



## توصيف برنامج دبلوم الجراحة العامة ( عام 2014-2013)

#### A- Basic information

- 1- Name of the program: Diploma of General Surgery.
- 2- Nature of the program: Multiple
- 3- Departments responsible:
  - General Surgery Department
  - Anatomy, Pathology, Physiology, Biochemistry,
     Microbiology and immunology, and Histopathology.
- 4- Coordinator: Prof. Gamal Saleh
- 5- **Internal evaluation of program specification**: Prof. Mohamed Mahmoud Mohammed
- 6- External evaluation of program specification: : Prof. Hussein Abd EL-Aleem Boshnak; Professor of general surgery, Ain Shams University
- 7- Date of approval of program specification:
  - Department council: 4/9/2013
  - Faculty council:15/9/2013

#### **B- Professional information:**

#### 1- Program aims:

The overall aims of the program are:

- 1. **Identify** Basic scientific knowledge essential to practice surgery at the primary level of health, dealing with health problems commonly metwith- in clinical practice with proper awareness of the social and community contexts of health care.
- 2. **Produce** surgeons who are prepared to understand the basic scientific knowledge.
- 3. **Teach** students communication skills necessary for proper evaluation and management of health problems related to surgery.





- 4. **Upgrade** students' abilities in Diagnostic & therapeutic protocols of surgical diseases and emergencies; as well as problem solving and decision making.
- 5. **Encourage** work in team as a member or leader and increase ability of management of scientific meetings.
- 6. **Know** appropriate ethical and professional education necessary for demonstrating appropriate attitudes with colleagues which reflects integrity and sincerity.
- 7. **Provide** Lifelong learning competencies necessary for continuous surgical development.
- 8. **Determine** surgical problems and propose creative solutions to address them.
- 9. **Show** awareness of his role in community development and environmental preservation.
- 10.**Employ** available resources, develop them and find new resources.
- 11. **Make** students understand the physical signs and how to detect these signs

#### 2-Intended Learning Outcomes (ILOS):

#### 2.a. Knowledge and Understanding:

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

- **2.a.1.** *Understand* and memorize all the theories, fundamentals and the new knowledge in the anatomy, histology, biochemistry, microbiology, pharmacology, physiology, pathology and surgery of the diseases.
- 2.a.2. Recognize how to prepare the patient for surgery.
- **2.a.3. Know** the history beside the methods of investigations of different diseases, etiology, pathogenesis, clinical features, diagnoses and complications of common and life threatening illnesses affecting the body and each of its major organ systems, presenting throughout the age spectrum.
- **2.a.4.** *Identify* the basics of ethics, medico- legal aspects of health problems, malpractice and common medical errors.
- **2.a.5 Explain** the impact of general surgery on environmental preservation.
- **2.a.6 Recognize** the principles and methods of quality in professional practice of general surgery.





- **2.a.7 Recognize** the basic pre- and post-operative care as pain relief and palliative care.
- **2.a.8 Highlights** on scientific development in the field of general surgery.

#### 2.b. Intellectual Skills:

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

- **2.b.1. Design** a list of initial diagnostic hypotheses (differential diagnosis) for each surgical problem and rank them according to their priority.
- **2.b.2. Analyze** 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.3** Correlate the application of medical statistics for collecting, presenting, analyzing and interpreting medical data precisely,
- **2.b.4** Interpret related researches and issues and relate with the patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.
- **2.b.5 asses** risks in professional practice and **Classify** factors that place individuals at risk for disease or injury, to determine strategies for appropriate response
- **2.b.6.** *Solve* the diagnosis by appropriate instrumental& radiological and laboratory tests.
- **2.b.7.** *Construct* the clinical and investigational database to be proficient in clinical problem solving.
- **2.b.8. Design** an initial course of management for stabilization of patients with serious illnesses, Select the patient who needs an operation and **Balance** the advantages and disadvantages of different management methods.

#### 2.c. Practical & professional Skills:

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

**2.c.1. Manage** first aid measures for injured and critically ill patients, **Taking** a complete or focused history





**2.c.3** *Write* both medical and medico-legal reports professionally and a management plan for common diseases and acute emergencies, with *Performing* routine technical procedures both diagnostic and therapeutic, and *applying* the principles of sterile techniques and infection control.

#### 2.d. General and transferable skills:-

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

- **2.d.1.** *Use* the sources of biomedical information and communication technology to remain current with advances in knowledge and practice
- **2.d.2.** *Establish* 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* respectively with all patients irrespective of their socio-economic levels &cultural or religious beliefs.
- **2.d.6.** *Manage* Retrieve, and manipulate information by all means, including electronic means.
- **2.d.7. Present** information clearly in written, electronic and oral forms.
- **2.d.8. Explain** to the patient or the relatives the nature of illness and the plan of management.
- 2.d.9. Work in a team in different professional situations.

#### **3- Academic Standards:**

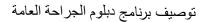
٣ ـ المعايير الأكاديمية للبرنامج:

- Academic Standards of Diploma Program of General Surgery,
   approved in department council June, 2013 and in faculty council 354,
   June, 2013. (ملحق)
- **4- Reference standards** (benchmarks)

4 - العلامات المرجعية:

• Academic reference standards (ARS), Diploma Program (March 2009, which were issued by the National Authority for Quality Assurance & Accreditation for Education. NAQAAE (منحق)







#### **5- Program structure and contents:**

a) Program duration: 72 weeks

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

#### b) Program structure

• Total hours of program 40 credit hours

• Theoretical: 25 credit hours

• Practical: 15 credit hours

• University and faculty requirements: 6

• Logbook: 5

#### c) Levels and courses of the program:

الساعات	الكود	المقررات	البند
المعتمدة	-		·
7 ساعات	UNIV 601	للجامعة والكلية	متطلبات
۹ ساعات		يشمل الآتي:	الجزء الأول
۲ ساعة		مقرر علمي في الفسيولوجيا والكيمياء الحيوية	
	<b>SURG</b> 601		
۲ ساعة	SURG 602	مقرر علمي في التشريح	
		الجراحي والهستولوجي والنمو الجنيني	
۲ ساعة	SURG 603	مقرر علمي وعملي في الباثولوجيا الجراحية	
		العامة	
١,٥ ساعة	SURG 604	مقرر علمي وعملي في البكتريولوجيا	
٥ ساعات		تسجل بها أنشطة مثل حضور الندوات العلمية	كراسة
		والمؤتمرات والدورات التدريبية وإجراء أبحاث	الأنشطة
		إضافية	
۱۲ ساعة		يشمل الآتي:	الجزء الثاني
۱۲ ساعة	SURG 606	مقرر علمي وإكلينيكي في الجراحة العامة	
		وفروعها	
۲ ساعة	SURG 607	مقرر علمي وعملي في الباثولوجيا الجراحية	
		الخاصة	
٤٠ ساعة			الإجمالي

#### **First part (one semester):**

#### a- Compulsory courses:

Course Title	Course	NO. of Teaching hours per week	Total
	Code		teaching





		Theoretical	practical	Total/W	hours/ One Semester
Physiology and Biochemistry	SURG 501	2		2	30
Anatomy Histology and Embryology	SURG 502	2		2	30
pathology	SURG 503	1.5	0.5	2	45
Microbiology	SURG 504	1	0.5	1.5	37.5
Total		6.5	1	7.5	142.5

**b-** Elective courses: none

c- Selective: none

#### **Second part (2 semesters):**

a- Compulsory courses:

Course Title	Course code			NO. o	of Hours pe	er week	Total Teaching
			Theoretical	Lab./Practical	Others	Total	Hours
		Lectures	Seminars				
General	SURG 506	8		4		12	12
surgery and its branches	SURG 507	1.5		.5		2	2

**b-** Elective courses: none

c- Selective: none

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

• كود أو رقم المقرر

اسم المقرر
 المحتويات

#### (6): Program admission requirements

## 6 ـ متطلبات الإلتحاق بالبرنامج:

مادة ( ١٤ ) : مدة الدراسة لنيل دبلوم التخصص سنة ونصف ( ثلاث فصول دراسية ) وتكون على

قسمین :





القسم الأول: فصل دراسي واحد (ستة أشهر)

القسم الثاني: فصلين دراسيين (سنة)

#### مادة ( ١٥ ): شروط القيد بإحدى دبلومات التخصص

- ۱- يشترط في قيد الطالب للدراسة الخاصة بإحدى دبلومات التخصيص أن يكون حاصلا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات ج ۰ م ۰ ع أو على درجة معادلة لها من معهد علمي معروف بع من الجامعة ٠
  - ٢- أن يكون قد أمضى السنة التدريبية أو ما يعادلها ٠
- ٣- أن يتفرغ للدراسة لمدة سنة على الأقل في الجزء الثاني ( فصلين دراسيين ).

#### مادة (١٦): يشترط في الطالب لنيل دبلوم التخصص:

- أ حضور المقررات الدراسية والتدريبات الإكلينيكية والعملية بصفة مرضية طبقا للساعات المعتمدة
  - ب- أن يقوم بالعمل كطبيب مقيم أصلى أو زائر لمدة سنة على الأقل في قسم التخصص
    - جـ أن ينجح في امتحان القسمين الأول والثاني •

#### مادة (١٧): يحسب التقدير النهائي للدبلوم على الوجه التالي:

- ٣٠% لامتحان القسم الأول
- ۷۰% لامتحان القسم الثاني
- مادة ( ۱۸ ): تحتسب تقديرات النجاح والرسوب في امتحانات الدبلوم بنفس نطام الماجستير ( مادة ۱۱ ) ·





- مادة ( 19 ): الطالب المقيد لدرجة الماجستير ونجح في امتحان القسم الأول والثاني ولم يستكمل الرسالة خلال مدة القيد المحددة باللائحة يمكنه أن يحصل على شهادة دبلوم التخصص •
- **مادة** ( ۲۰) : يكون التقدم للقيد لدبلومات التخصص مرة واحدة في السنة بنفس نظام الماجستير ( مادة ٥) .
  - مادة ( ٢١ ): نظام الامتحان للدبلومات نفس نظام امتحان الماجستير ( مادة ٩ ) ٠
- مادة ( ٢٢ ): تبين الجداول في الباب الرابع ( مادة ١٣ ) مقررات الدراسة والساعات المعتمدة التي تدرس لنيل دبلومات التخصص ويحدد مجلس الكلية بعد أخذ رأى مجالس الأقسام المختصة الموضوعات التي تدرس في كل مقرر •

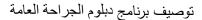
كما تبين للدبلوم أيضا الاختبارات التحريرية والإكلينيكية والشفوية والعملية للدبلوم (المقررات الدراسية ونظام الامتحان للدبلوم والماجستير واحدة ما عدا الرسالة للماجستير فقط).

### ٧-القواعد المنظمة لإستكمال البرنامج: (طبقاً لما هو مذكور في اللائحة)

يكون التقدم للتسجيل مرة واحدة في السنة خلال شهر يوليو علي أن تبدأ الدراسة في شهر أكتوبر.

يسمح للحاصل علي البكالوريوس بتقدير مقبول أن يسجل لدرجة الماجستير في حالة حصوله علي تقدير جيد علي الأقل في الدبلوم ويمكن للحاصل علي الدبلوم والمنطبق عليه شروط الإلتحاق بالماجستير تسجيل رسالة في خلال ثلاث سنوات للحصول علي الدرجة في المواعيد المحددة للتسجيل.







توزع الساعات المعتمدة بحيث يكون لمتطلبات الجامعة ثلاث ساعات ومتطلبات الكلية في إحصاء طبي ومراجعة الأداء الطبي والطرق البحثية ثلاث ساعات.

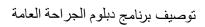
ويخصص للجزء الأول فصل دراسي واحد بمتوسط ست ساعات معتمدة يعقبه إمتحان شامل وفي حالة رسوب الطالب في مقرر أو مادة يقوم بإعادة الإمتحان فيها فقط.

ويخصص للجزء الثاني فصلين دراسيين (سنة) بمتوسط ثمانية عشر ساعة معتمدة يعقبها إمتحان تحريري وشفهي وإكلينيكي في حالة نجاح الطالب بالجزء الأول. ويخصص من تلك الساعة خمسة لكراسة الأنشطة التي يسجل بها حضور الندوات العلمية والدورات العلمية والمؤتمرات وإجراء الجراحات والمناظير وغيرها من أنشطة الطلاب

#### 8- Students Assessment Methods: مطرق وقواعد تقييم الملتحقين بالبرنامج

مخرجات التعلم المستهدفة	الوسيلة	م
To assess knowledge and	Written examination	
understanding & intellectual skills:	(including case study)	1
2.a.12.a.^, 2.b.12.b.\		
To assess knowledge and	Oral examination	2
understanding, intellectual skills &		2
General & transferable skills		
2.a.12.a.^, 2.b.12.b.		
2.d.12.d. <sup>9</sup>		
To assess knowledge and	Practical & clinical	2
understanding, intellectual skills &	examination	3
General & transferable skills&		
practical and clinical skills:		
2.a.12.a., $2.b.12.b.$ ,		
2.d.12.d. <sup>9</sup> , 2.a.12.a.8,		
2.c.12.c.2		
To assess knowledge and	MCQ examination	
understanding, intellectual skills:		4
-		







2.a.12.a.8, 2.b.12.b.6	

## Final exam: First part

		بة	السدرج			
إجمالي	إكلينيكي	عملي	شفهي	تحريري	الاختبار	المقرر
٥,			70	40	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	فارماكولوج <i>ى</i>
۲.,			Y0+V0	Y0+V0		التشريح الجراحي والهستولوجي والنمو الجنيني
10.		70	٠,	٧٥		الباثولوجيا الجراحية العامة
٥,		١.	10	40		البكتريولوجيا
10.			Yo+0.	Yo+0.		الفسيولوجيا والكيمياء الحيوية
٦.,						إجمالي الدرجة

## **Second part**

11.001	_	-	السدرجة		الاختبار	المقرر
إجمالي	عملي	إكلينيكي	شفهي	تحريري	الاحتبار	المعرر
			۳۵۰ شفهي+ إكلينيكي+ عملي	1 V o + 1 V o	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	الجراحة العامة وفروعها
٧.,						إجمالي الدرجة

## **10- Evaluation of Program:**

## 10 - طرق تقويم البرنامج:

Evaluator	Tools	sample
مقییم داخلی(Internal evaluator (s)	report	1 Report





مقییم خارجی(External Evaluator (s)	report	1 Report
طلاب السنة النهائية (Senior student (s	Interview, questionnaires	all
Alumni الخريجون	Interview, questionnaires	Not less than 50% from the last 3 years
Stakeholder (s) أصحاب العمل	Interview, questionnaires	Representative samples from all sectors

المسئول عن البرنامج : أ.د/ جمال السيد صالح التوقيع البرنامج : 14/8/2013

## الملحقات:

ملحق ۱: Academic standard of the program

ملحق ٢: المعايير القياسية للدراسات العليا الصادرة عن الهيئة (درجة الدبلوم).

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

ملحق ٤: مصفوفة اهداف ونواتج التعلم للبرنامج مع المعايير الأكاديمية للبرنامج.

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

ملحق ٦: توصيف المقررات





## Academic Reference for diploma Degree in General surgery

#### 1. Attributes of gratitude:

By the end of Diploma of General surgery program, the graduate should be capable of:

1.1Apply specialized and related surgical knowledge acquired during surgical practice.

- **1.2 Determine** current surgical problems and propose creative solution to address them.
- **1.3 Master** all basic and specialized surgical skills including detection of all physical signs, and use of technological tools to serve surgical practice.
- **1.4 Able** to lead a work team in different surgical fields and communicate effectively with other categories of assistances for proper patient management
- **1.5 Make** the suitable decision in the light of available and acquired information and different contexts of general surgery practice
- **1.6 Employ** available resources to achieve high benefit and keep this benefit
- **1.7 Do** his role in community development and preservation of environment.
- **1.8 Commit** integrity, sincerity and roles of medical practice (in general) and roles of surgical practice and accept questionability and accountability.
- **1.9 Percept** necessity of self-development and continuous surgical learning

#### 2. Academic Standards:

#### 2.1. Knowledge and understanding:

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

- **2.1.1Understand** and **Memoriz**e all the theories, fundamental and new knowledge in anatomy, histology, pathology, and surgery of the disease.
- **2.1.2 Identify** the basics of ethics, medico legal aspects of health program, malpractice and common medical errors.
- **2.1.3 Recognize** the principles and methods of quality in the field of general surgical practice.





**2.1.4 Demonstrate** the mutual influence between general surgical practice and its impact on the environment with its preservation.

#### 2.2. Intellectual skills:

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

- **2.2.1. Identify, Analyze** and **Asses** problems in the field of general surgery and rank them according to their priority.
- **2.2.2. Solve** specialized surgical problems in the area of general surgical practice
- **2.2.3. Perform** analytic reading for researches and issues related to general surgical practice
- **2.2.4. Asses** the risks of transmitted disease, its complications and risks that may encountered during surgical procedures.
- **2.2.5. Make** decisions either surgical or conservative during dealing with the patient in the light of the available information.
- **2.2.6. Analyze** all sources of information including patient medical history, symptoms and investigations by the use of medical statistics.

#### 2.3. Practical/Professional skills

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

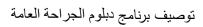
- **2.3.1 Write** all medical, medico legal and patients follow up reports.
- **2.3.2 Perform** effectively all fundamental surgical skills.

#### 2.4. Communication and transferable skills:

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

- **2.4.1 Communicate** effectively to improve inter-personal relationships using different methods.
- **2.4.2** Use information technology to get all information related to surgical practice.
- **2.4.3 Exercise** autonomy in self-evaluation and identify his personal learning needs.
- **2.4.4** Use different surgical resources for information and knowledge retrieval.
- **2.4.5** Work effectively in a surgical team and manage time properly.
- **2.4.6** Lead a surgical team in the context of common surgical situations.
- **2.4.7 Demonstrat**e independent and continuous surgical learning.







اعتماد مجلس القسم بتاريخ 6/2013

رئيس مجلس القسم اد/ محمد مختار الشهاوى

اعتماد مجلس الكلية 16/6/2013





## ملحق ٢ : المعايير القياسية الدراسات العليا ٢٠٠٩ الصادرة عن الهيئة القومية لضمان جودة التعليم والاعتماد برامج دبلومه الدراسات العليا

#### ١ – موصفات الخريج

#### خريج برامج دبلومه الدراسات العليا في أي تخصص يجب أن يكون قادرا على:

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

#### ٢ - المعايير القياسية العامة

#### ٢-١ المعرفة والفهم:

## بانتهاء دراسة برامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على فهم واستيعاب كل من :

- ١-١-١ التظريات والاساسيات والمعارف المتخصصة في مجال التعلم وكذا العلوم ذات العلاقة
   بممارسته المهنية
  - ٢-١-٢ المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص
  - ٢-١-٢ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصيص
  - ٢-١-٤ تأثير لممارسة المهنية على البيئة والعمل على الحفاظ على البيئة وصيانتها





#### ٢-٢ المهارات الذهنية:

#### بانتهاء دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على:

- ٢-٢-١ تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقا لأولوياتها
  - ٢-٢-٢ حل المشاكل المتخصصة في مجال مهنته
  - ٢-٢-٢ القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص
    - ٢-٢-٤ تقييم المخاطر في الممار اسات المهنية
    - ٢-٢- اتخاذ القرارات المهنية في ضوء المعلومات المتاحة

#### ٢-٣ المهارات المهنية:

#### بانتهاء دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على:

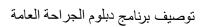
- ٢-٣-٢ تطبيق المهارات المهنية في مجال التخصص
  - ٢-٣-٢ كتابة التقارير المهنية

#### ٢-٤ المهارات العامة والمنتقلة:

### بانتهاء دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على:

- ٢-٤-٢ التواصل الفعال بأنواعه المختلفة
- ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطير الممار اسة المهنية
  - ٢-٤-٢ التقييم الذاتي ونحديد احتياجاته التعليمية الشخصية
- ٢-٤-٤ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
  - ٢-٤-٥ العمل في فريق و إدارة الوقت
  - ٢-٤-٢ قيادة فريق في سياقات مهنية مألوفة
    - ٢-٤-٧ التعلم الذاتي والمستمر







## ملحق ٣: مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الدبلوما مع المعايير الأكاديمية المتبناة لبرنامج دبلوما الجراحة العامة

لتبناة للبرناه		بر الأكاديمية المتبا	المعايد		7 1651	1 11
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		۲,۲,٤			۲,۲,٤	المهارات الذهنية
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					۲,۳,۱	المهارات المهنية
					۲,۳,۲	更复
	2.4.1				2.4.1	
	2.4.2				2.4.2	،ع
	2.4.3				2.4.3	المهارات العامة والمنقولة
	2.4.4				2.4.4	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	2.4.5				2.4.5	مار مهارا
	2.4.6				2.4.6	Ē
	2.4.7				2.4.7	





# ملحق ٤: مصفوفة المضاهاة بين المعايير المتبناة لبرنامج دبلوما الجراحة العامة مع أهداف و نواتج تعلم البرنامج

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## ملحق (٥) مصفوفة المعارف والمهارات للبرنامج الدراسى (مصفوفة المقررات مع البرنامج)

	Kno	wled	lge &	Und	lersta	ILOs				
	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
								*	SURG 601	Physiology and Biochemistry
								*	SURG 602	Anatomy Histology and Embryology
			*			*		*	SURG 603	pathology
			*			*		*	SURG 604	Microbiology
	*	*	*	*	*	*	*	*	SURG 606	General surgery and its
			*			*		*	SURG 607	Surgical Pathology

ILOs	ILOs	Intellectual Skills												
Courses & codes		2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.b.6							
SURG 601 Physiology and Biochemistry	SURG 601	*			*									
SURG 602 Anatomy Histology and Embryology	SURG 602		*											
SURG 603 pathology	SURG 603	*		*	*									
SURG 604 Microbiology	SURG 604	*		*	*									
SURG 606 General surgery and its branches	SURG 606	*	*	*	*	*	*							
SURG 607 Surgical Pathology	SURG 607	*		*	*									

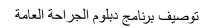
	ILOs	Practical & Professional Skills									
Courses & codes		2.c.1	2.c.2								
Physiology and Biochemistry	SURG 601	*									
Anatomy Histology and Embryology	SURG 602		*								
pathology	SURG 603	*	*								
Microbiology	SURG 604	*	*								
General surgery and its branches	SURG 606	*	*								
Surgical Pathology	SURG 607	*	*								





	ILOs			rable	ransfe	and to	neral	Ger		
Courses & codes		2.d.1	2.d.2	2.d.3	2.d.4	2.d.5	2.d.6	2.d.7.	2.d.8	2.d.9
Physiology and Biochemistry	SURG 601	*					*	*		
Anatomy Histology and Embryolog	SURG 602						*	*		
patholog	SURG 603	*		*			*	*		
Microbiology	SURG 604	*		*			*	*		
General surgery and it	SURG 606	*	*	*	*	*	*	*	*	*
Surgical Patholog	SURG 607	*		*			*	*		







## ملحق ٦: توصيف المقررات التابعة للبرنامج

## **Program courses**

First part
Physiology and Biochemistry
Anatomy, Embryology and Histology
Pathology
Microbiology
Second part
General surgery and its branches
Surgical Pathology





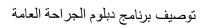
جامعة بنها كلية الطب البشرى قسم الهستولوجيا الطبية

## توصيف مقرر الهستولوجي والنمو الجنيني لدبلوم الجراحة العامة 2013/2014

	بيانات المقرر
الفرقة / المستوى : المستولوجي والنمو الجنيني <b>دبلوم جزء أول</b>	الرمز الكودي : SURG 502
عدد الوحدات الدراسية: نظري 1 credit hour	التخصص : دبلوم الجراحة العامة
<ul> <li>Advanced scientific knowledge essential to practice Histology &amp; Cell Biology dealing with general surgery.</li> <li>Advanced scientific knowledge essential for establishing &amp; maintaining good researchers.</li> <li>Advanced scientific knowledge essential for following the rules of medical practice.</li> <li>Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems &amp;researches.</li> <li>Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with students and colleagues.</li> <li>Lifelong learning competencies necessary for continuous professional development.</li> <li>Research education as related to medical practice &amp;more advanced scientific researches.</li> <li>Advanced administrative skills necessary for delivery of research service.</li> </ul>	۱ـ هدف المقرر:
تدريس المقرر:	٢- المستهدف من

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

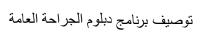






<b>2.a.1. Describe</b> the normal structure and function of the human body	أـ المعلومات
cells at the level of its organ & system on the molecular level.	والمفاهيم :
<b>2.a.2. Outline</b> the L/M and E/M of different cell organelles.	
<b>2.a.3. Flash light</b> on properties, types and functional importance of	
epithelial tissues.	
<b>2.a. 4. Explain</b> the cell signaling & altered cell behavior.	
<b>2.a.5. Recognize</b> the altered development, growth, structure and	
function of the body cells.	
<b>2.a.6. Explain</b> physiological cell death.	
<b>2.a.7. Discuss</b> general features, structure of cardiac muscle putting in	
mind the intercalated discs, conducting system, and moderator band.	
<b>2.a.8. Describe</b> RBC'S histological structure and function, differential	
leococytic count, platelets, haemopoises, myeloid tissue.	
<b>2.a.9. describe</b> histological structure of the heart.	
<b>2.b.1. correlate</b> general characters, constituents, structure, types and	ب- المهارات الذهنية:
staining properties of connective tissue proper and fibers.	الذهنية.
<b>2.b.2. Analyze</b> lymphatic organs according to histological structure and	• •
function.	
<b>2.b.3</b> . <b>Assess</b> cell types of oral cavity.	
<b>2.b.4.</b> Classify types, structure and organization of neuron, nerve	
cells & nerve fibers.	
<b>2.b.5. Interpret</b> general characters and types of muscle tissue.	
<b>2.b.6. Select</b> histological structure and function of granular and	
non granular leucocytes.	
2.b.7. Analyze General features, structure, types, development and	
ossification of bone tissue.	
2.b.8. Interpret myelination of CNS, PNS & types and structure	
of ganglia, synapses, neuralgia, regeneration and degeneration of	
neurons.	







جــ المهارات
جــ المهارات المهنية الخاصة بالمقرر:
ti
بالمفرر:
د - المهارات العامة ·
العامة :





SUBJECT	Lectures (hrs)	Total (hrs)	%of total	٣- محت <i>وى</i> المقرر:
Cytology (human body cells, cytoplasmic organelles, inclusions, nucleus, DNA, RNA, cell death)	1 hr.	1 hr.	6.7%	.55
<b>Epithelium</b> (Properties ,Types, Examples ,Functional importance ,Modification)	1 hr.	1 hr.	6.7%	
Connective tissue (general character, constituents, structure, types, staining properties, types of connective tissue proper and site)	1 hr.	1 hr.	6.7%	
Cartilage (Types, histological features.)	1 hr.	1 hr.	6.7%	
<b>Bone</b> (General microscopic features, Types ,structure, sites, function, development and ossification.)	1 hr.	1 hr.	6.7%	
Blood (red blood corpuscles ,granular leucocytes, non granular leucocytes ,differential leucocytic count ,platelets, haemopoiesis myeloid tissue.)	1 hr.	1 hr.	6.7%	
<b>Muscle</b> (general features, skeletal ms, smooth ms, cardiac ms, comparative study on different types, growth and regeneration.)	1 hr.	1 hr.	6.7%	
Nervous system (Structure, types ,mylination of CNS&PNS ,nerve ganglia , synapses, degeneration and regeneration of neurons ,nerve endings, Neurglia.)	1 hr.	1 hr.	6.7%	
<b>Urinary system:</b> kidneys, ureters, urinary, bladder, male urethra, female urethra.)	1 hr.	1 hr.	6.7%	
Endocrine system (Pituitary, Thyroid, Parathyroid, Adrenal, pineal body, islet's of pancreas, neuroendocrine system.)	1 hr.	1 hr.	6.7%	
Immune system and lymphoid tissue (structure, distribution of lymphoid tissue and vessels ,lymphatic organs, mononuclear phagocytes , cells involved in the immune system ,antigen presenting cells)	1 hr.	1 hr.	6.7%	
Cardiovascular system (general structure and types of, arteries, veins, histological structure of specialized arteries &veins, arterio-venous connections, histological structure of Heart.)	1 hr.	1 hr.	6.7%	
Digestive system (Oral cavity, salivary glands, digestive tube, oesophagus, stomach, small intestine, large intestine, appendix, rectum and anal canal, pancreas, liver & gall bladder.)	3 hr.	3 hr.	20%	



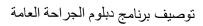


1 Modified Leatures	ک أد الد بالتياد
1. Modified Lectures	٤- أساليب التعليم والتعلم
<ul><li>2. Tutorial</li><li>3. Seminars</li></ul>	والتعلم
3. Semmars	
	٥ - أساليب التعليم
لا ينطبق	والتعلم للطلاب ذوى
	القدرات المحدودة
	N 1 11
	٦- تقويم الطلاب
1. Written exams	أ- الأساليب
2. Oral exams	المستخدمة
At end of the first term	ب- التوقيت
Written exam 25	جــ توزيع
• Oral exam 25	جــ توزيع الدرجات
- Oral Chairi 23	
اسية والمراجع:	٧- قائمة الكتب الدر
Lectures notes	أ ـ مذكر ات
Essential books (text books)	أ- مذكرات ب- كتب ملزمة
- Department book	
- Junqueira's Basic Histology: Text and Atlas, 2013	
13 <sup>th</sup> ed. By Anthony Mescher, McGraw Hill Medical	
• Recommended books:	جــ كتب مقترحة
- Color Atlas and Text of Histology, 2013	
6 <sup>th</sup> ed. By Leslie P. Gartner and James L. Hiatt, Lippincott	
Williams and Wilkins, North America.	
· ·	
- Wheater's Functional Histology: A text and color Atlas, 2013 6 <sup>th</sup> ed. By Barbara Young, Geraldine O'Dowd and Philip	
<u> </u>	
Woodford, Churchill Livinggstone.	
- Histology: A Text and Atlas with correlated cell and molecular	
Biology, 2010  6th ad Dy Mijahael H. Doss and Wajajach Dayling, Linningstt	
6 <sup>th</sup> ed. By Miichael H. Ross and Wojciech Pawlina, Lippincott Williams and Wilkins.	
www.medscape.com. www.pubmed.com.	د ــ دوريات علمية أو نشرات
www.emedicine.com/maint/cme.asp. www.science direct.com.	علمیه او نسر آت

تاریخ مجلس القسم: ۲۰۱۳/۹/۸

رئيس مجلس القسم: اد/ اميمة كامل جامعة بنها







### كلية الطب البشرى قسم التشريح الادمى وعلم الاجنة

## توصيف مقرر التشريح الجراحى لدبلوم الجراحة العامة 2013/2014

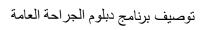
		بيانات المقرر
الفرقة / المستوى : دبلوم جزء أول :	اسم المقرر	الرمز الكودي : SURG 502
ات الدراسية: نظري 1 credit hour	عدد الوحد	التخصص : دبلوم الجراحة العامة
To have fair knowledge about the anatomy of different org	gans for	۱_ هدف
efficient surgical practice.		المقرر:
• To make the student able to imagine the surface anatom	omy of	
different body structure important for surgical application.		
To know the basics of surgical anatomy.		
To describe the embryogenesis of the different body organs	and the	
emergence of various congenital anomalies.		
رر :	تدريس المق	٢- المستهدف من
By the end of the course, the student should be able to:		_
<b>2.a.1 Describe</b> the morphology, location, vasculature, innerva	tions &	أ- المعلومات
relations of different parts of human body.		والمفاهيم :
<b>2.a.2 Flash light</b> the embryogenesis of different anatomical stru	ctures.	
<b>2.a.3 Enumerate</b> the anatomy of the branchial remnants		
<b>2.a.4 State</b> the anatomic complications of different surgical oper		
<b>2.a.5</b> Outline the anatomical principles of different surgical ope		
<b>2.a.6 Explain</b> the most common variations to give an idea	for the	
clinical application.		
<b>2.a.7 Outline</b> the impact of fine structure of the ana components.	itomical	
<b>2.a.8 Describe</b> the details of surgical & applied anatomy.		
<b>2.a.9 Discuss</b> the surface anatomy of the visible and deeper str	ructures	
of the body.		





2.b.1 Classify different types of abdominal wall and internal hernias 2.b.2 Estimate the complications of different surgical operations	ب ال
	-/ - <del>-</del>
2.b.2 Estimate the complications of different surgical operations	الذم
2.b.3 Evaluate the impact of perihepatic collections	мш)
<b>2.b.4 Demonstrate</b> the anatomy of retroperitoneal structures	
<b>2.b.5</b> Link between the anatomy of urogenital diaphragm and its	
congenital anomalies	
<b>2.b.6 identify</b> the surgical anatomy of omenta and omental bursa	
2.c.1 Apply the science of embryology on the development of various congenital anomalies 2.c.2 Show the difference between the types of hernia 2.c.3 Perform an imagination about the anatomical layers have to be	جـ المه
congenital anomalies الخاصة	المهنية
<b>2.c.2 Show</b> the difference between the types of hernia	
<b>2.c.3 Perform</b> an imagination about the anatomical layers have to be	بالمقرر
opened in different abdominal incisions	
<b>2.c.4 Evaluate</b> the pelvic floor dysfunction and its effects.	
عهارات 2.d.1. Use information technology to obtain the basic science of anatomy for understanding different surgical diseases.	د - ال
anatomy for understanding different surgical diseases. : امة	الع
<b>2.d.2. Develop</b> a colored atlas showing different anatomical structures	
<b>2.d.3. Exercise</b> on simple drawing of surface anatomy diagrams	
<b>2.d.4. Perform</b> information by all means, including electronic means.	
<b>2.4.7.</b> I CIVIII information by an ineans, including electronic means.	







## 3- Course contentالمقرر:

Subject	(hrs)	Total(hrs)	% of Total
Neck: Thyroid Gland, Parathyroid Glands, Trachea at the Neck, Salivary Glands, Branchial Remnants, Surgical and Applied Anatomy	1 hr.	1 hr.	6.7%
Thoracic Wall and Pleurae Embryogenesis and congenital anomalies Surgical and Applied Anatomy	1 hr.	1 hr.	6.7%
<b>Breast:</b> Embryogenesis and congenital anomalies Surgical and Applied AnatomyAnatomic Complications of Mastectomy	1 hr.	1 hr.	6.7%
Mediastinum Thymus	1 hr.	1 hr.	6.7%
<b>Diaphragm:</b> Embryogenesis and congenital anomalies Surgical and Applied Anatomy	1 hr.	1 hr.	6.7%
Abdominal Wall and Hernias: Embryogenesis and congenital anomalies, Surgical and Applied Anatomy Anatomic Complications of Abdominal Incisions Hernias of the Abdominal Wall and Surgical Treatment Anatomic Complications of Hernia Repair	2 hr.	2 hr.	13.3%





Peritoneum, Omenta, and Internal Hernias Embryogenesis and congenital anomalies, Surgical and Applied Anatomyof the Peritoneum, Surgical Anatomy of the Omenta and the Omental Bursa, Perihepatic Collections, Internal Abdominal Hernias, Anatomic Complications Involving the Peritoneum and Omenta Retroperitoneum: Embryogenesis and congenital anomalies, Surgical and Applied Anatomy Great Vessels in the Abdomen: Abdominal Aorta Inferior Vena Cava	1 h		1 hr. 1 hr.	6.7%	
Pharynx: Surgical and Applied Anatomy Esophagus Embryogenesis and congenital anomalies, Surgical and Applied Anatomy, Anatomic Complications of Esophageal Surgery Stomach: Embryogenesis and congenital anomalies Surgical and Applied Anatomy, Anatomic Complications of Gastric Surgery Small Intestine, Appendix: Surface anatomy, Anatomical variations Large Intestine and Anorectal	2 h	r.	2 hr.	13.3%	
Liver: Surgical and Applied Anatomy. Surface anatomy Extrahepatic Biliary Tract and Gallbladder: Surface anatomy, Anatomical variations Pancreas, Spleen: Surface anatomy Adrenal Glands		2 hr.	2 hr.	13.3%	
Kidneys, Ureters and Urinary Bladder: Surface anatomy Anatomical variations Male Genital System: Testis, Epididymis, and Spermatic C Ductus Deferens (Vas), Potential Spaces above the Urogenit Diaphragm, Scrotum, Seminal Vesicles, Ejaculatory Ducts Prostate, Bulbourethral Glands of William Cowper, Potentia Spaces under the Urogenital Diaphragm, Male Urethra, Peni	al 1	1 hr.	1 hr.	6.7%	
Pelvis and Perineum		_1	.1	6.7%	
Pelvic floor and its dysfunction  1. Modified Lectures		hr.	hr.		ع أساليب التعادي
2. Tutorial					٤- أساليب التعليم والتعلم
3. Seminars					, 3
لا ينطبق					٥- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة ٦- تقويم الطلاب





1. Written exams	أ- الأساليب
2. Oral exams	أ- الأساليب المستخدمة
At end of the first term	ب- التوقيت
Written exam 75	جــ توزيع الدرجات
• Oral exam 75	الدرجات
اسية والمراجع :	 ٧- قائمة الكتب الدر
Lectures notes	أ- مذكرات
Essential books (text books)	ب- کتب ملزمة
- Department books	
- Gray's Anatomy for students, 2013	
3 <sup>rd</sup> ed. By Richard Drake, A. Wayne Vogl and Adam W.M	
Mitchell, Churchill Livingstone.	
• Recommended books:	جـ- كتب مقترحة
- Last R.J. Anatomy Regional and Applied, 2011.	
12 <sup>th</sup> ed. By Chummy S. Sinnatamby, the English society &	
Churchill Livingstone, Edinburgh and London.	
- Langman's Medical Embryology, 2011.	
13 <sup>th</sup> ed. By Sadler T.W, Lippincott Williams and Wilkins,	
Philadelphia.	
- Clinically Oriented Embryology, 2001.	
6 <sup>th</sup> ed. By Moore K. & Persaud T., Philadelphia, WB Saunders	
Company.	
- Carpenter's Human Neuroanatomy, 1996.	
9 <sup>th</sup> ed. By Andre Parent and Malcom B. Carpenter, Lippincott	
Williams and Wilkins.	
- Human Embryology & Developmental Biology, 2013.	
5 <sup>th</sup> ed. By Bruce M. Carlson, Saunders.	
www.bfom.edu.eg.	د – دوريات
	علمية أو نشرات

رئيس مجلس القسم: ١د/ عصام السيد عيد تاريخ مجلس القسم: ٢٠١٣/٩/٨





جامعة بنها كلية الطب البشرى قسم الفسيولوجيا الطبية

## توصيف مقرر الفيسيولوجيا لدبلوم الجراحة العامة ٢٠١٤/٢٠١٣

	بيانات المقرر
الفرقة / المستوى : الفسيولوجيا دبلوم جزء أول	الرمز الكود <i>ي</i> : SURG 501
عدد الوحدات الدراسية: نظري 1 credit hour	التخصص : دبلوم الجراحة العامة
<ul> <li>Approaching to the detailed knowledge of human physiology.</li> </ul>	۱_ هدف
• Facilitate understanding the clinical data for the student in the clinical practice.	المقرر:
<ul> <li>Develop skills associated with improved health care and health care services.</li> </ul>	
• Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with surgical problems commonly met- with- in clinical surgical practice.	
<ul> <li>Basic scientific knowledge essential for establishing &amp; maintaining good doctor/ patient relationship.</li> </ul>	
<ul> <li>Basic scientific knowledge essential for following the rules of medical ethics.</li> </ul>	
• Diagnostic, problem solving and decision making as well as	
communication skills necessary for proper evaluation and	
management of surgical problems.	المستعدف من

۲- المستهدف من تدريس المقرر:

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





2.a.1. describe according to priority the main functions of Thyroid	أ- المعلومات
gland hormones.	والمفاهيم :
<b>2.a.2. Explain</b> and describe Arterial blood pressure and its regulation.	
<b>2.a.3. Flash light</b> on Microcirculation.	
<b>2.a.4. Discuss</b> the different mechanisms of homeostasis and how to	
apply it in general surgery.	
<b>2.a.5. Flash light</b> on Venous circulation.	
<b>2.a.6. Enumerate</b> and discuss different types of Anemia.	
<b>2.a.7. Discuss</b> small intestinal motility and its control.	
<b>2.b.1. Identify</b> Water and electrolyte imbalance.	ب- المهارات الذهنية:
<b>2.b.2. Interpret</b> clinical manifestations of Hemorrhage and shock.	اأذ هذرة.
<b>2.b.3.</b> Classify different types of Edema.	الدهلية.
<b>2.b.4. Demonstrate</b> regulation of respiration.	
<b>2.b.5. Analyze</b> acid base balance.	
<b>2.b.7. Plan</b> role of parathyroid hormone, calcitonine and vitamin D in	
calcium homeostasis.	
<b>2.b.8.</b> Assess the normal structure and function of the human body at	
the molecular, biochemical, cellular, levels (including the principles	
of genetics), to maintain the body homeostasis.	
<b>2.c.1. Perform</b> procedures as measuring pulse, respiratory rate and	جــ المهارات المهنية الخاصة بالمقرر:
arterial blood pressure.	الموزية الخاصة
<b>2.c.2. Manage</b> different types of hypoxia.	
<b>2.c.3. Manage</b> Hemorrhage and shock.	بالمقرر:
<b>2.c.4. Perform</b> pulmonary function tests.	
<b>2.c.5. Show</b> action of supra cortical hormones and its role at regulation	
of arterial blood pressure.	
<b>2.c.6.Evaluate</b> Pain and Pain control system	
<b>2.c.7. Apply</b> role of platelets in hemostasis.	
<b>2.c.8 Develop</b> general scheme for management of Hemorrhage and	
Shock.	
<b>2.c.9</b> Use tests showing the molecular, biochemical, and cellular	
mechanisms that are important in maintaining the body's	
homeostasis.	
<b>2.c.10</b> Use the functions of the Liver and biliary system that have role	
in general surgical diseases and conditions.	
<b>2.d.1.</b> communicate with others.	د - المهارات
<b>2.d.2. Instruct</b> patients about causes and management of fever.	العامة:
<b>2.d.3</b> use information technology	





Subject		Total	% of	٣- محتوى
Subject	Lectures(hrs)	(hrs)	total	۳- محتوى المقرر:
1. Arterial blood pressure and its regulation	1hr.	1hr	6.7%	.53
2. Microcirculation & Venous circulation	1hr	1hr	6.7%	
3. Edema, Hemorrhage and shock	1hr	1hr	6.7%	
4. Anemia	1hr	1hr	6.7%	
5. Homeostasis & Platelets	1hr	1hr	6.7%	
6.Water, electrolyte & Acid base balance	1hr	1hr	6.7%	
7. Thyroid gland hormones	1hr	1hr	6.7%	
8.Suprarenal cortical hormones	1hr	1hr	6.7%	
9. Calcium homeostasis, Parathyroid hormone, Calcitonin & Vit D.	2hr	2hr	13.3%	
10. Regulation of respiration & Hypoxia	1hr	1hr	6.7%	
11. Small intestinal motility and its control	1hr	1hr	6.7%	
12. Liver and biliary system	1hr	1hr	6.7%	
13. Pain & Pain control system	1hr	1hr	6.7%	
14. Fever	1hr	1hr	6.7%	
<ol> <li>Modified Lectures</li> <li>Tutorial</li> <li>Seminars</li> </ol>				<ul><li>٤- أساليب التعليم</li><li>والتعلم</li></ul>
	لا ينطبق			٥- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
				٦- تقويم الطلاب:
1. Written exams				أ- الأساليب
2. Oral exams				المستخدمة
At end of the first term				ب- التوقيت





• Written exam 50	جــ توزيع الدر جات
• Oral exam 50	الدرجات
اسية والمراجع:	 ٧- قائمة الكتب الدر
• Lectures notes	أ- مذكرات
Essential books (text books)	ب- كتب ملزمة
- Department books.	
- New Human Physiology: Text book in Medical physiology &	
pathophysiology; Essentials & clinical problems, 2007.	
2 <sup>nd</sup> ed. By Poul-erik Paulev, Lippincott Williams and Wilkins.	
• Recommended books:	جـ- كتب مقترحة
- Guyton and Hall Text book of medical physiology, 2010.	
12 <sup>th</sup> ed. By Arthur C. Guyton and John E. Hall, Saunders.	
- Ganong's Review of medical physiology, 2013.	
25 <sup>th</sup> ed. By Kim E. Barrett, Susan M. Barman, Scott Boitamo and	
heddwen brooks, McGraw Hill Medical.	
• www.jap.physiology.org.	د – دوريات
<ul> <li>www.physiologyonline.physiology.org/cgi/content</li> </ul>	علمية أو نشرات

رئيس مجلس القسم: اد/ علاء التليس تاريخ مجلس القسم: ٢٠١٣/٩/٨





جامعة بنها كلية الطب البشرى قسم الكيمياء الحيوية الطبية

#### توصيف مقرر الكيمياء الحيوية لدبلوم الجراحة العامة ٢٠١٤/٢٠١٣

		بيانات المقرر
الفرقة / المستوى :		الرمز الكودي :
دبلوم جزء أول	اسم المقرر: الكيمياء الحيوية	SURG 501
1 12.1	tee to the to	التخصص :
1 credit hour	عدد الوحدات الدراسية: نظري	دبلوم الجراحة العامة
		العامة





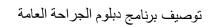
• Provide all students with a broad education in fundamental aspects of medical biochemistry and molecular biology;

هدف

- Provide a sound knowledge and understanding of the biochemical importance of macro-, micronutrients, hormones and enzymes;
- To enable the student to illustrate and/or describe the metabolic pathways of macronutrients and nucleotides;
- Illustrate the contribution of the organs in metabolic process under different physiological circumstances.
- To enable the student to understand the bioenergetics of the concerned metabolic pathways under different physiological circumstances and their integrator regulations with other working metabolic pathways.
- Enable students to point out and understand the biochemical and the molecular basis of a range of diseases, their diagnosis and the development of therapies.
- Acquire a critical understanding of the basic principles of molecular biology, different methods used in diagnosis of diseases.
- Be familiar with biotechnology methods and their clinical implications and be able to explain some detailed examples.
- Be able to devise and evaluate suitable experimental methods for the investigation of relevant areas of biochemistry and molecular biology.
- To enable the student to describe major body fluids composition and their clinical impact.
- Develop through a flexible and progressive structure, a range of subject-specific and transferable skills, including practical laboratory skills, self-management, information retrieval, communication and presentation skills, working with others, decision making and meeting deadlines, that equip students for future employment.

٢- المستهدف من تدريس المقرر:

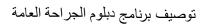






<b>2.a.1 Describe</b> the metabolic pathways of the three main dietary	أـ المعلومات
sources of energy: carbohydrates, fats and proteins, their digestion	والمفاهيم :
absorption, their oxidation to release energy.	
<b>2.a.2 Explain</b> the regulation of these pathways and the integration of	
their metabolism.	
<b>2.a.3 State</b> biochemical alteration in related metabolic disorders as	
DM ,hypercholesterolemia ,atherosclerosis and gout.	
<b>2.a.4 Discuss</b> the role of vitamins and enzymes required for different	
metabolic reactions in the human body in addition to the deficiency	
manifestation of each.	
<b>2.a.5 Flash light</b> the biochemistry of certain tissues like liver,	
kidney and muscles as well as the correlation of their composition	
to function in health and disease.	
<b>2.a.6</b> . <b>Define</b> the metabolism of the major minerals as calcium,	
phosphate and iron and trace elements regarding their functions and	
alterations in metabolic processes met with the deficiency or excess	
of these elements.	
<b>2.a.7</b> . <b>Outline</b> nucleic acid metabolism (DNA-RNA).	
<b>2.a.8. Enumerate</b> the general principles of genetic engineering and	
their application for the diagnosis and management of diseases.	
<b>2.a.9. List</b> the components of some body fluids e.g. blood, urine,	
semen, and CSF.	
<b>2.a.10. Discuss</b> heme and bilirubin metabolism and their various	
metabolic disorders.	
<b>2.b.1 Interpret</b> ABG(arterial blood gases) reports and blood pH	ب- المهارات
regulation.	ب- المهارات الذهنية:
<b>2.b.2</b> Analyze normal &pathological glucose tolerance curve.	الدهنية:
<b>2.b.3 Solve</b> problems related to metabolic disturbances in a given	
case study report.	
<b>2.b.4 Evaluate</b> the action of various body hormones and plasma	
enzymes and their clinical correlation.	
<b>2.b.5 Identify</b> the biochemical and molecular basis of cancer.	
2.c.1. Manage problems related to metabolic disturbances in a given	حــ المهار ات
case study report.	المهنية الخاصة
2.c.2 Apply the values of different tumour markers in diagnosis and	جــ المهارات المهنية الخاصة بالمقرر:
prognosis of various tumours.	.55
prognosis or various tuitionis.	







2.d.1 Use available resources to get data & knowledge.2.d.2. Communicate properly with the staff members as well as with each other.

د - المهارات العامة:

**2.d.3.** Work effectively in groups.

3-course content

المقرر

Subject	Lectures (hrs)	Tutorials (hrs)	Total (hrs)	% of Total
Blood pH regulation, acidosis and lkalosis	1/2		1/2	3.3%
Major pathways of glucose oxidation	1/2		1/2	3.3%
lood glucose regulation, Glucose lerance test, hyper- and hypoglycemia	1/2		1/2	3.3%
abetes Mellitus, galactosemia & ycogen storage disease.	1/2	1/2	1	6.7%
asma lipoproteins, hyperlipidemia	1/2		1/2	3.3%
nolesterol metabolism, percholesterolemia and herosclerosis		1/2	1/2	3.3%
potropic factors, fatty liver	1/2		1/2	3.3%
oxidation, ketosis	1/2	1/2	1	6.7%
ea cycle, NPN compounds	1/2		1/2	3.3%
me metabolism and moglobinopathies	1/2		1/2	3.3%





Porphyria and Jaundice	1/2	1/2	1	6.7%
Insulin, steroid,thyroid and parathyroid hormones & their clinical correlation	1/2	1/2	1	6.7%
Plasma enzymes & their diagnostic values		1/2	1/2	3.3%
Vitamins & their deficiency manifestation	1/2		1/2	3.3%
Calcium & phosphate homeostasis, sodium, potassium, iron, iodine and their deficiency manifestation.	1/2		1/2	3.3%
Hyperuricemia & gout	1/2		1/2	3.3%
DNA structure, replication, transcription & Regulation of gene expression	1/2		1/2	3.3%
RNA structure, transcription and posttranscriptional modification	1/2		1/2	3.3%
DNA damage, mutation and repair	1/2		1/2	3.3%
Cell cycle & apoptosis	1/2		1/2	3.3%
Protein synthesis: translation and posttranslational modifications	1/2		1/2	3.3%
Recombinant DNA technology, blotting techniques and gene therapy.	1/2		1/2	3.3%
Biochemical and molecular basis of cancer	1/2		1/2	3.3%
Tumor markers	1/2		1/2	3.3%
Liver & kidney function tests	1/2		1/2	3.3%
Urine, blood, semen, CSF and milk: normal and abnormal constituents& their clinical relevance.	1/2		1/2	3.3%





1. Modified Lectures	﴾ أن الدرر التحاد
2. Tutorial	<ul><li>3- أساليب التعليم</li><li>و التعلم</li></ul>
	والتغلم
3. Seminars	
	٥ - أساليب التعليم
لا ينطبق	والتعلم للطلاب ذوى
<del></del>	القدرات المحدودة
	٦- تقويم الطلاب
1. Written exams	أ- الأساليب
2. Oral exams	المستخدمة
At end of the first term	ب- التوقيت
- At old of the first term	
• Written exam 25	جــ توزيع الدرجات
• Oral exam 25	الدرجات
Oral Oralli 20	
البيدة والمداحمة	٧- قائمة الكتب الدر
اسب والمراجع .	۱ - فالله- الكتب الدر
• Lectures notes	أ- مذكرات
• Essential books (text books)	ب- كتب ملزمة
- Department books	
- Biochemistry: Lippincott's illustrated Reviews, 2013.	
6 <sup>th</sup> ed. By denise R. Ferrier, Lippincott Williams and Wilkins,	
North America.	
Recommended books:	جــ كتب مقترحة
- Harper's illustrated Biochemistry, 2012.	
29 <sup>th</sup> ed. By Robert K. Murray, David A. Bender, Katween M.	
Botham, Peter J. Kennelly, Victor W. Rodwell and P. Anthony	
Weil, McGraw Hill Medical.	
11 1	1
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	علمیه او نشرات

رئيس مجلس القسم: اد/ امال ابو الفضل تاريخ مجلس القسم: ٢٠١٣/٩/١





جامعة بنها كلية الطب البشرى قسم الباثولوجيا

# توصيف مقرر الباثولوجيا الجراحية لدبلوم الجراحة العامة ٢٠١٤/٢٠١٣

	بيانات المقرر
الفرقة / المستوى : الباتولوجيا الجراحية دبلوم جزء أول	الرمز الكودي : SURG 503
عدد الوحدات الدراسية: نظري 2 credit hours	التخصص : دبلوم الجراحة العامة
Good application of basic pathological knowledge essential for the practice of general surgery.	١- هدف المقرر:
• Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations.	
• Application of special knowledge & its integration with others that have relation with the special practice.	
• Awareness of the running problems as early tumor detection and diagnosis of most of human body system.	
Diagnosis of practical problems as cases study and clinical assessments.	
• Having fundamental knowledge of medical disciplines related to their clinical applications & able to use different technological tools as computer in the field of general surgery.	
• Having acquired competency to be teacher, trainer, researcher and leader in the field.	
• Diagnosis, problem solving and decision making skills necessary for proper evaluation and management.	
Development of recent tools & ways essential for medical practice.	
• Awareness of his role in the progress of society and govern the environment in the light of international & local changes.	
Honesty and respect the practical rules.	
• Lifelong learning competencies necessary for continuous professional development.	

 $Y_{-}$  | المستهدف من تدريس المقرر:





<b>2.a.1. Flashlight</b> the dissection of different types of biopsies.	أ- المعلومات
<b>2.a.2 Define</b> stem cells.	والمفاهيم :
<b>2.a.3 Describe</b> different circulatory disturbances.	
<b>2.a.4 Explain</b> cell response to injury and tissue repair.	
2.a.5 Discuss tissue deposits.	
<b>2.a.6 List</b> different diagnostic methods in pathology.	
<b>2.a.7 Discuss</b> different salivary gland diseases as inflammatory and neoplastic diseases.	
<b>2.a.8 Flashlight</b> on different hepato-billiary diseases.	
<b>2.a.9 Discuss</b> diseases of blood vessels either arteries or veins .	
<b>2.a.10 Outline</b> different bone diseases.	
<b>2.a.11 Discuss</b> prognostic factors of cancer breast.	
<b>2.a.12 Discuss</b> genitor-urinary tract tumors.	
2. a.13Flashlight on prostatic diseases as BPH and cancer prostate.	
<b>2.a.14 Enumerate</b> different pediatric congenital anomalies.	
<b>2.b.1 Interpret</b> disturbance of growth and neoplasm formation.	ب- المهارات الذهنية:
<b>2.b.2 Identify</b> different developmental and genetic diseases.	الذهنية.
2.b.3 Assess risk of radiation.	الدهنية
<b>2.b.4 Identify</b> principles of basic immunopathology.	
<b>2.b.5</b> Analyze diseases of gastrointestinal system as regard clinical manifestations ,path	
physiology ,risk factors and management.	
<b>2.b.6 Classify</b> different endocrinal diseases.	
<b>2.b.7 Plan</b> for early cancer breast detection by different methods.	
<b>2.b.8 Assess</b> different testicular diseases as testicular tumors.	
<b>2.b.9 Identify</b> diseases of scrotum, seminal vesicle.	
<b>2.b.10 Identify</b> diseases of Lymph-reticular system & spleen.	
<b>2.c.1 Diagnose</b> and manage cases of inflammation, granuloma and viral diseases	<ul><li>جـ- المهارات</li><li>المهنية الخاصة</li><li>بالمقرر:</li></ul>
<b>2.c.2 Write</b> report on impact of radiation on health and caused surgical diseases.	الموزدة الخاصة
<b>2.c.3 Apply</b> basic immunopathology.	المهيد الحاصه
<b>2.c.4 Evaluate</b> and manage a case of lung tumor.	بالمقرر:
<b>2.c.5 Diagnose</b> and manage breast diseases either benign lesions ,cysts , swellings,	
nipple discharge or cancer breast.	
<b>2.c.6 Manage</b> a case of testicular tumor.	
<b>2.c.7 Examine</b> a case of splenomegaly and lymphadenopathy.	
2.c.8 <b>Use</b> of stem cells in different surgical diseases	
2.c.9 <b>Instruct</b> about action of different hormones and the impact of secretion	
disturbance.	
<b>2.d.1 Work</b> in team for proper assessment and management of hepato-billiary diseases.	د - المهارات
<b>2.d.2 Communicate</b> effectively with pathologist ,radiologist ,oncologist for proper	العامة:
management of breast diseases.	





Subject	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total	توى المقرر:
General					
Pathology					
Cell response to injury, Stem cells and repair, Tissue deposits	1hr.	1hr.	2hr	4.4%	
Inflammation ,Granulomas ,Viral disease	1hr.	1hr.	2hr	4.4%	
Disturbance of growth Neoplasia, Developmental and genetic diseases	1hr.	1hr.	2hr	4.4%	
Circulatory disturbances, Radiation Basic imunopathology	1hr.	1hr.	2hr	4.4%	
Diagnostic methods in pathology	1.5hr.	1.5hr.	3hr	6.7%	
Special					
Pathology					
Diseases of the Gastrointestinal system	3hr	3hr.	6hr.	13.3%	
Salivary glands.	2hr	2hr	4hr.	8.9%	
Lungs: tumors					
Diseases of Liver & biliary tract:	2hr	2hr	4hr.	8.9%	
Diseases of the Blood vessels, Endocrine	2hr	2hr	4hr.	8.9%	
Breast. Bone	3hr	3hr	6hr.	13.3%	
Urinary Tract tumors. Testis, prostate, scrotum,	2hr	2hr	4hr.	8.9%	
seminalvesicle Pediatric congenital anomalies, Diseases of Lymphoreticular system & spleen	2hr	2hr	4hr.	8.9%	

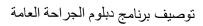




1. Modified Lectures	٤ - أساليب التعليم
2. Tutorial	والتعلم
3. Seminars	
4. Small group discussion and case studies.	
5. Practical sessions (histopathology slide lab-museum of pathology)	A .A. A. f
لا ينطبق	<ul> <li>اسالیب التعلیم</li> <li>والتعلم للطلاب ذوی</li> <li>القدرات المحدودة</li> </ul>
	القدرات المحدودة
	<ul><li>٦- تقويم الطلاب :</li><li>أ- الأساليب</li></ul>
1. Written exams	أ- الأساليب
2. Oral exams	المستخدمة
At end of the first term	ب- المتوقيت
Written exam 75	جــ توزيع الدرجات
• Oral exam 75	
مية وال <i>مر</i> اجع :	٧- قائمة الكتب الدراس
• Lectures notes	أ- مذكرات
Essential books (text books)	ب- کتب ملزمة
- Department book.	
- Rapid Review pathology, 2013.	
4 <sup>th</sup> ed. By Edward F. Goljan, saunders.	
Recommended books:	جـ- كتب مقترحة
- Robbins & Cotran pathologic Basis of disease, 2013.	
9 <sup>th</sup> ed. By Vinay Kumar, Abul K. Abbas and Jon C. Aster, Saunders.	
www.pathpedia.com	د ــ دوريات علمية أو نشرات
www.pathmax.com	ا أو نشرات

رئيس مجلس القسم: اد/ عبد اللطيف الباشي تاريخ مجلس القسم: ٢٠١٣/٩/٤





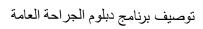


جامعة بنها كلية الطب البشرى قسم الميكروبيولوجيا والمناعة الطبية

## توصيف مقرر البكتريولوجيا لدبلوم الجراحة العامة ٢٠١٤/٢٠١٣

	بيانات المقرر	
الفرقة / المستوى : دبلوم جزء أول المقرر : البكتريولوجيا	الرمز الكودي ا : اسم اا SURG 504	
الوحدات الدراسية: نظري 1.5 credit hour	التخصص : عدد ا عدد ا العامة	
<ul> <li>To educate students about the basic features of general bacteriological</li> </ul>	۱- هدف ۱	
virology, microbial genetics and mycology and to provide students with an understanding of the immune system, its protective functions and its role in the patho-physiology of infectious and non-infectious diseases.		
To familiarize students with the common infections and diseases medical importance, their microbial causes, as well as laborat diagnosis, treatment, prevention and control of such diseases.  To enable the students to practice the principles infection control.		
• To enable the students to practice the principles infection control.		
يس المقرر:	٢- المستهدف من تدرب	







<b>2.a.1. Describe</b> general bacterial morphology, physiology and genetics.	أ- المعلومات
<b>2.a.2. Discuss</b> the host parasite relationship and microbial pathogenesis.	والمفاهيم :
<b>2.a.3</b> . <b>Explain</b> the physiology of the immune system, its beneficial role, its	
interaction with tumors, its deficiency conditions, as well as its detrimental	
role in hypersensitivity, autoimmunity and transplant rejection	
<b>2.a.4. Describe</b> the morphology, culture, antigenic structure and virulence	
factors of microorganisms causing bactremia and sepsis.	
<b>2.a.5. Flash light</b> the most important skin ,venereal infectious ,fungal and	
antifungal and outline the diagnosis, treatment, prevention and control of the	
most likely organisms causing such diseases	
<b>2.a.6. list</b> the most important methods of decontamination, sterilization and	
principles of infection control.	
<b>2.a.7. Define</b> the basics of antimicrobial chemotherapy and resistance.	
2.a.8. Discuss the impact of molecular technology in microbiology and	
immunology.	
<b>2.a9. List</b> sites of normal bacterial flora in the body	
<b>2.b.1. Differentiate</b> medically important bacteria based on microscopic	ب- المهارات الذهنية:
examination of stained preparations.	اأذ هذرت
<b>2.b.2. select</b> culture media and biochemical tests commonly used for	الدهيب-،
bacterial identification and distinguish positive and negative results.	
<b>2.b.3.</b> Classify various sterilization processes and simple infection control	
measures	
<b>2.b.4 Classify</b> viral vaccine and their role as anti viral immunity.	
<b>2.c.1</b> . <b>Show</b> microscopic examination of medically important bacteria. based	جــ المهار ات المهنية الخاصة
on stained preparations.	المهنية
<b>2.c.2</b> . <b>Apply</b> various sterilization processes and simple infection control	
measures	بالمقرر:
<b>2.c.3. Show</b> different methods of viral replication, pathogensis and	
laboratory diagnosis of them.	





**2.d.1 Instruct** medical team how to select the best methods of diagnosis of suspected hospital acquired infection and blood borne infection.

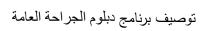
د ـ المهارات العامة :

- **2.d.2. Develop** awareness of medical team about methods of transmission, prevention and control of viral infection.
- **2.d.3. Communicate** with other health care professionals regardless their degrees or rank & the role and the contributions (top management, subordinate or colleague).
- **2.d.4 Work** counseling sessions for disinfection and sterilization for health care team individuals (doctors, nurses, workers,....etc.).

۳- محت*وى* المقرر:

Subject	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of total
Bacterial Cell Structure Host parasite relationship Bacterial genetics (application of recombination and gene therapy) Antimicrobial chemotherapy Disinfection and Sterilization	2	3	5	13.3%
Staphylococci, streptococci, Pneumococci, Neisseria meningitides, Neisseria gonorrhea Bacillus anthracis Corynebacterium diphtheria and Clostridium group	1	5	6	16%
Mycobacteria Enteric Gram negative rods: (Coliform, Salmonella, Proteus, Serratia) Pseudomonas, Acintobacter	1	5	6	16%
Actinomyces, <u>Yersinia</u> , <u>Campylobacter</u> , <u>H.pylori</u> , <u>Heamphilus infleunza</u> , <u>Anaerobic</u> <u>Gm –ve</u> bacilli  Anaerobic Gm –ve cocci	1	1	2	5.3%







Applied Microbiology:				
wound, burn, surgical site				
infection, venereal infectious				
Normal bacterial flora of the				
body,	1		1	2.6%
Infective endocarditis,	1		1	2.0%
Opportunistic infection,				
Blood born infection,				
Bacteremia& sepsis,				
Hospital acquired infections)				
General virology				
Structure				
Lab. Diagnosis (idea)		2.5	4.5	12%
Viral replication (idea)	2			
Antiviral chemotherapy	2	2.3	4.5	1270
Antiviral immunity				
Pathogenesis of viral diseases				
viral vaccines				
human immunodeficiency virus				
(HIV)				
hepatitis Viruses	1		1	2.6%
Herpesviruses	1		1	2.0%
Adenoviruses				
Oncogenic viruses				
General Mycology				
Antifungal agents	2	3	5	13.3%
Subcutaneous mycoses				





<u>Basic Immunology</u>					
• Cells of immune response.					
<ul> <li>Natural &amp;acquried</li> </ul>					
<u>immunity.</u>					
• <u>Immune response.</u>					
<ul> <li>Antigens, antibodies</li> </ul>	2	3	5	13.3%	
<u>,complement and</u>	2		J	13.370	
<u>cytokines.</u>					
• <u>Cell mediated immunity</u>					
• <u>MHC</u>					
<ul> <li>Apoptosis&amp;necrosis</li> </ul>					
<u>Superantigen</u>					
<u>Special Immunology</u>					
<ul> <li>Hypersensitivity</li> </ul>					
Autoimmune diseases					
Immunodeficiency	2		2	5.3%	
diseases					
Tumor immunology					
<ul> <li>Transplantation</li> </ul>					
immunology					
	15	22.5	37.5	100	
immunology <b>Total</b>	15	22.5	37.5	100	
immunology  Total  1. Modified Lectures	15	22.5	37.5	100	٤ - أساليب
Total  1. Modified Lectures 2. Tutorial	15	22.5	37.5	100	٤- أساليب التعليم والتعلم
Total  1. Modified Lectures 2. Tutorial 3. Seminars			37.5	100	٤- أساليب التعليم والتعلم
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a			37.5	100	٤ - أساليب التعليم والتعلم
Total  1. Modified Lectures 2. Tutorial 3. Seminars			37.5	100	
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a			37.5	100	٥- أساليب
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a			37.5	100	٥ ـ أساليب التعليم والتعلم
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a		dies.	37.5	100	٥ - أساليب التعليم والتعلم للطلاب ذوى
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a		dies.	37.5	100	<ul> <li>٥- أساليب</li> <li>التعليم والتعلم</li> <li>نلطلاب ذوى</li> <li>القدرات</li> </ul>
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a		dies.	37.5		<ul> <li>هـ أساليب</li> <li>التعليم والتعلم</li> <li>للطلاب ذوى</li> <li>القدرات</li> <li>المحدودة</li> </ul>
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a 5. Practical sessions		dies.	37.5		<ul> <li>٥- أساليب</li> <li>التعليم والتعلم</li> <li>للطلاب ذوى</li> <li>القدرات</li> <li>المحدودة</li> <li>آح يقويم الطلاب</li> </ul>
Total  1. Modified Lectures 2. Tutorial 3. Seminars 4. Small group discussion a		dies.	37.5		<ul> <li>هـ أساليب</li> <li>التعليم والتعلم</li> <li>للطلاب ذوى</li> <li>القدرات</li> <li>المحدودة</li> </ul>



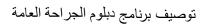


	At end of the first term	ب- التوقيت
	• Written exam 25	جــ توزيع الدرجات
	• Oral exam 25	الدرجات
	لدراسية والمراجع :	٧- قائمة الكتب ا
	• Lectures notes	أ- مذكرات
•	Essential books (text books)	ب- کتب ملزمة
-	Department books	ملزمة
-	Jawetz Melnick & Adelbergs Medical Microbiology, 2012.	
	26 <sup>th</sup> ed. By Geo brooks, Karen C. Carroll, Janel Butel and stephan	
	morse, McGraw Hill Medical.	
•	Recommended books:	جــ کتب مقترحة
-	Mackie and McCartney Practical Microbiology, 2007.	مقترحة
	14 <sup>th</sup> ed. By J. G. Collee, Elsevier Health sciences.	
-	Lippincott's illustrated Reviews Microbiology, 2012.	
	3 <sup>rd</sup> ed. By Richard A. Harvey and Cynthia Nau Cornelissen,	
	Lippincott Williams and Wilkins.	
-	Microbiology: An Introduction, 2012.	
-	11 <sup>th</sup> ed. By Gerard J. Tortora, Berdell R. Funke and Christine L. Case,	
	Benjamin Cummings.	
	www.phage.org/black09.htm	د – دوريات علمية أو نشرات
	www.microbe.org/microbes/virus_or_bacterium.asp	علمية أو
	www.bact.wisc.edu/Bact330/330Lecturetopics	نشرات
	www.whyfiles.org/012mad_cow/7.html	
	www.microbelibrary.org	
	www.hepnet.com/hepb.htm	
	www.tulane.edu/~dmsander/Big_Virology/BVHomePage.html	
	www.mic.ki.se/Diseases/c2.html	
	www.med.sc.edu:85/book/welcome.htm	
	www.bioiogy.arizona.edu/immunology/microbiology_immunology.html	

تاريخ مجلس القسم: ٢٠١٣/٩/٨

رئيس مجلس القسم: اد/ وفاء الشافعي







جامعة بنها كلية الطب البشرى قسم الجراحة العامة

# توصيف مقرر الجراحة العامة لدبلوم الجراحة العامة ٢٠١٤/٢٠١٣

		بيانات المقرر
الفرقة / المستوى :	اسم المقرر: الجراحة العامة	الرمز الكودي :
دبلوم جزء ثان	3 33	SURG 506
نظري 8 credit hours ملين در اسپين	عدد الوحدات الدراسية: عملى 4 credit hours فص	التخصص : دبلوم الجراحة العامة
<u> </u>	G	العامة





• To provide the educational experience necessary for further practice in the field of general surgery including general practice, residency programs, medical research, public health or health service administration through helping them.

- To identify Basic scientific knowledge essential to practice surgery 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.
- To understand the basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship.
- To acquire communication skills necessary for proper evaluation and management of health problems related to surgery.
- To apply analytical and critical methods for appraisal of knowledge in the field of general surgery.
- To acquire Diagnostic & therapeutic protocols of surgical diseases and emergencies; as well as problem solving and decision making.
- To encourage work in team as a member or leader and increase ability of management of scientific meetings.
- To know ethical and professional education necessary for demonstrating appropriate attitudes with colleagues that reflects integrity and sincerity.
- To provide Lifelong learning competencies necessary for continuous professional development.
- To conduct research studies and formulate scientific papers.
- To master the principles and methods of scientific research.
- To raise students acquiring research education knowledge related to surgical practice & future development.
- To give basic administrative skills necessary for delivery of health service.
- To employ available resources, develop them and find new resources.
  - To acquire competences and experience to effectively manage patients with different common surgical diseases.
- To understand the physical signs and how to detect these signs.
- To increase awareness of role of graduate in community development.
- To increase awareness of current problems and new concepts in the field of general surgery for proper health service administration.
- To commit self-development and transfer of knowledge and experience to others.

٢- المستهدف من تدريس المقرر:

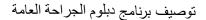




- 2. a.1.Describe the metabolic response to injury.
- 2. a.2.discuss different types of shock.
- 2.a.3. Explain indications of blood transfusion.
- 2.a.4. state complications of blood transfusion.
- 2.a.5 Flashlight on normal wound healing
- 2.a.6 Enumerate different abdominal incisions.
- 2.a.7 Outline the indications ,types and complications of drain insertion.
- 2.a.8 Discuss principles of anastomosis.
- 2.a.9 Discuss the risk factors for wound infection.
- 2.a.10 Flashlight on mis-use of antibiotics.
- 2.a.11 Define SSI and MODS.
- 2.a.12 Outline the principles of pediatric surgery .
- 2.a.13 Define NOTES.
- 2.a.14 State the importance of patient safety during surgical practice.
- 2.a.15 Discuss principles of diagnostic imaging techniques, advantages and disadvantages.
- 2.a.16 Flashlight on role of ultra-sonography, CT, MRI in trauma ,bone, soft tissue and common surgical clinical disease imaging.
- 2.a.17 Outline diagnostic and therapeutic role of GIT endoscopy.
- 2.a.18 Outline principles and benefits of tissue diagnosis.
- 2.a.19 Discuss pre-operative preparation of patient.
- 2.a.20 Enumerate causes of malnutrition.
- 2.a.21 Explain physiology of cerebral blood flow.
- 2.a.22 Enumerate different types and pathology of spinal injury.
- 2.a.23 Define abdominal compartmental syndrome..
- 2.a.24 Outline principles of fracture management.
- 2.a.25 Explain methods of calculation of fluid therapy in management of burn..
- 2.a.26.List deformities of musculoskeletal systems
- 2.a.27 explain causes of dysphagia and how to manage.
- 2.a.28 Enumerate disorders of salivary glands.
- 2.a.29Describe development and anatomy of thyroid and parathyroid glands
- 2.a.30 outline the pathway for clinical diagnosis of patient presenting with abdominal complaint.
- 2.a.31 List types of hernias and how to classify.
- 2.a.32. Describe anatomy and physiology of upper and lower GIT organs.
- 2.a.33 List types of esophageal perforations and motility disorders.
- 2.a.34. Flashlight on bariatric surgery outcome and complications
- 2.a.35. Explain management of pancreatitis.
- 2.a.36.Enumerate risk factors and hereditary disorders that predispose to colorectal caner
- 2.a.37. Enumerate causes of painful anal conditions and how to manage.
- 2.a.38. List tumors of genitourinary systems.
- 2.a.39. Flashlight on BPH and cancer prostate and how to manage.
- 2.a.40. Flashlight on principles of organs transplantation.
- 2.a.41 List various types of venous disorders and their complications .
- 2.a.42 Discuss surgical audit.

أ- المعلومات و المفاهيم :



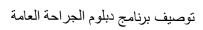




- 2.b.1 Classify wounds as regard types, wound closure and healing.
- 2.b.2 Asses a case of contracture ,hypertrophic scar or keloid.
- 2.b.3 Identify different types of tissue repair.
- 2.b.4 Select surgical incisions according to langer's lines.
- 2.b.5 Select the suitable suture material.
- 2.b.6 Classify wound infection according to sources and severity.
- 2.b.7 Estimate the principles of antibiotic use and spectrum.
- 2.b.8 Demonstrate different congenital malformations.
- 2.b.9 Formulate informed consent and surgical ethics.
- 2.b.10 Interpret different imaging methods and proper diagnosis of surgical diseases.
- 2.b.11 Estimate methods of providence nutritional supports...
- 2.b.12 Asses the priority of patient in early management of trauma.
- 2.b.13 Identify principles of triage.
- 2.b.14 Demonstrate primary and secondary survey of poly-traumatized patient.
- 2.b.15 Interpret physiology of cerebral blood flow and pathology of raised intra-cranial tension.
- 2.b.16 Identify types of cerebral injury and different surgical aspects.
- 2.b.17 Classify facial fractures.
- 2.b.18 Evaluate thoracic and abdominal injury as liver and spleen trauma and indications of thoracotomy and abdominal exploration.
- 2.b.19 Classify fractures of extremities.
- 2.b.20 Asses area and depth of burn.
- 2.b.21 Classify skin flaps.
- 2.b.22. Classify musculoskeletal, cutaneous and subcutaneous tumors and swellings and how to manage.
- 2.b.23. Evaluate breast mass and how to manage.
- 2.b.24. Classify pancreatic cysts and pancreatic neoplasm.
- 2.b.25. Analyze hepato-billiary disorders and how to manage.
- 2.b.26. Classify complications of splenectomy and list benefits of conservative splenectomy.
- 2.b.27. Classify liver and splenic swellings.
- 2.b.28 Plan management of appendicitis and appendicular tumors.
- 2.b.29 .Plan for managements of genitor-urinary stones.
- 2.b.30 Demonstrate methods of pain relief and different types of anesthesia.

ب- المهارات الذهنبة:







2.c.1. Manage a case of shocked patient. 2.c.2. Apply different types of sutures. 2.c.3. Perform different anastomoses either bowel as in low anterior resections or vascular. 2.c.4. Diagnose a case of anastomotic leak. 2.c.5 Show techniques of endoscopic use either upper GIT endoscopy or colonoscopy. 2.c.6 Manage post-operative complications. 2.c.7 Plan the selection criteria of day case surgery. 2.c.8 Examine trauma patient and initial resuscitation. 2.c.9 Perform necessary protocols for early stabilization of patients. 2.c.10 Manage a case of head trauma. 2.c.11 Plan for prevention of brain injury.
2.c.3. Perform different anastomoses either bowel as in low anterior resections or vascular. 2.c.4. Diagnose a case of anastomotic leak. 2.c.5 Show techniques of endoscopic use either upper GIT endoscopy or colonoscopy. 2.c.6 Manage post-operative complications. 2.c.7 Plan the selection criteria of day case surgery. 2.c.8 Examine trauma patient and initial resuscitation. 2.c.9 Perform necessary protocols for early stabilization of patients. 2.c.10 Manage a case of head trauma.
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<ul> <li>2.c.4. Diagnose a case of anastomotic leak.</li> <li>2.c.5 Show techniques of endoscopic use either upper GIT endoscopy or colonoscopy.</li> <li>2.c.6 Manage post-operative complications.</li> <li>2.c.7 Plan the selection criteria of day case surgery.</li> <li>2.c.8 Examine trauma patient and initial resuscitation.</li> <li>2.c.9 Perform necessary protocols for early stabilization of patients.</li> <li>2.c.10 Manage a case of head trauma.</li> </ul>
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<ul><li>2.c.9 Perform necessary protocols for early stabilization of patients.</li><li>2.c.10 Manage a case of head trauma.</li></ul>
2.c.10 Manage a case of head trauma.
2 c 11 Plan for prevention of brain injury
2.0.11 Fian for prevention of train injury.
2.c.12 Examine a patient with facial injury.
2.c.13 Perform different techniques of burn treatment.
2.c.14 Plan for management of tissue loss.
2.c.15. Examine different systems and organs of the body.
2.c.16. Diagnose different types of bone and joint infection.
2.c.17. Manage acute and chronic limb ischemia.
2.c.18. Manage lymphoma and role of chemotherapy, radiotherapy and immunotherapy
in treatment.
2.c.19. Diagnose gastric cancer and analyze the outcome of surgical intervention.
2.c.20. Manage of inflammatory bowel disease, their complications and their impact on
life.
2.c.21. Manage coronary heart diseases.
2.d.1. Instruct patients about the principles of diathermy, legasure and harmonic.
2.d.2 communicate effectively with physicians, pathologists ,radiologists and : العامة
microbiologist for proper diagnosis of surgical diseases in tropics as amebiasis, hydatid
, T.B enteritis and tropical chronic pancreatitis.
2.d.3 Develop knowledge of pediatric oncology.
2.d.4 Develop the ability of screening and early detection of cancer as breast ,gastric
and esophageal cancer.
2.d.5 Lead a work team for better diagnosis and management of malignancy.
2.d.6 Exercise on practical application of surgery.
2.d.7 Develop good working relationship and close collaboration with radiology
department for proper use of diagnostic imaging in surgical practice.
2.d.8 Use of different types of skin grafts and flaps.
2.d.9. Communicate efficiently with the patient and learn how to take full history.
2.d.10 Instruct patient about the importance of self –breast examination.





Subject	Lectur es (hrs)	Small group discuss	Practic al (hrs)	Total (hrs)	% of Total	٣- محتوى المقرر:
SURGICAL PRINCIPLES The metabolic response to injury Shock and blood transfusion Wounds, tissue repair and scars Basic surgical skills and anastomoses Surgical Infection Surgery in the tropics Principles of laparoscopic surgery Principles of paediatric surgery Principles of oncology Surgical audit and research Surgical ethics and law Patient safety	10hr	10hr	30hr	50hr	8.3%	
INVESTIGATION AND DIAGNOSIS Diagnostic imaging Gastrointestinal endoscopy Tissue diagnosis	5hr.	5hr.	15hr	25hr	4.2%	
PERIOPERATIVE CARE Preoperative preparation Anaesthesia and pain relief Care in the operating room Perioperative management Nutrition and fluid therapy Postoperative care Day Case Surgery	10hr	10hr	30hr	50hr	8.3%	
TRAUMA Introduction to trauma Early assessment and management of trauma Emergency neurosurgery Neck and spine Extremity trauma Burns Plastic and reconstructive surgery	12hr	12hr	36hr	60hr	10%	
ELECTIVE ORTHOPAEDICS History taking and clinical examination in musculoskeletal disease The spine Upper limb - pathology, assessment and management	10hr	10hr	30hr	50hr	8.3%	





HEAD AND NECK Cleft lip and palate: developmental abnormalities of the face, mouth and jaws Pharynx and neck Oropharyngeal cancer Disorders of the salivary glands	10hr	10hr	30hr	50hr	8.3%
BREAST AND ENDOCRINE The thyroid and parathyroid glands The adrenal glands and other abdominal endocrine disorders The breast	10hr	10hr	30hr	50hr	8.3%
CARDIOTHORACIC	3hr	3hr	9hr	15hr	2.5%
Cardiac surgery VASCULAR					
Arterial disorders Venous disorders Lymphatic disorders	12hr	12hr	36hr	60hr	10%
ABDOMINAL History and examination of the abdomen Abdominal wall, hernia and umbilicus The peritoneum, omentum, mesentery and retroperitoneal space The oesophagus Stomach and duodenum Bariatric surgery The liver The spleen The gall bladder and bile ducts The pancreas The small and large intestines Intestinal obstruction The vermiform appendix The rectum The anus and anal canal	20hr	20hr	60hr	100hr	16.7%
GENITOURINARY Urinary symptoms and investigations The kidneys and ureters The urinary bladder The prostate and seminal vesicles The urethra and penis Testis and scrotum	10hr	10hr	30hr	50hr	8.3%





1- Modified Lectures(Group discussion- Problem solving- Brain storming)	٤ ـ أساليب التعليم والتعلم
2- Tutorial	والتعلم
3- Seminars	
4- Clinical and practical lessons	
5- Field training in university hospitals	
6- Attending the department scientific conference, workshops and thesis discussion	
	٥- أساليب التعليم
لا ينطبق	<ul><li>٥- أساليب التعليم</li><li>والتعلم للطلاب ذوى</li></ul>
	القدرات المحدودة
	القدرات المحدودة 7- تقويم الطلاب: أ- الأساليب
1- Written exams	أ- الأساليب
2- Oral exams	المستخدمة
3- Practical and clinical	
exams	
At end of the third term	ب- التوقيت
• Written exam 350 (2 papers)	جــ توزيع الدرجات
• Oral exam 175	
Practical and clinical exams 175	
ية والمراجع :	٧- قائمة الكتب الدراس
I activing notes	أ د ذكر ات
Lectures notes	أ- مذكرات
• Essential books (text books)	ب- كتب ملزمة
- Bailey& Love's practice of Surgery, 2013.	
26 <sup>th</sup> ed. By Norman S. Williams, Curistopher J. K bulstrode and P. Ronan	
O'Connell, CRC press.	
Recommended books:	جـ- كتب مقترحة
- Essential General surgical operations, 2007.	
2 <sup>nd</sup> ed. By R. M. Kirk and marc C. Winslet, Churchill Livingstone.	
Current Medical Diagnosis & Treatment, 2013.	
54 <sup>th</sup> ed. By Maxine papadakis, stephen J. Mcphee and Michael w. Rabow, McGraw	
Hill Medical.	
Clinical surgery, 2012.	
3 <sup>rd</sup> ed. By Michael M. Henry and Jeremy N. Thompson, Saunders.	
Sabiston text book of surgery: The biological basis of modern surgical practice,	
2012.	
19 <sup>th</sup> ed. By Courtney M. Townsend, R. David Beauchamp, b. Mark Evers and	
Kenneth L. Mattox, Saunders.	
www.general.surgery.ucsf.edu, www.gsasa.com	د ــ دوريات علمية
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رئیس مجلس القسم: ١د/ محمد مختار الشهاوی تاریخ مجلس القسم: ٢٠١٣/٩/٤