



جامعة بنها

كلية الطب البشرى
قسم الامراض العصبية والطب النفسى

توصيف برنامج (دبلوم الامراض العصبية والطب النفسى)
(2013-2014)

A- Basic information

أ- معلومات أساسية:

1- **Name of the program:** Diploma 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.Dr. Abd Al Naser Ali , (Professor of Neurology)

Prof. Dr.Mohammed Al Hammady (Professor of Psychiatry)

5-Internal evaluation of program specification: Prof. Dr. Abo Zaid

Abdullah, (Professor of Neurology)

Prof.Dr. Victor Samy (Professor of Psychiatry)

6-External evaluation of program specification: Prof. Dr. Abd el- Halim

Tantawy, (Professor of Neurology) Mansora University.

Prof.Dr. MostafaKamel Ismail, (Professor of Psychiatry) Ein Shams

University

7-Date of approval of program specification:

- Department council: 8/9/ 2013
- Date of approval of program specification: Faculty council 356, 15/9/2013

B- Professional information

ب- معلومات متخصصة:

١ - الأهداف العامة للبرنامج :



1- Program aims:

The overall aims of the program are:

- 1.1 Provide students with knowledge in basic science to understand Neuropsychiatry.
- 1.2 Enable the student to perfect clinical skills necessary for proper diagnosis and management of patients in the field of neurology and psychiatric medicine..
- 1.3 Enable the student to perfect technical skills that allow interpreting diagnostic investigations properly.
- 1.4 Enable the student to solve clinical problems and suggests logic coast benefit solutions.
- 1.5 Enable the student to practice basic Neuropsychiatry.
- 1.6 Enable the student to demonstrate, and practice positive attitudes that will help him to achieve lifelong continuous medical education, and share in community health education.
- 1.7 React in professional manner reflecting his commitment towards medical ethics, and responsibilities
- 1.8 Commit to continuous self development and transfer of his medical experience to others.

٢ - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

2.a.Knowledge and Understanding: المعرفة والفهم: ٢.أ -

On successful completion of the program the Graduate should be able to:

- 2.a.1. Explain various neurological and psychiatric terms to medicals & non-medicals.
- 2.a.2. **Describe** the various neurological and psychiatric disorders



- 2.a.3. **Discuss** the common theories and factors explaining the etiology in various neurological and psychiatric disorders.
- 2.a.4. **Illustrate** therapeutic options in various neurological and psychiatric diseases
- 2.a.5. **Describe** various neurophysiological diagnostic tools and psychometric tests available to use.
- 2.a.6. **Describe** the basic diagnostic criteria in neurological and psychiatric disorders.
- 2.a.7. **Recognize** the common differential diagnosis in various neurological and psychiatric disorders.
2. a.8. Outline the common interventional therapeutic methods in handling neurological and psychiatric emergencies
- 2.a.9. **Understand** the known good & bad prognostic factors in common neurological and psychiatric disorders.
- 2.a.10. **Demonstrate** the principles and fundamentals of ethics and legal aspects of professional practice in the field of Neurology and Psychiatric Medicine.
- 2.a.11. Identify the principles and fundamentals of quality of professional practice in the field of Neurology and Psychiatric Medicine.
- 2.a.12. Know and understand the effect of professional practice on the environment and the methods of environmental development and maintenance.

٢. ب - القدرات الذهنية :

2.b) Intellectual Skills

On successful completion of the program the Graduate should be able to:

- 2.b.1. Analyze the information in the field of Neurology and Psychiatric medicine and ranking them according to their priorities.
- 2.b.2. **Solve** problems in the area of Neurology and Psychological Medicine



2.b.3. Assess risk in professional practices in the field of Neurology and Psychiatric Medicine

2.b.4. Make professional decisions in the light of the available data.

2.b.5. Interpret data acquired through history taking to reach a provisional diagnosis for neuropsychiatric diseases.

2.b.6. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for neuropsychiatric problems.

2.b.7. Analyze 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.8. Cope with uncertainty by proper counseling, consultation and referral.

2.c. Practical and professional Skills: ج. ٢ . مهارات مهنية وعملية :

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

2.c.1. Evaluate the patients presenting with neurological manifestations.

2.c.2 – implement a plan for management of the different neurological disorders.

2.c.3- Design and perform a research project that contributes to scientific knowledge in neurology.

2.c.4 - Judge and critically appraise the medical literature.

2.c.5 - Search for scientific information and use the medical literature to improve clinical practice.

2.c.6 - Interpret the basic neurophysiology procedures.

2.c.7- Manage patients with the full range of current pharmacological and Psychological treatment

2.c.8 –Write coherent, concise and clinically appropriate progress notes and recognize the importance of prompt and efficient documentation of the clinical record.



2.c.9- Judge and critically appraise the psychiatric and neurological literatures

٢. د . مهارات عامة و منتقلة:

2.d. General and transferable skills:-

By the end of the program the graduate should be able to:

2.d.1. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.d.2. Establish life-long self-learning required for continuous professional development.

2.d.3. Work effectively as a member or leader of a health care team or other professional group.

2.d.4. Communicate effectively with physicians, other health professionals, and health related agencies.

2.d.5. Manage time effectively

2.d.6. Give accurate and clear oral summaries of the patient's illness.

2.d.7- Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.

٣ - المعايير الأكاديمية للبرنامج:

3- Academic Standards

- **Academic Standards of Diploma Program of Neuropsychiatry**, approved in department council 9/6/2013, and in faculty council 354, 16/6/2013. (ملحق ١)

4- العلامات المرجعية: Reference standards

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

Academic reference standards (ARS) , Diploma Program



(March 2009) which was issued by the National Authority for Quality Assurance & Accreditation of Education NAQAAE ملحق ٢

(5): Program structure and contents

5 - هيكل ومكونات البرنامج :

a) Program duration: 4 semesters (2 years)

✚ 1st part: - One Semester (6 months).

✚ 2nd part: - Two Semester (1 year).

✚ Thesis:-One Semester (at least 6 months after 2nd part)).

b-Program structure

- Total hours of program 40 credit hours
- Theoretical ... 9 credit hours
- Practical 20 credit hours
- university 6 credit hours
- Logbook 5 credit hours

ج- مستويات ومقررات البرنامج:

الساعات المعتمدة	الكود	المقررات	البند
٦ ساعات	UNIV 501	للجامعة والكلية	متطلبات
٩ ساعات		يشمل الآتي:	الجزء الأول
٤ ساعات ٢ ساعة ١ ساعة ١ ساعة	NEUR 501	• الفسيولوجى Physiology • الكيمياء الحيوية Biochemistry • الفارماكولوجيا الإكلينيكية للجهاز العصبي والنفسي والغدد الصماء (نظري) Pharmacology	
٢ ساعة ١ ساعة ١ ساعة	NEUR 502	• التشريح والنمو الجنين Anatomy • الهستولوجيا للجهاز العصبي (نظري) Histology	
٣ ساعات ١ ساعة ٢ ساعة	NEUR 503	• علم الاحصاء Medical statistics • علم النفس العام وعلم النفس الخاص وفروعه (نظري) وعملية Psychology	
٥ ساعات		• حضور الندوات العلمية والمؤتمرات	كراسة الأنشطة



		الدورات التدريبية • إجراء أبحاث إضافية مثل نتبع عشر حالات كاملة الفحص في كل من العصبية والنفسية وحالتين تتبع النفسية لمدة ٦ أشهر علي الأقل	
٢٠ ساعة		يشمل الآتي:	الجزء الثاني
٣ ساعات	NEUR 504	مقرر علمي وإكلينيكي في الأمراض الباطنة العامة Internal Medicine	
٨ ساعات	NEUR 505	مقرر علمي وإكلينيكي في الأمراض العصبية Neurology	
٦ ساعات	NEUR 506	الطب النفسي للبالغين والأطفال مقرر علمي Psychiatry وإكلينيكي	
١ ساعة	NEUR 507	باثولوجيا الجهاز العصبي- مقرر علمي وعملي	
٢ ساعة	NEUR 508	الباثولوجيا النفسية مقرر علمي وعملي	
٤٠ ساعة			الاجمالي

First part (one semester):

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week			Total teaching hours/one semester
		Theoretical Lectures	Seminars	Laboratory /practical	
Physiology	NEUR 501	2		2	30 hours
Biochemistry		1		1	15 hour
Pharmacology		1		1	30hours
Medical statistics	NREU 503		1	1	15 hour
Psychology		2		2	30 hours
Anatomy	NEUR 502		1	1	15 hour
					15 hour



Histology		1	1	
Total:		9	9	135 hours

b- Elective courses: none

c-Selective courses:none

Second part (2 semesters):

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week			Total teaching hours/ 2 semesters
		Theoretical Lectures	Laboratory /practical seminars	Total	
Neurology	NEUR505	4	4	8	120 hours
Psychiatry	NEUR506	3	3	6	90 hours
Internal medicine	NEUR504	2	1	3	45 hours
Pathology	NEUR507-508	2	1	3	45 hours



Total:		11	9	20	300 hours
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b- Elective courses: none

c- Selective course: none

6- محتويات المقررات (راجع توصيف المقررات) ملحق ٦

7- متطلبات الإلتحاق بالبرنامج : 7- Program admission requirements

مادة (٤): **يشترط في قيد الطالب لدرجة الماجستير: (١)

أ- أن يكون حاصلا على درجة البكالوريوس في الطب والجراحة من احدى 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 في درجة البكالوريوس.

ت- يسمح للحاصل على الدبلوم وعلى خلاف لنظام هذه اللائحة أن يسجل لدرجة الماجستير بشرط أن يكون تقديره في الدبلوم لا يقل عن جيد وبغض النظر عن تقديره في البكالوريوس.

(٢) أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز)

(٣) أن يتفرغ للدراسة لمدة سنة على الأقل في الجزء الثاني (فصلين دراسيين)

مادة (٥): يكون التقدم للقيود لدرجة الماجستير مرة واحدة في السنة خلال شهري يوليو وأغسطس من كل عام. تبدأ الدراسة لدرجة الماجستير في شهر أكتوبر من كل عام.

8 - 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 التفصيلي للمقررات في 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 في الطالب لنيل درجة ماجستير التخصص في 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 أصلي أو زائر لمدة سنة على الأقل في قسم التخصص بالنسبة للعلوم الاكلينيكية.



- ت- أن ينجح في امتحان القسمين الأول والثاني.
- ث- اجتياز الطلب لثلاث دورات في الحاسب الآلى (دورة في مقدمة الحاسب – دورة تدريبية متوسطة – دورة في تطبيقات الحاسب الآلى) وذلك قبل مناقشة الرسالة.
- ج- اجتياز اختبار التوفيل بمستوى لا يقل عن ٤٠٠ وحدة وذلك قبل مناقشة الرسالة.
- أن يقوم باعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهى باعداد رسالة تقبلها لجنة التحكيم.

9- طرق وقواعد تقييم الملتحقين بالبرنامج 9-Students Assessment Methods

م	الطريقة	ما تقيسه من مخرجات التعلم المستهدفة
1	Written examination including short essay case study, MCQ examination	To assess knowledge and understanding & intellectual skills: From 2.a.1.....2.a.15. and 2.b.1.....2.b.11.
2	Oral examination	To assess knowledge and understanding, intellectual skills & General & transferable skills 2.a.1.....2.a.15., 2.b.1.....2.b.11., 2.d.1.....2.d.6.
3	Practical & clinical examination	To assess knowledge and understanding, intellectual skills & practical and clinical skills and 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	تحريري		
١٥٠			٧٥	٧٥	اختبار تحريري مدته ثلاث ساعات	تشريح
٥٠			٢٥	٢٥	+ اختبار شفهي	هستولوجي
١٥٠			٧٥	٧٥	اختبار تحريري مدته ثلاث ساعات	فسيولوجي+
٥٠			٢٥	٢٥	+ اختبار شفهي	كيمياء+
٥٠			٢٥	٢٥		فارماكولوجي
٥٠			٢٥	٢٥	اختبار تحريري مدته ثلاث ساعات	علم الاحصاء+
١٠٠			٥٠	٥٠	+ اختبار شفهي	علم النفس و السلوكية
٦٠٠						إجمالي الدرجة



Second part

الدرجة				الاختبار	المقرر
إجمالي	إكلينيكي	شفهي	تحريري		
٣٠٠	٧٥	٧٥	+٧٥ ٧٥	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مادة الامراض العصبية
٣٠٠	٧٥	٧٥	+٧٥ ٧٥	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	مادة الامراض النفسية
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					الاجمالي

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:

10 - طرق تقويم البرنامج:

Evaluator	Tools	Sample
Internal evaluator (s) مقييما داخلي	Report	1-2 Report
External Evaluator (s) مقييما خارجي	Report	1-2 Report
Senior student (s) طلاب السنة النهائية	Interview, questionnaires	All
Alumni خريجون	Interview, questionnaires	Not less than 50% from the last 3 years
Stakeholder (s) أصحاب العمل	Interview, questionnaires	Representative samples from all sectors

11: استراتيجيات التعليم و التعلم علي مستوي البرنامج:

1. استراتيجياتية التعلم النشط. Active learning
2. استراتيجياتية التعليم المبني على النتائج. Outcome-based learning
3. استراتيجياتية التعليم المبني على حل المشكلات. Problem-based learning.

المسئول عن البرنامج : أ.م.د/ عبد الناصر علي مراد
التوقيع عبد الناصر علي مراد



التاريخ : ٢٠١٣/٩/٨

الملاحق :

- ملحق ١ : وثيقة المعايير الأكاديمية لبرنامج دبلوم الامراض العصبية و الطب النفسي
- ملحق ٢ : المعايير القياسية للدراسات العليا ٢٠٠٩ الصادرة عن الهيئة القومية لضمان جودة التعليم والاعتماد (برامج دبلوم الدراسات العليا)
- ملحق ٣ : مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الدبلوم مع المعايير الأكاديمية المتبناة لبرنامج دبلوم الامراض العصبية و الطب النفسي
- ملحق ٤ : مصفوفة المضاهاة بين المعايير المتبناة لبرنامج دبلوم الامراض العصبية و الطب النفسي مع أهداف و نواتج تعلم البرنامج
- ملحق ٥ : مصفوفة المعارف والمهارات للبرنامج الدراسي (مصفوفة المقررات مع البرنامج)
- ملحق ٦ : توصيف المقررات

Program courses

First part	
١	فسيولوجيا
٢	كيمياء حيوية
٣	التشريح
٤	هستولوجي
٥	علم النفس
٦	فارماكولوجي
Second part	
١	باطنة عامة
٢	باثولوجي
٣	أمراض عصبية
٤	طب نفسي

ملحق ١ : وثيقة المعايير الأكاديمية

لبرنامج دبلوم الأمراض العصبية والطب النفسي

1. Graduate Attributes:

1.1 Apply specific knowledge gained during practice of Neuropsychiatry.



1.2. Identify professional problems in Neuropsychiatry and suggest solutions for them.

1.3. Master professional skills with usage of suitable technologies in practice of Neuropsychiatry..

1.4. Able to efficiently communicate and lead team works throughout organized professional work.

1.5. Make decision in the lights of the available information.

1.6. Perfect utilization of available resources.

1.7. Aware of community problems with ability to develop and maintain good environment.

1.8. Reflect the commitment to act with integrity, credibility and professional norms and accountability.

1.9. Recognize the need to develop himself and to engage in continuous learning.

2. Academic Standards:

2.1. Knowledge and understanding:

By the end of Diploma program, the graduate should recognize and understand the followings:

2.1.1-The basic scientific knowledge related to Neurological and Psychiatric disorders.

2.1.2-Common Neurological and Psychiatric problems

2.1.3-Basic pathology underlying different Neurological and Psychiatric disorders.

2.1.4-Basic concepts of Neurological diagnostic procedures related to different Neurological disorders.

2.1.5-Different management modalities for common Neurological and Psychiatric problems.

2.1.6-Principles and fundamentals of quality of professional practice



in the field of Neurology and Psychiatric Medicine.

2.1.7-The effect of professional practice on the environment and the methods of environmental development and maintenance.

2.2.Intellectual skills:

By the end of Diploma program, graduate should be able to recognize the followings:

2.2.1 analysis of the information in the field of Neuropsychiatry Medicine and ranking them according to their priorities.

2.2.2.Solving problems in the area of Neurology and Psychiatry

2.2.3. Analysis of researches and issues related to Neurology and Psychiatric Medicine

2.2.4.Assessment of risk in professional practices in the field of Neurology and Psychiatric Medicine

2.2.5.Taking professional decisions in the light of the available data obtained from patients

2.3.Practical/Professional skills

By the end of Diploma program, graduate should accept the followings skills:

2.3.1 Write medical reports.

2.3.2 Use appropriate technology in the field of Neurology and Psychiatric Medicine

2.3.3 Documentation of complete medical history in the outpatient, inpatient or emergency settings.

2.3.4 Take a complete psychiatric examination.

2.3.5 Construct patient's symptoms and physical signs in terms of anatomic, pathologic and functional diagnostic significances.

2.3.6 Judge problems and select the most appropriate and cost effective diagnostic procedures for each problem.

2.4.General and transferable skills:

By the end of Diploma program, graduate 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

اعتماد مجلس القسم بتاريخ: 9/6/ 2013

رئيس مجلس القسم

أ.د/فيكتور سامي ميخائيل

اعتماد مجلس الكلية ٣٥٤

16/6/2013

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



برامج دبلوم الدراسات العليا

موصفات الخريج

خريج برنامج الدبلوم في أي تخصص يجب أن يكون قادرا على :

- ١-١ تطبيق المعارف المتخصصة التي اكتسبها في ممارسته المهنية .
- ٢-١ تحديد المشكلات المهنية واقتراح حلول لها.
- ٣-١ إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة في ممارسته المهنية .
- ٤-١ التواصل وقيادة فرق العمل من خلال العمل المهنا المنظومي
- ٥-١ اتخاذ القرار في ضوء المعلومات المتاحة
- ٦-١ توظيف الموارد المتاحة بكفاءة
- ٧-١ الوعي بدوره في تنمية المجتمع والحفاظ على البيئة
- ٨-١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة وتقبل المسائلة والمحاسبة
- ٩-١ إدراك ضرورة تنمية ذاته والانخراط في التعليم المستمر

-المعايير القياسية العامة

١-٢ المعرفة والفهم:

بانتهاج دراسة برامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على فهم واستيعاب كل من :
١-١-٢ النظريات والاساسيات والمعارف المتخصصة في مجال التعلم وكذا العلوم ذات العلاقة بممارسته المهنية

- ٢-١-٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص
- ٣-١-٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص
- ٤-١-٢ تأثير لممارسة المهنية على البيئة والعمل على الحفاظ على البيئة وصيانتها

٢-٢ المهارات الذهنية :

- بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :
- ١-٢-٢ تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقا لأولوياتها
 - ٢-٢-٢ حل المشاكل المتخصصة في مجال مهنته
 - ٣-٢-٢ القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص
 - ٤-٢-٢ تقييم المخاطر فبالممارسات المهنية
 - ٥-٢-٢ اتخاذ القرارات المهنية في ضوء المعلومات المتاحة

٣-٢ المهارات المهنية :

- بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :
- ١-٣-٢ تطبيق المهارات المهنية في مجال التخصص
 - ٢-٣-٢ كتابة التقارير المهنية



- ٢-٤ المهارات العامة والمنتقلة:
بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :
٢-٤-١ التواصل الفعال بأنواعه المختلفة
٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية
٢-٤-٣ التقييم الذاتون تحديد احتياجاته التعليمية الشخصية
٢-٤-٤ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
٢-٤-٥ العمل في فريق وإدارة الوقت
٢-٤-٦ قيادة فريق في سياقات مهنية مألوفة
٢-٤-٧ التعلم الذاتي والمستمر

ملحق ٣: مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الدبلوم مع المعايير الأكاديمية المتبناة لبرنامج الدبلوم الأمراض العصبية والطب النفسي

مواصفات الخريج	
مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الماجستير)
1Ap1.1 apply specific knowledge gained during practice of neuropsychiatry.	1.1 تطبيق المعارف المتخصصة التي اكتسبها في ممارسته المهنية .
1.2 identify professional problems in neuropsychiatry and suggest solutions for them	2.1 تحديد المشكلات المهنية واقتراح حلولاً لها.
1.3 master professional skills with usage of suitable technologies in practice of Neuropsychiatry.	3.1 إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة في ممارسته المهنية .
1.4 able to efficiently communicate and lead team work works throughout organized professional work.	4.1 التواصل وقيادة فرق العمل من خلال العمل المهني المنظم
1.5 make decision in the lights of the available Informations	5.1 اتخاذ القرار في ضوء المعلومات المتاحة
1.6 perfect utilization of available resources.	6.1 توظيف الموارد المتاحة بكفاءة
1.7 aware of community problems with ability to develop and maintain good environment	7.1 الوعي بدوره في تنمية المجتمع والحفاظ على البيئة
1.8 reflect the commitment to act with integrity, ability credibility and professional norms Nor and accountability.	8.1 التصرف بما يعكس الالتزام بالنزاهة والمصادقية وقواعد المهنة وتقبل المسائلة والمحاسبة
1.9 recognize the need to develop himself and to engage in continuous Learning	9.1 إدراك ضرورة تنمية ذاته والانخراط في التعليم المستمر



أ. المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
2.1.1-The basic scientific knowledge related to Neurological and Psychiatric disorders.	١-١-٢ النظريات والاساسيات والمعارف المتخصصة في مجال التعلم وكذا العلوم ذات العلاقة بممارسته المهنية
2.1.1-The basic scientific knowledge related to Neurological and Psychiatric disorders.	٢-١-٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص
2.1.6-Principles and fundamentals of quality of professional practicein the field of Neurology and Psychiatric Medicine.	٣-١-٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1.7-The effect of professional practice on the environment and themethods of environmental development and maintenance.	٤-١-٢ تأثير لممارسة المهنية على البيئة والعمل على الحفاظ على البيئة وصيانتها

ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
2.2.1.Identificaton and analysis of the information in the field of Neuro Psychiatry Medicine and ranking them according to their priorities.	١-٢-٢ تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقاً لأولوياتها
2.2.2.Solving problems in the area of Neurology and Psychiatry	٢-٢-٢ حل المشاكل المتخصصة في مجال مهنته
2.2.3. Analysis of researches and issues related to Neurology and Psychiatric Medicine	٣-٢-٢ القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص
2.2.4.Assessment of risk in professional practices in the field of Neurology and Psychiatric Medicine	٤-٢-٢ تقييم المخاطر فالممارسات المهنية
2.2.5.Taking professional decisions in the light of the available data obtained from patients	٥-٢-٢ اتخاذ القرارات المهنية في ضوء المعلومات المتاحة

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
2.3.2Use appropriate technology in the field of Neurology and Psychiatric Medicine	١-٣-٢ تطبيق المهارات المهنية في مجال التخصص



2.3.1 Write medical reports.

٢-٣-٢ كتابة التقارير المهنية

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
2.4.1. Maintain an effective relationship with colleges, 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 تطوير الممارسة المهنية
2.4.3. Assess himself and identify personal learning needs.	٣-٤-٢ التقييم الذاتي لتحديد احتياجاته التعليمية الشخصية
2.4.4. Use different sources to obtain information and knowledge.	٤-٤-٢ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
2.4.5. Work in a team and team's leadership in a professional context 2.4.6. Manage time efficiently.	٥-٤-٢ العمل في فريق وإدارة الوقت
2.4.5. Work in a team and team's leadership in a professional context	٦-٤-٢ قيادة فريق في سياقات مهنية مألوفة

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

أهداف البرنامج	المعايير الأكاديمية للبرنامج (مواصفات الخريج):
1.1.	1.1 apply specific knowledge gained during practice of neuropsychiatry.
1.4.	1.2 identify professional problems in neuropsychiatry and suggest solutions for them
1.2.	1.3 master professional skills with usage of suitable technologies in Neuropsychiatry.
1.7.	1.4 able to efficiently communicate and lead team works throughout organized professional work.
1.6.	1.5 make decision in the lights of the available Information



1.3.	1.6 perfect utilization of available resources.
1.6	1.7 aware of community problems with ability to develop and maintain good environment
1.7	1.8 reflect the commitment to act with integrity, credibility and professional norms and accountability.
1.8	1.9 recognize the need to develop himself and to engage in continuous Learning

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج	
Knowledge and understanding											
	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-The basic scientific knowledge related to Neurological and Psychiatric disorders.
		*	*								2.1.2-Common Neurological and Psychiatric problems
								*			2.1.3-Basic pathology underlying different Neurological and Psychiatric disorders.
						*					2.1.4-Basic concepts of Neurological diagnostic procedures related to different Neurological disorders.
		*	*								2.1.5-Different management modalities for common Neurological and Psychiatric problems.
	*										2.1.6-Principles and fundamentals of quality of professional practice in the field of Neurology and Psychiatric Medicine.
	*										2.1.7-The effect of professional practice on the environment and the methods of environmental development and maintenance.
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.			



				*	*				*	2.2.1. Identification and analysis of the information in the field of Neuro Psychiatry Medicine and ranking them according to their priorities.	
									*	2.2.2. Solving problems in the area of Neurology and Psychiatry	
			*							2.2.3. Analysis of researches and issues related to Neurology and Psychiatric Medicine	
								*		2.2.4. Assessment of risk in professional practices in the field of Neurology and Psychiatric Medicine	
						*				2.2.5. Taking professional decisions in the light of the available data obtained from patients	
نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات المهنية	
Practical/Professional skills											
					2.c.7	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2.	2.c.1.
				*							
						*					
				*							
										*	
							*				
								*		*	
نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات العامة والمنتقلة	
General and transferable skill											



2.d.1.											2.4.1. Maintain an effective relationship with colleges, patients, paramedical and team workers .
2.d.2.										*	2.4.2. Use information technology to serve the development of professional practice.
2.d.3.										*	2.4.3. Assess himself and identify personal learning needs.
2.d.4.	*									*	2.4.4. Use different sources to obtain information and knowledge.
2.d.5.									*		2.4.5. Work in a team and team's leadership in a professional context
2.d.6.	*										2.4.6. Manage time efficiently.
2.d.7.	*										
2.d.8.									*		

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	
*		*	*		*	*		*	*	NEUR505	Neurology
*		*		*		*	*	*		NEUR	Psychiatry
					*			*		NEUR501	Pharmacology
					*					NEUR501	Biochemistry
		*			*					NEUR503	Physiology
	*			*		*		*		NEUR	Pathology
		*		*			*			NEUR	Anatomy
			*					*		NEUR503	Statistics
	*		*		*	*	*		*	NEUR	Psychology
		*		*			*		*	NEUR	General medicine
			*						*	NEUR502	Histology



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	
*	*	*		*	*		*	NEUR505	Neurology
*	*		*		*	*	*	NEUR	Psychiatry
				*			*	NEUR501	Pharmacology
				*				NEUR501	Biochemistry
	*			*				NEUR503	Physiology
*			*		*		*	NEUR	Pathology
	*		*			*		NEUR	Anatomy
		*					*	NEUR 503	Statistics
*		*		*	*	*		NEUR	Psychology
	*		*			*		NEUR	General medicine
		*					*	NEUR502	Histology

مهارات عملية و مهنية Practical & Clinical Skills								ILOs	
	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	Courses & codes	
	*	*	*	*	*			NEUR505	Neurology
	*		*		*	*	*	NEUR	Psychiatry
				*			*	NEUR501	Pharmacology
				*				NEUR501	Biochemistry
	*			*				NEUR503	Physiology
			*		*		*	NEUR	Pathology
	*		*			*		NEUR	Anatomy
		*					*	NEUR 503	Statistics
		*		*	*	*		NEUR	Psychology
	*		*			*		NEUR	General medicine
			*				*	NEUR502	Histology



مهارات عامة General and transferable								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	
*	*	*		*	*			NEUR505	Neurology
*	*		*		*	*	*	NEUR	Psychiatry
				*			*	NEUR501	Pharmacology
				*				NEUR501	Biochemistry
	*			*				NEUR503	Physiology
*			*		*		*	NEUR	Pathology
	*		*			*		NEUR	Anatomy
		*					*	NEUR503	Statistics
*		*		*	*	*		NEUR	Psychology
	*		*			*		NEUR	General medicine
					*	*		NEUR502	Histology

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



جامعة بنها
كلية الطب البشري
قسم الكيمياء الحيوية

توصيف مقرر كيمياء حيوية وعلم وراثه دبلوم الامراض العصبية والطب النفسى

١- بيانات المقرر		
الفرقة / المستوى: دبلوم جزء أول	اسم المقرر : كيمياء حيوية وعلم وراثه	الرمز الكودي : NEUR 501
١٠٥ ساعة معتمدة	عدد الوحدات الدراسية : نظري	التخصص : دبلوم الأمراض العصبية والطب النفسى
<p>1.1. Provide a broad education in fundamental aspects of medical biochemistry and molecular biology;</p> <p>1.2. Provide a sound knowledge and understanding of the biochemical importance of macro-, micronutrients, hormones and enzymes;</p> <p>1.3. illustrate and/or describe the metabolic pathways of macronutrients and nucleotides;</p> <p>1.4. Illustrate the contribution of the organs in metabolic process under different physiological circumstances;</p> <p>1.5. understand the bioenergetics of the concerned metabolic pathways under different physiological circumstances and their integrator regulations with other working metabolic pathways;</p> <p>1.6. point out and understand the biochemical and the molecular basis of a range of diseases, their diagnosis and the development of therapies;</p> <p>1.7. Acquire a critical understanding of the basic principles of molecular biology, different methods used in diagnosis of diseases;</p> <p>1.8. Be familiar with biotechnology methods and their clinical implications and be able to explain some detailed examples;</p> <p>1.9. Be able to devise and evaluate suitable experimental methods for the investigation of relevant areas of biochemistry and molecular biology;</p> <p>1.10. describe major body fluids composition and their clinical impact;</p> <p>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.</p>		١- أهداف المقرر :
٢- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i>		



<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 describe 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 state 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>	<p>أ- المعلومات والمفاهيم :</p>
<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>	<p>ب- المهارات الذهنية:</p>
<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>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<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>	<p>د - المهارات العامة :</p>



Subject	Lectures (hrs)	Total (hrs)	% of Total	
Medical Biochemistry				٣- محتوى المقرر:
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. • <u>Practical sessions</u> 				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

أستاذ المادة : عزه البرماوى
رئيس مجلس القسم العلمي : آمال أبو الفضل



جامعة بنها
كلية الطب البشرى
قسم الفسيولوجيا

توصيف مقرر فسيولوجيا
لدبلوم الأمراض العصبية و الطب النفسى

بيانات المقرر		
الفرقة / المستوى : دبلوم جزء أول	اسم المقرر : فسيولوجيا	الرمز الكودي : NEURO 503
عدد الوحدات الدراسية : نظري 1 credit hours		التخصص: دبلوم الأمراض العصبية و الطب النفسى
<p>1.1 approaching to the detailed knowledge of human physiology. 1.2. Facilitate understanding the clinical data for the student in the clinical practice. 1.3. Develop skills associated with improved health care and health care cervices. 1.4. Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met- within clinical practice. 1.5. Basic scientific knowledge essential for establishing & maintaining good doctor/patient relationship. 1.6. Basic scientific knowledge essential for following the rules of medical ethics . 1.7. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems. 1.8. Lifelong learning competencies necessary for continuous professional development. 1.9. Research education as related to medical practice & post graduation development</p>		١- هدف المقرر:
٢- المستهدف من تدريس المقرر :		
<i>By the end of the course, the student should be able to:</i>		



<p>2.1- discuss according to priority the main functions of systems, organs and cells.</p> <p>2.2- Explain and 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-explain the different mechanisms of homeostasis and how to use it in applied physiology.</p> <p>2.5- provide excellence in medical education, research</p> <p>2.6- approaching 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>2.2.8-. Correlate 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>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- Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>



<p>2.4.1- deal properly and cautiously in a lab.</p> <p>2.4.2- Use the sources of biomedical information to remain current with the advances in knowledge & practice.</p>				<p>د - المهارات العامة :</p>
<p>3- محتوى المقرر:</p>				
Subject	Lectures (hrs)	Total (hrs)	% of Total	
<p><u>Nervous system</u></p> <p>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.</p>	3	3	25%	
<p><u>Cardiovascular system</u></p> <p>1-Cerebral circulation. 2-Regulation of arterial blood pressure. 3-Hemorrhage and shock</p>	3	3	25%	
<p><u>Blood</u></p> <p>1-Anemias. 2-Hemostasis</p>				
<p><u>Respiratory system</u></p> <p>1-Regulation of respiration</p>				
<p><u>Nerve, and Muscle</u></p> <p>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.</p>	9	9	50%	
<p>• Total</p>	15	15	100%	



1. Modified Lectures 2. Tutorial and practical sessions 3. Seminars 4. Conferences	٤- أساليب التعليم والتعلم
لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي 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



جامعة بنها
كلية الطب البشري
قسم الهستولوجي

توصيف مقرر هستولوجي دبلوم الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : دبلوم جزء أول	اسم المقرر : هستولوجي	الرمز الكودي : NEUR 502
عدد الوحدات الدراسية : نظري: ساعة (معمدة)		التخصص : دبلوم 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 I 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. 1.8. Advanced administrative skills necessary for delivery of research service</p>	<p>١ - هدف المقرر :</p>
<p>٢ - المستهدف من تدريس المقرر :</p> <p><i>By the end of the course, the student should be able to:</i></p>	



<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. explain the cell signaling & altered cell behavior.</p> <p>2.1.5. discuss 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. 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 Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague)..</p> <p>2.4.8. Complies with the requirements of the national code of ethics issued by the Egyptian Medical Syndicate.</p>	<p>د - المهارات العامة:</p>



S u b j e c t	Lectures (hrs)	Total (hrs)	%	٣- محتوى المقرر:
C y t o l o g y 1-LM&EM picture ,function and molecular biology of cytoplasmic orga 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 &myoeptih 3-Examples and sites of each type. 4-Functional importance. 5-Modification of epithelial cell surfaces	1	2		
. V I - C o n n e c t i v e t i s s u e 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: Anatomical consideration of CNS-meninges-spinal cord -medulla oblongata- pons-mid brain-cerebellum-dinencephalon- cerebral cortex	9	9	5 0 %	
	4	8		
	2 . 5	5		
T o t a l	2 2 . 5	4 5	١ ٠ ٠	
<ul style="list-style-type: none"> • Modified lectures • Small group discussions: Museum specimens, demonstration (slides photographs and video films), models and case study. • Tutorials. • Seminars. 				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• Oral exams• Practical exam	أ- الأساليب المستخدمة
Final exam in May or November	ب- التوقيت
<ul style="list-style-type: none">• Written exams 100• Oral exams 50• Practical exam 50	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
<ul style="list-style-type: none">• .Histology&Cell Biology department book	أ- مذكرات
Junqueira Basic Histology. 6.2.2. Gartner &Hiatt Atlas Histology 6.2.3.Wheater's functional Histology	ب- كتب ملزمة
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	ج- كتب مقترحة
.http://www.medscape.com . http://www.pubmed.com . .http://master.emedicine.com/maint/cme.asp . .http://www.science direct.com .	د - دوريات علمية أو نشرات

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



جامعة بنها
كلية الطب البشري
قسم الفارماكولوجي

توصيف مقرر الفارماكولوجي
دبلوم الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : دبلوم جزء أول	اسم المقرر : فارماكولوجي	الرمز الكودي : NEUR 501
عدد الوحدات الدراسية : نظري: ساعة معتمدة		التخصص: دبلوم 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>		
2.1.1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems. 2.1.2- Discuss the adverse and toxic effects, and their management of commonly used groups interactions. 2.1.4- discuss clinically relevant age, sex and genetic related variations that affect response to drugs. 2.1.5- explain the pathophysiology of diseases and explain the rational basis for the use of drugs. 2.1.6- Discuss the impact of preventive pharmacology in promoting health and prevent illness.		أ- المعلومات والمفاهيم :
2.2.1- Choose the proper drug(s) for the proper clinical situation in proper dosage. 2.2.2- Calculate accurately drug's dosage, bioavailability, plasma half life and volume of distribution in different patient populations		ب- المهارات الذهنية :



<p>2.3.1- Perform with precision different technique of drug administration. 2.3.2- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies. 2.3.3 Obtain and record a comprehensive drug history of the patient. 2.3.4- Document drug adverse reactions.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>																																				
<p>2.4.1- Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture. 2.4.2- Provide appropriate basic drug education to the patient and his family. 2.4.3- Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.</p>	<p>د - المهارات العامة :</p>																																				
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">Subject</th> <th style="width: 12.5%;">Lectures (hrs)</th> <th style="width: 12.5%;">Total (hrs)</th> <th style="width: 12.5%;">%of Total</th> </tr> </thead> <tbody> <tr> <td>CNS</td> <td>4</td> <td>4</td> <td>20%</td> </tr> <tr> <td>Diuretics</td> <td>3</td> <td>3</td> <td>13.3%</td> </tr> <tr> <td>Chemotherapy.</td> <td>3</td> <td>3</td> <td>13.3%</td> </tr> <tr> <td>Blood</td> <td>3</td> <td>3</td> <td>13.3%</td> </tr> <tr> <td>CVS</td> <td>4</td> <td>4</td> <td>20%</td> </tr> <tr> <td>Corticosteroids</td> <td>3</td> <td>3</td> <td>13.3%</td> </tr> <tr> <td>General</td> <td>4</td> <td>4</td> <td>20%</td> </tr> <tr> <td>Total</td> <td>24</td> <td>24</td> <td>100%</td> </tr> </tbody> </table>	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>٣- محتوى المقرر:</p>
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General	4	4	20%																																		
Total	24	24	100%																																		
<p>4.1-1.modified lectures 4.1.2. Practical modules</p>	<p>٤- أساليب التعليم والتعلم</p>																																				
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written exams.	50 %	ج- توزيع الدرجات
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 مهند محمد ابراهيم
رئيس مجلس القسم العلمي : أ.دمهند محمد ابراهيم



جامعة بنها
كلية الطب البشري
قسم الأمراض النفسية

توصيف مقرر علم النفس
لدبلوم الأمراض العصبية والطب النفسي

بيانات المقرر	
الرمز الكودي	اسم المقرر : علم النفس
NEUR503	الفرقة / المستوى : دبلوم جزء أول
التخصص : دبلوم الأمراض العصبية والطب النفسي	عدد الوحدات الدراسية : نظري: ساعة معتمدة
١- هدف المقرر :	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, problemsolving 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.
٢- المستهدف من تدريس المقرر :	By the end of the course, the student should be able to:



<p>2a1. Describe how to explain various psychiatric terms</p> <p>2.a.2 discuss 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 explain normal and abnormal behavior</p> <p>2.a.5 Identify basics of doctor relationship</p> <p>2.a.6 Discuss basics of different psychometric tests 1</p> <p>2.a.7 define 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 discuss 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. Design scientific research that adds to knowledge.</p> <p>2.b.4.correlate the effect of personality on behavior</p> <p>2.b.7. Engage in evidence based discussions.</p> <p>2.b.8. Formulate scientific papers.</p> <p>2.b.9 Integrate between the science of psychology and general medicine.</p> <p>2.b.10 interpret 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>



2.d.1. Communicate effectively. 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.d.5. Evaluate self performance and continue to learn. 2.d.8. Manage scientific meetings and manage time. 2.d.10. Continue self learning.				د - المهارات العامة:																																																				
<table border="1"><thead><tr><th>Subject</th><th>Lectures (hrs)</th><th>Total (hrs)</th><th>% of Total</th></tr></thead><tbody><tr><td>1- Introduction & historical background</td><td rowspan="3">2</td><td rowspan="3">2</td><td rowspan="3">15%</td></tr><tr><td>2- Psychology in relation to medicine</td></tr><tr><td>3- Doctor Patient relationship</td></tr><tr><td>4- Basic brain structures and behavior</td><td rowspan="2">2</td><td rowspan="2">2</td><td rowspan="2">15%</td></tr><tr><td>5- Personality</td></tr><tr><td>6- Stress</td><td rowspan="2">2</td><td rowspan="2">2</td><td rowspan="2">15%</td></tr><tr><td>7- Emotions, Motivation</td></tr><tr><td>8 - Developmental psychology</td><td>1</td><td>1</td><td>7.5%</td></tr><tr><td>9- Perception, Attention, Sensory deprivation</td><td>2</td><td>2</td><td>15%</td></tr><tr><td>10- Social psychology</td><td>1</td><td>1</td><td>7.5%</td></tr><tr><td>11- Psychology of terrorism</td><td>1</td><td>1</td><td>7.5%</td></tr><tr><td>12- Intelligence</td><td>1</td><td>1</td><td>7.5%</td></tr><tr><td>13- Learning, memory and thinking</td><td>2</td><td>2</td><td>15%</td></tr><tr><td>14- Frustration and defensive mechanisms, sleep</td><td>1</td><td>1</td><td>7.5%</td></tr><tr><td>Total</td><td>15</td><td>15</td><td>100%</td></tr></tbody></table>				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%	٣- محتوى المقرر:
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<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:AhmedOkasha	أ- مذكرات
Psychology (8th Edition) by Carole Wade and Carol Tavris	ب- كتب ملزمة
Psychology: The Science of Mind and Behavior by Michael Passerand 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



جامعة بنها
كلية الطب البشري
قسم الأمراض النفسية

توصيف مقرر التشريح
دبلوم الأمراض العصبية والطب النفسي

بيانات المقرر		
الرمز الكودي :	اسم المقرر : التشريح	الفرقة / المستوى : دبلوم جزء أول
NEUR 502	عدد الوحدات الدراسية : نظري: ساعة معتمدة	التخصص: دبلوم الأمراض العصبية والطب النفسي
1- Acquire an appropriate knowledge about the development of the nervoussystem. 2- Explore in detail the cross sectional anatomy of the nervous system. 3- Integrate the anatomical data and the mechanisms with the ongoing basicsciences as histology, physiology and biochemistry. 4- Integrate the anatomical data and the clinical manifestations of nervous systemaffection due to variable neurological disorders. 5- Develop the basic scientific research skills in the field of anatomy andEmbryology.	1- هدف المقرر :	
3- المستهدف من تدريس المقرر :		
<i>By the end of the course, the student should be able to:</i>		
A1- identify the basic knowledge of the embryological development of the nervoussystem. A2- describe the anatomical structures of the central and peripheral nervous system. A3- describe the cross sectional anatomy of cerebrum, cerebellum, brainstem, spinal cord, nerve roots and peripheral nerves. A4- explain the anatomical pathways of the motor nervous system (including pyramidal and extrapyramidal tracts) and the different bodily sensations. A5- discuss the blood supply of the different anatomical nervous structures.	أ- المعلومات والمفاهيم :	



<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>	ب- المهارات الذهنية :
<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>	ج- المهارات المهنية الخاصة بالمقرر :
<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>	د - المهارات العامة :



Subject	Lectures (hrs)	Total (hrs)	%of Total	3- محتوى المقرر:
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 and practical				4- أساليب التعليم والتعلم
	لا ينطبق	5- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة		
				6- 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 :



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.دسعديه شلبي

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

توصيف مقررات الامراض العصبية
لدبلوم الأمراض العصبية والطب النفسى

١- بيانات المقرر		
المستوى	اسم المقرر :	الرمز الكودي : (NEUR505)
دبلوم جزء ثاني	الأمراض العصبية	



<input type="checkbox"/>	عدد الوحدات الدراسية : نظري ٤ عملي ٤ ٨ ساعات معتمدة	التخصص : دبلوم الأمراض العصبية والطب النفسي
<p>1.1- Deal with common Neurological and conditions on the basis of adequate history taking, physical examination</p> <p>1.2 Interpret of relevant supportive investigations and Management.</p> <p>1.3- Deal with Neurological emergencies.</p> <p>1.-5 Perceive and integrate progress in Neurological diagnostic technology.</p> <p>1.6Acquire an appropriate knowledge about the wide array of neurological disorders.</p> <p>1.7 Perform an efficient neurological history taking and examination.</p> <p>1.8 Carry out the diagnosis and plan the treatment of the commonly encountered neurological diseases and emergencies.</p> <p>1.9 Acquire the appropriate professional attitudes, communication and problem solving skills.</p> <p>1.10Use the medical literature to improve the clinical practice and develop independent and life-long learning.</p>		٢- هدف المقرر :
٣- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i>		



<p>2.a.1 explain steps of History taking (complaint, history of present illness and its chronicity)</p> <p>2.a.2 explain the symptoms of which an Neurological patient complain & its analysis</p> <p>2.a.3 describe the signs and manifestations of Neurological diseases.</p> <p>2.a.4 describe the Neurological manifestations of general medical diseases (D.M, HTN , Thyrotoxicosis)</p> <p>2.a.5 Enumerate concepts in the common diagnostic & laboratory techniques necessary to establish diagnosis of Neurological illnesses.</p> <p>2.a.6 Describe the various therapeutic methods and other alternative use.</p> <p>2.a.7 identify the principles and fundamentals of prevention control and avoiding further complications.</p> <p>2.a.8 explain various neurological terms to medicals & non-medicals.</p> <p>2.a.9. describe the various neurological disorders</p> <p>2.a.10. Mention the common theories and factors explaining the etiology in various neurological disorders.</p> <p>2.a.11 identify therapeutic options in various neurological diseases</p> <p>2.a.12. Mention various neurophysiological diagnostic tools</p> <p>2.a.13. Describe the basic diagnostic criteria in neurological disorders.</p> <p>2.a.14. explain the common differential diagnosis in various neurological disorders.</p> <p>2.a.15. describe the common interventional therapeutic methods in handling neurological emergencies</p> <p>2.a.16. discuss the known good & bad prognostic factors in common neurological disorders.</p>	<p>أ- المعلومات والمفاهيم :</p>
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<p>2.b.1 analyze the information in the field of Neurology and ranking them according to their priorities.</p> <p>2.b2. Solve problems in the area of Neurology</p> <p>2.b3. Analyze researches and issues related to Neurology</p> <p>2.b4. Assess risk in professional practices in the field of Neurology</p> <p>2.b5. Make professional decisions in the light of the available data</p> <p>2.b6.To integrate clinical findings in neurological diagnosis .</p> <p>2.b.7.To 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.1Apply professional skills in the field of Neurology</p> <p>2.c2. 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 select investigations and laboratory test to help in reaching the proper diagnosis.</p> <p>2.2.6 Know the differential diagnosis of neurological diseases .</p> <p>2.2.7 To 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 Demonsrate self-direction & some originality in taking and solving problem</p>	<p>د - المهارات العامّة :</p>



Topic	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total	٤ - محتوى 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				



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	٥- أساليب التعليم والتعلم
٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة لا ينطبق	
٧- تقويم الطلاب :	
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	أ- الأساليب المستخدمة
7.b Only by final Exam: written, oral and clinical examinations	ب- التوقيت
7.c. Final-term written examination 50% Oral examination 25% Clinical examination 25%	ج- توزيع الدرجات
٨- قائمة الكتب الدراسية والمراجع :	
8.a Course Notes: Lectures notes prepared by staff members in the department	أ- مذكرات
8.b Essential Books (Text Books): Merritt's Neurology.	ب- كتب ملزمة
8.c Recommended Books: <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.	ج- كتب مقترحة
8.d. Periodicals and Web Sites: <ul style="list-style-type: none">• http://www.neurology.org, http://www.ncbi.nlm.gov.com• http://www.freemedicaljournals.com	د - دوريات علمية أو نشرات

أستاذ المادة : ا.دخالد سلام رئيس مجلس القسم العلمي :أ.د فكتور سامي ميخائيل



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

توصيف مقررات الامراض العصبية
لدبلوم الأمراض العصبية والطب النفسي

١- بيانات المقرر		
المستوى دبلوم جزء ثاني	اسم المقرر : الطب النفسي	الرمز الكودي : (NEUR 506)
<input type="checkbox"/>	عدد الوحدات الدراسية : نظري ٣ عملي ٣ ٦ ساعات معتمدة	التخصص : دبلوم الأمراض العصبية والطب النفسي

<ol style="list-style-type: none">1- Understanding the pathophysiology of different psychiatric disorders and the associated neuroscience background.2. Understanding the appropriate use and interpretation of common diagnostic studies.293. 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 :
<i>By the end of the course, the student should be able to:</i>	٣- المستهدف من تدريس المقرر :



<p>2a1. explain the etiology of illness and disease, with special emphasis on medical, psychosocial and environmental causes.</p> <p>2a2. identify the principles of genetics and the role of genetics in different psychiatric and neurological diseases.</p> <p>2a3. discuss the basic medical science to disease process, supported by early clinical contact and demonstration.</p> <p>2a4. Discuss the common disease's clinical manifestations and differential diagnosis.</p> <p>2a5. explain the scientific basis of common diagnostic studies with emphasis on their prioritization in management plans.</p> <p>2a6. Define pharmacological principles of treatment including: drug effects/pharmacokinetics, dosage, drug-drug interactions and adverse reactions.</p> <p>2a7. Describe the principles of non-pharmacological therapies, and their role in disease management (psychotherapy, electroconvulsive therapy, trans-cranial magnetic stimulation)</p> <p>2a8. describe the nature of disability, its impact on the community and the principles of management including: rehabilitation, institutional and community care.</p> <p>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.</p> <p>2a10. Describe how to apply his/her medical knowledge in the service of law with emphasis on medico-legal aspects of medical practice.</p> <p>2a11. Specify the basics of normal and abnormal human behaviors</p>	أ- المعلومات والمفاهيم :
<p>2.b.1. Demonstrate insight for continued self assessment of their current medical practice aiming to update and improve it.</p> <p>2.b.2. Interpret clinical problems as how to differentiate between psychotic and neurotic disorders.</p> <p>2.b.3. Analyze medical problems to reach appropriate diagnosis and assess comorbid psychiatric disorders.</p> <p>2.b.4. Evaluate information objectively, recognizing its limitations.</p> <p>2.b.5. Integrate the results of history, physical and mental examination with neuropsychiatric investigation findings into a meaningful diagnostic formulation.</p> <p>2.b.6. choose the most relevant diagnostic tools as different psychometries for different suspected disorders.</p> <p>2.b.7. cope with uncertainty by proper counseling, consultation and referral.</p> <p>2.b.8. Evaluate emergency cases in psychiatry and manage them properly.</p> <p>2.b.9. Integrate the psychiatric and somatic manifestations to accurately evaluate the patient.</p> <p>2.b.10. build therapeutic alliance with the patient based on professionalism and ethics.</p>	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>22.c.10. Plan to improve professional performance and develop others' performance.</p>	<p>جـ - المهارات المهنية الخاصة بالمقرر :</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>2.d.7 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).</p>	<p>د - المهارات العامة :</p>



Topic	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total	٤- محتوی المقرر:
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	١	١			
16-Psychotherapy	١	١			
Service planning and administration	١		20		
Psychiatric disorders in women	١				
Guidelines of management of psychiatric disorders in pregnant and lactating women	١				
Psychiatric emergencies	١				
Investigation in psychiatry	١				
Child psychiatry	١				
Old age psychiatry	١				
Cultural psychiatry	١				
Psychotherapy, physical treatments and other models of therapy	١				
Forensic and Ethics	١				
Other topics	١				
<input type="checkbox"/> Basics psychopharmacology.	١				
<input type="checkbox"/> Genetic and counseling.	١				
<input type="checkbox"/> Prevention in psychiatry.	١				
<input type="checkbox"/> Future of psychiatry.	١				
<input type="checkbox"/> Stigma because of mental illness.	١				
<input type="checkbox"/> Commonly used instruments in psychiatry.	١				
<input type="checkbox"/> Quality of life in psychiatry.	١				



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	٥- أساليب التعليم والتعلم
لا ينطبق	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٧- تقويم الطلاب :	
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	أ- الأساليب المستخدمة
7.b Only by final Exam: written, oral and clinical examinations	ب- التوقيت
7.c. Final-term written examination 50% Oral examination 25% Clinical examination 25%	ج- توزيع الدرجات
٨- قائمة الكتب الدراسية والمراجع :	
8.a Course Notes: <ul style="list-style-type: none">Lectures notes prepared by staff members in the department	أ- مذكرات
8.b Essential Books (Text Books): <ul style="list-style-type: none">Synopsis of psychiatry (three volumes) Benjamin James Sadock, Virginia Alcott Sadock 2007Comprehensive Textbook of psychiatry Benjamin J Sadock; VirginiaASadock 2004Case files psychiatry Toy Klamen 2004	ب- كتب ملزمة
8.c Recommended Books: 1- Neurobiology of mental illness: second edition Dennis Charney, Eric Niester 2005 2-Handbook of psychiatric drugs Lawrence J., Rhoda K.,Christopher 2005	ج- كتب مقترحة
8.d. Periodicals and Web Sites:	د - دوريات علمية أو نشرات



أستاذ المادة : ا.د محمد الحمادي رئيس مجلس القسم العلمي : أ.د فكتور سامي ميخائيل

جامعة بنها
كلية الطب البشرى
قسم الباطنة العامة

توصيف مقرر الباطنة العامة
دبلوم الأمراض العصبية و الطب النفسى

بيانات المقرر	
الفرقة / المستوى: دبلوم جزء ثاني	اسم المقرر : General Medicine
الرمز الكودي : NEUR 504	
عدد الوحدات الدراسية : نظري ساعتين معتمدة عملي: ساعة معتمدة	التخصص : دبلوم الأمراض العصبية و الطب النفسى
1- Acquire an appropriate knowledge for the etiology, clinical manifestations and treatment the common neurological complications of various medical diseases. 2- Acquire an appropriate knowledge for the diagnosis and treatment of the common medical illness associating neurological diseases. 3- Determine the diagnostic tools and methods of treatment of interfering medical and neurological diseases. 4- Differentiate between neurological and medical causes of coma. 5- Recognize the non interfering methods of treatment used in management of co-morbid medical and neurological diseases.	
1- هدف المقرر:	
2- المستهدف من تدريس المقرر :	
<i>By the end of the course, the student should be able to:</i>	
A1- Identify the common medical problems presenting with neurological/psychiatric symptoms or signs. A2- explain the etiology and treatment of the common neurological /psychiatric symptoms and signs presenting in the clinical picture of different medical diseases. A3- Identify the proper diagnostic tools needed to differentiate Neurological /psychiatric from metabolic causes of coma. A4- Identify the neurological/psychiatric complications of the different medical diseases and effectively treat them in a way that does not interfere with other given medications. A5- describe the different neurological psychiatric diseases that require consultation of the internal medicine in order to establish the proper plan of treatment.	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>																																			
<table border="1"> <thead> <tr> <th>Topic</th> <th>Lectures</th> <th>Practical</th> <th>Total</th> <th>% of total</th> </tr> </thead> <tbody> <tr> <td><u>Endocrinal diseases</u> Neurological/Psychiatric manifestations of endocrinal diseases 4</td> <td>10</td> <td>20</td> <td>30</td> <td>22.2%</td> </tr> <tr> <td><u>Hepatology & Gastroenterology</u> Neurological/Psychiatric manifestations of GIT diseases 2</td> <td>10</td> <td>20</td> <td>30</td> <td>22.2%</td> </tr> <tr> <td><u>Nephrology</u> Chronic renal failure</td> <td>5</td> <td>10</td> <td>15</td> <td>11.1%</td> </tr> <tr> <td><u>Collagen diseases and vasculitis</u> Neurological/Psychiatric manifestations of immunological & rheumatology diseases 4</td> <td>15</td> <td>30</td> <td>45</td> <td>33.3%</td> </tr> <tr> <td><u>Hematology</u> Neurological/Psychiatric manifestations of hematological diseases & oncology 4</td> <td>5</td> <td>10</td> <td>15</td> <td>11.1%</td> </tr> <tr> <td><u>Total</u></td> <td>45</td> <td>90</td> <td>135</td> <td>100%</td> </tr> </tbody> </table>	Topic	Lectures	Practical	Total	% of total	<u>Endocrinal diseases</u> Neurological/Psychiatric manifestations of endocrinal diseases 4	10	20	30	22.2%	<u>Hepatology & Gastroenterology</u> Neurological/Psychiatric manifestations of GIT diseases 2	10	20	30	22.2%	<u>Nephrology</u> Chronic renal failure	5	10	15	11.1%	<u>Collagen diseases and vasculitis</u> Neurological/Psychiatric manifestations of immunological & rheumatology diseases 4	15	30	45	33.3%	<u>Hematology</u> Neurological/Psychiatric manifestations of hematological diseases & oncology 4	5	10	15	11.1%	<u>Total</u>	45	90	135	100%	<p>٣- محتوى المقرر:</p>
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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
دبلوم الأمراض العصبية والطب النفسي

بيانات المقرر		
الفرقة / المستوى : دبلوم جزء أول	اسم المقرر : باثولوجيا	الرمز الكودي : NEUR 507
	عدد الوحدات الدراسية : نظري: ساعة ونصف (معتمدة) عملي: نصف ساعة معتمدة	التخصص : دبلوم الأمراض العصبية والطب النفسي



<p>The overall goals of the course are to:</p> <ul style="list-style-type: none">▪ 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	- هدف المقرر :
٢- المستهدف من تدريس المقرر :	
<i>By the end of the course, the student should be able to:</i>	
2.a.1. Classify and type the diseases according to pathological lesions 2.a.2. describe the etiology: risk factors and causes of the diseases 2.a.3. describe macroscopic and microscopic picture of the common neurological cases. 2.a.4. Describe the clinical manifestations and differential diagnosis of common neurological I 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. b2.b.3. Combine the clinical and investigational database to be proficient in clinical problem solving. 2.b.4. Plane 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 immune-histochemical report.</p> <p>2.c.6. Apply different technical skills in his special practice</p>		ج- المهارات المهنية الخاصة بالمقرر:
<p>2.d.1. Work effectively as a member or a leader of an interdisciplinary team and</p> <p>2.d.2. 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>		د - المهارات العامة:
		٣- محتوى المقرر:
Topic	Number	
	Total	Lecture
General Pathology	7.5Hrs	2.5hrs
1-Cell response to injury, Stem cells and repair, Tissue deposits& Inflammation ,Granulomas ,Viral diseases	1-3/4	3/4
2-Disturbance of growth Neoplasia, Developmental and genetic diseases	2-3/4	3/4
3-Circulatory disturbances, Radiation Basic imunopathology	1-1/2	1/2
4-Diagnostic methods in pathology	1-1/2	1/2
Special Pathology	15hrs	5hrs
1-Normal brain & cellular response to injury	2-1/2	1/2
2-Demelinating diseases	3	1
3-Cerebrovascular diseases	3	1
4-Degenerative diseases:	3	1
5-Neurocutaneous syndromes	1/2	1/2
6-Tumors of brain	3	1
	22.5	7.5
<ul style="list-style-type: none"> Modified lectures and discussion Practical lessons 	٤- أساليب التعليم والتعلم	



لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
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٧- قائمة الكتب الدراسية والمراجع :	
Course notes 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
Essential books (text books) - Sternberg's Diagnostic surgical Pathology 4 th edition, Lippincott Williams and Wilkins - Kumar V ,AbbasAK ,Fausto N:Robbins and Cotran Pathologic Basis of Disease ,7 th 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
http://www.pathmax.com / http://www-medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2 http://www.med.uiuc.edu/PathAtlas/titlePage.html http://www.medscape.com/pathologyhome http://www.gw hyperlink http://umc.edu/dept/path/2 umc.edu/dept/path/2f	د - دوريات علمية أو نشرات

أستاذ المادة: أ.د. هالة عجينة
رئيس مجلس القسم العلمي: أ.د. عبد اللطيف البلشي