagnostic procedures for neurophysiological problems	٣-٣-٢ تقييم الطرق والادوات القائمة في مجال التخصص
5. Evaluating and develop methods and tools existing in the area of neurology and psychological medicine.	
6. Performing different neurophysiological methods (e.g NCS ,EMG,EEG) and psychometric assessment .	
7. Designing new methods, tools and ways of professional practice.	

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (ARS) لدراسات العليا (درجة الماجستير)
2.4.1. Maintain an effective relationship with co patients, paramedical and team workers	١-٤-٢ التواصل الفعال بأنواعه المختلفة
2.4.2. Use information technology to serve the development of professional practice.	٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
2.4.3. Assess himself and identify personal learning needs.	٣-٤-٢ التقييم الذاتي وتحديد احتياجاته التعليمية
2.4.4. Use different sources to obtain information and knowledge	٤-٤-٢ استخدام المصادر المختلفة لحصول على المعلومات والمعارف
2.4.9. Teach others and evaluating their performance.	٥-٤-٢ وضع قواعد ومؤشرات تقييم اداء الآخرين
2.4.5. Work in a team and team's leadership in a professional context	٦-٤-٢ العمل فى فريق سياقات مهنية مختلفة
2.4.7. Manage time efficiently	٧-٤-٢ ادارة الوقت بكفاءة
2.4.8. Learn himself continuously	٨-٤-٢ التعلم الذاتى والمستمر

ملحق ٤ : مصفوفة المضاهاة بين المعايير المتبناة لبرنامج ماجستير الأمراض العصبية والطب النفسي مع أهداف و نواتج تعلم البرنامج

أهداف البرنامج	المعايير الأكاديمية للبرنامج (مواصفات الخريج):
1.1	Demonstrate excellence in application of principles and methodology of scientific research with use of its tools.
1.10	Apply analytical methodology in the field of Neuropsychiatry
1.5	Integrate specialized knowledge with related sciences in professional practice
1.9	Aware of current problems and new concepts in the field of Neuropsychiatry
1.3	Determine professional problems and propose appropriate solutions
1.2-1.3	Demonstrate significant range of clinical practice with use of appropriate technological methods that serve practice
1.4	Communicate effectively and lead a work team.
1.7	Make informed decisions in various professional contexts.
1.11	Employ available resources ,wisely to achieve maximum benefit and their preservation
1.9	Aware of his role community development and environmental preservation in light of global and regional changes

1.12	Act with integrity, sincerity, and follows the ethical rules of practice.
1.14	Exercise autonomy in academic and professional self-development as well as continuous learning

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج		
المعرفة و الفهم												
		2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3		2.a.2	2.a.1
							*	*	*	*	*	2.1.1. To apply properly the basic scientific knowledge & methodology of scientific research with use of tools serve neuropsychiatric field
						*	*					2.1.2. To provide the fundamental knowledge & skills to manage wide array of neurological /psychiatric disorders with development of updates
		*				*	*					2.1.3. To carry out the diagnosis and plan the treatment of the commonly encountered neurological diseases/ psychiatric disorders and emergencies in an effective manner
				*	*							2.1.4. To work effectively within a team and implement liaison with members of

											the other medical specialties
					*	*					2.1.5. integrate scientific knowledge in neurology, psychiatry and related medical branches for better diagnosis and management of neuropsychiatric diseases
			*				*	*	*		2.1.6. To acquire the skills for competently performing the basic Neurological/ Psychiatric procedures and the use of technological tools needed in practice

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات الذهنية
Intellectual skills										
		2.b.8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1	
					*	*		*	*	2.1.1. To perform effectively detailed and an efficient neurological/psychiatric history taking and examination
		*			*		*	*		2.1.2. To be oriented with his role in community development and environmental safety according to national and international guidelines
					*					2.1.3. To be aware of the current neurology & psychiatry problems and its management

						*				2.1.4. To analyze the available data with the ability to make correct decisions serving patients
				*			*			2.1.5. To manage effectively available resources planning to increase it and create new resources
			*		*			*		2.1.6. To react in professional manner reflecting his commitment towards the patients guarding the medical ethics and responsibilities
					*	*	*			2.1.7. To state the impact of common health problems in the field of neurological/ psychiatric diseases on the society and how to improve it

نواتج تعلم البرنامج											
Practical/Professional skills											
				2.c.7	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2.	2.c.1.	المعايير الأكاديمية للبرنامج المهارات المهنية
					*	*	*	*	*	*	
											2.3.3 Master of the basic and modern professional clinical skills in the area of neurology and psychological medicine
											2.3.2- Record clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.

											2.3.4.write and evaluate medical reports
											2.3.5-Evaluate and develop methods and tools existing in the area of neurology and psychological medicine. 2.3.6-Perform different neurophysiological methods (e.g NCS ,EMG,EEG) and psychometric assessment . 2.3.7Design new methods, tools and wa professional practice.

المهارات العامة والمنتقلة

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج		
General and transferable skill										المهارات العامة والمنتقلة		
			2.d.8	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2.	2.d.1.		
					√	√						By the end of Master program, candidate should accept the following skills: 2.4.1. Maintain an effective relationship with colleges, patients, paramedical and team workers .
									√			2.4.2. Use information technology to serve the development of professional practice
				√								2.4.3. Assess himself and identify personal learning needs.
										√		2.4.4. Use different sources to obtain information and

												knowledge
				√								2.4.5. Work in a team and team's leadership in a professional context
								√				2.4.6. Manage time efficiently
			√									2.4.7- Use different learning resources to get knowledge and information
									√			2.4.8 Learn himself continuously
												2.4.9. Teach others and evaluating their performance

ملحق (٥) مصفوفة المعارف والمهارات للبرنامج الدراسي
(مصفوفة المقررات مع البرنامج)

المعارف Knowledge & Understanding										ILOs	
a.10	a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1	Courses & codes	
*					*	*	*	*	*		فسيولوجي
*					*	*	*	*			فارماكولوجي
						*					تحقيقات حيوية
*						*	*	*			تدريب
*						*					مستولوجي
					*	*	*				مادة السلوكية
						*	*	*			مادة الأحياء
			*	*	*	*			*		الباثولوجي
*			*	*	*	*		*			الباطنة العامة
*			*	*	*	*	*	*	*		الامراض العصبية
							*	*	*		الطب النفسي

مهارات ذهنية Intellectual Skills								ILOs	
2.b.8.	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1	Courses & codes	
					*	*	*		فسيولوجي
					*				فارماكولوجي
			*						تحقيقات حيوية
			*						تدريب
			*						مستولوجي
					*				مادة السلوكية
					*	*	*		مادة الأحياء
				*		*			الباثولوجي
*	*	*		*		*	*	*	الباطنة العامة
		*				*	*		الامراض العصبية

				*	*	*	*		الطب النفسي
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Practical & Clinical Skills مهارة عملية و مهنية								ILOs	
	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	Courses & codes	
						*	*		فسيولوجي
					*		*		فارماكولوجي
					*	*	*		كيمياء حيوية
						*			تخريج
						*			مستولوجي
						*			مادة السلوكية
					*	*	*		مادة الامعاء
			*	*	*				الباثولوجي
		*				*	*		الباطنة العامة
		*					*		الامراض العصبية
					*		*		الطب النفسي

General and transferable مهارة عامة								ILOs	
2.d.8	2.d.7.	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1	Courses & codes	
							■		فسيولوجي
							■		فارماكولوجي
							■		كيمياء حيوية
							■		تخريج
							■		مستولوجي
							■		مادة السلوكية
							■		مادة الامعاء
■	■	■	■	■	■	■	■		الباثولوجي
■	■	■	■	■	■	■	■		الباطنة العامة
		■	■	■		■	■		الامراض العصبية
					*		*		الطب النفسي

توصيف المقررات

Program courses

First part
1- Anatomy
2- physiology
3- Histology
4- medical biochemistry
5- pharmacology
6- Psychology
Second part
1-NEUROLOGY
2- Psychiatry
3- general medicine
4- Pathology

توصيف مقرر كيمياء حيوية وعلم وراثية
لماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى: جزء أول	اسم المقرر : كيمياء حيوية وعلم وراثية	الرمز الكودي : NEUR 60
عدد الوحدات الدراسية : نظري ٥ ساعة معتمدة	التخصص : ماجستير الأمراض العصبية والطب النفسي	
<ol style="list-style-type: none"> 1.1. Provide all students with a broad education in fundamental aspects of medical biochemistry and molecular biology; 1.2. Provide a sound knowledge and understanding of the biochemical importance of macro-, micronutrients, hormones and enzymes; 1.3. To enable the student to illustrate and/or describe the metabolic pathways of macronutrients and nucleotides; 1.4. Illustrate the contribution of the organs in metabolic process under different physiological circumstances; 1.5. To enable the student to understand the bioenergetics of the concerned metabolic pathways under different physiological circumstances and their integrator regulations with other working metabolic pathways; 1.6. Enable students to point out and understand the biochemical and the molecular basis of a range of diseases, their diagnosis and the development of therapies; 1.7. Acquire a critical understanding of the basic principles of molecular biology, different methods used in diagnosis of diseases; 1.8. Be familiar with biotechnology methods and their clinical implications and be able to explain some detailed examples; 1.9. Be able to devise and evaluate suitable experimental methods for the investigation of relevant areas of biochemistry and molecular biology; 1.10. To enable the student to describe major body fluids composition and their clinical impact; 1.11. Develop through a flexible and progressive structure, a range of subject-specific and transferable skills, including practical laboratory skills, self-management, information retrieval, communication and presentation skills, working with others, decision making and meeting deadlines, that equip students for future employment. 		١- أهداف المقرر :

٢- المستهدف من تدريس المقرر :

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

<p>2.1.1. Describe the main metabolic pathways of the three main dietary sources of energy: carbohydrates, fats and proteins, their digestion absorption, their oxidation to release energy.</p> <p>2.1.2 discuss the regulation of these pathways and the integration of their metabolism</p> <p>2.1.3 point-out biochemical alteration in related metabolic disorders.</p> <p>2.1.4 explain the role of vitamins and enzymes required for catalysis of these processes, in addition to their deficiency manifestations.</p> <p>2.1.5 Describe the contribution of certain tissues like liver, kidney and nervous system to metabolism in health and disease.</p> <p>2.1.6. discuss the metabolism of the major minerals and trace elements, their functions and alterations in metabolic processes due to deficiency or excess of these elements</p> <p>2.1.7. identify knowledge about nucleic acid metabolism with special emphasis on their role in protein synthesis.</p> <p>2.1.8 discuss the general principles of genetic engineering and how may this be used for the diagnosis and management of diseases.</p> <p>2.1.9 Describe the components of some body fluids e.g. blood, urine and CSF.</p>	أ- المعلومات والمفاهيم :
<p>2.2.1 Interpret medical laboratory reports;</p> <p>2.2.2 Analyze normal & pathological glucose tolerance curve;</p> <p>2.2.3 Solve problems related to metabolic disturbances in a given case study report.</p>	ب- المهارات الذهنية:
<p>2.c.1 Evaluate biochemical reports related to neurological and psychiatric problems.</p> <p>2.c.2 Suggest deferential diagnosis for given data about metabolic disorder.</p>	ج- المهارات المهنية الخاصة بالمقرر :
<p>2.4.1. Communicate properly with the staff members as well as with each other.</p> <p>2.4.2. Work effectively in groups.</p> <p>2.4.3. Use available resources to get data& knowledge.</p>	د - المهارات العامة :

٣- محتوى
المقرر:

Subject	Lectures (hrs)	Total (hrs)	% of Total
Medical Biochemistry			
Blood pH regulation, acidosis and alkalosis	1	1	5
Major pathways of glucose oxidation	1	1	5
Blood glucose regulation, Glucose tolerance test, hyper- and hypoglycemia	2	2	10
Diabetes Mellitus, galactosemia & glycogen storage disease.	1	1	5
Plasma lipoproteins, hyperlipidemia, lipotropic factors, fatty liver	1	1	5
Cholesterol metabolism, hypercholesterolemia and Atherosclerosis	2	2	10
FA oxidation, ketosis	2	2	10
Urea cycle, NPN compounds, inborn errors of amino acids metabolism	2	2	10
Basics of heme metabolism, hemoglobinopathies, porphyria and Jaundice	2	2	10
Insulin, steroid, thyroid and parathyroid hormones	1	1	5
Molecular Biology			
DNA structure, replication, transcription & Regulation of gene expression	2	2	10
RNA structure, transcription and posttranscriptional modification	2	2	10
DNA damage, mutation and repair	2	2	10
Cell cycle & apoptosis	2	2	10
Total	23	23	100

<ul style="list-style-type: none"> • Modified Lectures • Tutorials. 	٤ - أساليب التعليم والتعلم
لا ينطبق	٥ - أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٦ - تقويم الطلاب :	
<ul style="list-style-type: none"> • Written examination: assess knowledge & understanding, intellectual skills. • Structured oral exams: to assess knowledge and understanding, intellectual & professional and general and transferable skills. 	أ- الأساليب المستخدمة
Final exam in May or November.	ب- التوقيت
Written Exam 50 % Oral Exam 50 %	ج- توزيع الدرجات
٧ - قائمة الكتب الدراسية والمراجع :	
<ul style="list-style-type: none"> ▪ Department book (available for students to purchase from different bookshops at the faculty). 	أ- مذكرات
<ul style="list-style-type: none"> • Harper's Biochemistry (2012) Robert K. Murray, Daryl K. Granner, Peter A. Mayes and Victor W. Rodwell: 29th Edition. 	ب- كتب ملزمة
<ul style="list-style-type: none"> • Lippincott's Illustrated Reviews: Biochemistry, International Student Edition (Lippincott's Illustrated Reviews Series) (2010): Harvey , R. A. and Ferrier, D.R. (editors), 5th edition. 	ج- كتب مقترحة
<ul style="list-style-type: none"> • Periodical websites: www.clinchem.org 	د - دوريات علمية أو نشرات

رئيس مجلس القسم العلمي : أمال أبو الفضل

أستاذ المادة : عزه البرماوى

توصيف مقرر فسيولوجيا

لماجستير الأمراض العصبية و الطب النفسى

بيانات المقرر	
الفرقة / المستوى : ماجستير جزء أول	اسم المقرر : فسيولوجيا
الرمز الكودي : NEURO 603	
التخصص ماجستير الأمراض العصبية و الطب النفسى	
عدد الوحدات الدراسية : نظري 1 credit hours	
<p>1.1.Physiology course aims at approaching to the detailed knowledge of human physiology.</p> <p>1.2. Facilitate understanding the clinical data for the student in the clinical practice.</p> <p>1.3. Develop skills associated with improved health care and health care services.</p> <p>1.4. Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met- within clinical practice.</p> <p>1.5. Basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship.</p> <p>1.6. Basic scientific knowledge essential for following the rules of medical ethics .</p> <p>1.7. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems.</p> <p>1.8. Life long learning competencies necessary for continuous professional development.</p> <p>1.9. Research education as related to medical practice & post graduation development</p>	<p>١- هدف المقرر:</p>
٢- المستهدف من تدريس المقرر :	
<i>By the end of the course, the student should be able to:</i>	

<p>2.1- explain according to priority the main functions of systems, organs and cells.</p> <p>2.2- describe the basic and detailed physiological processes in correct medical terms and in correct order.</p> <p>2.3- Memorize important physiological definitions and laws.</p> <p>2.4-discuss the different mechanisms of homeostasis and how to use it in applied physiology.</p> <p>2.5 approach to the detailed knowledge of physiology in relation of neurology and psychiatry.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.2.1- Identify deviations from the normal physiology and its effects.</p> <p>2.2.2- Interpret clinical manifestations into physiological data.</p> <p>2.2.3- Illustrate physiological information in the form of simplified diagrams with complete data on it.</p> <p>2.2.4- Interconnect different branches of physiology to that of neurology and psychiatry.</p> <p>2.2.5- Analyze any physiological curve related to neurology and psychiatry.</p> <p>2.2.7- analyze and summarize updated physiological information.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.3.1- Perform efficiently the appropriate steps and procedures in measuring pulse, respiratory rate and arterial blood pressure.</p> <p>2.3.2- asses acid base and electrolyte balance.</p> <p>2.3.3- interpret different laboratory tests as isolated perused heart</p> <p>2.3.4- asses pulmonary function tests</p> <p>2.3.5- record intestinal motility in animals under various conditions.</p> <p>2.3.6- asses skeletal and smooth muscle contraction</p> <p>2.3.7- study and read ECG papers.</p> <p>2.3.8 Describe the normal structure and function of the human body and mind at the molecular, biochemical, cellular, levels (including the principles of genetics), to maintain the body homeostasis.</p> <p>2.3.9- Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.</p> <p>2.3.10- Demonstrate the functions of the body and its major organ systems that are seen in neurology and psychiatry diseases and conditions.</p> <p>2.3.11- Perform routine technical procedures; diagnostic and therapeutic (including life support).</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>

2.4.1- deal properly and cautiously in a lab.
 2.4.2- Use the sources of biomedical information to remain current with the advances in knowledge & practice.

د - المهارات
 العامة :

٣- محتوى
 المقرر:

Subject	Lectures (hrs)	Total (hrs)	% of Total
<u>Nervous system</u> 1-Sensory receptors. 2-The neural synapse and neurotransmitters. 3-Somatic sensations. 3-Pain control system 4-Motor functions of the spinal cord. 5-Spinal cord lesions. 6-Muscle spindle and golgi tendon organs and their role in muscle control. 7-Muscle tone , and tendon jerks. 8-Mechanism of muscle contraction. 9-Pyramidal and extrapyramidal tracts. 10The vestibular apparatus. 11-The cerebellum. 12-The basal ganglia 13-The hypothalamus. 14-Sleep 15-Learning and memory.	3	3	25%
<u>Cardiovascular system</u> 1-Cerebral circulation. 2-Regulation of arterial blood pressure. 3-Hemorrhage and shock	3	3	25%
<u>Blood</u> 1-Anemias. 2-Hemostasis			
<u>Respiratory system</u> 1-Regulation of respiration <u>Nerve, and Muscle</u> 1. Membrane Potentials and Action Potentials 2. Contraction of Skeletal Muscle 3. Excitation of Skeletal Muscle: Neuromuscular Transmission and Excitation-Contraction Coupling 4. Contraction and Excitation of Smooth Muscle.	9	9	50%
<ul style="list-style-type: none"> Total 	15	15	100%

1. Modified Lectures 2. Tutorial 3. Seminars 4. Conferences 5.	٤ - أساليب التعليم والتعلم
لا ينطبق	٥ - أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
٦ - تقويم الطلاب :	
1. Written exams: Assess knowledge & understanding and intellectual skills. 2. Structured oral exams: to assess knowledge and understanding, intellectual , professional and general and transferable skills.	أ- الأساليب المستخدمة
• Final exam at May or November	ب- التوقيت
• Written exam 75 • Oral exam 75	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
• Lectures notes	أ- مذكرات
1.Poul-Erik Paulev(2007): Medical Physiology And Pathophysiology Essentials and clinical problems.	ب- كتب ملزمة
1- Poul-Erik Paulev (2009):): Medical Physiology Textbook 2-Guyton 2008 3-ganong 2008	ج- كتب مقترحة
www.jap.physiology.org www.physiologyonline.physiology.org/cgi/content	د - دوريات علمية أو نشرات

أستاذ المادة : اد-علاء الدين عبدالعزيز التليس
رئيس مجلس القسم العلمي : اد-علاء الدين عبدالعزيز التليس

توصيف مقرر هستولوجي
ماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : جزء أول	اسم المقرر : هستولوجي	الرمز الكودي : NEUR 602
عدد الوحدات الدراسية : نظري: ساعة (معمدة)		التخصص : ماجستير الأمراض العصبية والطب النفسي

<p>1.1. Advanced scientific knowledge essential to practice Histology & Cell Biology dealing with neurology.</p> <p>1.2. Advanced scientific knowledge essential for establishing & maintaining good researchers.</p> <p>1.3. Advanced scientific knowledge essential for following the rules of medical ethics.</p> <p>1.4. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems & researches.</p> <p>1.5. Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with students and colleagues.</p> <p>1.6. Life long learning competencies necessary for continuous professional development.</p> <p>1.7. Research education as related to medical practice & more advanced scientific researches.</p> <p>1.8. Advanced administrative skills necessary for delivery of research service</p>	<p>١ - هدف المقرر :</p>
٢ - المستهدف من تدريس المقرر :	
By the end of the course, the student should be able to:	
<p>2.1.1. Describe the normal structure and function of the human body cells at the level of its organ & system on the molecular level.</p> <p>2.1.2. Describe the normal structure and function of the human body cells and mind at the molecular, biochemical levels (including the principles of genetics).</p> <p>2.1.3. Describe the normal growth and development of the human body cells & its impact on cellular function, molecular signaling.</p> <p>2.1.4. Identify the cell signaling & altered cell behavior.</p> <p>2.1.5. Explain the altered development, growth, structure and function of the body and mind that will be associated with common clinical conditions.</p>	<p>أ - المعلومات والمفاهيم :</p>

<p>2.2.1. Combine the technical and investigational database to be proficient in histological problem solving.</p> <p>2.2.2. Generate a list of initial technical hypotheses for each problem.</p> <p>2.2.3 Analyzes all sources of information to Interpret and evaluate the tissue samples</p>	<p>ب- المهارات الذهنية:</p>
<p>2.3..1. Adopt an empathic and holistic approach to the researches and their problems.</p> <p>2.3 .2 identify types of cell under microscopes</p> <p>2.3 .3 Demonstrate the more recent in researches in stem cells.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>2.4..1. Establish life-long self-learning required for continuous professional development.</p> <p>2.4..2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.4..3. Retrieve, manage, and manipulate information by all means, including electronic means.</p> <p>2.4..4. Present information clearly in written, electronic and oral forms.</p> <p>2.4..5. Establish effective interpersonal relationship to Communicate ideas and arguments .</p> <p>2.4..6. Work effectively as a member or a leader of an interdisciplinary team .</p> <p>2.4..7. Apply the principles of statistical methods for collection,</p>	<p>د - المهارات العامة:</p>

S u b j e c t	Lectures (hrs)	Total (hrs)	%
C y t o l o g y 1-LM&EM picture ,function and molecular biology of cytoplasmic organelles: 2-inclusions 3-nucleus: structure by LM&EM ,function 4-DNA 5-types of RNA 6-physiological cell death V-Epithelial tissue: 1-Properties of epithelium . 2-Types of epithelium:(covering -glandular -neuro epithelium & myoepithelium) 3-Examples and sites of each type. 4-Functional importance. 5-Modification of epithelial cell surfaces	1	2	
. VI- Connective tissue 1-general character of connective tissue proper. 2-constituents of CT (ground substance, fibers, cells). 3-structure , types and staining properties of CT fibers. 4-types of connective tissue proper and site of each:	2	2	2 5 %
VIII- THE ENDOCRINE SYSTEM 1-Pituitary Gland 2-Thyroid Gland 3-Parathyroid Glands 4-Adrenal (Suprarenal) Glands 5- pineal body	4	4	2 5 %
XIII-CNS 1- Anatomical consideration of CNS 2- meninges 3- spinal cord 4- medulla oblongata 5- pons 6- mid brain 7- cerebellum 8- dinencephalon 9- cerebral cortex	9	9	5 0 %
٤٥			

<ul style="list-style-type: none"> • Modified lectures <p>.Small group discussions: Museum specimens, demonstration (slides photographs and video films), models and case study.</p> <p>.Tutorials.</p> <p>.Seminars.</p>	<p>٤- أساليب التعليم والتعلم</p>
<p>لا ينطبق</p>	<p>٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>
<p>٦- تقويم الطلاب :</p>	
<ul style="list-style-type: none"> • Written exams • Oral exams • Practical exam 	<p>أ- الأساليب المستخدمة</p>
<p>Final exam in May or November</p>	<p>ب- التوقيت</p>
<ul style="list-style-type: none"> • Written exams 100 • Oral exams 50 • Practical exam 50 	<p>ج- توزيع الدرجات</p>
<p>٧- قائمة الكتب الدراسية والمراجع :</p>	
<ul style="list-style-type: none"> • . Histology &Cell Biology department book 	<p>أ- مذكرات</p>
<p>Junqueira Basic Histology. 6.2.2. Gartner &Hiatt Atlas Histology 6.2.3. Wheater's functional Histology</p>	<p>ب- كتب ملزمة</p>
<p>6.3.1. Junqueira Basic Histology. 6.3.2. Gartner &Hiatt Atlas Histology 6.3.3. Wheater's functional Histology 6.3.4.Mechiel ross text of histology</p>	<p>ج- كتب مقترحة</p>
<p>.http://www.medscape.com. http://www.pubmed.com. .http://master.emedicine.com/maint/cme.asp. .http://www.science direct.com.</p>	<p>د - دوريات علمية أو نشرات</p>

رئيس مجلس القسم العلمي: أ.د. محمد مجدي زكي

أستاذ المادة: أ.د. محمد مجدي زكي

توصيف مقرر الفارماكولوجي
ماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : جزء أول	اسم المقرر : فارماكولوجي	الرمز الكودي : NEUR 601
عدد الوحدات الدراسية : نظري: ساعة معتمدة		التخصص : ماجستير الأمراض العصبية والطب النفسي
<ul style="list-style-type: none"> To provide the advanced knowledge about commonly used groups of drugs affecting different body systems and their implications in therapy of diseases and health promotion. 		١- هدف المقرر :
١- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i>		
<p>2.1.1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems.</p> <p>2.1.2- Discuss the adverse and toxic effects, and their management of commonly used groups interactions.</p> <p>2.1.4- Define clinically relevant age, sex and genetic related variations that affect response to drugs.</p> <p>2.1.5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.</p> <p>2.1.6- Discuss the impact of preventive pharmacology in promoting health and prevent illness.</p>		أ- المعلومات والمفاهيم :
<p>2.2.1- Calculate accurately drug's dosage, bioavailability, plasma half life and volume of distribution in different patient populations</p> <p>2.2.2- interpret drug adverse reactions.</p>		ب- المهارات الذهنية :

<p>2.3.1- Perform with precision different technique of drug administration.</p> <p>2.3.2- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies. Choose the proper drug(s) for the proper clinical situation in proper dosage.</p> <p>2.3.3 Obtain and record a comprehensive drug history of the patient.</p>	ج- المهارات المهنية الخاصة بالمقرر :
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<p>2.4.1- respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture.</p> <p>2.4.2- Provide appropriate basic drug education to the patient and his family.</p> <p>2.4.3- Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.</p>	د - المهارات العامة :
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<p>٣- محتوى المقرر:</p>			
Subject	Lectures (hrs)	Total (hrs)	%of Total
CNS	4	4	20%
Diuretics	3	3	13.3%
Chemotherapy.	3	3	13.3%
Blood	3	3	13.3%
CVS	4	4	20%
Corticosteroids	3	3	13.3%
General	4	4	20%
Total	24	24	100%

<p>4.1-1.modified lectures</p> <p>4.1.2. Practical modules</p>	٤ - أساليب التعليم والتعلم
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لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٦- تقويم الطلاب :	

<ul style="list-style-type: none"> • Written exams: Assess knowledge & understanding and intellectual skills. • Structured oral exams: to assess knowledge and understanding, intellectual , professional and general and transferable skills. 	أ- الأساليب المستخدمة						
Final exam in May or November	ب- التوقيت						
<table> <tr> <td>written exams.</td> <td>50 %</td> </tr> <tr> <td>Oral Examination</td> <td>40 %</td> </tr> <tr> <td>Semester Work</td> <td>10 %</td> </tr> </table>	written exams.	50 %	Oral Examination	40 %	Semester Work	10 %	ج- توزيع الدرجات
written exams.	50 %						
Oral Examination	40 %						
Semester Work	10 %						
7- قائمة الكتب الدراسية والمراجع :							
Handouts updated administered by staff members	أ- مذكرات						
David E. Golan; Armen H. Tashjian; Ehrin J. and Armstrong et al.(2005): Principles of pharmacology: the pathophysiologic basis of drug [et al.], Philadelphia : Lippincott Williams & Wilkins.	ب- كتب ملزمة						
GOODMAN AND OILMAN(2005): THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 11 th edition.	ج- كتب مقترحة						
www.micromedex.co	د - دوريات علمية أو نشرات						

أستاذ المادة أ.د. مهدي محمد إبراهيم رئيس مجلس القسم العلمي : أ.د. مهدي محمد إبراهيم

توصيف مقرر علم النفس
ماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : جزء أول	اسم المقرر : علم النفس	الرمز الكودي : NEUR603
عدد الوحدات الدراسية : نظري: ساعة معتمدة		التخصص : ماجستير الأمراض العصبية والطب النفسي
1.1 Apply scientific knowledge essential for practice of psychological medicine according to the international standards. 1.2. Provide skills necessary for proper diagnosis and management of patients in the field of psychological medicine including diagnostic, problem solving and decision making. 1.3. Provide ethical principles related to the practice in this specialty. 1.4. Apply active participation in community needs assessment and problems solving. 1.5. Provide maintenance of learning abilities necessary for continuous medical education. 1.6. Provide maintenance of research interest and abilities.		١- هدف المقرر :
By the end of the course, the student should be able to:		٢- المستهدف من تدريس المقرر :

<p>2a1. Describe how to explain various psychiatric terms</p> <p>2.a.2 identify mature and immature defensive mechanisms</p> <p>2.a.3 Explain the effect of social ,biological and environmental factors on behavior</p> <p>2.a.4 describe normal and abnormal behavior</p> <p>2.a.5 Identify basics of doctor relationship</p> <p>2.a.6 Discuss basics of different psychometric tests1</p> <p>2.a.7 discuss different psychological terms</p> <p>2.a.8 Demonstrate the effect of environment on human(Thinking ,Emotions)</p> <p>2.a.9 Describe normal high intellectual functions (memory, thinking, mood, perception ,)</p> <p>2.a.10 Explain abnormalities of perception</p> <p>2.a.11 describe abnormalities of memory</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1 analyze the information in the field of Psychological Medicine on a psychological bases</p> <p>2.b.2. Solve problems in psychology and related branches making use of the available data.</p> <p>2.b.3.record the effect of personality on behavior</p> <p>2.b.4. Formulate scientific papers.</p> <p>2.b.5 Integrate between the science of psychology and general medicine.</p> <p>2.b.6 Explain the effect of stress on other medical diseases</p>	<p>ب- المهارات الذهنية:</p>

<p>2.c.1 Master of the basic psychological and modern professional clinical skills in the area of neurology and psychological medicine.</p> <p>2.c.2 Perform simple psychometric test</p> <p>2.c.3 Judge and exam memory</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1. Communicate effectively.</p> <p>2.d.2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d.3. Use different sources of data and knowledge.</p> <p>2.d.4. Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.5. Evaluate self performance and continue to learn.</p> <p>2.d.6. Use different sources of data and knowledge.</p> <p>2.d.7. Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.8. Manage scientific meetings and manage time.</p> <p>2.d.9. Establish effective interpersonal relationship to communicate ideas and arguments</p> <p>2.d.10. Continue self learning.</p>	<p>د - المهارات العامة :</p>

٣- محتوى المقرر:

Subject	Lectures (hrs)	Total (hrs)	%of Total
1- Introduction & historical background	2	2	15%
2- Psychology in relation to medicine			
3- Doctor Patient relationship			
4- Basic brain structures and behavior	2	2	15%
5- Personality			
6- Stress	2	2	15%
7- Emotions, Motivation			
8 - Developmental psychology	1	1	7.5%
9- Perception, Attention, Sensory deprivation	2	2	15%
10- Social psychology	1	1	7.5%
11- Psychology of terrorism	1	1	7.5%
12- Intelligence	1	1	7.5%
13- Learning, memory and thinking	2	2	15%
14- Frustration and defensive mechanisms, sleep	1	1	7.5%
Total	15	15	100%

4.1-1. modified lectures	٤- أساليب التعليم والتعلم
4.1.2. Small group discussions	
4,1.3. Problem solving	
4,1.4. Self learning	
لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٦- تقويم الطلاب :	
<ul style="list-style-type: none"> • Written exams: Assess knowledge & understanding and intellectual skills. • Structured oral exams: to assess knowledge and understanding, intellectual , professional and general and transferable skills. 	أ- الأساليب المستخدمة
Final exam in May or November	ب- التوقيت
<ul style="list-style-type: none"> • Written: 50% • Oral: 50% 	ج- توزيع الدرجات

7- قائمة الكتب الدراسية والمراجع :

Behavior sciences, medical psychology Prof:Ahmed Okasha	أ- مذكرات
Psychology (8th Edition) by Carole Wade and Carol Tavris	ب- كتب ملزمة
Psychology: The Science of Mind and Behavior by Michael Passer and Ronald Smith • The Science of Psychology: An Appreciative View by Laura Boynton King	ج- كتب مقترحة
The American Journal of Psychiatry http://ajp.psychiatryonline.org/ http://www.ncbi.nlm.nih.gov/pubmed	د - دوريات علمية أو نشرات

أستاذ المادة أ.د شويكار توفيق البكري
رئيس مجلس القسم العلمي : أ.د فيكتور سامي
ميخائيل

توصيف مقرر التشريح
ماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : جزء أول	اسم المقرر : التشريح	الرمز الكودي : NEUR 602
عدد الوحدات الدراسية : نظري: ساعة معتمدة		التخصص : ماجستير الأمراض العصبية والطب النفسي
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.		١- هدف المقرر :
٣- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i>		

<p>A1- explain the basic science of the embryological development of the nervous system.</p> <p>A2- Identify the anatomical structures of the central and peripheral nervous system.</p> <p>A3- Describe and explain the cross sectional anatomy of cerebrum, cerebellum, brainstem, spinal cord, nerve roots and peripheral nerves.</p> <p>A4- Describe and explain the anatomical pathways of the motor nervous system (including pyramidal and extrapyramidal tracts) and the different bodily sensations.</p> <p>A5- describe the blood supply of the different anatomical nervous structures.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>B1- Interpret the effect of structural injury of the different anatomical structures and relation to clinical manifestations of neurological disorders.</p> <p>B2- Interpret the effect on decreased blood supply of the different anatomical structures and relation to clinical manifestations of neurological disorders.</p> <p>B3- Integrate the anatomy of the nervous system with the other basic and clinical sciences.</p>	<p>ب- المهارات الذهنية :</p>
<p>C1- Present the anatomical scientific data in a graphical form.</p> <p>C2- Interpret the effect of anatomical lesions and basis of neurological disorders.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.</p> <p>D2- Responsible towards work.</p>	<p>د - المهارات العامة :</p>

٣- محتوى المقرر:

Subject	Lectures (hrs)	Total (hrs)	%of Total
Development of the nervous system	2	2	10%
Anatomy of the cerebral cortex			
Anatomy of brain stem			
Anatomy of cerebellum	2	2	10%
Anatomy of basal ganglia			
Anatomy thalamus & hypothalamus	2	2	10%
Anatomy of limbic system			
Anatomy of cranial nerves I,II,III,IV,VI,V , VII,VIII,IX,X,XI,XII	2	2	10%
Meninges, ventricles and CSF	2	2	10%
Blood supply of nervous system			
Anatomy spinal nerves & roots	2	2	10%
Anatomy of peripheral nerves	2	2	10%
Applied anatomy: lesions in cerebrum & cerebellum, brain stem & spinal cord	1	1	5%
Total	15	15	100%

4.1-1.modified lectures
4.1.2.tutorials

٤- أساليب التعليم والتعلم

لا ينطبق

٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة

٦- تقويم الطلاب :	
<ul style="list-style-type: none"> • Written exams: Assess knowledge & understanding and intellectual skills. • Structured oral exams: to assess knowledge and understanding, intellectual , professional and general and transferable skills. 	أ- الأساليب المستخدمة
Final exam in May or November	ب- التوقيت
<ul style="list-style-type: none"> • Written: 50% • Oral: 50% 	ج- توزيع الدرجات
7- قائمة الكتب الدراسية والمراجع :	
<ul style="list-style-type: none"> ▪ Department book (available for students to purchase from different bookshops at the faculty). 	أ- مذكرات
Clinical Neuroanatomy, Stephen G Waxman	ب- كتب ملزمة
	ج- كتب مقترحة
www.clinchem.org	د - دوريات علمية أو نشرات

أستاذ المادة أ.د عبد الونيس الاودن رئيس مجلس القسم العلمي : أ.د سعدية شلبي

جامعة: بنها
كلية: الطب البشرى
قسم: الامراض العصبية والطب النفسى

توصيف مقرر الامراض العصبية
لماجستير الأمراض العصبية والطب النفسى
For Master Degree in Neuropsychiatry
Academic Year 2013-2014

١- بيانات المقرر		
المستوى ماجستير جزء ثانى	اسم المقرر : الأمراض العصبية	الرمز الكودي : (NEUR605)
عملي ٤	نظري ٤	عدد الوحدات الدراسية : ٨ ساعات معتمدة
1.1- Deal with common Neurological and conditions on the basis of adequate history taking, physical examination 1.2 Interpret of relevant supportive investigations and Management. 1.3- Deal with Neurological emergencies. 1.-5 Perceive and integrate progress in Neurological diagnostic technology. 1.6Acquire an appropriate knowledge about the wide array of neurological disorders. 1.7 Perform an efficient neurological history taking and examination. 1.8 Carry out the diagnosis and plan the treatment of the commonly encountered neurological diseases and emergencies. 1.9 Acquire the appropriate professional attitudes, communication and problem solving skills. 1.10Use the medical literature to improve the clinical practice and develop independent and life-long learning.		٢- هدف المقرر :
٣- المستهدف من تدريس المقرر :		

- 2.a.1 identify items of History taking (complaint, history of present illness and its chronicity)
- 2.a.2 describe the symptoms of which an Neurological patient complain & its analysis
- 2.a.3 discuss the signs and manifestations of Neurological diseases.
- 2.a.4 identify the Neurological manifestations of general medical diseases (D.M, HTN , Thyrotoxicosis)
- 2.a.5 Enumerate concepts in the common diagnostic & laboratory techniques necessary to establish diagnosis of Neurological illnesses.
- 2.a.6 Describe the various therapeutic methods and other alternative use.
- 2.a.7 explain the principles and fundamentals of prevention control and avoiding further complications.
- 2.a.8 Describe how to explain various neurological terms to medicals & non-medical.
- 2.a.9. Classify the various neurological disorders
- 2.a.10. Mention the common theories and factors explaining the etiology in various neurological disorders.
- 2.a.11 Mention therapeutic options in various neurological diseases
- 2.a.12. Mention various neurophysiological diagnostic tools
- 2.a.13. Describe the basic diagnostic criteria in neurological disorders.
- 2.a.14. List the common differential diagnosis in various neurological disorders.
- 2.a.15. Mention the common interventional therapeutic methods in handling neurological emergencies
- 2.a.16. Mention the known good & bad prognostic factors in common neurological disorders.

أ- المعلومات
والمفاهيم :

<p>2.b.1 analyze the information in the field of Neurology and ranking them according to their priorities.</p> <p>2.b.2. Solve problems in the area of Neurology</p> <p>2.b.3. Analyze researches and issues related to Neurology</p> <p>2.b.4. Assess risk in professional practices in the field of Neurology</p> <p>2.b.5. Make professional decisions in the light of the available data</p> <p>2.b.6. integrate clinical findings in neurological diagnosis .</p> <p>2.b.7. formulate proper plans of treatment.</p> <p>2.b.8 Link between given data and problem solving.</p> <p>2.b.9 Demonstrate competence in data presentation , statistical analysis & interpretation .</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1 Apply of professional skills in the field of Neurology</p> <p>2.c.2. Write medical reports.</p> <p>2.2.3 Interpret of clinical findings with the history of the patient illness.</p> <p>2.2.4 differentiate between symptoms and other medical diseases .</p> <p>2.2.5 Ask for further investigations and laboratory test to help in reaching the proper diagnosis.</p> <p>2.2.6 record the differential diagnosis of neurological diseases .</p> <p>2.2.7 establish a definite clinical diagnosis and initiating appropriate treatment.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.4.1 Work effectively both individually and in team work .</p> <p>2.4.2 Make effective use of information technology eg, Internet</p> <p>2.4.3 Dementsrate self-direction & some originality in taking and solving problem</p>	<p>د - المهارات العامة :</p>

Topic	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total	م - ٤ المقرر:
1 Clinical diagnosis	1	1			
2. Investigation	2	2			
3. Headache	1	1			
4. Pediatric neurology	2	2			
5. Development, degeneration, and regeneration of the central nervous system: neuroimmunology	2	2			
6. Neuro-ophthalmology	2	1			
7. Deafness, vertigo, and imbalance	1	1			
8. Abnormalities of smell and taste	2	2			
9. Lower cranial nerves and dysphagia	1	1			
10. Polyneuropathy	1	1			
11. Focal peripheral neuropathy	1	1			
12. The motor neuron diseases	1	1			
13. Muscle diseases	1	1			
14. Head injury	2	2			
15. Raised intracranial pressure, cerebral oedema, and hydrocephalus	2	2			
16. Tumours of the brain and skull	2	1			
17. Neurocutaneous syndromes	2	1			
18. Spinal cord disorders	2	1			
19. Cauda equina, spinal roots, and sphincter control	2	1			
20. Epilepsy and other paroxysmal disorders in children	2	1			
21. Seizures, epilepsy, and other episodic disorders in adults	2	2			
22. Sleep and sleep disorders	2				
23. Coma	2	1			
24. Neuropsychological disorders, dementia, and behavioral neurology	2	2			
25. Stroke, transient ischemic attacks, and intracranial venous thrombosis	2	2			
26. Vasculitis and collagen vascular disorders affecting the central nervous system	2	1			
27. Multiple sclerosis and other demyelinating diseases	2	2			
28. Cancer and the nervous system	2	2			
29. Tremor, ataxia, and cerebellar disorders	2	2			
30. Movement disorders	2	2			
	2	2			
	٦٢	2			
	2				
		2			

<p>5.1. Modified lectures 5.2. Clinical lessons 5.3. Assignment 5.4. Attending the department scientific conference, workshops and thesis discussion 5.5. Group discussion 5.6. Problem solving 5.7. Brain storming 5.8. Scientific Symposium</p>	<p>٥- أساليب التعليم والتعلم</p>
<p>لا ينطبق</p>	<p>٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>
<p>٧- تقويم الطلاب :</p>	
<p>7.a.1. Written exams: to assess knowledge, understanding and intellectual skills. 7.a.2. Clinical exams(OSCE): to assess knowledge and understanding, intellectual, practical and professional and General and transferable skills. 7.a.3. Structured oral exams(Viva cards): to assess knowledge and understanding, intellectual and General and transferable skills. Formative only assessment: simple research assignment, Log book, attendance and absenteeism, case study presentation and group project</p>	<p>أ- الأساليب المستخدمة</p>
<p>7.b Only by final Exam: written, oral and clinical examinations</p>	<p>ب- التوقيت</p>
<p>7.c. Final-term written examination 50% Oral examination 25% Clinical examination 25%</p>	<p>ج- توزيع الدرجات</p>
<p>٨- قائمة الكتب الدراسية والمراجع :</p>	
<p>8.a Course Notes:</p> <ul style="list-style-type: none"> Lectures notes prepared by staff members in the department 	<p>أ- مذكرات</p>

<p>8.b Essential Books (Text Books):</p> <ul style="list-style-type: none"> • Merritt's Neurology. 	<p>ب- كتب ملزمة</p>
<p>8.c Recommended Books:</p> <ul style="list-style-type: none"> • Adams & Victor's Principle of Clinical Neurology. • Brain 's Clinical Neurology. • Neurology in clinical practice. • Clinical Neurology. • Manual of neurologic therapeutics. 	<p>ج- كتب مقترحة</p>
<p>8.d. Periodicals and Web Sites:</p> <ul style="list-style-type: none"> • http://www.neurology .org • http://www.ncbi.nlm.gov .com • http://www.freemedicaljournals.com 	<p>د - دوريات علمية أو نشرات</p>

أستاذ المادة : ا.د خالد سلام

رئيس مجلس القسم العلمي : أ.د فكتور سامي ميخائيل

جامعة: بنها
كلية: الطب البشرى
قسم: الامراض العصبية والطب النفسي

توصيف مقرر الطب النفسي
لماجستير الأمراض العصبية والطب النفسي
For Master Degree in Neuropsychiatry
Academic Year 2013-2014

١- بيانات المقرر		
المستوى ماجستير جزء ثاني	اسم المقرر : الطب النفسي	الرمز الكودي : (NEUR 606)
٣ عملي	٣ نظري	عدد الوحدات الدراسية : ٦ ساعات معتمدة
التخصص : Master Neuropsychiatry		

- 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

٢- هدف
المقرر :

٣- المستهدف من تدريس المقرر :

2a1. discuss the etiology of illness and disease, with special emphasis on medical, psychosocial and environmental causes.

2a2. explain the principles of genetics and the role of genetics in different psychiatric and neurological diseases.

2a3. identify the basic medical science to disease process, supported by early clinical contact and demonstration.

2a4. Discuss the common disease's clinical manifestations and differential diagnosis.

2a5. explain the scientific basis of common diagnostic studies with emphasis on their prioritization in management plans.

2a6. Define pharmacological principles of treatment including: drug effects/pharmacokinetics, dosage, drug-drug interactions and adverse reactions.

2a7. Describe the principles of non-pharmacological therapies, and their role in disease management (psychotherapy, electroconvulsive therapy, trans-cranial magnetic stimulation)

2a8. discuss the nature of disability, its impact on the community and the principles of management including: rehabilitation, institutional and community care.

2a9. Identify the principles governing ethical decision making in clinical practice and the major ethical dilemmas in medicine and recognize the patient-doctor rights as a part of human rights.

2a10. Describe how to apply his/her medical knowledge in the service of law with emphasis on medico-legal aspects of medical practice.

2a11. Specify the basics of normal and abnormal human behaviors

أ-
المعلومات
والمفاهيم
:

2.b.1. Demonstrate insight for continued self assessment of their current medical practice aiming to update and improve it.

2.b.2. Interpret clinical problems as how to differentiate between psychotic and neurotic disorders.

2.b.4. Analyze medical problems to reach appropriate diagnosis and assess comorbid psychiatric disorders.

2.b.5. Evaluate information objectively, recognizing its limitations.

2.b.6. Integrate the results of history, physical and mental examination with neuropsychiatric investigation findings into a meaningful diagnostic formulation.

2.b.7. choose the most relevant diagnostic tools as different psychometries for different suspected disorders.

2.b.8. Retrieve and analyzes relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

2.b.9. cope with uncertainty by proper counseling, consultation and referral.

2.b.10. Evaluate emergency cases in psychiatry and manage them properly.

2.b.11. Integrate the psychiatric and somatic manifestations to accurately evaluate the patient.

2.b.12. build therapeutic alliance with the patient based on professionalism and ethics.

ب-
المهارات
الذهنية:

<p>2c1- Apply and document a complete or focused medical history in the outpatient, inpatient or emergency settings.</p> <p>2c2- Perform and document a complete or focused physical and mental examination.</p> <p>2c3- Construct patient's symptoms and physical signs in terms of anatomic, pathologic and functional diagnostic significances.</p> <p>2c4- Judge problems and select the most appropriate and cost effective diagnostic procedures for each problem.</p> <p>2c5- Record clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge sum-maries and follow up notes.</p> <p>2.c.6. Adopt basic and new skills in Psychology field.</p> <p>2.c.7. Use technological methods in professional practice.</p> <p>2.c.8. Write and evaluate professional reports about Psychological topics.</p> <p>2.c.9. Evaluate and develop the used methods in the field of Psychology.</p> <p>2.c.11. Plan to improve professional performance and develop others' performance.</p>	<p>ج - المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1. Estimate and understand the differences in beliefs and backgrounds among patients.</p> <p>2.d.2. Explain to patients and their families the clinical investigation's findings in relation to possible courses of therapy including indications, risks, benefits and alternatives as well as plans for follow up.</p> <p>2.d.3. Know when and how to ask for senior consultation.</p> <p>2.d.4. Give accurate and clear oral summaries of the patient's illness.</p> <p>2.d.5. Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.</p> <p>2.d.6. Adopt ethical behavior expected for doctors towards patients with recognition of patients' rights, particularly with regard to confidentiality and informed consent.</p>	<p>د - المهارات العامّة :</p>

Topic	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total
1- Psychiatry history and mental status	1	1		
2-Classification in psychiatry				
3- Mood Disorders	1	1		
3- Anxiety Disorders	1	1		
4- Schizophrenia and other psychotic Disorders	1	1		
5-Dissociative Disorders	1	1		
6- Alcohol, opioids and other substance related disorders	1	1		
7-Somatoform Disorders, Factitious disorders and Malingering	1	1		
8- Child and adolescent Psychiatry	1	1		
9- Delirium ,Dementia and Amnestic disorders	1	1		
Organic mental disorders	1	1		
11-personality disorders				
12-Sleep disorders				
13-Sexual dysfunction				
14-Eating and impulse control disorders				
15-Liaison psychiatry	1	1		
16-Psychotherapy	1	1		
Service planning and administration	1		20	
Psychiatric disorders in women	1			
Guidelines of management of psychiatric disorders in pregnant and lactating women	1			
Psychiatric emergencies	1			
Investigation in psychiatry	1			
Child psychiatry	1			
Old age psychiatry	1			
Cultural psychiatry	1			
Psychotherapy, physical treatments and other models of therapy	1			
Forensic and Ethics	1			
Other topics	1			

-٤

محتوى
المقرر:

<p>5.1. Modified lectures 5.2. Clinical lessons 5.3. Assignment 5.4. Attending the department scientific conference, workshops and thesis discussion 5.5. Group discussion 5.6. Problem solving 5.7. Brain storming 5.8. Scientific Symposium</p>	<p>٥- أساليب التعليم والتعلم</p>
<p>لا ينطبق</p>	<p>٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة</p>
<p>٧- تقويم الطلاب :</p>	
<p>7.a.1. Written exams: to assess knowledge, understanding and intellectual skills. 7.a.2. Clinical exams(OSCE): to assess knowledge and understanding, intellectual, practical and professional and General and transferable skills. 7.a.3. Structured oral exams(Viva cards): to assess knowledge and understanding, intellectual and General and transferable skills. Formative only assessment: simple research assignment, Log book, attendance and absenteeism, case study presentation and group project</p>	<p>أ- الأساليب المستخدمة</p>
<p>7.b Only by final Exam: written, oral and clinical examinations</p>	<p>ب- التوقيت</p>
<p>7.c. Final-term written examination 50% Oral examination 25% Clinical examination 25%</p>	<p>ج- توزيع الدرجات</p>
<p>٨- قائمة الكتب الدراسية والمراجع :</p>	
<p>8.a Course Notes:</p> <ul style="list-style-type: none"> Lectures notes prepared by staff members in the department 	<p>أ- مذكرات</p>
<p>8.b Essential Books (Text Books):</p> <ul style="list-style-type: none"> Synopsis of psychiatry (three volumes) Benjamin James Sadock, Virginia Alcott Sadock 2007 Comprehensive Textbook of psychiatry Benjamin J Sadock; VirginiaA Sadock 2004 Case files psychiatry Toy Klamen 2004 	<p>ب- كتب ملزمة</p>

<p>8.c Recommended Books:</p> <p>1- Neurobiology of mental illness: second edition Dennis Charney, Eric Niestter 2005</p> <p>2- Handbook of psychiatric drugs Lawrence J., Rhoda K., Christopher 2005</p>	<p>ج- كتب مقترحة</p>
<p>8.d. Periodicals and Web Sites:</p>	<p>د - دوريات علمية أو نشرات</p>

أستاذ المادة : ا.د محمد الحمادي

رئيس مجلس القسم العلمي : أ.د فكتور سامي ميخائيل

تاريخ ٢٠١٣/٩/٨

توصيف مقرر الباطنة العامة
ماجستير الأمراض العصبية و الطب النفسي

بيانات المقرر	
الفرقة / المستوى: جزء ثاني	اسم المقرر : General Medicine
عدد الوحدات الدراسية : نظري ساعتين معتمدة عملي: ساعة معتمدة	
الرمز الكودي : NEUR 604	
التخصص : ماجستير الأمراض العصبية و الطب النفسي	
١- هدف المقرر:	
<p>1- Acquire an appropriate knowledge for the etiology, clinical manifestations and treatment the common neurological complications of various medical diseases.</p> <p>2- Acquire an appropriate knowledge for the diagnosis and treatment of the common medical illness associating neurological diseases.</p> <p>3- Determine the diagnostic tools and methods of treatment of interfering medical and neurological diseases.</p> <p>4- Differentiate between neurological and medical causes of coma.</p> <p>5- Recognize the non interfering methods of treatment used in management of co-morbid medical and neurological diseases.</p>	
٢- المستهدف من تدريس المقرر :	
<p>A1- Identify the common medical problems presenting with neurological/psychiatric symptoms or signs.</p> <p>A2- explain the etiology and treatment of the common neurological /psychiatric symptoms and signs presenting in the clinical picture of different medical diseases.</p> <p>A3- Identify the proper diagnostic tools needed to differentiate Neurological /psychiatric from metabolic causes of coma.</p> <p>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.</p> <p>A5- discuss the different neurological psychiatric diseases that require consultation of the internal medicine in order to establish the proper plan of treatment.</p>	
أ- المعلومات والمفاهيم :	

<p>B1- Analyze the neurological/psychiatric symptoms and signs in patients with other medical illness than neurological diseases.</p> <p>B2- Identify the neurological complications in the different medical illness and effectively manage them.</p> <p>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.</p>	<p>ب- المهارات الذهنية:</p>
<p>C1- Take a thorough history of appropriate detail relative to the clinical context.</p> <p>C2- Demonstrate a problem focused physical examination</p> <p>C3- Interpret the neurological symptoms and signs in patients with other medical illness than neurological diseases.</p> <p>C4- Differentiate the neurological causes of coma from other metabolic causes of coma.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>D1- Use the computer skills to review the recent medical literature worldwide; in order to improve medical knowledge.</p> <p>D2- Develop the communication and interpersonal skills necessary to communicate effectively with teachers, colleagues, other medical members, patients and their families.</p> <p>D3- Understand the importance of life-long self-learning and show a strong commitment to it.</p>	<p>د - المهارات العامة:</p>

Topic	Lectures	Practical	Total	% of total	٣- محتوى المقرر:
Endocrinal diseases Neurological/Psychiatric manifestations of endocrinal diseases 4	10	20	30	22.2%	
Hepatology & Gastroenterology Neurological/Psychiatric manifestations of GIT diseases 2	10	20	30	22.2%	
Nephrology Chronic renal failure	5	10	15	11.1%	
Collagen diseases and vasculitis Neurological/Psychiatric manifestations of immunological & rheumatology diseases 4	15	30	45	33.3%	
Hematology Neurological/Psychiatric manifestations of hematological diseases & oncology 4	5	10	15	11.1%	
Total	45	90	135	100%	
4.1-lectures 4.2- Clinical lessons 4.3- Assignment 4.4- Attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed					٤- أساليب التعليم والتعلم
لا ينطبق					٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
					٦- تقويم الطلاب :
<ul style="list-style-type: none"> • Written exam • Oral exam • Clinical exam 					أ- الأساليب المستخدمة
Final exam in May or November					ب- التوقيت

<ul style="list-style-type: none"> • Written Exam 50% • Oral Exam 25% • Clinical Exam 25% 	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
<ul style="list-style-type: none"> • Lecture notes 	أ- مذكرات
<ul style="list-style-type: none"> • Kumar, P. and Clark, M. (2012): Clinical Medicine 8th Edition. Saunders Ltd. 	ب- كتب ملزمة
<ul style="list-style-type: none"> • Dan Longo, Anthony Fauci, Dennis Kasper, Stephen Hauser, J. Jameson, Joseph Loscalzo (2011): Harrison's Principles of Internal Medicine, 18th Edition 	ج- كتب مقترحة
www.sciencedirect.com	د - دوريات علمية أو نشرات

أستاذ المادة : ا.د./ سامح بهجت
رئيس مجلس القسم العلمي : ا.د./ عاطف ابراهيم

جامعة بنها
كلية الطب البشري
قسم الباثولوجيا

توصيف مقرر باثولوجيا
ماجستير الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : ماجستير جزء ثاني	اسم المقرر : باثولوجيا	الرمز الكودي : NEUR 607
عدد الوحدات الدراسية : نظري: ساعة ونصف (معتمدة) عملي: نصف ساعة معتمدة		التخصص : ماجستير الأمراض العصبية والطب النفسي

The overall goals of the course are to:

- 1.1. Application of basic pathological knowledge essential for the practice of neurology.
- 1.2. Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations.
- 1.3. Application of special knowledge & its integration with others that have relation with the special practice
- 1.4. Awareness of the running problems as early tumor detection and diagnosis of system.
- 1.5. Diagnosis of practical problems as cases study and clinical assessments
- 1.6. Having fundamental knowledge of medical disciplines related to their clinical applications & able to use different technological tools as computer in the field of tropical
- 1.7. Having acquired competency to be teacher, trainer, researcher and leader in the field.
- 1.8. Diagnosis, problem solving and decision making skills necessary for proper evaluation and management.
- 1.9. Development of recent tools & ways essential for medical practice.
- 1.10. Awareness of his role in the progress of society and govern the environment in the light of international & local changes.
- 1.11. Honesty and respect the practical rules.
- 1.12. Lifelong learning competencies necessary for continuous professional development

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هدف
المقرر :

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

- 2.a.1. Define the disease
- 2.a.2. Classify and type the diseases
- 2.a.3. describe the etiology: risk factors and causes of the diseases
- 2.a.4. List macroscopic and microscopic picture of the common neurological cases.
- 2.a.5. Describe the clinical manifestations and differential diagnosis of common neurological cases.

أ-
المعلومات
والمفاهيم :

- 2.b.1. Analyze, solve problem and make decision skills necessary for proper evaluation and management.
- 2.b.2. Evaluate the risky problems that could be met during taking biopsies.
- 2.b.3. Combine the clinical and investigational database to be proficient in clinical problem solving.
- 2.b.4. Plan for performance development in his practice.
- 2.b.5. Select the most appropriate and cost effective diagnostic procedures for each problem.
- 2.b.7. Formulate of research hypothesis & questions.
- 2.b.8. Adopt the questioning approach to own work & that of others to solve clinical problems

ب-
المهارات
الذهنية:

<p>2.c.1. Assess of cases and investigation.</p> <p>2.c.2. Interpret all important pathological aspects for early cancer detection and assessment.</p> <p>2.c.3. Perform the gross examination and able to describe the findings of neurological cases.</p> <p>2.c.4. Diagnose and manage different cases</p> <p>2.c.5. Evaluate reports like cancer assessment report, cytological report and immunohistochemical report.</p> <p>2.c.6. Apply different technical skills in his special practice</p>	<p>جـ - المهارات المهنية الخاصة بالمقرر:</p>
<p>2.d.1. Work effectively as a member or a leader of an interdisciplinary team and</p> <p>2.d .2. Able to put rules & regularities for evaluation of performance of others.</p> <p>2.d.3. Establish life-long self-learning required for continuous professional development</p> <p>2.d.4. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d .5. Do self criticism. .</p> <p>2.d.6. Retrieve, manage, and manipulate information by all means, including electronic means.</p>	<p>د - المهارات العامّة:</p>
<p style="text-align: center;">٧٨</p>	

٣-
محتوى
المقرر:

Topic	Number of hours		
	Total	Lectures	Practical/ small
General Pathology	7.5Hrs	2.5hrs	5hrs
1-Cell response to injury, Stem cells and repair, Tissue deposits& Inflammation ,Granulomas ,Viral diseases	1-3/4	3/4	1
2-Disturbance of growth Neoplasia, Developmental and genetic diseases	2-3/4	3/4	2
3-Circulatory disturbances, Radiation Basic imunopathology	1-1/2	1/2	1
4-Diagnostic methods in pathology	1-1/2	1/2	1
Special Pathology	15hrs	5hrs	10
1-Normal brain & cellular response to injury	2-1/2	1/2	2
2-Demelinating diseases	3	1	2
3-Cerebrovascular diseases	3	1	2
4-Degenerative diseases:	3	1	2
5-Neurocutaneous syndromes	1/2	1/2	0
6-Tumors of brain	3	1	2
	22.5	7.5	15

- Modified lectures
- Practical lessons

٤- أساليب
التعليم
والتعلم

لا ينطبق

٥- أساليب التعليم
والتعلم للطلاب
ذوى القدرات
المحدودة

٦- تقويم الطلاب :

<ul style="list-style-type: none"> • Written exams • Oral exams • Practical exam 	أ- الأساليب المستخدمة
Final exam in May or November	ب- التوقيت
<ul style="list-style-type: none"> • Written exams 50 • Oral exams 25 • Practical exam 25 	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
<p>Course notes</p> <ol style="list-style-type: none"> 1- Departmental books of General and Special histopathology, available in secretary office. 2- Handouts updated, administered by staff members 3- Museum notebook. 4- CDs for histopathological slides and museum specimens are available at the department. 	أ- مذكرات
<p>Essential books (text books)</p> <ul style="list-style-type: none"> - Sternberg's Diagnostic surgical Pathology 4th edition, Lippincott Williams and Wilkins - Kumar V ,Abbas AK ,Fausto N:Robbins and Cotran Pathologic Basis of Disease ,7th ed.;2005, Elsevier Saunders. Available at faculty bookshops & main library. 	ب- كتب ملزمة
J Rosai (2011): Rosai and Ackerman's Surgical Pathology 10e E-Book, 10th Edition	ج- كتب مقترحة
<p>http://www.pathmax.com/ http://www-medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2 http://www.med.uiuc.edu/PathAtlasf/titlePage.html http://www.medscape.com/pathologyhome http://www.gw_hyperlink http://umc.edu/dept/path/2 umc.edu/dept/path/2f</p>	د - دوريات علمية أو نشرات
<p>أستاذ المادة: أ.د هالة عجينة رئيس مجلس القسم العلمي: أ.د عبد اللطيف البلشي</p>	