



## برنامج دبلومة التخدير و العناية المركزة الجراحية



جامعة بنها  
كلية الطب البشرى  
قسم التخدير و العناية المركزة الجراحية

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

### DIPLOMA DEGREE OF ANESTHESIA AND POST SURGICAL ICU

#### **Basic information : \*معلومات أساسية :**

١ - اسم البرنامج : دبلومة التخدير والعناية المركزة الجراحية

Speciality:Anesthesia and post surgical ICU

٢ - طبيعة البرنامج : (مشترك)

٣- القسم المسئول عن البرنامج: قسم التخدير والعناية المركزة الجراحية

الاقسام 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- منسق البرنامج: Prof.Dr Ehab Ahmed Abdel Rahman

٧- المراجع الداخلى: Prof.Dr Mohammed Yousry

٨- المراجع الخارجى: Prof.Dr Ameer Salah (Aien Shams University)

#### **Professional information : \*معلومات متخصصة :**

١ - الأهداف العامة للبرنامج :

#### **1- Overall Aims of the Program:**

*The overall aims of the program are to:*

1-1 Provide the educational experience necessary for further practice in the field of anesthesia and intensive care according to the international standards.

1-2 acquire high level of clinical skills including (clinical management, cardiac and pulmonary resuscitation and airway management), bedside care



skills as (self protection against infection, ventilatory care and patient care), in addition to update medical knowledge as well as clinical experience and competence in the area of anesthesia and intensive care and enabling the candidates of making appropriate referrals to a sub-specialist.

1-3 communication skills necessary for proper evaluation and management of health problems related to anesthesia.

1-4 encourage work in team as a member or leader and increase ability of management of scientific meetings.

1-5 identify medical ethical principles.

1-6 know basics of scientific medical research.

1-7 provide Lifelong learning competencies necessary for continuous professional development.

1-8 determine professional problems and propose creative solutions to address them.

1-9 deal with emergencies ,make decisions and solve problems.

1-10 employ available resources, develop them and find new resources.

1-11 acquire competences and experience to effectively manage patients with different anesthetic problems.

1-12 understand the physical signs and how to detect these signs.

٢ - المخرجات التعليمية المستهدفة من البرنامج :

## 2-Intended Learning Outcomes (ILOS):

### 2.1. Knowledge and Understanding

٢.أ - المعرفة والفهم :

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



**2.a.1. Identify** the principles of the basic sciences as applicable to anesthesia, including anatomy, physiology, pharmacology , physics, general internal medicine and the principles of anesthesia.

**2.a.2. Recognize** basic and recent advances of all technical procedures commonly employed in anesthetic practice, including airway management, cardiovascular resuscitation, patient monitoring and life support, general and regional anesthetic and analgesic techniques and postoperative care.

**2.a.3. Demonstrate** sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to anesthesia and post-operative intensive care.

**2.a.4. Recognize** the principles & hypothesis of anesthetic problems with surveillance and screening of all related topics .

**2.a.5. Identify** the Principles & the organization of the Egyptian health care system, the importance of responsiveness to changes in health care policy.

**2.a.6. Discuss** 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.7. Identify** the effects of using anesthesia on environment and how to prevent its hazards.

**2.a.8. Recognize** the principles and methods of quality in professional practice of anesthesia.

**2.a.9. Identify** the basics & ethics of scientific research in field of anesthesia.



**2.a.10. Explain** on scientific development and updates in the field of anesthesiology.

**2.b. Intellectual Skills:**

٢. ب - القدرات الذهنية :-

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

**2.b.1 Solve** problems during anesthesia or in critical care.

**2.b.2. 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.b.3. Analyze &** combine the information of clinical and investigational database to be proficient in clinical problem solving.

**2.b.4. Generate** a list of initial diagnostic hypothesis (differential diagnosis) for each problem with any shortage in information.

**2.b.5. 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.6. Interpret** patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.

**2.b.7. Make Decisions** in various anesthetic problem.

**2.b.8.** demonstrate ability to continuously learn from his and others practice.

**2.b.9.** evaluate his progress and identify his educational needs.

**2.b.10. Balance** the advantages and disadvantages of different anaesthetic methods.

**2.b.11.** analyze, relevant and current data related to anesthesia .



**2.b.12 Supervise** a team composed of a number of specialists or residents at the same time with maximal safety.

**2.c. Practical & Clinical Skills:** ج. ٢ . مهارات مهنية وعملية :-

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

**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** all clinical assessment to recognize normal & abnormal findings .

**2.c.3 Perform** common regional and local anesthetic techniques properly and safely.

**2.c.4 perform** cardiopulmonary resuscitation and advanced life-support.

**2.c.5 Write** an articulate, legible, and comprehensive yet concise consultation note with clear and informative report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and recommended follow-up or additional studies as appropriate.

**2.c.6. Provide** a direct communication to the referring physician or appropriate clinical personnel when interpretation of a laboratory assay reveals an urgent, critical, or unexpected finding and document this communication in an appropriate fashion.

**2.c.7. Use** recent technological tools as computer and internet, to serve his career through searches and assignment.

د. ٢ . 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** effectively diverse sources of information and knowledge to serve the professional practice.



**2.d.2. Establish** effective inter-personal relationship to communicate ideas and arguments.

**2.d.3 Establish** life-long self-learning required for continuous professional development.

**2.d.4. Work** within the rules and limits of knowledge and experience.

**2.d.5. Communicate** respectfully with all patients irrespective of their socio-economic levels & cultural or religious believes.

**2.d.6. Explain** to the patient or the relatives the plan of anesthesia.

**2.d.7. Manage** Retrieve, and manipulate information by all means, including electronic means.

**2.d.8. Present** information clearly in written, electronic and oral forms.

**2.d.9. Work** effectively as a member or leader of a health care team or other professional group.

**2.d.10. Use the available** time with smart manner.

**2.d.11. Perform** self-assessment and identify personal learning needs.

### ٣ - المعايير الأكاديمية للبرنامج:

#### 3-Academic Standards

**Academic Standards of Diploma Program of Anaesthesia and post surgical ICU** approved in department council 2 june, 2013 and in faculty council no.(354) date 16 june, 2013. (ملحق ١)

#### 4- Reference standards

#### ٤ العلامات المرجعية:

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



**Academic reference standards (ARS) , Diploma Program (March 2009)**  
, which were issued by the National Authority for Quality Assurance &  
Accreditation of Education NAQAAE (ملحق ٢)

**(5): Program structure and contents**

هـ- هيكل ومكونات البرنامج :

45 weeks: ا-مدة البرنامج:

- 1<sup>st</sup> part: One Semester (6 months)
- 2<sup>nd</sup> part: Two Semesters (One year)

ب - هيكل البرنامج:

**Total hours of program: 26 credit hours**

**Theoretical: 11 credit hours**

**Practical: 4 credit hours**

- University and faculty requirements: 6
- Logbook: 5

ج- مستويات و مقررات البرنامج:

الزامى Compulsory

الساعات المعتمدة	الكود	المقررات	البند
6	UNIV 501		متطلبات الجامعة والكلية



7	1	ANET 501	Anatomy	الجزء الأول
	2	ANET502	Physiology	
	3	ANET 503	pharmacology	
	1	ANET 504	Physics	
5				كراسة الانشطة
8	4	ANET505	Internal Medicine	الجزء الثاني
	1	ANET506	Anesthesia and post surgical ICU	
	3	ANET508	Anaesthesia and post surgical ICU	
26				الاجمالي

ج: خطة التدريس: Teaching plan

**First part (15 weeks duration/6 months)**

a- Compulsory courses:

Course Title	Course code	Number s of hours per week		total
		Lectures	practical	
Anatomy	ANET 501	1	-	15





Physiology	ANET 502	2	-	30
Pharmacology	ANET 503	3	-	45
Physics	ANET 504	1	-	15
				105

b- Elective courses: none

c- Selective: none

### Second part (30 weeks duration/12 months)

a- Compulsory courses:

Course Title	Course Code	NO. of hours per week		Total teaching hours weeks
		Theoretical	practical	
Internal Medicine	ANET 505	2	2	120
Anaesthesia and post surgical intensive care	ANET 508	2	2	120
Total:		4	4	240

b- Elective courses: none

c- Selective courses: none



تم اعتماد اجراءات تصحيحية لللائحة في ١٦/٦/٢٠١٣ :  
تم ضم المقررات ذات الصلة و هي (٥٠٦) الى المقرر (٥٠٨) و التي تندرج تحت عنوان مقرر علمي و  
علمي في التخدير و العناية المركزة الجراحية

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

- كود أو رقم المقرر : ANET 501
  - اسم المقرر : مقرر علمي في التشريح
- كود أو رقم المقرر : ANET 502
  - اسم المقرر : مقرر علمي في الفسيولوجيا
- كود أو رقم المقرر : ANET 503
  - اسم المقرر : مقرر علمي و عملي في الفارماكولوجي
- كود أو رقم المقرر : ANET 504
  - اسم المقرر : مقرر علمي في مبادئ الفيزياء و طرق القياسات الاكابينيكية
- كود أو رقم المقرر : ANET 505
  - اسم المقرر : مقرر علمي و اكلينيكي في الامراض الباطنة
- كود أو رقم المقرر : ANET 508
  - اسم المقرر : مقرر علمي و عملي في التخدير و العناية المركزة الجراحية
  - المحتويات: (طبقاً لما هو مذكور في اللائحة)

#### ٧- متطلبات الإلتحاق بالبرنامج :

#### 7- Program admission requirements:

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

(١)



## برنامج دبلومة التخدير و العناية المركزة الجراحية



- أ- أن يكون حاصلًا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات ج.م.ع أو على درجة معادلة لها من معهد علمي معترف به من الجامعة بتقدير جيد على الأقل.
- ب- يسمح للحصول على الدبلوم وفقًا 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 للحصول 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 للقبول لدرجة الدبلوم مرة واحدة في السنة خلال شهري يوليو وأغسطس من كل عام.

• تبدأ الدراسة لدرجة الدبلوم 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 الأوروبية والأمريكية يعتمدها مجالس الأقسام ثم يقرها مجلس الكلية وتشمل هذه الساعات محاضرات نظرية ودروس عملية وتدريب إكلينيكي ومحاضرات وندوات مشتركة.

مادة (٧): يشترط في الطالب لنيل درجة دبلوم التخصص في أحد الفروع الإكلينيكية والعلوم الطبية الأساسية:



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

### 9- 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.7 and 2.a.1 to 2.a.10 From 2.d.1 to 2.d.11

#### Final exam:



### First part

إجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	عملي	نظري	تحريري		
100			50	50	اختبار تحريري مدته ثلاث ساعات + اختبار نظري	التشريح
100			50	50		الفسيولوجي
200			100	100	اختبار تحريري مدته ساعتين + اختبار نظري	الفارماكولوجي
200			100	100		مبادئ الفيزياء وطرق القياسات الإكلينيكية
600	إجمالي الدرجة					

### Second part

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

### ١٠ - طرق تقويم البرنامج :

#### 10- Evaluation of Program:

Evaluator	Tools	Signature
Internal evaluator (s) مقيّم داخلي	Focus group discussion Meetings	د. محمد بصرى



## برنامج دبلومة التخدير و العناية المركزة الجراحية



External Evaluator (s) مقيم خارجي	Reviewing according to external evaluator checklist report.	د.أ/امير صلاح
Senior student (s) طلاب السنة النهائية	none	
Alumni الخريجون	questionary	لا يمثل عن 50% من طلبة اخر 3 دفعات
Stakeholder (s) أصحاب العمل	meetings	لجنة ممثلة لجميع جهات العمل
Others طرق أخرى	none	

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

2013/ 9 / 8

**Program Coordinator:**

توصيف المقررات

**Program courses**



First part	
١	التشريح
٢	الفسولوجيا
٣	الفارماكولوجى
٤	الفيزياء
Second part	
١	مقرر علمي و عملي للباطنة العامة
٢	مقرر علمي و عملي فى التخدير والعناية 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



## وثيقة المعايير الأكاديمية المرجعية لبرنامج الدبلومة

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

#### Graduate Attributes:

1-1 Provide the postgraduate with educational experience necessary for further practice in the field of anesthesia and intensive care according to the international standards.

1-2 Enable candidates to acquire high level of clinical skills including (perform clinical management, teaching of cardiac and pulmonary resuscitation and airway management), bedside care skills as (self protection against infection, ventilatory care and patient care), in addition to update medical knowledge as well as clinical experience and competence in the area of anesthesia and intensive care and enabling the candidates of making appropriate referrals to a sub-specialist.

1-3 Teach students communication skills necessary for proper evaluation and management of health problems related to anesthesia.

1-4 Encourage work in team as a member or leader and increase ability of management of scientific meetings.

1-5 Identify ethical principles related to the practice of this highly sensitive speciality as (adequate monitoring and restoration of homeostasis during the perioperative period as well as homeostasis in the critically ill patients).

1-6 Introduce candidates to the basics of scientific medical research.

1-7 Provide Lifelong learning competencies necessary for continuous professional development.





1-8 Determine professional problems and propose creative solutions to address them.

1-9 Enable candidates to deal with emergencies ,make decisions and solve problems.

1-10 Employ available resources, develop them and find new resources.

1-11 Prepare candidates who are able to acquire competences and experience to effectively manage patients with different anesthetic problems.

1-12 Make students understand the physical signs and how to detect these signs.

## 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. Identifying** the principles of the basic sciences as applicable to anesthesia, including anatomy, physiology, pharmacology , physics, general internal medicine and the principles of anesthesia as they apply to patient support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care facilities.

**2.1.2. Recognizing** basic and recent advances of all technical procedures commonly employed in anesthetic practice, including airway management, cardiovascular resuscitation, patient monitoring and life support, general and regional anesthetic and analgesic techniques and postoperative care.

**2.1.3. How to demonstrate** sufficient knowledge of etiology, clinical picture, diagnosis, prevention and treatment of common diseases and situations related to anesthesia and post-operative intensive care.



**2.1.4. How to recognize** the principles & hypothesis of anesthetic problems with surveillance and screening of all related topics .

**2.1.5. Identifying** the Principles & the organization of the Egyptian health care system, the importance of responsiveness to changes in health care policy.

**2.1.6. Identifying** 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.

**2.1.7. Identifying** the effects of using anesthesia on environment and how to prevent its hazards.

**2.1.8. Recognizing** the principles and methods of quality in professional practice of anesthesia.

**2.1.9. Identifying** the basics & ethics of scientific research in field of anesthesia.

**2.1.10. Highlights** on scientific development and updates in the field of anesthesiology.

## **2.2 Intellectual skills.**

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

**2.2.1. Management of** problems during anesthesia or in critical care.



**2.2.2.** 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.

**2.2.3. How to analyze &** combine the information of clinical and investigational database to be proficient in clinical problem solving.

**2.2.4. How to generate** a list of initial diagnostic hypothesis (differential diagnosis) for each problem with any shortage in information.

**2.2.5.** 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.

**2.2.6. How to interpret** patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.

**2.2.7. Making** decisions in various anesthetic problem.

**2.2.8.** Demonstrate ability to continuously learn from his and others practice.

**2.2.9.** Evaluate his progress and identify his educational needs.

**2.2.10. Balance** the advantages and disadvantages of different anaesthetic methods.

**2.2.11. Establishment of** 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 a clinical problem based on evidence (EBM).

**2.2.12 Supervising** a team composed of a number of specialists or residents at the same time with maximal safety.



## 2.3 Practical/Professional skills

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

**2.3 1 Utilizing** the basic professional skills of clinical as inspection , palpation , percussion and auscultation in detecting the general & local physical abnormalities for preoperative assessment .

**2.3.2 Performing & interpreting** all clinical assessment to recognize normal & abnormal findings .

**2.3.3 Performing** common regional and local anesthetic techniques properly and safely.

**2.3.4 Demonstrating** competency in cardiopulmonary resuscitation and advanced life-support.

**2.3.5 Writing** an articulate, legible, and comprehensive yet concise consultation note with clear and informative report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and recommended follow-up or additional studies as appropriate.

**2.3.6. Providing** direct communication to the referring physician or appropriate clinical personnel when interpretation of a laboratory assay reveals an urgent, critical, or unexpected finding and document this communication in an appropriate fashion.

**2.3.7. Using** recent technological tools as computer and internet, to serve his career through searches and assignment.

## 2.4 Communication and transferable skills:

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

**2.4.1. Use** effectively diverse sources of information and knowledge to serve the professional practice.



**2.4.2. How to establish** effective inter-personal relationship to communicate ideas and arguments.

**2.4.3** How to **establish** life-long self-learning required for continuous professional development.

**2.4.4. Working** within the rules and limits of knowledge and experience.

**2.4.5. Communicating** respectively with all patients irrespective of their socio-economic levels & cultural or religious believes.

**2.4.6. Explaining** to the patient or the relatives the plan of anesthesia.

**2.4.7. Managing** Retrieve, and manipulate information by all means, including electronic means.

**2.4.8. Presentation of** information clearly in written, electronic and oral forms.

**2.4.9. Working** effectively as a member or leader of a health care team or other professional group.

**2.4.10.** How to **use the available** time with smart manner.

**2.4.11. Performing** self-assessment and identify personal learning needs.

اعتماد مجلس القسم رقم (.....) ، بتاريخ ١٢/.../٥٠...../٢٠١٣..

رئيس مجلس القسم

أ.د/سعد ابراهيم

اعتماد مجلس الكلية

٢٠١٣-٥-١٢

ملحق ٢ : المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة

برنامج الدبلومة



## برنامج دبلومة التخدير و العناية المركزة الجراحية



### ١ - ١ - ١ موصفات الخريج

### ١ - موصفات الخريج:

- ١-١ خريج برامج دبلومه الدراسات العليا فى أى تخصص يجب أن يكون قادرا على :
  - ١-١ تطبيق المعارف المتخصصة التى اكتسبها فى ممارسته المهنية .
  - ٢-١ تحيد المشكلات المهنية واقتراح حلول لها.
  - ٣-١ إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة فى ممارسته المهنية .
  - ٤-١ التواصل وقيادة فرق العمل من خلال العمل المهني المنظومي
  - ٥-١ اتخاذ القرار فى ضوء المعلومات المتاحة
  - ٦-١ توظيف الموارد المتاحة بكفاءة
  - ٧-١ الوعي بدوره فى 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 فى التعليم المستمر

### ٢ - المعايير القياسية العامة :

#### ١-٢ المعرفة والفهم:

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

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

- بانتهاى دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

- ١-٢-٢ تحديد وتحليل المشاكل فى مجال التخصص وترتيبها وفقا لأولوياتها
  - ٢-٢-٢ حل المشاكل المتخصصة فى مجال مهنته
  - ٣-٢-٢ القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص
  - ٤-٢-٢ تقييم المخاطر فى الممارسات المهنية
  - ٥-٢-٢ اتخاذ القرارات المهنية فى ضوء المعلومات المتاحة
- ٣-٢ المهارات المهنية :

- بانتهاى دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

- ١-٣-٢ تطبيق المهارات المهنية فى مجال التخصص

- ٢-٣-٢ كتابة التقارير المهنية

- ٤-٢ المهارات العامة والمنتقلة:

- بانتهاى دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

- ١-٤-٢ التواصل الفعال بأنواعه المختلفة

- ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية

- ٣-٤-٢ التقييم الذاتى وتحديد احتياجاته التعليمية الشخصية

- ٤-٤-٢ استخدام المصادر المختلفة للحصول على المعلومات والمعارف



## برنامج دبلومة التخدير و العناية المركزة الجراحية



- ٢-٤-٥ العمل في فريق وادارة الوقت
- ٢-٤-٦ قيادة فريق في سياقات مهنية مألوفة
- ٢-٤-٧ التعلم الذاتي والمستمر

ملحق ٣: مصفوفة مضاهاة المعايير الاكاديمية للبرنامج مع المعايير القياسية للدراسات العليا  
الصادرة عن الهيئة

- مواصفات الخريج:



مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الدبلومة)
1-11 To prepare candidates who are able to acquire competences and experience to effectively manage patients with different anesthetic problems	١-١ تطبيق المعارف المتخصصة التي اكتسبها في ممارسته المهنية .
1-8 To determine professional problems and propose creative solutions to address them.	٢-١ تحديد المشكلات المهنية واقتراح حلولاً لها
1-2 To enable candidates to acquire high level of clinical skills including (perform clinical management, teaching of cardiac and pulmonary resuscitation and airway management), bedside care skills as (self protection against infection, ventilatory care and patient care), in addition to update medical knowledge as well as clinical experience and competence in the area of anesthesia and intensive care and enabling the candidates of making appropriate referrals to a sub-specialist.	٣-١ إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة في ممارسته المهنية
1-4 To encourage work in team as a member or leader and increase ability of management of scientific meetings.	٤-١ التواصل وقيادة فرق العمل من خلال العمل المهني المنظومي
1-9 To enable candidates to deal with emergencies make decisions and solve problems.	٥-١ اتخاذ القرار في ضوء المعلومات المتاحة
1-10 To employ available resources, develop them and find new resources.	٦-١ توظيف الموارد المتاحة بكفاءة





1-3 To teach students communication skills necessary for proper evaluation and management of health problems related to anesthesia.	٧-١ الوعي بدوره فى تنمية المجتمع والحفاظ على البيئة
1-5 To identify ethical principles related to the practice of this highly sensitive speciality as (adequate monitoring and restoration of homeostasis during the perioperative period as well as homeostasis in the critically ill patients.	٨-١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة وتقبل المسائلة والمحاسبة
1-7 To provide Lifelong learning competencies necessary for continuous professional development.	٩-١ إدراك ضرورة تنمية ذاته والانخراط فى التعليم المستمر
1-3 To teach students communication skills necessary for proper evaluation and management of health problems related to anesthesia.	١٠-١ إظهار الوعي بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية
1-1 To Provide the postgraduate with educational experience necessary for further practice in the field of anesthesia and intensive care according to the international standards	١١-١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة
1-6 To introduce candidates to the basics of scientific medical research.	١٢-١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

أ - المعرفة والفهم:



المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الدبلومة)
<i>By the end of Diploma program, the candidate should recognize and understand the followings:</i>	بأنتهاء دراسة برنامج الدبلومة يجب ان يكون الخريج على فهم ودراية بكل من :
<b>2.1.1. Identifying</b> the principles of the basic sciences as applicable to anesthesia, including anatomy, physiology, pharmacology , physics, general internal medicine and the principles of anesthesia as they apply to patient support during surgery and clinical skills necessary for resuscitation and life support as practiced in critical care facilities	١-١-٢ النظريات والاساسيات والمعارف المتخصصة في مجال التعلم وكذا العلوم ذات العلاقة بممارسته المهنية
<b>2.1.6. Identifying</b> 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.	٢-١-٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص
<b>2.1.8. Recognizing</b> the principles and methods of quality in professional practice of anesthesia	٣-١-٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص
<b>2.1.7. Identifying</b> the effects of using anesthesia on environment and how to prevent its hazards.	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 الدبلومة)
<i>By the end of Diploma program, candidate should be able to recognize the followings:</i>	بانتهاؤ دراسة برنامج الدبلومة يجب ان يكون الخريج قادرا على :
<b>2.2.3. How to analyze &amp; combine</b> the information of clinical and investigational database to be proficient in clinical problem solving. <b>2.2.7. Making</b> decisions in various anesthetic problem.	١-٢-٢ تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقا لأولوياتها
<b>2.2.1. Manegement of</b> problems during anesthesia or in critical care.	٢-٢-٢ حل المشاكل المتخصصة في مجال مهنته
<b>2.2.6. How to interpret</b> patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.	٣-٢-٢ القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص
<b>2.2.10. Balance</b> the advantages and disadvantages of different anaesthetic methods.	٤-٢-٢ تقييم المخاطر في الممارسات المهنية
<b>2.2.5. How to combine</b> all sources of information in addition to the patient interview to interpret and evaluate the medical history. Such sources include family or friends, medical	٥-٢-٢ اتخاذ القرارات المهنية في ضوء المعلومات المتاحة



## برنامج دبلومة التخدير و العناية المركزة الجراحية



records and other health care professionals, to overcome limitations regarding information.

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) للدراسات العليا (درجة الدبلومة)
<i>By the end of Diploma program, candidate should acquire the following skills:</i>	بانتهاؤ دراسة برنامج الدبلومة يجب ان يكون الخريج قادرا على :
<b>2.3 1 Utilizing</b> the basic professional skills of clinical as inspection , palpation , percussion and auscultation in detecting the general & local physical abnormalities for preoperative assessment	١-٣-٢ تطبيق المهارات المهنية فى مجال التخصص
<b>2.3.5 Writing</b> an articulate, legible, and comprehensive yet concise consultation note with clear and informative report, including a precise diagnosis whenever possible, a differential diagnosis when appropriate, and recommended follow-up or additional studies as appropriate.	٢-٣-٢ كتابة التقارير المهنية

د . مهارات عامة و منتقلة :



المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لدراسات العليا (درجة الدبلومة)
By the end of Diploma program, candidate s accept the following skills:	بانتهاؤ دراسة برنامج الدبلومة يجب ان يكون الخريج قادرا على :
<b>2.4.5. Communicating</b> respectively with all patients irrespective of their socio-economic levels & cultural or religious believes	٢-٤-١ التواصل الفعال بأنواعه المختلفة
<b>2.4.1. Use</b> effectively diverse sources of information and knowledge to serve the professional practice.	٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية
<b>2.4.11. Performing</b> self-assessment and identify personal learning needs	٢-٤-٣ التقييم الذاتى وتحديد احتياجاته التعليمية الشخصية
<b>2.4.7. Managing</b> Retrieve, and manipulate information by all means, including electronic means.	٢-٤-٤ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
2.4.9. Working effectively as a member or leader of a health care team or other professional group. 2.4.10. How to use the available time with smart manner.	٢-٤-٥ العمل فى فريق وإدارة الوقت
2.4.9. Working effectively as a member or leader of a health care team or other professional group.	٢-٤-٦ قيادة فريق فى سياقات مهنية مألوفة
<b>2.4.3</b> How to <b>establish</b> life-long self-learning required for continuous professional development.	٢-٤-٧ التعلم الذاتى والمستمر



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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	













برنامج دبلومة التخدير و العناية المركزة الجراحية



													2.3.1
													
													2.3.2
													2.3.3
													2.3.4
													2.3.5
													2.3.6



2.3.7



نواتج تعلم البرنامج

المعايير الأكاديمية للبرنامج  
المهارات الذهنية

**Intellectual Skills:**

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	
											2.2.1
											2.2.2
											2.2.3
											2.2.4
											2.2.5







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	
										ANET 501	Anatomy
										ANET 502	Physiology
										ANET 503	Pharma
										ANET 504	Physics
										ANET 505	Internal Medicine
										ANET 508	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	
												ANET501	ANATOMY
												ANET502	Physiology
												ANET503	Pharma
												ANET 504	Physics
												ANET505	Internal Medicine
												ANET 508	Anesthesia and post surgical



برنامج دبلومة التخدير و العناية المركزة الجراحية



Practical & Clinical Skills مهارة عملية و مهنية									ILOs	
									Courses & codes	
		2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1		
									ANET 501	Anatomy
									ANET 502	Physiology
									ANET 503	pharma
									ANET 504	physics
									ANET505	Internal Medicine
									ANET 508	Anesthesia and post surgical ICU

General and transferable مهارات عامة											ILOs	
											Courses & codes	
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		
											ANET501	Anatomy
											ANET 502	physiology
											ANET 503	pharma
											ANET504	physics
											ANET505	Internal Medicine
											ANET508	Anesthesia and post surgical ICU

أستاذ المادة: اد/ايهاب احمد عبد الرحمن

رئيس القسم: اد/سعد ابراهيم  
التوقيع:

التوقيع:

ملحق ٦: توصيف المقررات



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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

### توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :دبلومة جزء اول	اسم المقرر : Anatomy	الرمز الكودي : ANET501
<input type="checkbox"/> نظري <input checked="" type="checkbox"/> عملي	عدد الوحدات الدراسية : 1	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 <b>anatomy relevant to anesthesia</b> 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 &amp; 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 anesthesia</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1- Perform anthropometric techniques &amp; methods, stereological assessment, comparative anatomy</p> <p>2.c.2-Systemic &amp; organ exposure.</p> <p>2.c.3-Perform anthropometric techniques &amp; methods.</p> <p>2.c.4-Study of anatomy on a radiographic films.</p> <p>2.c.5-Perform a cross sectional anatomical specimens.</p> <p>2.c.6- Perform stereological assessment.</p> <p>2.c.7-Perform comparative anatomy.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر :</p>



- 2.d.1 Establish life-long self-learning required for continuous professional development.
- 2.d.2 Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.
- 2.d.3 Establish effective interpersonal relationship to Communicate ideas and arguments .
- 2.d.4 Retrieve, manage, and manipulate information by all means, including electronic means.
- 2.d.5 Present information clearly in written, electronic and oral forms.
- 2.d.6 Establish effective interpersonal relationship to Communicate ideas and arguments.
- 2.d.7 Apply the principles of statistical methods for collection, presentation & analysis of all types of data .

د - المهارات  
العامة :



**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 ذوى القدرات المحدودة						
٧- تقويم الطلاب :							
<b>A) <u>ATTENDANCE CRITERIA:</u></b> <b>B) <u>Assessment TOOLS:</u></b>	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 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.	
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.						
<b>C) <u>TIME SCHEDULE:</u></b>	ب- التوقيت						
<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			
Exam	Month						
1- First exam	May or September						



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Examination	Marks allocated	ج- توزيع الدرجات
a- Written	50	
b- Oral	50	
<b>Total</b>	<b>100</b>	
- 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  <b>- Essential books (text books):</b> Gray's anatomy :ständering et al 2008  Last :Anatomy regional & applied 2006  T.W. Sadler :Medical embryology 2010  Carpenter's: Human anatomy , Andere Parent.1996		ب- كتب ملزمة



Cunningham: Romances, 1997 Keith Moore & Persaud : before we are born, 2008 Bruce Carlson: Human embryology & development, 2009	ج- كتب مقترحة
- <u>Periodicals, Web sites, ... etc</u> : <a href="http://www.bfom.edu.eg">www.bfom.edu.eg</a> .	د - دوريات علمية أو نشرات ... الخ

أستاذ المادة : .اد/عبد الوونيس الاودن.....  
رئيس مجلس القسم العلمي :  
.. اد/سعدية شلبي



## برنامج دبلومة التخدير و العناية المركزة الجراحية



جامعة / أكاديمية : بنها.....

كلية / معهد : .الطب.....

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

### توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :دبلومة جزء اول	اسم المقرر : Physiology	الرمز الكودي : ANET502
<input type="checkbox"/> نظري <input type="checkbox"/> عملي	عدد الوحدات الدراسية : 2	التخصص : التخدير و العناية المركزة الجراحية



1.1. Physiology course aims at approaching to the detailed knowledge of human physiology.

٢- هدف المقرر :

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

٣- المستهدف من تدريس المقرر :





2.a.1- List according to priority the main functions of systems, organs and cells.

2.a.2- Explain and describe the basic and detailed physiological processes in correct medical terms and in correct order.

2.a.3- Memorize important physiological definitions and laws.

2.a.4- understand the different mechanisms of homeostasis and how to use it in applied physiology.

2.a.5- provide excellence in medical education, research

2.a.6- approaching to the detailed knowledge of physiology in relation of anesthesia.

أ- المعلومات

والمفاهيم :



- 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 &amp; 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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<p>.General lectures .-seminares -confrences</p>	<p>٥- أساليب التعليم والتعلم</p>						
	<p>٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة</p>						
<p>٧- تقويم الطلاب :</p>							
<p><b>Assessment TOOLS:</b></p> <table border="1" data-bbox="256 1136 1068 1440"><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.	<p>أ- الأساليب المستخدمة</p>
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.						
<p><b>TIME SCHEDULE:</b></p> <table border="1" data-bbox="256 1619 1068 1751"><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)	<p>ب- التوقيت</p>		
Exam	Week						
5- Final exam	at end of second term (May-June)						



<b>Weighting System:</b>			ج- توزيع الدرجات
<b>Examination</b>	<b>Marks allocated</b>	<b>% of Total Marks</b>	
2- Final exam: a- Written	50	50%	
b- Oral	50	50%	
<b>Total</b>	<b>100</b>	<b>100%</b>	
- 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



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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

### توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى : دبلومة جزء اول	اسم المقرر : Pharmacology	الرمز الكودي : ANET503
عدد الوحدات الدراسية : نظري <input type="text" value="3"/> عملي <input type="text"/>		التخصص : التخدير و العناية المركزة

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 :	





<p>2.a.1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drugs affecting body systems.</p> <p>2.a.2- Discuss the adverse and toxic effects, and their management of commonly used groups interactions.</p> <p>2.a.4- Define clinically relevant age, sex and genetic related variations that affect response to drugs.</p> <p>2.a.5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1- Obtain and record a comprehensive drug history of the patient.</p> <p>2.b.2- Document drug adverse reactions.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.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>



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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.

د - المهارات  
العامة :



<p>1-General pharmacology</p> <ul style="list-style-type: none"><li>• Basic principles of pharmacokinetics.</li><li>• Drug interactions.</li></ul> <p>2-Autonomic nervous system</p> <ul style="list-style-type: none"><li>• Sympathomimetics</li><li>• Sympatholytics</li><li>• Parasympathomimetics</li><li>• Parasympatholytics</li><li>• Skeletal muscle relaxants.</li><li>• Ganglion stimulants and ganglion blockers.</li></ul> <p>3-Autachoids</p> <ul style="list-style-type: none"><li>• Histamine &amp; antihistaminic drugs</li></ul> <p>4-Cardiovascular pharmacology</p> <ul style="list-style-type: none"><li>• Drug therapy of heart failure.</li><li>• Antiarrhythmic drugs.</li><li>• Treatment of hypertension.</li><li>• Drug therapy of ischemic heart diseases.</li></ul> <p>5-Pharmacology of blood</p> <ul style="list-style-type: none"><li>• Anticoagulants</li><li>• Antithrombotic drugs</li><li>• Antiplatelets</li><li>• Drug treatment of hemorrhage.</li><li>• Drug therapy of shock</li></ul> <p>6-Pharmacology of respiration</p> <ul style="list-style-type: none"><li>• Analeptics and respiratory stimulants</li><li>• Respiratory gases.</li><li>• Treatment of bronchial asthma.</li><li>• Cough therapy.</li></ul> <p>7-Endocrine pharmacology</p> <ul style="list-style-type: none"><li>• Treatment of acute complications of diabetes mellitus (hypoglycemic ,non ketotic hyperglycemic coma , ketoacidosis and lactic acidosis).</li><li>• Corticosteroids.</li><li>• Drug therapy of disorders of calcium homeostasis.</li></ul> <p>8-CNS pharmacology</p> <ul style="list-style-type: none"><li>• Sedatives &amp; hypnotics</li><li>• Antidepressants</li><li>• Antipsychotics.</li><li>• Analgesics.</li><li>• Anticonvulsants.</li><li>• Local anesthetics.</li><li>• General anesthetics</li></ul>	<p>٤- محتوى المقرر :</p>
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<p>– Lectures - Practical modules</p>	<p>٥- أساليب التعليم والتعلم</p>						
	<p>٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة</p>						
<p>٧- تقييم الطلاب :</p>							
<p><b><u>Attendance Criteria:</u></b></p> <p>1. Practical attendance. 2. Log book.</p> <p><b><u>Assessment Tools:</u></b></p> <table border="1" data-bbox="363 1268 1065 1696"><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.	<p>أ- الأساليب المستخدمة</p>
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.						



<b><u>TIME SCHEDULE:</u></b>		ب- التوقيت
<b>Exam</b>	<b>Week</b>	
1- First part exam	After 6 months from registration for MSc. degree	
written exams. 50 % 40 % Oral Examination 10 % Semester Work Other types of Assessment		ج- توزيع الدرجات
100% Total		
<b>FORMATIVE ASSESSMENT:</b> Student knows his marks after the Formative exams		
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



<p>:Recommended books:</p> <p>GOODMAN AND GILMAN(2005): THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 11<sup>th</sup> edition.</p>	<p>ج- كتب مقترحة</p>
<p>web Sites:</p> <p><a href="http://www.micromedex.co">www.micromedex.co</a></p>	<p>د - دوريات علمية أو نشرات ... الخ</p>

رئيس مجلس القسم العلمي :  
أسنآذ المآدة :آد/مهند محمد ابراهيم.....  
.. آد/آحمد سليم



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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

### توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى :دبلومة جزء اول	اسم المقرر :PHYSICS	الرمز الكودي : ANET 504
<input type="checkbox"/> نظري <input checked="" type="checkbox"/> عملي	عدد الوحدات الدراسية : 1	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 :
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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 :





*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.*

ب- المهارات

الذهنية:



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 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 &amp; 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 &amp; 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"><li>1. Airway equipment</li><li>2. Breathing circuits</li><li>3. Central venous access</li><li>4. Depth of anaesthesia</li><li>5. Laryngoscopes</li><li>6. Medical equipment</li><li>7. Medical gases</li><li>8. Monitoring &amp; physical principles</li><li>9. Scavenging</li><li>10. Temperature</li><li>11. Ultrasound</li><li>12. Vaporizers</li><li>13. Ventilation</li></ol>	٤- محتوى المقرر:
<p><b><u>METHODS USED:</u></b></p> <ol style="list-style-type: none"><li>1. Modified Lectures</li><li>2. Problem solving</li><li>3. Self learning</li></ol>	٥- أساليب التعليم والتعلم
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
	٧- تقويم الطلاب:



<b>A) ATTENDANCE CRITERIA:</b> Faculty bylaws <b>B) Assessment TOOLS:</b>		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 &amp; intellectual skills.</td></tr><tr><td>Oral examination</td><td>To assess knowledge , intellectual skills &amp; general &amp; transferable skills.</td></tr></tbody></table>	Tool	Purpose (ILOs)	Written examination	To assess knowledge & intellectual skills.	Oral examination	To assess knowledge , intellectual skills & general & transferable skills.					
Tool	Purpose (ILOs)										
Written examination	To assess knowledge & intellectual skills.										
Oral examination	To assess knowledge , intellectual skills & general & transferable skills.										
<b>TIME SCHEDULE:</b> Faculty bylaws		ب- التوقيت									
<table border="1"><thead><tr><th>Exam</th><th>Timing</th></tr></thead><tbody><tr><td>2- Final exam</td><td>6 months after registration. Either in October or May.</td></tr></tbody></table>	Exam	Timing	2- Final exam	6 months after registration. Either in October or May.							
Exam	Timing										
2- Final exam	6 months after registration. Either in October or May.										
<b>SUMMATIVE ASSESSMENT:</b>		ج- توزيع الدرجات									
<table border="1"><thead><tr><th>Examination</th><th>Marks allocated</th><th>% of Total Marks</th></tr></thead><tbody><tr><td>Final exam<ul style="list-style-type: none"><li>• Written</li><li>• Oral</li></ul></td><td>100 100</td><td>50% 50%</td></tr><tr><td>Total</td><td>200</td><td>100%</td></tr></tbody></table>	Examination	Marks allocated	% of Total Marks	Final exam <ul style="list-style-type: none"><li>• Written</li><li>• Oral</li></ul>	100 100	50% 50%	Total	200	100%		
Examination	Marks allocated	% of Total Marks									
Final exam <ul style="list-style-type: none"><li>• Written</li><li>• Oral</li></ul>	100 100	50% 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
1-clinical anesthesiology Barash: Paul G.Barash,Robert k. Stoelting, Bruce F. Cullen 2-clinical anesthesiology Morgan: John F.ButterworthIV, David C.Macky,John D.Wasnick 3-Miller 2010:http://www.hermanmiller.com	ب- كتب ملزمة
	ج- كتب مقترحة
Websites:  a-http://en.wikipedia.org/wiki/PubMed b-http://.sciencedirect.com/ c-http://www.oxfordjournals.org d- http://springer.com/medicine/anesthesiology/journal/12630 e-http://journals.lww.com/anesthesia-analgesia/pages/ f- http://blogs.nejm.org/now/index.php/tag/anesthesia	د - دوريات علمية أو نشرات ... الخ

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

جامعة / أكاديمية : بنها.....  
كلية / معهد : .الطب.....



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

توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى : دبلومة جزء ثانى	اسم المقرر : Internal medicine	الرمز الكودي : ANET505
عدد الوحدات الدراسية : نظري 2 عملي 2		التخصص :التخدير و العناية المركزة

<p>To provide good basic scientific knowledge about common medical diseases in studied medical branches (cardiovascular-respiratory-gastrointestinal-renal-endocrine-CNS....)</p> <p>To learn the student how to deal ethically with the patient and how to protect him self of infection</p> <p>To 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.</p> <p>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</p>	٢- هدف المقرر :
٣- المستهدف من تدريس المقرر :	



- 2.a.1. **explain** 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. **describe** 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 **discuss 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 **list** 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 <b>perform</b> methods ,technique to assess vital signs how get benefit in diagnosis .</p> <p>2.b.2 <b>Demonstrate</b> the steps of clinical assestment to the patient ( history taking – general examination – regional examination).</p> <p>2.b.3 <b>Demonstrate</b> the general principles of taking history how to analysis different symptoms in way help the physician to diagnose</p> <p>2.b.4 <b>Perform</b> appropriate sterile technique,</p> <p>2.b.5 <b>Demonstrate</b> samples taking technique and its useful in diagnosis</p> <p>2.b.6 <b>Demonstrate</b> different signs that may help in diagnosis</p> <p>2.b.7 <b>Recognize</b> the effect of different diseases and variability occur in general examination</p> <p>2.b.8 <b>perform</b> inspection –palpation –percussion-ascultation to different system in the body (cardiovascular system – respiratory- gastroenterology –hepatic- endocrine- kidney –rheumatology-neurology).</p> <p>2.b.9 <b>Recognize</b> urgent life threatening diseases and how deal with it rapidly.</p> <p>2.b.10 <b>Recognize</b> the changes in the body vital sign s may occur in association with different drugs toxic level or poison taking</p>	<p>ب-</p> <p>المهارات</p> <p>الذهنية:</p>
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<p>2.c.1 <b>Respects</b> to all patients irrespective of their socioeconomic levels, culture or religious believes.</p> <p>2.c.2 <b>Respects</b> appropriate language to establish good patient-physician relationship.</p> <p>2.c.3 <b>Reflect</b> critically on their own performance , to recognize personal limitations regarding skills and knowledge to refer patients to appropriate health facility at the appropriate stage.</p> <p>2.c.4 <b>Demonstrate</b> respects for the rights of patients and their families to full understanding, and involve them in management decision</p>	<p>ج -</p> <p>المهارات المهنية الخاصة بالمقرر :</p>
<p>2.d.1. <b>Communicate</b> clearly, sensitively and effectively with patients and their relatives.</p> <p>2.d.2. <b>Establish</b> good relations with other health care professi regardless their degrees or rank.</p> <p>2.d.3. <b>Communicate</b> effectively with individuals regardless of social, cultural, ethnic backgrounds, or their disabilities.</p> <p>2.d.4. <b>Cope up</b> with difficult situations as breaking news.</p>	<p>د -</p> <p>المهارات العامة :</p>



<p><b>Chest</b> bronchial asthma Pleural effusion pulmonary embolism suppurative lung diseases <b>Neurology</b> Hedache Polyneuropathy <b>Liver- GIT</b> HEPATITIS LIVER CIRROCIS PEPTIC ULCER <b>Kidney</b> Hematuria Nephrotic Proteinuria Renal failure acid base balance <b>Cardiology:-</b> Heart failure Pericardil effusion Hypertension arterial fibrillation valvuler heart disease <b>Endocrine</b> Diabetes mellitus thyroid disease panhypopituitarism <b>Blood</b> Anemia bleeding disorder platelet disorder D.V.T DIC <b>Tropical medicine</b> Typhoid Brucella fever of unknown original <b>Collagen disorder</b> systemic lupus anti phspholipid <b>nutritional disorders</b></p>	<p>٤- محتوى المقرر:</p>
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## برنامج دبلومة التخدير و العناية المركزة الجراحية



<ol style="list-style-type: none"><li>1. Modified lectures.</li><li>2. Small group discussions: models, case study.</li><li>3. Self-learning.</li></ol>	٥- أساليب التعليم والتعلم
	٦- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
٧- تقويم الطلاب :	



**ATTENDANCE CRITERIA:**

<p>1. Practical attendance 2. Small group attendance 3. Lectures</p>		
1. Written examination	To assess knowledge acquisition including MCQs case solving. True or false Short assays	Attached module of examination
2. Oral examination	To assess understanding and stability of knowledge given, attitude , presentation and how to express his knowledge.	Viva cards
3. practical examination	To assess clinical skills , how to examine the patient and how to reach the diagnosis as easy and accurate as	Practical report

أ-  
الأساليب  
المستخدمة



<b>Assessment schedule</b> <b>Assessment 1 20% examination ...Hold on December 2013</b>	ب- التوقيت			
<b><u>Weighting System:</u></b> <table border="1"><tr><td><b>2- Final exam:</b> a- Written b- Oral ....c,clinical</td><td></td><td></td></tr></table> <ul style="list-style-type: none"><li>• The minimum passing score is <b>540</b> marks, provided that at least 30% marks are obtained in the final written examination.</li><li>• <b>Passing grades are:</b><ol style="list-style-type: none"><li>1. Excellent: &gt; 85%</li><li>2. Very good: 75-85%</li><li>3. Good: 65-75%</li><li>4. Fair: 60-65%</li><li>5.</li></ol></li></ul> <b>FORMATIVE ASSESSMENT:</b> <ul style="list-style-type: none"><li>• Student knows his marks after the Formative exams.</li></ul>	<b>2- Final exam:</b> a- Written b- Oral ....c,clinical			ج- توزيع الدرجات
<b>2- Final exam:</b> a- Written b- Oral ....c,clinical				
٨- قائمة الكتب الدراسية والمراجع :				
<u>Hand out of lectures prepared by stuff</u>	أ- مذكرات			
<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			



## برنامج دبلومة التخدير و العناية المركزة الجراحية



	ج- كتب مقترحة
Periodicals, Web sites, etc: - <a href="http://www.pubmed.com">http://www.pubmed.com</a> . - <a href="http://sciencedirect.com">http://sciencedirect.com</a> .	د - دوريات علمية أو نشرات ... الخ

أستاذ المادة :اد/فوزى مجاهد..... رئيس مجلس القسم العلمي :  
اد/عاطف احمد ابراهيم..



## برنامج دبلومة التخدير و العناية المركزة الجراحية



جامعة: بنها

كلية: الطب

قسم : التخدير و العناية المركزة الجراحية

### توصيف مقرر دراسي

١- بيانات المقرر		
الفرقة / المستوى : دبلومة جزء ثانى	اسم المقرر : التخدير و العناية المركزة الجراحية	الرمز الكودي : ANET506-ANET508
2 عملي	عدد الوحدات الدراسية : نظري 2	التخصص : دبلومة التخدير و العناية المركزة الجراحية
1.1 knowing basic scientific knowledge essential for following the rules of medical ethics. 1.2 Determining techniques & use it in field of anaesthesia. 1.3 identifying Basic administrative skills necessary for delivery of health service. 1.4 decision making as well as communication skills necessary for proper evaluation and management. 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 1.9 Lifelong learning competencies necessary for continuous professional development.		٢- هدف المقرر :
٣- المستهدف من تدريس المقرر		
2.a.1 discuss 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.		أ- المعلومات والمفاهيم :





<p>2.b.1 analyze clinical problem using the information of clinical and investigational database.</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 Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.</p> <p>2.b.5 make decision in various anaesthetic problems.</p>	ب- المهارات الذهنية:
<p>2.c.1 perform anaesthesia</p> <p>2.c.2 prevent hazards of anaesthesia</p> <p>2.c.3 solve clinical problems associated with anaesthesia</p>	ث- المهارات المهنية
<p>2.d.1 communicate with different categories.</p> <p>2.d.2 Use biomedical information technology resources.</p> <p>2.d.3 evaluate health education needs.</p> <p>2.d.4 Apply the principles of statistical methods for collection, presentation &amp; analysis of all types of data.</p> <p>2.d.5 Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.6 manage time with smart manner.</p> <p>2.d.7 Establish life-long self-learning required for continuous professional development.</p>	د- المهارات العامة:
<ul style="list-style-type: none"><li>• Introduction<ul style="list-style-type: none"><li>- History of Anesthetic Practice</li><li>- Ethical Aspects of Anesthesia Care</li><li>- Legal Aspects of Anesthesia Care</li></ul></li><li>• Anaesthetic physiology<ul style="list-style-type: none"><li>- Sleep, Memory, and Consciousness</li><li>- The Autonomic Nervous System</li></ul></li></ul>	هـ- محتوى المقرر:



<ul style="list-style-type: none"><li>- Cerebral Physiology and the Effects of Anesthetic Drugs</li><li>- Neuromuscular Physiology and Pharmacology</li><li>- Respiratory Physiology</li><li>- Cardiac Physiology</li><li>- Renal Physiology</li><li>- Hepatic Physiology</li><li>• Anaesthetic pharmacology</li><li>• Anaesthesia management<ul style="list-style-type: none"><li>- Risk of Anesthesia</li><li>- Preoperative Evaluation</li><li>- Patient Positioning and Anesthesia</li><li>- Neuromuscular Disorders and Malignant Hyperthermia</li><li>- Airway Management in the Adult</li><li>- Spinal, Epidural, and Caudal Anesthesia</li><li>- Intravascular Fluid and Electrolyte Physiology</li><li>- Pediatric anaesthesia</li></ul></li><li>• Postoperative care</li><li>• Critical care medicine</li></ul> <p><b><u>PRACTICAL CLASSES:</u></b></p> <ol style="list-style-type: none"><li>1- Basic anaesthesia management of different disease</li><li>2- ICU and manual skills.</li></ol>	
<p><b><u>METHODS USED:</u></b></p> <ol style="list-style-type: none"><li>1. Modified Lectures</li><li>2. Problem solving</li><li>3. Self learning</li><li>4. Small group discussions</li><li>5. Practical classes</li></ol>	٥- أساليب التعليم والتعلم
	٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة



٧- تقويم الطلاب		
A) <b>attendance criteria:</b> Faculty bylaws		أ- الأساليب المستخدمة
B) <b>Assessment TOOLS:</b>		
<b>Tool</b>	<b>Purpose (ILOs)</b>	
Written examination	To assess knowledge & intellectual skills.	
Oral examination	To assess knowledge , intellectual skills& general& transferable skills.	
C) <b>time schedule:</b> Faculty bylaws		ب- التوقيت
<b>Exam</b>	<b>Timing</b>	
2- Second part	1.5 year after passing the first part	
<b>Weighting System:</b>		ج- توزيع الدرجات
<b>Examination</b>	<b>Marks allocated</b>	<b>% of Total Marks</b>
Final exam		
• Written	100	50%
• Oral	100	50%
Total	200	100%
٨- قائمة الكتب الدراسية والمراجع :		
<b>Handouts of staff members in the department</b>		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



## برنامج دبلومة التخدير و العناية المركزة الجراحية



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

رئيس مجلس القسم العلمي : /د سعد ابراهيم