



توصيف برنامج ماجستير التخدير و العناية المركزة الجراحية
(عام 2013-2014)

Master degree of anesthesia and post surgical ICU

*** معلومات أساسية :** Basic information

١ - اسم البرنامج : ماجستير التخدير و العناية المركزة الجراحية
Master degree of anesthesia and post surgical ICU

Speciality: Anesthesia and post surgical ICU

٢ - طبيعة البرنامج : مشترك

٣ - القسم / الأقسام المسؤولة عن البرنامج :

- القسم المسئول: قسم التخدير و العناية المركزة الجراحية
- الأقسام المشاركة:

Physiology, Pharmacology, Anatomy and Internal medicine.

٤ - تاريخ إقرار البرنامج فى مجلس القسم : 8 / 9 / 2013

٥ - تاريخ إقرار البرنامج فى مجلس الكلية: 15 / 9 / 2013

٦ - مسؤل البرنامج: Prof. Dr Ehab Abdel Rahman

٧ - المراجعة الداخلية للبرنامج: Prof. Dr Mohamed Yosry

٨ - المراجعة الخارجية للبرنامج: Prof. Dr Ameer Salah



Professional information

* معلومات متخصصة:

١ - الأهداف العامة للبرنامج :

1- Program aims:

The overall aims of the program are to:

- 1.1 Provide** basic scientific knowledge essential to do assesment for preparation of patients, therapeutic and diagnostic procedures for anesthesia and surgical intensive care.
- 1.2 Provide** safe monitoring and restoration of homeostasis during perioperative period, as well as homestasis in the crtically ill injured, or otherwise seriuosly ill patient
- 1.3 Perform** clinical management and teaching of cardiac and pulmonary resuscitation.
- 1.4 Apply** the basics and fundamentals of scientific research effectively and using its different tools to cover basic and advanced in anaesthesia and surgical intensive care
- 1.5 Apply** the Analytical approach in the field of anesthesia and intensive care
- 1.6 Apply** recent scientific knowledge essential for the mastery of practice of anesthesia and intensive care according to the international standards and its integration with the related sciences including(anatomy, physiology, pharmacology, physics and internal medicine) in the professional practice
- 1.7 Show** awareness of the ongoing problems and the modern visions in the field of anesthesia and intensive care.
- 1.8 Use** different methods of statistical analysis techniques and how to use it in field of anesthesia
- 1.9 Identify** anesthesia and intensive care problems and find out solutions.
- 1.10 Perform** an appropriate scale of anesthesia and intensive care skills necessary for management of patients effectively, and use the appropriate technological means to serve the professional practice.
Use the skills available for achieving the best value



- 1.11 Communicate** with other colleagues effectively and to be able to lead a team work.
- 1.12 Take** professional decisions in different anesthesia and intensive care problems.
- 1.13 Use** the available resources in the best way in order to achieve the highest benefit and to preserve these resources.
- 1.14 Show** awareness of his role in community development and environmental conservation in the light of the global and regional variables.
- 1.15 Behave** in a manner reflecting the commitment to integrity and credibility of the profession and the commitment to the rules of this sensitive specialty.
- 1.16 Develop** him academically and professionally with maintenance of learning abilities necessary for continuous medical education.

٢ - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

2.1. Knowledge and Understanding : أ.٢ - المعرفة والفهم :

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

- 2.a.1. Identify** the principles of the basic Physiology, Pharmacology, Anatomy, physics and medical facts, theories of anesthesia and intensive care as they apply to patients support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care facilities
- 2.a.2. understand** the scientific advances in the field of anesthesia and intensive care and related fields.
- 2.a.3. Know** the principles and fundamentals of ethics and legal aspects of professional practice in the field of anesthesia and intensive care based upon social, psychological, medical and surgical understanding.
- 2.a.4. Recognize** basic and recent advanced of the technical procedures commonly employed in anaesthetic practice including (airway management,



cardiovascular resuscitation, patient monitoring and life support, general and regional anesthetic and analgesic techniques and post operative care.

2.a.5. Describe the principles , fundamentals and applications of quality of professional practice in the field of anesthesia and intensive care.

2.a.6. Recognize the principles and hypothesis of anaesthetic problems with surveillance and screening of all related topics

2.a.7. discuss basics and ethics of scientific research in the field of anesthesia and intensive care.

2.a.8. Identify the principles that govern ethical decision making in clinical practice, the scope and the impact of human rights law on persons and groups as well as the medico-legal malpractice and common medical error.

2.a.9. explain methods of promoting health anesthesia and intensive care based on Physiology, Pharmacology, Anatomy and medical knowledge.

2.a.10. Identify the impact of anesthesia and intensive care problems on quality of life, regarding health, social, psychological and financial conditions, fitness to work and personal relationships.

2.2. Intellectual Skills:

٢. 2- القدرات الذهنية :-

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

2.b.1 Interpret, analyze & evaluate the physiological, Pharmacological, Anatomical and medical information to solve anesthesia and intensive care problems

2.b.2 Solve some anesthesia and intensive care problems that do not conform to classic data (incomplete data) with guidance of physiological, Pharmacological, Anatomical and medical information.

2.b.3. Asses patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems

2.b.4. Analyze the information of clinical and investigational database to be proficient in clinical problem solving.

2.b.5. Integrate different physiological, Pharmacological, Anatomical and medical information to solve anesthesia and intensive care problems



2.b.6. Conduct a scientific research &/Or write scientific thesis in a systematic approach about a anesthesiological and an intensive care problem.

2.b.7. Combine all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.

2.b.8. Evaluate risks imposed during professional anesthesia and intensive care practice including internal medical problems and anesthetic procedures.

2.b.9. Plan to improve performance in the field of anesthesia and intensive care based on physiological, Pharmacological, Anatomical and medical background.

2.b.10. Make professional decisions in different anesthesia and intensive situations with guidance of physiological, Pharmacological, Anatomical and medical information.

2.b.11. Manage Scientific discussion based on scientific evidences and proofs about anesthesia and intensive care topics.

2.b.12. Criticize researches related to anesthesia and intensive care.

2.3. Practical and professional Skills: 2-3 . مهارات مهنية وعملية :

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

2.c.1. Perform efficiently physiological, Pharmacological, Anatomical, medical and advanced professional procedural skills necessary in the field of anesthesia and intensive care

2.c. 2. Write and evaluate physiological, Pharmacological, Anatomical and medical reports about different anesthesia and intensive care problems.

2.c.3. Evaluate methods and tools existing in the area anesthesia and intensive care.

2.c.4. Utilize the basic skills as inspection, palpation, percussion and auscultation in detecting the general and local physical abnormalities for perioperative assessment.



- 2.c.5. Perform** all clinical assessment to recognize normal and abnormal findings.
- 2.c.6. Perform** basic techniques of general and regional anaesthesia.
- 2.c.7. Choose** effective modes of communication(listening, nonverbal, explanatory, questioning) and mechanisms of communication(face to face, telephone, e-mail, written), as appropriate.
- 2.c.8. Apply** sterile, safe techniques and infection control guidelines according to International principles in physiological, Pharmacological, Anatomical and medical procedures in anesthesia and intensive care practice.
- 2.c.9. Collect** information systematically, using questions that are appropriately focused toward assessment of the anesthesia and intensive care problems.
- 2.c.10. Use** skills in educating colleagues and other healthcare professionals.

2-4. مهارات عامة و منتقلة:

2-4. General and transferable skills:-

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

- 2.d.1 Communicate** with professors and colleagues effectively using different methods.
- 2.d.2 Use** information technology to improve his/her the anesthesia and intensive care practice.
- 2.d.3 Practice** self-appraisal and determines his learning needs in the anesthesia and intensive care practice.
- 2.d.4 Use** different sources of information to obtain data in the anesthesia and intensive care practice.
- 2.d.5 Share** in determination of standards for evaluation of others in the anesthesia and intensive care practice.
- 2.d.6 Work** in a team and work as team leader in situations comparable to his work level in the anesthesia and intensive care practice.
- 2.d.7 Manage** time effectively in managing the anesthesia and intensive care situations.



- 2.d.8 Learn** independently and seek continuous learning related to the anesthesia and intensive care.
- 2.d.9 Demonstrate** respect to all patients irrespective of their socio-cultural or religious status in the anesthesia and intensive care practice.
- 2.d.10 Conduct** patient interview with patience, attentive listening and respect in the anesthesia and intensive care practice.
- 2.d.11. Apply** the principles of statistical methods for collection, presentation and analysis of all type of data.

٣ - المعايير الأكاديمية للبرنامج:

3-Academic Standards:

- a. **Academic Standards of Master Program of Anesthesia and post surgical ICU**, approved in department 2 June, 2013, and in faculty council no.(354) date 16 June, 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)

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

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

5- Curriculum structure and contents:

٥ - هيكل ومكونات البرنامج :

أ - مدة البرنامج : 45 weeks

1st part: One semester (6months).

2nd part: Tow semisters (one year).



Thesis: 6 months

ب - هيكل البرنامج :

b. Program structure :

Total hours of program 37hours

Theoretical11 hours...credit hours.....

Practical4 hours.....credit hours.....

Thesis: 6 hours

University and faculty requirements: 6 hours

Logbook: 5 hours

ج: مستويات و مقرارات البرنامج:

c-Compulsory:

الساعات المعتمدة	الكود	المقررات	البند
٦ ساعات		للجامعة والكلية	متطلبات
٧ ساعات		يشمل الاتى:	الجزء الأول
١ ساعة	ANET 601	مقرر علمى فى التشريح	
٢ ساعة	ANET 602	مقرر علمى فى الفسيولوجيا	
٣ ساعة	ANET 603	مقرر علمى و عملى فى الفارماكولوجى	
١ ساعة	ANET 604	مقرر علمى فى مبادئ الفيزياء و طرق القياسات الاكلينيكية	
٥ ساعات		تتضمن حضور المؤتمرات و الندوات العلمية و حضور المناقشات العلنية للرسائل و المهارات المكتسبة اثناء التدريب الاكلينكى	كراسة الانشطة



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الجزء الثاني	يشمل الاتى:	ساعة
	مقرر علمى و اكلينيكي فى الامراض الباطنة	٤ ساعة
	مقرر علمى فى تاريخ التخدير	١
	مقرر علمى و عملى فى علاقة التخدير بالامراض و طرق الانعاش و العناية المركزة	٣ ساعات
رسالة الماجستير		٦ ساعات
الاجمالى		٣٧ ساعة

تم اعتماد إجراءات تصحيحية لللائحة في مجلس قسم ٢٠١٣/٦/١٦ :
▪ دمج المقرر العلمى المذكور تاريخ التخدير (٦٠٦) الى مقرر علمى و عملى فى التخدير و العناية المركزة الجراحية (٦٠٨)

First part (15 weeks duration/6 months)

a- Compulsory courses.

Course Title	Course code	Number s of hours per week		Total teaching hours/one semester
		Lectures	practical	
Anatomy	ANET 601	1	-	15
Physiology	ANET 602	2	-	30
pharmacology	ANET 603	3	-	45
Physics	ANET 604	1	-	15



Total		7	105
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b- Elective courses: none

c- Selective courses: none

Second part (30 weeks duration/12 months)

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week			Total teaching hours /semester
		Theoretical	practical	total/week	
Internal Medicine	ANET 605	2	2	4	120
Anesthesia and post surgical ICU	ANET 605	2	2	4	120
Total.		4	4	8	240

b- Elective courses: none

c- Selective courses: none



٦- محتويات المقررات (راجع توصيف المقررات) ملحق (٦)

- كود أو رقم المقرر : ANET 601
 - اسم المقرر : مقرر علمى فى التشريح
- كود أو رقم المقرر : ANET 602
 - اسم المقرر : مقرر علمى فى الفسيولوجيا
- كود أو رقم المقرر : ANET 603
 - اسم المقرر : مقرر علمى و عملى فى الفارماكولوجى
- كود أو رقم المقرر : ANET 604
 - اسم المقرر : مقرر علمى فى مبادئ الفيزياء و طرق القياسات الاكايينكية
- كود أو رقم المقرر : ANET 605
 - اسم المقرر : مقرر علمى و اكلينيكي فى الامراض الباطنة
- كود أو رقم المقرر : ANET 608
 - اسم المقرر: مقرر علمى و عملى فى التخدير والعناية المركزة الجراحية
 - المحتويات: (طبقاً لما هو مذكور في اللائحة)



٧- 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.

٨- القواعد المنظمة لإستكمال البرنامج :

8- Regulations for progression and program completion:

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



برنامج ماجستير التخدير و العناية المركزة الجراحية



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



٩- وسائل تقييم مخرجات التعلم المستهدفة من البرنامج :

9- Students Assessment methods:

م	الوسيلة	مخرجات التعلم المستهدفة
	Written examination	To assess knowledge & understanding intellectual skills. From 2.a.1 to 2.a.10 And from 2.b.1.to 2.b.12
	Oral examination	To assess knowledge and understanding, intellectual skills, General & transferable skills From 2.a.1 to 2.a.10 From 2.b.1 to 2.b.12 From 2.d.1 to 2.d.11
	practical examination	To assess knowledge and understanding & intellectual skills, practical and clinical skills and reneral and transferable skills. From 2.a.1 to 2.a.10 From 2.b.1 to 2.b.12 From 2.c.1 to 2.c. 10 and 2.a.1 to 2.a.10 From 2.d.1 to 2.d.11



Final exam.

First part

إجمالي	الدرجة			الامتحان	المقرر
	إكلينيكي	عملي	نظري		
100			50	50	التشريح
100			50	50	اختبار تحريري مدته ثلاث ساعات + اختبار شفوي
200			100	100	اختبار تحريري مدته ساعتين + اختبار شفوي
200			100	100	اختبار تحريري مدته ثلاث ساعات + اختبار شفوي
600	إجمالي الدرجة				

Second part

إجمالي	الدرجة			الامتحان	المقرر
	عملي	إكلينيكي	نظري		
100		50		50	الباطنة العامة
600		300		300	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفوي + اختبار إكلينيكي
700	إجمالي الدرجة				



١٠- طرق تقويم البرنامج :

10- Evaluation of Program:

Evaluator	Tools	Signature
Internal evaluator (s) مقيّم داخلي	Focus group discussion Meetings	<u>أ.د محمد بسري</u>
External Evaluator (s) مقيّم خارجي	Reviewing according to external evaluator checklist report.	<u>أ.د امير صلاح</u>
Senior student (s) طلاب السنة النهائية	none	
Alumni الخريجون	questionary	<u>لا يقل عن ٥٠% من طلبة اخر ٣ دفعات</u>
Stakeholder (s) أصحاب العمل	meetings	<u>محنة ممثلة لجميع جهات العمل</u>
Others طرق أخرى	none	

المسئول عن البرنامج : أ.د/ ايهاب أحمد عبد الرحمن التوقيع

التاريخ : ٢٠١٣-٩-٨



توصيف المقررات

Program courses

١ التشريح
٢ الفسيولوجى
٣ الفارما
٤ الفيزياء
Second part
مقرر علمى و عملى فى التخدير و العناية المركزة الجراحية

الملحقات :

ملحق ١ : Academic standards of the program

ملحق ٢ : المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

ملحق ٣ : مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق ٤ : مصفوفة نواتج تعلم البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق ٥ : مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق ٦ : توصيف المقررات



ملحق ١ Academic standards of the program

جامعة بنما

كلية الطب

قسم التخدير والعناية المركزة الجراحية

وثيقة المعايير الأكاديمية المرجعية لبرنامج الماجستير

**Academic Reference Standards (ARS) for Master Degree in
Anesthesia and post surgical ICU**

1- Graduate Attributes:

1.1 Provide basic scientific knowledge essential to do assesment for preparation of patients, therapeutic and diagnostic procedures for anesthesia and surgical intensive care.

1.2 Provide safe monitoring and restoration of homeostasis during perioperative period, as well as homestasis in the crtically ill injured, or otherwise seriuosly ill patient

1.3 Perform clinical management and teaching of cardiac and pulmonary resuscitation.

1.4 Apply the basics and fundamentals of scientific research effectively and using its different tools to cover basic and advanced in anaesthesia and surgical intensive care

1.5 Apply the Analytical approach in the field of anesthesia and intensive care

1.6 Apply recent scientific knowledge essential for the mastery of practice of anesthesia and intensive care according to the international standards and its integration with the related sciences including(anatomy, physiology, pharmacology, physics and internal medicine) in the professional practice

1.7 Show awareness of the ongoing problems and the modern visions in the field of anesthesia and intensive care.



1.8 Use different methods of statistical analysis techniques and how to use it in field of anesthesia

1.9 Identify anesthesia and intensive care problems and find out solutions.

1.10 Perform an appropriate scale of anesthesia and intensive care skills necessary for management of patients effectively, and use the appropriate technological means to serve the professional practice.

Use the skills available for achieving the best value

1.11 Communicate with other colleagues effectively and to be able to lead a team work.

1.12 Take professional decisions in different anesthesia and intensive care problems.

1.13 Use the available resources in the best way in order to achieve the highest benefit and to preserve these resources.

1.14 Show awareness of his role in community development and environmental conservation in the light of the global and regional variables.

1.15 Behave in a manner reflecting the commitment to integrity and credibility of the profession and the commitment to the rules of this sensitive specialty.

1.16 Develop him academically and professionally with maintenance of learning abilities necessary for continuous medical education.

2. Academic Standards:

2.1 Knowledge and understanding:

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

2.1.1. The principles of the basic Physiology, Pharmacology, Anatomy, physics and medical facts, theories of anesthesia and intensive care as they apply to patients support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care facilities



2.1.2. The scientific advances in the field of anesthesia and intensive care and related fields.

2.1.3. The principles and fundamentals of ethics and legal aspects of professional practice in the field of anesthesia and intensive care based upon social, psychological, medical and surgical understanding.

2.1.4. Basic and recent advanced of the technical procedures commonly employed in anaesthetic practice including (airway management, cardiovascular resuscitation, patient monitoring and life support, general and regional anesthetic and analgesic techniques and post operative care.

2.1.5. The principles , fundamentals and applications of quality of professional practice in the field of anesthesia and intensive care.

2.1.6. The principles and hypothesis of anaesthetic problems with surveillance and screening of all related topics

2.1.7. Basics and ethics of scientific research in the field of anesthesia and intensive care.

2.1.8. The principles that govern ethical decision making in clinical practice, the scope and the impact of human rights law on persons and groups as well as the medico-legal malpractice and common medical error.

2.1.9. Methods of promoting health anesthesia and intensive care based on Physiology, Pharmacology, Anatomy and medical knowledge.

2.1.10. The impact of anesthesia and intensive care problems on quality of life, regarding health, social, psychological and financial conditions, fitness to work and personal relationships.

2.2 Intellectual skills:

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

2.2.1 The physiological, Pharmacological, Anatomical and medical information to solve anesthesia and intensive care problems

2.2.2 Anesthesia and intensive care problems that do not conform to classic data (incomplete data) with guidance of physiological, Pharmacological, Anatomical and medical information.



2.2.3. How to assess patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems

2.2.4. The information of clinical and investigational database to be proficient in clinical problem solving.

2.2.5. How to integrate different physiological, Pharmacological, Anatomical and medical information to solve anesthesia and intensive care problems

2.2.6. How to conduct a scientific research &/Or write scientific thesis in a systematic approach about a anesthesiological and an intensive care problem.

2.2.7. How to combine all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.

2.2.8. How to evaluate risks imposed during professional anesthesia and intensive care practice including internal medical problems and anesthetic procedures.

2.2.9. How to Plan to improve performance in the field of anesthesia and intensive care based on physiological, Pharmacological, Anatomical and medical background.

2.2.10. How to make professional decisions in different anesthesia and intensive situations with guidance of physiological, Pharmacological, Anatomical and medical information.

2.2.11. How to manage Scientific discussion based on scientific evidences and proofs about anesthesia and intensive care topics.

2.2.12. How to **Criticize** researches related to anesthesia and intensive care.

2.3 Practical/Professional skills

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



2.3.1. Performing effeciently physiological, Pharmacological, Anatomical, medical and advanced professional procedural skills necessary in the field of anesthesia and intensive care

2.3. 2. Writing and evaluating physiological, Pharmacological, Anatomical and medical reports about different anesthesia and intensive care problems.

2.3.3. Evaluation methods and tools existing in the area anesthesia and intensive care.

2.3.4. Utilizing the basic skills as inspection, palpation, percussion and auscultation in detecting the general and local physical abnormalities for perioperative assessment.

2.3.5. Performing and interpreting all clinical assessment to recognize normal and abnormal findings.

2.c.6. Performing basic techniques of general and regional anaesthesia.

2.3.7. Choosing effective modes of communication(listening, nonverbal, explanatory, questioning) and mechanisms of communication(face to face, telephone, e-mail, written), as appropriate.

2.3.8. Applying sterile, safe techniques and infection control guidelines according to International principles in physiological, Pharmacological, Anatomical and medical procedures in anesthesia and intensive care practice.

2.3.9. Collecting information systematically, using questions that are appropriately focused toward assessment of the anesthesia and intensive care problems.

2.3.10. Using skills in educating colleagues and other healthcare professionals.

2.4 Communication and transferable skills.

By the end of Master program, graduate should accept the following skills.



- 2.4.1 Communication** with professors and colleagues effectively using different methods.
- 2.4.2 Using** information technology to improve his/her the anesthesia and intensive care practice.
- 2.4.3 Practice** self-appraisal and determines his learning needs in the anesthesia and intensive care practice.
- 2.4.4 Using** different sources of information to obtain data in the anesthesia and intensive care practice.
- 2.4.5 Sharing** in determination of standards for evaluation of others in the anesthesia and intensive care practice.
- 2.4.6 Working** in a team and work as team leader in situations comparable to his work level in the anesthesia and intensive care practice.
- 2.4.7 Managing** time effectively in managing the anesthesia and intensive care situations.
- 2.4.8 Learning** independently and seek continuous learning related to the anesthesia and intensive care.
- 2.4.9 Demonstrating** respect to all patients irrespective of their socio-cultural or religious status in the anesthesia and intensive care practice.
- 2.4.10 Conducting** patient interview with patience, attentive listening and respect in the anesthesia and intensive care practice.
- 2.4.11. Applying** the principles of statistical methods for collection, presentation and analysis of all type of data.

اعتماد مجلس القسم رقم (.....)، بتاريخ ١٢/٥/.....٢٠١٣..

رئيس مجلس القسم

أ.د/سعد ابراهيم

اعتماد مجلس الكلية

٢٠١٣-٥-١٢



ملحق ٢ : المعايير القياسية العامة لبرامج قطاع الدراسات العليا

برنامج الماجستير

١ - مواصفات الخريج

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

- ١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
- ٢-١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص
- ٣-١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ماسته المهنية
- ٤-١ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
- ٥-١ تحديد المشكلات المهنية وإيجاد حلول لها
- ٦-١ إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
- ٧-١ التوصل بفاعلية والقدرة على قيادة فرق العمل
- ٨-١ اتخاذ القرار في سياقات مهنية مختلفة
- ٩-١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
- ١٠-١ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
- ١١-١ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
- ١٢-١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

٢ - المعايير القياسية العامة

١-٢ المعرفة والفهم :

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



٦-١-٢ اساسيات و اخلاقيات البحث العلمى

٢-٢ المهارات الذهنية :

- بانتهاة دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٢-٢ تحليل وتقيم 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

- بانتهاة 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

- بانتهاة 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 الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة

- مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الماجستير)
1.1 Provide basic scientific knowledge essential to do assesment for preparation of patients, therapeutic and diagnostic procedures for anesthesia and surgical intensive care.	١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة
1.5 Apply the Analytical approach in the field of anesthesia and intensive care	١-٢ تطبيق المنهج التحليلى واستخدامه فى مجال التخصص
1.6 Apply recent scientific knowledge essential for the mastery of practice of anesthesia and intensive care according to the international standards and its integration with the related sciences including (anatomy, physiology, pharmacology, physics and internal medicine) in the professional practice	١-٣ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ممارسته المهنية
1.7 Show awareness of the ongoing problems and the modern visions in the field of anesthesia and intensive care.	١-٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص
1.3 Perform clinical management and teaching of cardiac and pulmonary resuscitation. 1.9 Identify anesthesia and intensive care problems and find out solutions.	١-٥ تحديد المشكلات المهنية وإيجاد حلول لها



<p>1.4Apply the basics and fundamentals of scientific research effectively and using its different tools to cover basic and advanced in anaesthesia and surgical intensive care</p>	<p>٦-١ إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية</p>
<p>1.11 Communicate with other colleagues effectively and to be able to lead a team work.</p>	<p>٧-١ التوصل بفاعلية والقدرة على قيادة فرق العمل</p>
<p>1.2 Provide safe monitoring and restoration of homeostasis during perioperative period, as well as homestasis in the critically ill injured, or otherwise seriously ill patient</p>	<p>٨-١ اتخاذ القرار في سياقات مهنية مختلفة</p>
<p>1.10 Perform an appropriate scale of anesthesia and intensive care skills necessary for management of patients effectively, and use the appropriate technological means to serve the professional practice. Use the skills available for achieving the best value</p> <p>1.13 Use the available resources in the best way in order to achieve the highest benefit and to preserve these resources.</p>	<p>٩-١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها</p>



<p>1.14 Show awareness of his role in community development and environmental conservation in the light of the global and regional variables.</p>	<p>١-١٠ إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية</p>
<p>1.15 Behave in a manner reflecting the commitment to integrity and credibility of the profession and the commitment to the rules of this sensitive specialty.</p>	<p>١-١١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة</p>
<p>1.16 Develop him academically and professionally with maintenance of learning abilities necessary for continuous medical education.</p>	<p>١-١٢ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر</p>

أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
<p><i>By the end of Master program, the candidate should recognize and understand the followings:</i></p>	<p>بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :</p>
<p>2.1.1. The principles of the basic Physiology, Pharmacology, Anatomy, physics and medical facts, theories of anesthesia and intensive care as they apply to patients support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care</p>	<p>١-١-٢ النظريات والاساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة</p>



facilities	
2.1.6. The principles and hypothesis of anaesthetic problems with surveillance and screening of all related topics	٢-١-٢- التآثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
2.1.2. The scientific advances in the field of anesthesia and intensive care and related fields.	٢-١-٣ التطورات العلمية فى مجال التخصص
2.1.3. The principles and fundamentals of ethics and legal aspects of professional practice in the field of anesthesia and intensive care based upon social, psychological, medical and surgical understanding.	٢-١-٤ المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
2.1.5. The principles , fundamentals and applications of quality of professional practice in the field of anesthesia and intensive care.	٢-١-٥ مبادئ واساسيات الجودة فى الممارسة المهنية فى مجال التخصص
2.1.6. The principles and hypothesis of anaesthetic problems with surveillance and screening of all related topics	٢-١-٦ اساسيات واخلاقيات البحث العلمى



ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
<i>By the end of Master program, candidate should be able to recognize the followings:</i>	بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
2.2.4. The information of clinical and investigational database to be proficient in clinical problem solving.	١-٢-٢ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
2.2.10. How to make professional decisions in different anesthesia and intensive situations with guidance of physiological, Pharmacological, Anatomical and medical information.	٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
2.2.5. How to integrate different physiological, Pharmacological, Anatomical and medical information to solve anesthesia and intensive care problems	٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية
2.2.2 Anesthesia and intensive care problems that do not conform to classic data (incomplete data) with guidance of physiological, Pharmacological, Anatomical and medical information.	٤-٢-٢ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
2.2.3. How to asses patient data with relevance to his capabilities in the proper time or to transfer the patient to equipped center to deal with the anticipated problems	



2.2.8. How to evaluate risks imposed during professional anesthesia and intensive care practice including internal medical problems and anesthetic procedures.	٥-٢-٢ تقييم المخاطر في الممارسات المهنية في مجال التخصص
2.2.9. How to Plan to improve performance in the field of anesthesia and intensive care based on physiological, Pharmacological, Anatomical and medical background.	٦-٢-٢ التخطيط لتطوير الاداء في مجال التخصص
2.2.10. How to make professional decisions in different anesthesia and intensive situations with guidance of physiological, Pharmacological, Anatomical and medical information.	٧-٢-٢ اتخاذ القرارات المهنية في سياقات مهنية متنوعة

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
<i>By the end of Master program, candidate should acquire the following skills:</i>	بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
2.3.4. Utilizing the basic skills as inspection, palpation, percussion and auscultation in	١-٣-٢ اتقان المهارات المهنية الاساسية والحديثة في مجال التخصص



detecting the general and local physical abnormalities for perioperative assessment	
2.3. 2. Writing and evaluating physiological, Pharmacological, Anatomical and medical reports about different anesthesia and intensive care problems.	٢-٣-٢ كتابة وتقييم التقارير المهنية
2.3.3. Evaluation methods and tools existing in the area anesthesia and intensive care.	٣-٣-٢ تقييم الطرق والادوات القائمة فى مجال التخصص

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الماجستير)
By the end of Master program, candidate s accept the following skills:	بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
2.4.1 Communication with professors and colleagues effectively using different methods.	١-٤-٢ التواصل الفعال بأنواعه المختلفة
2.4.2 Using information technology to	٢-٤-٢ استخدام تكنولوجيا المعلومات بما



improve his/her the anesthesia and intensive care practice.	يخدم الممارسة المهنية
2.4.3 Practice self-appraisal and determines his learning needs in the anesthesia and intensive care practice.	٣-٤-٢ التقييم الذاتى وتحديد احتياجاته التعليمية
2.4.4 Using different sources of information to obtain data in the anesthesia and intensive care practice.	٤-٤-٢ استخدام المصادر المختلفة لحصول على المعلومات والمعارف
2.4.5 Sharing in determination of standards for evaluation of others in the anesthesia and intensive care practice	٥-٤-٢ وضع قواعد ومؤشرات تقييم اداء الاخرين
2.4.6 Working in a team and work as team leader in situations comparable to his work level in the anesthesia and intensive care practice.	٦-٤-٢ العمل فى فريق سياقات كهنية مختلفة
2.4.7 Managing time effectively in managing the anesthesia and intensive care situations.	٧-٤-٢ ادارة الوقت بكفاءة
2.4.8 Learning independently and seek continuous learning related to the anesthesia and intensive care.	٨-٤-٢ التعلم الذاتى والمستمر



ملحق ٤ : مصفوفة مضاهاة نواتج تعلم البرنامج مع المعايير الأكاديمية للبرنامج

		نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج By the end of Diploma program, the candidate should recognize and understand the followings:										
		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
																						2.1.2
																						2.1.3
																						2.1.4
																						2.1.5



برنامج ماجستير التخدير و العناية المركزة الجراحية



																			2.3.6	
																				2.3.7
																				2.3.8
																				2.3.9
																				2.3.10



نواتج تعلم البرنامج											المعايير الأكاديمية للبرنامج المهارات الذهنية					
Intellectual Skills:																
2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.b.6	2.b.7	2.b.8	2.b.9	2.b.10	2.b.11	2.b.12	2.b.13	2.b.14	2.b.15		
															2.2.1	
															2.2.2	
															2.2.3	
															2.2.4	
															2.2.5	
															2.2.6	
															2.2.7	
															2.2.8	
															2.2.9	



ملحق (٥) مصفوفة المعارف والمهارات للبرنامج الدراسي

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	
										ANET 601	Anatomy
										ANET 602	Physiology
										ANET 603	Pharma
										ANET 604	Physics
										ANET 605	Internal Medicine
										ANET 608	Anesthesia and post surgical ICU

مهارات ذهنية Intellectual Skills												ILOs	
2.B.12	2.B.11	2.B.10	2.B.9	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	
												ANET601	ANATOMY
												ANET602	Physiology
												ANET603	Pharma
												ANET 604	Physics
												ANET605	Internal Medicine



														ANET 608	Anesthesia and post surgical
--	--	--	--	--	--	--	--	--	--	--	--	--	--	-------------	------------------------------------

Practical & Clinical Skills مهارة عملية و مهنية										ILOs	
2.c.1	2.C.9	2.C.8	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	Courses & codes	
										ANET 601	Anatomy
										ANET 602	Physiology
										ANET 603	pharma
										ANET 604	physics
										ANET605	Internal Medicine
										ANET 608	Anesthesia and post surgical ICU

General and transferable مهارات عامة											ILOs	
2.d.11	2.d.10	2.d.9	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	
											ANET601	Anatomy
											ANET 602	physiology
											ANET 603	pharma
											ANET604	physics
											ANET605	Internal Medicine



	ANET608	Anesthesia and post surgical ICU
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رئيس القسم
التوقيع :

أستاذ المادة
التوقيع

ملحق ٦ توصيف المقررات

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....
قسم : ...التخدير و العناية المركزة الجراحية.....

توصيف مقرر دراسي

١- بيانات المقرر	
الفرقة / المستوى : ماجستير جزء اول	اسم المقرر : Anatomy ANET 601
عدد الوحدات الدراسية : نظري <input type="text" value="1"/> عملي <input type="text"/>	التخصص : التخدير و العناية المركزة الجراحية



1.1 The aim of the program is to provide the postgraduate educational experience necessary for further practice in **anatomy levant to anthesia**
1.2 To educate postgraduates about the experimental embryology to give them the key stone in understanding the anatomy of the relevant parts
1.3 To enable the postgraduates to practice the principles of preparation the anatomical regional structure,their vasculature,innervations,relations&specific clinical significans

٢- هدف المقرر :

٣- المستهدف من تدريس المقرر :



2.a.1 Describe the morphology , location ,vasculature , innervations & relations of specific parts of human body,needed for anathesia.

2.a.2 Classify the most common variations to give an idea for the clinical application.

2.a.3 Point out the impact of fine structure of the anatomical components.

2.a.4 Describe the most important landmarks.

2.a.5 Describe the details of surgical & applied anatomy,of the relevant parts

2.a.6 Apply the radiological anatomy to know structure of deeper details.

2.a.7 Apply the surface anatomy of the visible and deeper structures of the body.

أ- المعلومات
والمفاهيم :



<p>2.b.1- Analyze the different techniques ,stains, and chemicals for preservation & study of the anatomical specimen and tissues</p> <p>2.b.2- Interpret result of radiological and surface anatomy</p> <p>2.b.3- Solve problem of environmental factors on the development of body systems,relevant to anethesia</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1-Communicate effectively with teaching stuff and colleagues.</p> <p>2.c.2- Respects appropriate attitude towards teaching stuff , colleagues & <i>patients</i></p> <p>2.c.3- Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with students , colleagues. & <i>patients</i></p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>



<p>2.d.1 Establish life-long self-learning required for continuous professional development.</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 Establish effective interpersonal relationship to Communicate ideas and arguments .</p> <p>2.d.4 Retrieve, manage, and manipulate information by all means, including electronic means.</p> <p>2.d.5 Present information clearly in written, electronic and oral forms.</p> <p>2.d.6 Establish effective interpersonal relationship to Communicate ideas and arguments.</p> <p>2.d.7 Apply the principles of statistical methods for collection, presentation & analysis of all types of data .</p>	<p>د - المهارات العامّة :</p>
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HEAD&NECK:

- Mouth, Tongue, Palate, Pharynx, Oesophagus, and Trachea
- Nose&Paranasal sinuses.
- Middle ear and Pharyngeotympanic(Auditory) tube.
- Glands: Salivary, Thyroid, Thymus&Pituitary.
- Blood vessels and all nerve elements in Head&Neck.

THORAX:

- Trachea, Bronchi&Lungs with Bronch-pulmonary segments.
- Pericardium and Heart(Morphology &Blood supply).
- Vessels and Nerves in thorax.
- Diaphragm.

NEUROANATOMY:

- Brain & Spinal cord: Morphology, Covering meninges. CSF and Blood Supply.
- Vertebral canal & intervertebral foramina(canals)
- Nerves: Cranial & Spinal nerves(origin, course&distribution).
- Autonomic Nervous System(Centers, Nerves&Ganglia).
- Structure of the Brain & Spinal cord, connection, All about pathways(somatic&visceral-Afferent&Efferent pathways).
- Internal capsule: Position, Shape, Parts, Relation of its fibers and blood supply.

٤ - محتوى المقرر:



Modified Lectures Small group discussions Practical classes	٥- أساليب التعليم والتعلم						
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة						
٧- تقويم الطلاب :							
<u>ATTENDANCE CRITERIA:</u> . <u>Assessment TOOLS:</u> <table border="1"><thead><tr><th>Tool</th><th>Purpose (ILOs)</th></tr></thead><tbody><tr><td>Written examination</td><td>To assess knowledge and understanding and intellectual skills</td></tr><tr><td>Oral examination</td><td>To assess knowledge and understanding and intellectual skills and how to make a decision.</td></tr></tbody></table>	Tool	Purpose (ILOs)	Written examination	To assess knowledge and understanding and intellectual skills	Oral examination	To assess knowledge and understanding and intellectual skills and how to make a decision.	أ- الأساليب المستخدمة
Tool	Purpose (ILOs)						
Written examination	To assess knowledge and understanding and intellectual skills						
Oral examination	To assess knowledge and understanding and intellectual skills and how to make a decision.						
<u>TIME SCHEDULE:</u> <table border="1"><thead><tr><th>Exam</th><th>Month</th></tr></thead><tbody><tr><td>1- First exam</td><td>May or September</td></tr></tbody></table>	Exam	Month	1- First exam	May or September	ب- التوقيت		
Exam	Month						
1- First exam	May or September						



Weighting System:		ج- توزيع الدرجات								
<table border="1"><thead><tr><th>Examination</th><th>Marks allocated</th></tr></thead><tbody><tr><td>a- Written</td><td>50</td></tr><tr><td>b- Oral</td><td>50</td></tr><tr><td>Total</td><td>100</td></tr></tbody></table>	Examination	Marks allocated	a- Written	50	b- Oral	50	Total	100		
Examination	Marks allocated									
a- Written	50									
b- Oral	50									
Total	100									
- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.										
٨- قائمة الكتب الدراسية والمراجع :										
		أ- مذكرات								
Department Books in: Neuroanatomy -Head & neck -General anatomy Thorax		ب- كتب ملزمة								
Essential books (text books): Gray's anatomy :standering et al 2008 Last :Anatomy regional & applied 2006 T.W. Sadler :Medical embryology 2010 Carpenter's: Human anatomy , Andere Parent.1996										
Cunningham:Romances,1997 Keith Moore &Persaud :before we are born,2008 BruceCarlson:Humanembryology&development,2009		ج- كتب مقترحة								



برنامج ماجستير التخدير و العناية المركزة الجراحية



Periodicals, Web sites, ... etc: www.bfom.edu.eg .	د - دوريات علمية أو نشرات ... الخ
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أستاذ المادة : .اد/عبد الونيس الاودن.....
رئيس مجلس القسم العلمي :
.اد/سعدية شلبي

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....
قسم : ...التخدير و العناية المركزة الجراحية.....



توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى : ماجستير جزء اول	اسم المقرر : Physiology	الرمز الكودي : ANET602
عدد الوحدات الدراسية : نظري <input type="text" value="2"/> عملي <input type="text"/>		التخصص : التخدير والعناية المركزة الجراحية



1.1. Physiology course aims at 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 services.

. Basic scientific knowledge essential to 1. practice medicine at the primary level of health, dealing with health problems commonly met-with- in clinical practice .

. Basic scientific knowledge essential I for 1. 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. Life long learning competencies necessary for continuous professional development.

1.9. Research education as related to medical practice & post graduation development

٢- هدف المقرر :

٣- المستهدف من تدريس المقرر :



<p>2.a.1- List according to priority the main functions of systems, organs and cells.</p> <p>2.a.2- Explain and describe the basic and detailed physiological processes in correct medical terms and in correct order.</p> <p>2.a.3- Memorize important physiological definitions and laws.</p> <p>2.a.4-understand the different mechanisms of homeostasis and how to use it in applied physiology.</p> <p>2.a.5- provide excellence in medical education, research</p> <p>2.a.6- approaching to the detailed knowledge of physiology in relation of anesthesia.</p>	<p>أ- المعلومات والمفاهيم :</p>
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- 2.b.1- Identify deviations from the normal physiology and its effects.
- 2.b.2- Interpret clinical manifestations into physiological data.
- 2.b.3- Illustrate physiological information in the form of simplified diagrams with complete data on it.
- 2.b.4- Interconnect different branches of physiology to that of anesthesia.
- 2.b.5- Analyze any physiological curve related to anesthesia.
- 2.b.7- The ability to search, analyze and summarize updated physiological information.
- 2.b.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.

ب- المهارات

الذهنية:



<p>2.c.1- Perform efficiently the appropriate steps and procedures in measuring pulse, respiratory rate and arterial blood pressure.</p> <p>2.c.2- asses acid base and electrolyte balance.</p> <p>2.c.3- interpret different laboratory tests as isolated perused heart</p> <p>2.c.4- asses pulmonary function tests</p> <p>2.c.5- record intestinal motility in animals under various conditions.</p> <p>2.c.6- asses skeletal and smooth muscle contraction</p> <p>2.c.7- study and read ECG papers.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1- deal properly and cautiously in a lab.</p> <p>2.d.2- Use the sources of biomedical information to remain current with the advances in knowledge & practice.</p> <p>2.d.3- Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.</p> <p>2.d.4- Demonstrate the functions of the body and its major organ systems that are seen in anesthesia diseases and conditions.</p> <p>2.d.5- Perform routine technical procedures; diagnostic and therapeutic (including life support).</p>	<p>د - المهارات العامة :</p>



Neurotransmitters Pain sensation. Pain control system. Stretch reflex and muscle tone. Autonomic receptors. Neuromuscular transmission. Arterial blood pressure and its regulation' C.O.P and its regulation. E.C.G (Leads , record , normal and upnormal E.C.G) Hemorrhage and shock. Factors affecting exchange of gases across the pulmonary membrane. Gas transport by the blood Regulation of respiration. Pulmonary function tests. Hypoxia and cyanosis . Acid – base balance. anemia Fevf Thyroid hormone Suprarenal cortical hormon	٤ - محتوى المقرر:
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General lectures seminars confrences	٥- أساليب التعليم والتعلم						
	٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة						
٧- تقويم الطلاب :							
Assessment TOOLS:	أ- الأساليب المستخدمة						
<table border="1"><thead><tr><th>Tool</th><th>Purpose (ILOs)</th></tr></thead><tbody><tr><td>Written examination</td><td>To assess knowledge acquisition, including MCQs and problem solving</td></tr><tr><td>Oral examination</td><td>To assess understanding and stability of knowledge given, attitude and presentation.</td></tr></tbody></table>	Tool	Purpose (ILOs)	Written examination	To assess knowledge acquisition, including MCQs and problem solving	Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.	
Tool	Purpose (ILOs)						
Written examination	To assess knowledge acquisition, including MCQs and problem solving						
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.						
TIME SCHEDULE:	ب- التوقيت						
<table border="1"><thead><tr><th>Exam</th><th>Week</th></tr></thead><tbody><tr><td>5- Final exam</td><td>at end of second term (May-June)</td></tr></tbody></table>	Exam	Week	5- Final exam	at end of second term (May-June)			
Exam	Week						
5- Final exam	at end of second term (May-June)						



Weighting System:			ج- توزيع الدرجات
Examination	Marks allocated	% of Total Marks	
2- Final exam:			
a- Written	50	50%	
b- Oral	50	50%	
Total	100	100%	
- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.			
٨- قائمة الكتب الدراسية والمراجع :			
- Course notes Theoretical and practical books are available from faculty bookshops.			أ- مذكرات
- Essential books (text books Poul-Erik Paulev(2007): Medical Physiology And Pathophysiology Essentials and clinical problems.			ب- كتب ملزمة
- Recommended books Poul-Erik Paulev (2009):): Medical Physiology Textbook - Guyton 2008 -ganong 2008			ج- كتب مقترحة



- Periodicals, Web sites, ... etc www.jap.physiology.org www.physiologyonline.physiology.org/cgi/content asmnews@asmusa.org	د - دوريات علمية أو نشرات ... الخ
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أستاذ المادة اد/علاء التليس:..... رئيس مجلس القسم العلمي: اد/علاء التليس

جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....
قسم : ...التخدير و العناية المركزة الجراحية.....

توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :ماجستير	اسم المقرر :Pharma	الرمز الكودي



جزء ثانى	ANET603:
عدد الوحدات الدراسية : نظري 3 عملي <input type="checkbox"/>	التخصص : التخدير و العناية المركزة
<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.	٢- هدف المقرر :
٣- المستهدف من تدريس المقرر :	
2.a.1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems. 2.a.2- Discuss the adverse and toxic effects, and their management of commonly used groups interactions. 2.a.4- Define clinically relevant age, sex and genetic related variations that affect response to drugs. 2.a.5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.	أ- المعلومات والمفاهيم :



<p>2.b.1- Obtain and record a comprehensive drug history of the patient. 2.b.2- Document drug adverse reactions.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.d.1- 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>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.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.d.2- Provide appropriate basic drug education to the patient and his family.</p>	<p>د - المهارات العامة :</p>



1-General pharmacology

- Basic principles of pharmacokinetics.
- Drug interactions.

2-Autonomic nervous system

- Sympathomimetics
- Sympatholytics
- Parasympathomimetics
- Parasympatholytics
- Skeletal muscle relaxants.
- Ganglion stimulants and ganglion blockers.

3-Autachoids

- Histamine & antihistaminic drugs

4-Cardiovascular pharmacology

- Drug therapy of heart failure.
- Antiarrhythmic drugs.
- Treatment of hypertension.
- Drug therapy of ischemic heart diseases.

5-Pharmacology of blood

- Anticoagulants
- Antithrombotic drugs
- Antiplatelets
- Drug treatment of hemorrhage.
- Drug therapy of shock

6-Pharmacology of respiration

- Analeptics and respiratory stimulants
- Respiratory gases.
- Treatment of bronchial asthma.
- Cough therapy.

7-Endocrine pharmacology

- Treatment of acute complications of diabetes mellitus (hypoglycemic ,non ketotic hyperglycemic coma , ketoacidosis and lactic acidosis).
- Corticosteroids.
- Drug therapy of disorders of calcium homeostasis.

8-CNS pharmacology

- Sedatives & hypnotics
- Antidepressants
- Antipsychotics.
- Analgesics.
- Anticonvulsants.
- Local anesthetics.
- General anesthetics

٤- محتوى المقرر :



Lectures Practical modules	٥- أساليب التعليم والتعلم						
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة						
٧- تقويم الطلاب :							
<p>A) Attendance Criteria:</p> <ol style="list-style-type: none">1. Practical attendance.2. Log book. <p>B) Assessment Tools:</p> <table border="1"><thead><tr><th>Tool</th><th>Purpose (ILOS)</th></tr></thead><tbody><tr><td>Written examination</td><td>To assess knowledge acquisition, including MCQs and problem solving.</td></tr><tr><td>Oral examination</td><td>To assess understanding and stability of knowledge given, attitude and presentation.</td></tr></tbody></table>	Tool	Purpose (ILOS)	Written examination	To assess knowledge acquisition, including MCQs and problem solving.	Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.	أ- الأساليب المستخدمة
Tool	Purpose (ILOS)						
Written examination	To assess knowledge acquisition, including MCQs and problem solving.						
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.						



<u>TIME SCHEDULE:</u>		ب- التوقيت
Exam	Week	
1- First part exam	After 6 months from registration for MSc. degree	
		ج- توزيع الدرجات
٨- قائمة الكتب الدراسية والمراجع :		
Handouts updated administered by staff members Course Notes		أ- مذكرات
Essential Books (Text Books): 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
Recommended Books: GOODMAN AND GILMAN(2005): THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 11 th edition.		ج- كتب مقترحة



<p>web Sites: www.micromediex.co</p>	<p>د - دوريات علمية أو نشرات ... الخ</p>
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رئيس مجلس القسم العلمي أستاذ المادة :.اد/مهند محمد ابراهيم.....
:اد/احمد سليم



جامعة / أكاديمية : بنها..

كلية / معهد : .الطب.....

قسم : ...التخدير و العناية المركزة الجراحية.....

توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :ماجستير جزء اول	اسم المقرر : physics	الرمز الكودي : ANET604
<input type="checkbox"/> عملي	<input type="checkbox"/> 1 نظري	عدد الوحدات الدراسية : التخصص :التخدير و العناية المركزة الجراحية



- 1.1 Application of education as related to medical practice & post graduation development.
- 1.2 Determining techniques & use it in field of anaesthesia.
- 1.3 Basic administrative skills necessary for delivery of health service.
- 1.4 Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems.
- 1.5 Detect the health problems in field of anaesthesia & find proper solutions .
- 1.6 Using the available recourses to achieve the best value .
- 1.7 Show adequate understanding in community development& to shed light in national & international changes.
- 1.8 Basic scientific knowledge essential for following the rules of medical ethics.
- 1.9 Lifelong learning competencies necessary for continuous professional development.

٢- هدف المقرر :

٣- المستهدف من تدريس المقرر :



2.a.1 Recognize the principles & hypothesis of anaesthetic problem with surveillance and screening of all related topics .

2.a.2 Identify the Principles & the organization of the Egyptian health care system, the importance of responsiveness to changes in healthcare policy .

2.a.3 Identify the principles that govern ethical decision making in clinical practice ,the scope and impact of human rights law on persons and groups as well as the medico-legal aspect of medical malpractice and common medical errors.

2.a.4 Application of use of anaesthesia on environment and how to prevent its hazards.

أ- المعلومات
والمفاهيم :



ب- المهارات

الذهنية:

2.b.1 Analyze , assess & combine the information of clinical and investigational database to be proficient in clinical problem solving.

2.b.2 Generate a list of initial diagnostic hypothesis (differential diagnosis) for each problem with any shortage in information.

2.b.3 Combine all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.

2.b.4 Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.

2.b.5 Decision making in various anaesthetic problems.



- 2.c.1 Utilize the basic professional skills of clinical as inspection , palpation , percussion and auscultation in detecting the general & local physical abnormalities for preoperative assessment .
- 2.c.2 Perform & interpret all clinical assessment to recognize normal & abnormal findings .
- 2.c.3 Perform basics of general and regional anaesthesia.
- 2.c.4 Perform basics of routine technical procedures both diagnostic and therapeutic .
- 2.c.5 Prescribe & evaluate the medical reports .

ج- المهارات المهنية
الخاصة بالمقرر :



<p>2. d.1 Useful communication with different categories.</p> <p>2.d.2 Use technology resources to in reach the workshops in anaesthesia.</p> <p>2.d.3 Self-learning & evaluation to detect education needs .</p> <p>2.d.4.a Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d.4.b Apply the principles of statistical methods for collection,presentation & analysis of all types of data .</p> <p>2.d.5Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.6 Use the available time with smart manner .</p> <p>2.d.7 Establish life-long self-learning required for continuous professional development.</p>	<p>د - المهارات العامة :</p>
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<ol style="list-style-type: none">1. Airway equipment2. Breathing circuits3. Central venous access4. Depth of anaesthesia5. Laryngoscopes6. Medical equipment7. Medical gases8. Monitoring & physical principles9. Scavenging10. Temperature11. Ultrasound12. Vaporizers13. Ventilation	٤- محتوى المقرر :
<p><u>METHODS USED:</u></p> <ol style="list-style-type: none">1. Modified Lectures2. Problem solving3. Self learning	٥- أساليب التعليم والتعلم
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
	٧- تقويم الطلاب :



A) ATTENDANCE CRITERIA: Faculty bylaws		أ- الأساليب المستخدمة	
B) Assessment TOOLS:			
Tool	Purpose (ILOs)		
Written examination	To assess knowledge & intellectual skills.		
Oral examination	To assess knowledge , intellectual skills & general & transferable skills.		
TIME SCHEDULE: Faculty bylaws		ب- التوقيت	
Exam	Timing		
2- Final exam	6 months after registration. Either in October or May.		
SUMMATIVE ASSESSMENT:		ج- توزيع الدرجات	
Examination	Marks allocated		% of Total Marks
First part			
a- Written	100		50%
b- Oral	100	50%	
Total	200	100%	
The minimum passing & Passing grades (Faculty bylaws).			
		٨- قائمة الكتب الدراسية والمراجع :	
Handouts of staff members in the department		أ- مذكرات	



<p>1-clinical anesthesiology Barash: Paul G.Barash,Robert k. Stoelting, Bruce F. Cullen</p> <p>2-clinical anesthesiology Morgan: John F.ButterworthIV, David C.Macky,John D.Wasnick</p> <p>3-Miller 2010:http://www.hermanmiller.com</p>	<p>ب- كتب ملزمة</p>
	<p>ج- كتب مقترحة</p>
<p>Websites:</p> <p>a-http://en.wikipedia.org/wiki/PubMed</p> <p>b-http://sciencedirect.com/</p> <p>c-http://www.oxfordjournals.org</p> <p>d-</p> <p>http://springer.com/medicine/anesthesiology/journal/12630</p> <p>e-http://journals.lww.com/anesthesia-analgesia/pages/</p> <p>f-</p> <p>http://blogs.nejm.org/now/index.php/tag/anesthesia</p>	<p>د - دوريات علمية أو نشرات ... الخ</p>

أستاذ المادة : اد/احمد مصطفى..... رئيس مجلس القسم العلمي

:اد/سعد ابراهيم.....



جامعة / أكاديمية : بنها.....
كلية / معهد : .الطب.....
قسم : ...التخدير و العناية المركزة الجراحية.....

توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :ماجستير جزء ثانى	اسم المقرر : Internal medicine	الرمز الكودي : ANET605
عدد الوحدات الدراسية : نظري 2 عملي 2		التخصص :التخدير و العناية المركزة الجراحية

<ul style="list-style-type: none">To provide good basic scientific knowledge about common medical diseases in studied medical branches (cardiovascular-respiratory-gastrointestinal-renal-endocrine-CNS....)To learn the student how to deal ethically with the patient and how to protect him self of infectionTo accept sufficient clinical skills how to take history of the patient how to examine different systems of the body with stress on data help in diagnosis.To explain how to use this collected data in diagnose the case, use approach schedules ,determine drugs can be used with know its complication.avoid drugs interaction	٢- هدف المقرر :
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برنامج ماجستير التخدير و العناية المركزة الجراحية



٣- المستهدف من تدريس المقرر :



- 2.a.1. **Recognize** the genetic bases and its association with medical diseases its discover and possible prevention or therapy .by gene therapy
- 2.a.2 **Identify** the helpful terms and details of anatomy, physiology, and pathophysiology of different medical diseases
- 2.a.3 **Identify** incidence ,prevalence ,racial,environmental effect on the medical disease
- 2.a.4. **Explain** the relation between age and medical diseases (diseases common in each age/how age may effect progression of certain diseases
- 2.a.5 . **Explain** causes ;clinical picture of different medical diseases in different medical branches Cardiovascular ,Respiratory ,Gastrointestinal ,Rheumatology.,Endocrine,infection Neurological ,chest.
- 2.a.6 **Identify** the microbiological bases for medical diseases especially infectious diseases routes of infection methods of transfer
- 2.a.7 **Recognise the** general and special method of prevention and control
- 2.a.8 **Recognise** different investigation that can be done for each symptom to reach the cause
- 2.a.9 **Identify** the approach schedule of possible symptoms and how to make differential diagnosis.
- 2.a.10 **Explain** the different line s of treatment for eash disease the sequence of treatment /doses to begin with /determine the time to add other drugs
- 2.a.11 **Recognise** pharmacological bases for diferrent drugs
- 2.a.12 **Explain** side effects and drugs interaction which may harm the patient more than the disease its self
- 2.a.13. **Recognise** the principles of oncology medicine how to stabilize the patient and refer him to appropriate site to start treatment .
- 2.a.14 **Explain** common drugs which have narrow therapeutic range and explain how to deal if the toxicity occur and their anti dotes.

أ- المعلومات
والمفاهيم :



<p>2.b.1.-Analyze symptoms & signs and construct a differential diagnosis for common presenting complaints.</p> <p>2.b.2.- Recognize an appropriate diagnostic plan for evaluation of common presenting complaints</p> <p>2.b.3 Interpret the results of commonly used diagnostic procedures.</p> <p>2.b.4. Analyze risk factors for disease processes and injury the appropriate diagnostic, preventive, and therapeutic interventions</p> <p>2.b.5 Analyze the indications and logistics of referring patients to higher levels of experience or specialization as a principle for the family doctor(GP)</p> <p>2.b.6. Interpret scenario of treatment plan, incorporating his knowledge , best available evidence , and patient's preferences in a cost effective manner</p>	<p>ب- المهارات</p> <p>الذهنية:</p>
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<p>2.c.1 perform methods ,technique to assess vital signs how get benefit in diagnosis .</p> <p>2.c.2 Demonstrate the steps of clinical assessment to the patient (history taking – general examination – regional examination).</p> <p>2.c.3 Demonstrate the general principles of taking history how to analysis different symptoms in way help the physician to diagnose</p> <p>2.c.4 Perform appropriate sterile technique,</p> <p>2.c.5 Demonstrate samples taking technique and its useful in diagnosis</p> <p>2.c.6 Demonstrate different signs that may help in diagnosis</p> <p>2.c.7 Recognize the effect of different diseases and variability occur in general examination</p> <p>2.c.8 perform inspection –palpation –percussion- auscultation to different system in the body (cardiovascular system –respiratory- gastroenterology –hepatic- endocrine- kidney –rheumatology-neurology).</p> <p>2.c.9 Recognize urgent life threatening diseases and how deal with it rapidly.</p> <p>2.c.10 Recognize the changes in the body vital signs may occur in association with different drugs toxic level or poison taking</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1- Establish rapport and trust with the patient</p> <p>2.d.2- Explain to the patients and their relatives the nature of illness , the diagnostic and therapeutic options</p> <p>2.d.3 Present fully the patients history and examination findings, list the clinical problems and present relevant material clearly, , and legably , to use when need .</p> <p>2.d.4 - Use the sources of information and communication technology to remain current with advances in knowledge and practice</p>	<p>د - المهارات العامة :</p>



<p>Cardiology:- Heart failure Pericardil effusion Hypertension arterial fibrillation valvuler heart disease Endocrine Diabetes mellitus thyroid disease panhypopituitarism Blood Anemia bleeding disorder platelet disorder D.V.T DIC Liver- GIT HEPATITIS LIVER CIRROCIS PEPTIC ULCer Kidney Hematuria Nephrotic Proteinuria Renal failure acid base balance Tropical medicine Typhoid Brucella fever of unknown original Collagen disorder systemic lupus anti phspholipid chest bronchial asthma pulmonary embolism suppurative lung diseases pleural effusion</p>	<p>٤- محتوى المقرر:</p>
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1. Modified lectures. 2. Small group discussions: models, case study. 3. Self-learning. 4. Clinical rounds.	٥- أساليب التعليم والتعلم
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٧- تقويم الطلاب :	
<u>ATTENDANCE CRITERIA:</u> 1. Practical attendance 2. Small group attendance 3. Lectures	أ- الأساليب المستخدمة
Assessment schedule Assessment 1 20% examination ...Hold on December 2013	ب- التوقيت



Weighting System:		ج- توزيع الدرجات
2- Final exam: a- Written b- Oralc,clinical		
<ul style="list-style-type: none">• The minimum passing score is <u>540</u> marks, provided that at least 30%%marks are obtained in the final written examination.• Passing grades are:<ol style="list-style-type: none">1. Excellent: > 85%2. Very good: 75-85%3. Good: 65-75%4. Fair: 60-65%		
٨- قائمة الكتب الدراسية والمراجع :		
<u>Hand out of lectures prepared by stuff</u>		أ- مذكرات
<u>- Basic materials:</u> <u>Essential books (text books):</u> 1-.Davidson ,s principles &practice of medicine 21edition . 2-harrison ‘s principles of internal medicine 18 Edition		ب- كتب ملزمة
		ج- كتب مقترحة



Periodicals, Web sites, etc: - http://www.pubmed.com . - http://sciencedirect.com .	د - دوريات علمية أو نشرات ... الخ
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أستاذ المادة :.اد/ فوزى مجاهد.....
رئيس مجلس القسم العلمي :
اد/ عاطف احمد ابراهيم..



برنامج ماجستير التخدير و العناية المركزة الجراحية



جامعة / أكاديمية : بنها.....

كلية / معهد : .الطب.....

قسم : ...التخدير و العناية المركزة الجراحية.....

توصيف مقرر دراسي

١- بيانات المقرر		
الرمز الكودي ANET606--: ANET608	اسم المقرر :تخدير و عناية مركزة جراحية	الفرقة / المستوى :ماجستير جزء ثانى
التخصص :ماجستير التخدير و العناية المركزة الجراحية	عدد الوحدات الدراسية : نظري <input type="text" value="٢"/> عملي <input type="text" value="٢"/>	



- 1.1 Research education as related to medical practice & post graduation development.
- 1.2 Apply statistically analysis techniques & use it in field of anaesthesia.
- 1.3 Basic administrative skills necessary for delivery of health service.
- 1.4 Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of anaesthetic problems.
- 1.5 Detect the health problems in field of anaesthesia & find proper solutions .
- 1.6 Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with patients and colleagues.
- 1.7 Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with health problems commonly met- with- in clinical practice with proper awareness of the social and community contexts of health care.
- 1.8 Decision making in different ways in anaesthetic problems management.
- 1.9 Using the available recourses to achieve the best value.
- 1.10 Show adequate understanding in community development& to shed light in national & international changes.
- 1.11 Basic scientific knowledge essential for following the rules of medical ethics .
- 1.12 Lifelong learning competencies necessary for continuous professional development.

٢- هدف المقرر :

٣- المستهدف من تدريس المقرر :



<p>2.a.1 Recognize the principles & hypothesis of anaesthetic problem with surveillance and screening of all related topics .</p> <p>2.a.2 Identify the Principles & the organization of the Egyptian health care system, the importance of responsiveness to changes in healthcare policy .</p> <p>2.a.3 recognize the updates in the field of anaesthesia.</p> <p>2.a.4. Identify the principles that govern ethical decision making in clinical practice, ,the scope and impact of human rights law on persons and groups as well as the medico-legal aspect of medical malpractice and common medical errors.</p> <p>2.a.5 Identify the principles of quality management in the field of anaesthesia.</p> <p>2.a.6 Identify the basics & ethics of scientific research in field of anaesthesia</p>	<p>أ- المعلومات والمفاهيم :</p>
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<p>2.b.1. Analyze , assess & combine the information of clinical and investigational database to be proficient in anaesthetic problem solving.</p> <p>2.b.2. Generate a list of initial diagnostic hypothesis (differential diagnosis) for each problem with any shortage in information.</p> <p>2.b.3. Combine all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical records and other health care professionals, to overcome limitations regarding information.</p> <p>2.b.4. Construct appropriate research strategies for patients with common diseases, both acute and chronic, including medical, psychiatric, and surgical conditions.</p> <p>2.b.5. Assess the problems in the practical field of anaesthesia.</p> <p>2.b.6. Establish lifelong learning in order to be able to retrieve, analyze, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve an anaesthetic problem based on evidence (EBM).</p> <p>Decision making in various anaesthetic 2.b.7 problem.</p>	<p>ب- المهارات</p> <p>الذهنية:</p>
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<p>2.c.1 Utilize the basic professional skills of clinical as inspection , palpation , percussion and auscultation in detecting the general & local physical abnormalities for preoperative assessment .</p> <p>2.c.2 Perform & interpret all clinical assessment to recognize normal & abnormal findings .</p> <p>2.c.3 Perform basics of general and regional anaesthesia.</p> <p>2.c.4 Perform basics of routine technical procedures both diagnostic and therapeutic .</p> <p>2.c.5 Prescribe & evaluate the medical reports .</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1 Useful communication with different categories</p> <p>2.d.2 Use technology resources to in reach the workshops in anaesthesia</p> <p>2.d.3 Self-learning & evaluation to detect education needs .</p> <p>2.d.4a Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d.4.b Apply the principles of statistical methods for collection, presentation & analysis of all types of data .</p> <p>2.d.5 roles to evaluate the work of others</p> <p>2.d.6 Work effectively as a member or a leader of an interdisciplinary team and</p> <p>2.d.7. use the available time with smart manner</p> <p>2.d.8. Establish life-long self-learning required for continuous professional development.</p>	<p>د - المهارات العامة :</p>



٤ - محتوى المقرر:

- Introduction

History of Anesthetic Practice

Ethical Aspects of Anesthesia Care

Legal Aspects of Anesthesia Care

- **Anaesthetic physiology**

Sleep, Memory, and Consciousness

The Autonomic Nervous System

Cerebral Physiology and the Effects of Anesthetic Drugs

Neuromuscular Physiology and Pharmacology

Respiratory Physiology

Cardiac Physiology

Renal Physiology

Hepatic Physiology

- **Anaesthetic pharmacology**

- **Anaesthesia management**

Risk of Anesthesia

Preoperative Evaluation

Patient Positioning and Anesthesia

Neuromuscular Disorders and Malignant Hyperthermia

Airway Management in the Adult

Spinal, Epidural, and Caudal Anesthesia

Intravascular Fluid and Electrolyte Physiology

Pediatric anaesthesia

- **Postoperative care**

- **Critical care medicine**

PRACTICAL CLASSES:

1- Basic anesthesia management of different disease

2-ICU and manual skills.



<ol style="list-style-type: none">1. Modified Lectures2. Problem solving3. Self learning4. Small group discussions5. Practical classes	٥- أساليب التعليم والتعلم						
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة						
٧- تقويم الطلاب :							
<p>A) <u>ATTENDANCE CRITERIA</u>: Faculty bylaws</p> <p>B) <u>Assessment TOOLS</u>:</p> <table border="1"><thead><tr><th>Tool</th><th>Purpose (ILOs)</th></tr></thead><tbody><tr><td>Written examination</td><td>To assess knowledge & intellectual skills.</td></tr><tr><td>Oral examination</td><td>To assess knowledge , intellectual skills, professional & general & transferable skills.</td></tr></tbody></table>	Tool	Purpose (ILOs)	Written examination	To assess knowledge & intellectual skills.	Oral examination	To assess knowledge , intellectual skills, professional & general & transferable skills.	أ- الأساليب المستخدمة
Tool	Purpose (ILOs)						
Written examination	To assess knowledge & intellectual skills.						
Oral examination	To assess knowledge , intellectual skills, professional & general & transferable skills.						
<p><u>TIME SCHEDULE</u>: Faculty bylaws</p> <table border="1"><thead><tr><th>Exam</th><th>Timing</th></tr></thead><tbody><tr><td>2- Second part</td><td>1 year after passing the first part</td></tr></tbody></table>	Exam	Timing	2- Second part	1 year after passing the first part	ب- التوقيت		
Exam	Timing						
2- Second part	1 year after passing the first part						



<u>Weighting System:</u>			ج- توزيع الدرجات
SUMMATIVE ASSESSMENT:			
Examination	Marks allocated	% of Total Marks	
Final exam			
a- Written	100	50%	
b- Oral	100	50%	
Total	200	100%	
The minimum passing & Passing grades (Faculty bylaws).			
FORMATIVE ASSESSMENT:			
Student knows his marks after the Formative exam			
٨- قائمة الكتب الدراسية والمراجع			
Handouts of staff members in the department			أ- مذكرات
1-clinical anesthesiology Barash: Paul G.Barash,Robert k. Stoelting, Bruce F. Cullen			ب- كتب ملزمة
2-clinical anesthesiology Morgan: John F.ButterworthIV, David C.Macky,John D.Wasnick			
3-Miller 2010:http://www.hermanmiller.com			
			ج- كتب مقترحة



<p>5-Websites:</p> <p>a-http://en.wikipedia.org/wiki/PubMed</p> <p>b-http://sciencedirect.com/</p> <p>c-http://www.oxfordjournals.org</p> <p>d-</p> <p>http://springer.com/medicine/anesthesiology/journal/12630</p> <p>e-http://journals.lww.com/anesthesia-analgesia/pages/</p> <p>f-</p> <p>http://blogs.nejm.org/now/index.php/tag/anesthesia</p>	<p>د - دوريات علمية أو نشرات ... الخ</p>
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أستاذ المادة :اد/سعد ابراهيم رئيس مجلس القسم العلمي :
...اد/سعد ابراهيم.....