



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

#### A- Basic information

- 1- Name of the program: Master 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 met- with- 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 essential for establishing & maintaining good doctor/patient relationship.





- 3. **Teach** students communication skills necessary for proper evaluation and management of health problems related to surgery.
- 4. **Apply** analytical and critical methods for appraisal of knowledge in the field of general surgery.
- 5. **Upgrade** students' abilities in Diagnostic & therapeutic protocols of surgical diseases and emergencies; as well as problem solving and decision making.
- 6. **Encourage** work in team as a member or leader and increase ability of management of scientific meetings.
- 7. **Appropriate** ethical and professional education necessary for demonstrating appropriate attitudes with colleagues which reflects integrity and sincerity.
- 8. **Provide** Lifelong learning competencies necessary for continuous professional development.
- 9. **Determine** professional problems and propose creative solutions to address them.
- 10. **Show** awareness of his role in community development and environmental preservation.
- 11. **Employ** available resources, develop them and find new resources.
- 12. **Teach** students all basic and specialized surgical skills and use the technological tools to improve their surgical practice.
- 13. **Make** students understand the physical signs and how to detect these signs.
- 14. **Teach** students the methodology of data collection and how to make a medical research.

#### **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. Discuss** the best methods of treatments and the perfect time for surgical intervention.
- **2.a.5.** *Identify* the basics of ethics, medico- legal aspects of health problems, malpractice and common medical errors.
- **2.a.6.** Explain the impact of general surgery on environmental preservation.
- **2.a.** 7 **Recognize** the principles and methods of scientific research.
- **2.a.8 Recognize** the principles and methods of quality in professional practice of general surgery.
- **2.a.9 Recognize** the basic pre- and post-operative care as pain relief and palliative care.
- **2.a.10 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 problem.
- **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 Asses** risks in professional practice.
- 2.b.4. Construct a diagnostic hypothesis.
- **2.b.5.** *Correlate* the application of medical statistics for collecting, presenting, analyzing and interpreting medical data precisely.
- **2.b.6.** *Interpret* patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances and the use of these data for appropriate management.
- **2.b.7.** *Solve* the diagnosis by appropriate instrumental& radiological and laboratory tests.
- **2.b.8.** *Construct* the clinical and investigational database to be proficient in clinical problem solving.





- **2.b.9**. **Classify** factors that place individuals at risk for disease or injury, to determine strategies for appropriate response.
- **2.b.10. Design** an initial course of management for stabilization of patients with serious illnesses.
- **2.b.11**. *Establish* lifelong learning in order to be able to retrieve, analyze, link,and evaluate relevant and current data from literature, using information technologies and library resources, in order to help writing a medical thesis and solving a clinical problem based on evidence (EBM).
- **2.b.12**. **Select** the patient who needs an operation.
- **2.b.13. Balance** the advantages and disadvantages of different surgical 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; Take a complete or focused history taking. Assess the mental state of the patient;Write a management plan for common diseases and acute emergencies.
- 2.c.2. Write and evaluate medical and medico-legal reports professionally.
- **2.c.3. Perform** routine technical and surgical procedures both diagnostic and therapeutic, **Identify** the principles of sterile techniques and infection control, **Perform** venipuncture and collect blood samples, **Insert** a cannula into peripheral veins, **Give** intramuscular, subcutaneous, intradermal and intravenous injections, and **apply** suturing of superficial wounds, **Demonstrate** competency in cardiopulmonary resuscitation and basic lifesupport, **Insert** a nasogastric tube and **Perform** bladder catheterization.

#### 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 socioeconomic 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 team in different professional situations.
- 2.d.10 Establish standards and indicators for assessing the performance of surgical personnel.

#### 3- Academic Standards:

٣ ـ المعايير الأكاديمية للبرنامج:

 Academic Standards of Master Program of General Surgery, approved in department council June, 2013 and in faculty council September 354, June 2013. (ملحق ۱)

#### 4- Reference standards (benchmarks)

4 - العلامات المرجعية:

• Academic reference standards (ARS), Master Program (March **2009,** which were issued by the National Authority for Quality Assurance & Accreditation for Education. NAQAAE (۱۸ ملحق)

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

- a) Program duration: 7 years
  - ↓ 1<sup>st</sup> part: One Semester (6 months).

     ↓ 2<sup>nd</sup> part: Two Semester (1 year).

  - **Thesis:** One Semester (6 months).







#### b) Program structure

• Total hours of program 40 credit hours

Theoretical: 25 credit hoursPractical: 15 credit hours

• University and faculty requirements: 6

• Logbook: 5

c) Levels and courses of the program:

0) = 0 + 0 = 0	ind courses of the	• F- • 8- · · · · ·	
الساعات	الكود	المقررات	البند
المعتمدة			
٦ ساعات	UNIV 601	للجامعة والكلية	متطلبات
۹ ساعات		يشمل الآتي:	الجزء الأول
۲ ساعة	SURG 601	مقرر علمي في الفسيولوجيا والكيمياء الحيوية	
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	
٦ ساعات			رسالة
			ماجستير
٤٠ ساعة			الإجمالي

#### First part (one semester):

#### a- Compulsory courses:

Course Title	Course	NO. of T	Teaching hour	s per week	Total teaching
	Code				hours/ One
		Theoretical	practical	Total/W	Semester
Physiology and Biochemistry	SURG 601	2		2	30
Anatomy Histology and Embryology	SURG 602	2		2	30
pathology	SURG 603	1.5	0.5	2	45
Microbiology	SURG 604	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		eaching hours	per week Total/ Week	Total teaching hours / 2 semesters
General surgery and its branches	SURG 606	8	4	12	12
Surgical Pathology	SURG 607	1.5	0.5	2	2
Total					

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 - متطلبات الإلتحاق بالبرنامج:

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

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





- ب- يسمح للحاصل على الدبلوم وفقا لنظام هذه اللائحة وبتقدير جيد على الأقل بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم وبغض النظر على تقديره في درجة البكالوريوس.
  - ت- يسمح للحاصل على الدبلوم وعلى خلاف لنظام هذه اللائحة أن يسجل لدرجة الماجستير بشرط أن يكون تقديره في الدبلوم لا يقل عن جيد وبغض النظر عن تقديره في البكالوريوس.
    - (٢) أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز)
    - (٣) أن يتفرغ للدراسة لمدة سنة على الأقل في الجزء الثاني (فصلين دراسيين)

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

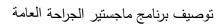
### ٧-القواعد المنظمة لإستكمال البرنامج: (طبقاً لما هو مذكور في اللائحة)

مادة (٦): تتولى لجنة الدراسات العليا بالكلية عن طريق لجنة تشكل لكل تخصص من أعضاء مجلس القسم التابع له المادة والقسم المانح للدرجة وضع البرنامج التفصيلي للمقررات في حدود الساعات المعتمدة الواردة باللائحة وعند الاختلاف يتم الاسترشاد بمقررات جامعة القاهرة ومقررات الشهادات العالمية الاوربية والامريكية يعتمدها مجالس الأقسام ثم يقرها مجلس الكلية وتشمل هذه الساعات محاضرات نظرية ودروس عملية وتدريب الكلينيكي و محاضرات وندوات مشتركة.

- مادة (٧): يشترط في الطالب لنيل درجة ماجستير التخصص في أحد الفروع الاكلينيكية والعلوم الطبية الأساسية:
- أ- حضور المقررات الدراسية والتدريبات الاكلينيكية والعملية والمعملية بصفة مرضية طبقا للساعات المعتمدة.
- ب- أن يقوم بالعمل كطبيب مقيم أصلى أو زائر لمدة سنة على الأقل في قسم التخصص بالنسبة للعلوم الاكلينيكية.
  - ت- أن ينجح في امتحان القسمين الأول والثاني.
  - ث- اجتياز الطلب لثلاث دورات في الحاسب الآلي (دورة في مقدمة الحاسب دورة تدريبية متوسطة دورة في تطبيقات الحاسب الآلي) وذلك قبل مناقشة الرسالة.
    - ج- اجتياز اختبار التويفل بمستوى لايقل عن ٤٠٠ وحدة وذلك قبل مناقشة الرسالة.

أن يقوم باعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهي باعداد رسالة تقبلها لجنة التحكيم.







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

مخرجات التعلم المستهدفة	الوسيلة	م
To assess knowledge and	Written examination	1
understanding & intellectual skills:	(including case study)	1
2.a.12.a.10, 2.b.12.b.13		
To assess knowledge and	Oral examination	•
understanding, intellectual skills &		2
General & transferable skills		
2.a.12.a.10, 2.b.12.b.13,		
2.d.12.d.10		
To assess knowledge and	Practical & clinical	
understanding, intellectual skills &	examination	3
General & transferable skills&		
practical and clinical skills:		
2.a.12.a.10, 2.b.12.b.13,		
2.d.12.d.10, 2.a.12.a.10,		
2.c.12.c.3		
To assess knowledge and	MCQ examination	
understanding, intellectual skills:		4
2.a.12.a.10, 2.b.12.b.13		

## Final exam.

## First part

		جة	السدرج			
إجمالي	إكلينيكي	عملي	شفهي	تحريري	الاختبار	المقرر
0.			0	0	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	فارماكولوجى
۲.,			Y 0+V 0	Y 0+V 0		التشريح الجراحي والهستولوجي والنمو الجنيني
10.		70	٥.	٧٥		الباثولوجيا الجراحية العامة
٥,		١.	10	40		البكتريولوجيا
10.			Yo+0.	Yo+0.		الفسيولوجيا والكيمياء الحيوية
٦.,						إجمالي الدرجة







## Second part

إجمالي		Ĭ	الحر		الاحتيار	11 يودر
<i>र्थं</i> गावरं/	ريلمذ	اعلينيك	ৰ্থিকয়য়	تعريري	Jugar	المجرر
			+ « <u>و منه به</u> + « <u>و کینیا ک</u> إ « بیلمد	1V6 + 1V6	اختباران تحریریان محة کل منهما ثلایه ساعات + اختبار هنهی + اختبار ایماینیکی	الجراحة العامة وفروعما
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 جمال السيد صالح التاريخ: 14/8/2013







#### الملحقات:

ملحق ۱: Academic standard of the program

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

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 ه: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق ٦: توصيف المقررات





## ملحق ۱: Academic Reference for Master Degree in طحق ۱: ملحق General surgery

### 1. Attributes of gratitude.

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

- **1.1. Demonstrate** excellence in applications of the principles and methodologies of medical scientific research and the use of the available tools to apply it in the field of general surgery.
- **1.2. Apply** analytical and critical methodology for the appraisal of knowledge in the field of general surgery and its specialties
- **1.3. Apply** and Integrate specialized and related surgical knowledge, including all physical signs, to clinical and surgical practice
- **1.4. Show** deep awareness of current and recent surgical problems and new surgical concepts in the field of general surgery
- **1.5. Determine** general surgical problems and propose creative solutions to address them
- **1.6. Practice** all basic and specialized surgical skills and the use of technological tools to serve his surgical practice
- **1.7. Able** to lead work teams in different surgical situations and Communicate effectively with all members and other categories for achieving a proper doctor- patient relationship.
- **1.8. Make** the suitable decisions in the light of available and acquired information and different context of general surgical practice.
- **1.9. Employ** available resources effectively, develop them and work to find new resources to achieve high benefit and keep this benefit during surgical practice
- **1.10. Do** his role in community development and preservation of environment in the light of world and regional changes
- **1.11. Commit** integrity, sincerity and follow the ethical roles of medical practice (in general) and roles of general surgical practice.
- **1.12. Commit** continuous 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:

2.1.1. **Understand** and **memorize** all the theories, fundamental and new knowledge in anatomy, histology, pathology, and surgery of the disease





- **2.1.2.** *Demonstrate* the mutual influence between general surgical practice and its impact on the environment.
- **2.1.3. Demonstrate** the basics of ethics, medico- legal aspects of health problems, malpractice and common medical errors.
- **2.1.4. Recognize** the principles and methods of quality in the field of the general surgery.
- **2.1.5.** *Recognize* the principles and methods of scientific research.
- 2.1.6. Highlights on the scientific development in the field of the general surgery.

#### 2.2. Intellectual skills.

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

- **2.2.1.** *Identify, Analyze and assess* information in the field of general surgery and apply this information in problem solving
- **2.2.2.** Solve specialized surgical problems in absence of complete data based on available information
- **2.2.3.** Conduct surgical research study and write scientific thesis about specific surgical problems.
- **2.2.4.** *Link* between knowledge of different surgical specialties and interpret it to solve surgical problems.
- **2.2.5.** Assess risk of transmitted disease its complications and risks that may encountered during surgical procedures
- **2.2.6. Plan** for the development of performance in the clinical and operative field
- **2.2.7. Make** decisions either surgical or conservative during dealing with patients

#### 2.3. Practical/Professional skills

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

- **2.3.1. Perform** effectively all fundamental and recent surgical skills.
- **2.3.2. Write,** and evaluate all medical, medico legal and patients follow up reports.
- **2.3.3. Evaluate** established surgical methods and tools in the field of general surgery.

#### 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 of his personal needs
- 2.4.4 Use different resources for surgical information and knowledge retrieval
- 2.4.5 **Develop** standards and indicators for assessing the performance of others
- 2.4.6 **Work** effectively in a surgical team as leader or member in various surgical situations.
- 2.4.7 **Manage** scientific surgical meetings and manage time effectively.
- 2.4.8 **Demonstrate** independent and continuous learning.

اعتماد مجلس القسم بتاريخ 6/2013

رئيس مجلس القسم اد/ محمد محتار الشمامي

اعتماد مجلس الكلية

16/6/2013





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

#### ١ موصفات الخريج

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

- ١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
  - ١-٢ تطبيق المنهج التحليلي واستخدامه في مجال التخصص
- ١-٣ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في مماسته المهنية
  - ١-٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
    - ١-٥ تحديد المشكلات المهنية وإيجاد حلول لها
- ١-٦ إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية
   المناسبة بما يخدم ممارسته المهنية
  - ١-٧ التوصل بفاعلية والقدرة على قيادة فرق العمل
    - ١-٨ اتخاذ القرار في سياقات مهنية مختلفة
  - ١-٩ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
- 1--۱ إظهار الوعى بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
  - ١-١١ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
    - ١ ٢ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

#### -2 - المعايير القياسية العامة

#### ٢ - ١ المعرفة والفهم:

بأنتهاء دراسة برنامج الماجيستير يجب ان يكون الخريج على فهم ودراية بكل من:

- ٢-١-١ النظريات والآساسيات المتعلقة بمجال التعلم وكذًا في المجالات ذات العلاقة
  - ٢-١-٢- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
    - ٢-١-٣ التطورات العلمية في مجال التخصص
  - ٢-١-٤ المبادئ الإخلاقية والقانونية للممارسة المهنية في مجال التخصص
  - ١-١-٥ مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص
    - ٢-١-٦ اساسيات واخلاقيات البحث العلمي

#### ٢-٢ المهارات الذهنية:

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

- ٢-٢-١ تحليل وتقيم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
  - ٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
    - ٢-٢-٣ الربط بين المعارف المختلفة لحل المشاكل المهنية
  - ٢-٢-؛ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
    - ٢-٢- تقييم المخاطر في الممارسات المهنية في مجال التخصص





٢-٢-٦ التخطيط لتطوير الاداء في مجال التخصص

٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية متنوعة

٢-٣ المهارات المهنية

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٣-١ اتقان المهارات المهنية الإساسية والحديثة في مجال التخصص

٢-٣-٢ كتابة وتقييم التقارير المهنية

٣-٣-٢ تقييم الطرق والادوات القائمة في مجال التخصص

#### ٢-٤ المهارات العامة والمنتقلة:

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٤-١ التواصل الفعال بأنواعة المختلفة

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

٢-٤-٣ التقييم الذاتي وتحديد احتياجاته التعليمية

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

٢-٤-٥ وضع قواعد ومؤشرات تقييم اداء الاخارين

٢-٤-٢ العمل في فريق سياقات كهنية مختلفة

٢-٤-٧ ادارة الوقت بكفاءة

٢-٤-٨ التعلم الذاتي والمستمر

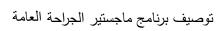




## ملحق ٣: مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الماجستير مع المعايير الأكاديمية المتبناة لبرنامج ماجستير الجراحة العامة

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عايير الأكاديم ، :	مواصفات	المعارف	المهارات		المهارات
القياسية	الخريج	والفهم	الذهنية	المهارات المهنية	العامة
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2.1.6		2.1.6			
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΄, ξ, Λ					۲,٤,٨











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

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

					,									
rses & codes	Con		LOs	Ι				ding	derstan	dge & Un	Knowle			
Courses	V				2.a.1	2.a.2	2.a.3	2.a.4	2.a.5	2.a.6	2.a.7	2.a.8	2.a.9	2.a.10
iology and Biochemistry	Phys	G 601	SUR		*									
istology and Embryology	Anatomy H	G 602	SUR		*									
pathology		G 603	SUR		*		*				*			
Microbiology		G 604	SUR		*		*				*			
surgery and its branches	General	G 606	SUR		*	*	*	*	*	*	*	*	*	*
Surgical Pathology		G 607	SUR		*		*				*			
Courses & codes Courses	ILOs	2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.b.6	<b>2.b.7</b>	Intellection 2.b.8		2.b.10	2.b.11	2.b.12	2.b.13
Physiology and Biochemistry	SURG 601					*	*	*						
Anatomy Histology and Embryology	SURG 602				*	*	*							
pathology	SURG 603	*		*	*	*	*	*		*				
Microbiology	SURG 604	*		*	*	*	*	*		*				
General surgery and its	SURG 606	*	*	*	*	*	*	*	*	*	*	*	*	*
Surgical Pathology	SURG 607	*		*	*	*	*	*		*				





	Prac	tical &	& Pro	ofessi	onal	Skills	}	ILOs	
					2.c.3	2.c.2	2.c.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 branches
					*	*		SURG 607	Surgical Pathology

	ILOs				General and transferable									
Courses & codes	Courses & codes			2.d.3	2.d.4	2.d.5	2.d.6	2.d.7	2.d.8	2.d.9	2.d.10			
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	*		*			*	*						





## 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 لماجستير الجراحة العامة

	بيانات المقرر
اسم المقرر: الهستولوجي والنمو الجنيني مجستير جزء أول	الرمز الكود <i>ي</i> : SURG 602
عدد الوحدات الدراسية: نظري 1 credit hour	التخصص : ماجستير 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:
تريس المقدر :	۲- المستعدف من

٢- المستهدف من تدريس المقرر:

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	أ- 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.	
2.a.7. Discuss general features, structure of cardiac muscle putting in	1
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. Flash light on</b> histological structure of the heart.	
2.b.1. Recall 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.	
2.b.6. Select histological structure and function of granular and	
non granular leucocytes.	
<b>2.b.7. Analyze</b> General features, structure, types, development and	
ossification of bone tissue.	
<b>2.b.8. Interpret</b> myelination of CNS, PNS & types and structure	
of ganglia, synapses, neuralgia, regeneration and degeneration of	
neurons.	
non one.	





<b>2.c.1</b> . <b>Show</b> examples and sites of different epithelial tissues.	جــ المهارات
2.c.2. Write report on types of connective tissue proper and sites.	جـ المهارات المهنية الخاصة
<b>2.c.3. Master</b> general features, types, organization, functional ultra	بالمقرر :
structure of myofibrils& sarcomere, molecular structure of actin and	بالمقرر:
myosin, muscle contraction, innervations of skeletal muscle.	
<b>2.c.4</b> . <b>Write report on</b> kidneys, ureters, urinary bladder, male & female urethera.	
<b>2.c.5</b> . <b>Evaluate</b> the digestive tube regarding general features (esophagus, stomach, small intestine, large intestine, appendix, rectum and anal canal.	
<b>2.c.6</b> . <b>Diagnose</b> general structure, histological structure and function of arteries, veins and specialized types.	
<b>2.c.7</b> . <b>Perform</b> study on histological features, types of cartilage cells,	
fibres and matrix.	
<b>2.d.1</b> . <b>Instruct</b> study on modification of epithelial cell surfaces.	د - المهارات
<b>2.d.2. Work</b> a study on general structure, innervations, contraction of smooth muscles.	العامة :
<b>2.d.3. Develop</b> comparative study of three types of muscles and growth, regenerative ability of muscular tissue.	
2.d.4. Lead a study on endocrine system.	
<b>2.d.5.</b> Exercise study on structure, distribution of lymphoid tissue and vessels in addition to phagocytes and antigen presenting cells that are involves in immune system.	
2.d.6. Lead study on types, structure of nerve endings.	
<b>2.d.7.</b> Use study on arteriovenous connections regarding histological structure and functions.	
<b>2.d.8. Develop</b> recent studies on pancreas, liver and gall bladder regarding histological features.	





SUBJECT	Lectures(hrs)	Total(hrs)	%of total	٣- محتوي
Cytology (human body cells, cytoplasmic organelles, inclusions, nucleus, DNA, RNA, cell death)	1 hr.	1 hr.	6.7%	٣- محتوى المقرر:
<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%	
Urinary system (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, neuro-endocrine 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%	
<ol> <li>Modified Lectures</li> <li>Tutorial</li> <li>Seminars</li> </ol>				٤- أساليب التعليم والتعلم
	لا ينطبق			<ul> <li>أساليب التعليم</li> <li>والتعلم للطلاب ذوى</li> <li>القدرات المحدودة</li> </ul>
				٦ ـ تقو بم الطــلاب :





1. Written exams	أ- الأساليب المستخدمة
2. Oral exams	المستخدمة
At and of the first towns	ب- التوقيت
At end of the first term	
Written exam 25	جــ توزيع الدرجات
• Oral exam 25	الدرجات
البدية والمداحون	٧- قائمة الكتب الدر
راسيه والمراجع .	
Lectures notes	أ- مذكرات
Essential books (text books)	ب- كتب ملزمة
- Department book	
- Junqueira`s Basic Histology: Text and Atlas, 2013	
13 <sup>th</sup> ed. By Anthony Mescher, McGraw Hill Medical	
D 111 1	7
• Recommended books:	جـ- 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 Woodford, Churchill Livinggstone.	
- Histology: A Text and Atlas with correlated cell and molecular	
Biology, 2010	
6 <sup>th</sup> ed. By Miichael H. Ross and Wojciech Pawlina, Lippincott	
Williams and Wilkins.	
THE THE THE TENTES.	
www.medscape.com.	د ــ دوريات
www.pubmed.com.	د ــ دوريات علمية أو نشرات
www.emedicine.com/maint/cme.asp.	
www.science direct.com.	

رئيس مجلس القسم: اد/ اميمة كامل تاريخ مجلس القسم: ٢٠١٣/٩/٨





جامعة بنها كلية الطب البشرى قسم التشريح الادمى وعلم الاجنة

## توصيف مقرر التشريح الجراحي لماجستير الجراحة العامة

		يانات المقرر
الفرقة / المستوى : ماجستير جزء أول	اسم المقرر: التشريح الجراحي	الرمز الكود <i>ي</i> : SURG 602
1	عدد الوحدات الدراسية: نظري credit hour	تخصص : اجستير الجراحة عامة
To have fair knowledge about	at the anatomy of different organs for	ـ هدف
efficient surgical practice.		المقرر:
• To make the student able	to imagine the surface anatomy of	
different body structure impor	tant for surgical application.	
• To know the basics of surgica		
	is of the different body organs and the	
emergence of various congent	tai anomanes.	
	تدريس المقرر:	- المستهدف من

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





<b>2.a.1 Describe</b> the morphology , location ,vasculature , innervations &	أ- المعلومات
relations of different parts of human body.	والمفاهيم :
<b>2.a.2 Flash light</b> the embryogenesis of different anatomical structures.	
2.a.3 Enumerate the anatomy of the branchial remnants	
2.a.4 State the anatomic complications of different surgical operations	
<b>2.a.5 Outline</b> the anatomical principles of different surgical operations.	
<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 anatomical	
components.	
2.a.8 Describe the details of surgical & applied anatomy.	
<b>2.a.9 Discuss</b> the surface anatomy of the visible and deeper structures	
of the body.	
2.b.1 Classify different types of abdominal wall and internal hernias	ب- المهارات
2.b.2 Estimate the complications of different surgical operations	ب- المهارات الذهنية:
2.b.3 Evaluate the impact of perihepatic collections	. ५
2.b.4 Demonstrate the anatomy of retroperitoneal structures	
2.b.5 Link between the anatomy of urogenital diaphragm and its	
congenital anomalies	
2.b.6 identify the surgical anatomy of omenta and omental bursa	
<b>2.c.1 Apply</b> the science of embryology on the development of various congenital anomalies	جــ المهارات المهنية الخاصة
2.c.2 Show the difference between the types of hernia	المهنية الخاصة
2.c.3 Perform an imagination about the anatomical layers have to be	
opened in different abdominal incisions	بالمقرر:
<b>2.c.4 Evaluate</b> the pelvic floor dysfunction and its effects.	
<b>2.d.1. Use</b> the basic science of anatomy for understanding different surgical diseases.	د - المهارات العامة :
<b>2.d.2. Develop</b> a colored atlas showing different anatomical structures	
2.d.3. Exercise on simple drawing of surface anatomy diagrams	
<b>2.d.4. Perform</b> information by all means, including electronic means.	
2.2 C. C	

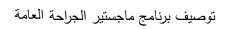




٣- محتوىالمقرر:

Subject	Lectures (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%
Breast 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%
Diaphragm 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 AnatomyAnatomic Complications of Abdominal Incisions Hernias of the Abdominal Wall and Surgical Treatment Anatomic Complications of Hernia Repair	2 hr.	2 hr.	13.3%

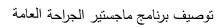






Peritoneum, Omenta, and Internal Hernias Embryogenesis and congenital anomalies Surgical and Applied Anatomyof the Peritoneum Surgical Anatomy of the Omenta and the Omental Bursa Perihepatic Collections Internal Abdominal Hernias Anatomic Complications Involving the Peritoneum and Omenta	1 hr.	1 hr.	6.7%
Retroperitoneum Embryogenesis and congenital anomalies Surgical and Applied Anatomy Great Vessels in the Abdomen Abdominal Aorta Inferior Vena Cava	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 Anorectum	2 hr.	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 Cord Ductus Deferens (Vas) Potential Spaces above the Urogenital Diaphragm Scrotum Seminal Vesicles Ejaculatory Ducts Prostate Bulbourethral Glands of William Cowper Potential Spaces under the Urogenital Diaphragm Male Urethra Penis	1 hr.	1 hr.	6.7%	
Pelvis and Perineum Pelvic floor and its dysfunction	1 hr.	1 hr.	6.7%	
<ol> <li>Modified Lectures</li> <li>Tutorial</li> <li>Seminars</li> </ol>			· · · · · · · · ·	٤ - أساليب التعليم والتعلم





	<b>.</b>	٥- أساليب التعليم
	لا ينطبق	والتعلم للطلاب ذوى
		القدرات المحدودة ٦- تقويم الطلاب
		ا - تقويم الطهرب أ- الأساليب
	1. Written exams	۱- الاساليب المستخدمة
	2. Oral exams	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	اً- مذکرات ب- کتب ملزمة
•	Essential books (text books)	ب- كتب 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:	جــ 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

تاریخ مجلس القسم: ۲۰۱۳/۹/۸

رئيس مجلس القسم: اد/ عصام السيد عيد





جامعة بنها كلية الطب البشرى قسم الفسيولوجيا الطبية

## توصيف مقرر الفيسيولوجيا لماجستير الجراحة العامة

	بيانات المقرر
الفرقة / المستوى : الفسيولوجيا ماجستير جزء أول	الرمز الكودي : SURG 601
عدد الوحدات الدراسية: نظري 1 credit hour	التخصص : ماجستير الجراحة العامة
Approaching to the detailed knowledge of human physiology.	۱ ـ هدف
• Facilitate understanding the clinical data for the student in the clinical practice.	المقرر:
• Develop skills associated with improved health care and health care services.	
• Basic scientific knowledge essential to practice medicine at the primary level of health, dealing with surgical problems commonly met- with- in clinical surgical practice.	
• Basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship.	
<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.	
	۲- المستهدف من ن

٢- المستهدف من تدريس المقرر

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





<b>2.a.1. List</b> according to priority the main functions of Thyroid gland	أ- المعلومات
hormones.	والمفاهيم :
<b>2.a.2. Explain</b> and describe Arterial blood pressure and its regulation.	
2.a.3. Flash light on Microcirculation.	
<b>2.a.4. Discuss</b> the different mechanisms of homeostasis and how to	
apply it in general surgery.	
2.a.5. Flash light 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
<b>2.b.2. Interpret</b> clinical manifestations of Hemorrhage and shock.	ب- المهارات الذهنية:
<b>2.b.3. Classify</b> different types of Edema.	الدهنية:
<b>2.b.4. Demonstrate</b> regulation of respiration.	
2.b.5. Analyze 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
arterial blood pressure.	
2.c.2. Manage different types of hypoxia.	المهنية الخاصة
2.c.3. Manage Hemorrhage and shock.	
<b>2.c.4. Perform</b> pulmonary function tests.	بالمقرر:
<b>2.c.5. Show</b> action of supra cortical hormones and its role at regulation	
of arterial blood pressure.	
2.c.6.Evaluate Pain and Pain control system	
<b>2.c.7. Apply</b> role of platelets in hemostasis.	
<b>2.d.1. Develop</b> general scheme for management of Hemorrhage and	د - المهارات
Shock.	العامة :
<b>2.d.2.</b> Use tests showing the molecular, biochemical, and cellular	
mechanisms that are important in maintaining the body's	
homeostasis.	
<b>2.d.3.</b> Use the functions of the Liver and biliary system that have role in	
general surgical diseases and conditions.	
<b>2.d.4 Instruct</b> students about causes and management of fever.	





Subject		Total	% of	۳- محتوی
Subject	Lectures(hrs)	(hrs)	total	۳- محتوى المقرر:
1. Arterial blood pressure and its regulation	1hr.	1hr	6.7%	.55=-
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%	
Modified Lectures				٤ - أساليب التعليم و التعلم
2. Tutorial				والتعلم
3. Seminars				
	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





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

رئيس مجلس القسم: اد/ علاء التليس تاريخ مجلس القسم: ٨/٩/٨٠٠





جامعة بنها كلية الطب البشرى قسم الكيمياء الحيوية الطبية

# توصيف مقرر الكيمياء الحيوية لماجستير الجراحة العامة

		بيانات المقرر
الفرقة / المستوى :		الرمز الكودي :
ماجستير جزء أول	اسم المقرر: الكيمياء الحيوية	SURG 601
1	11.1 to 5 the to	التخصص :
1	عدد الوحدات الدراسية: نظري credit hour	ماجستير الجراحة
		العامة





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

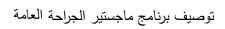
معدف

- 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:

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







2.a.1 Describe the metabolic pathways of the three main dietary	أ- المعلومات
sources of energy: carbohydrates, fats and proteins, their digestion	والمفاهيم :
absorption, their oxidation to release energy.	
2.a.2 Explain the regulation of these pathways and the integration	
of their metabolism.	
2.a.3 State biochemical alteration in related metabolic disorders as	
DM ,hypercholesterolemia ,atherosclerosis and gout.	
2.a.4 Discuss the role of vitamins and enzymes required for	
different metabolic reactions in the human body in addition to the	
deficiency manifestation of each.	
2.a.5 Flash light the biochemistry of certain tissues like liver, kidney	
and muscles as well as the correlation of their composition to	
function in health and disease.	
2.a.6. Define 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.	
2.a.7. Outline nucleic acid metabolism (DNA-RNA).	
2.a.8. Enumerate the general principles of genetic engineering and	
their application for the diagnosis and management of diseases.	
2.a.9. List the components of some body fluids e.g. blood, urine,	
semen, and CSF.	
2.a.10. Discuss 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.	الذهنية:
<b>2.b.2 Analyze</b> normal &pathological glucose tolerance curve.	
<b>2.b.3 Solve</b> problems related to metabolic disturbances in a given	
case study report.  2 h 4 Evaluate the action of various body harmones and plasma.	
<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.	11 . 1 . 1
2.c.1. Manage problems related to metabolic disturbances in a	جــ المهارات
given case study report.	المهنية الخاصة
<b>2.c.2 Apply</b> the values of different tumour markers in diagnosis and	بالمقرر:
prognosis of various tumours.	





**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.

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

۳- محت*وی* المقدد:

د ـ المهارات العامة :

					۱- معتوی
Subject	Lectures (hrs)	Tutorials (hrs)	Total (hrs)	% of Total	المقرر:
Blood pH regulation, acidosis and alkalosis	1/2		1/2	3.3%	
Major pathways of glucose oxidation	1/2		1/2	3.3%	
Blood glucose regulation, Glucose tolerance test, hyper- and hypoglycemia	1/2		1/2	3.3%	
Diabetes Mellitus, galactosemia & glycogen storage disease.	1/2	1/2	1	6.7%	
Plasma lipoproteins, hyperlipidemia	1/2		1/2	3.3%	
Cholesterol metabolism, hypercholesterolemia and Atherosclerosis		1/2	1/2	3.3%	
Lipotropic factors, fatty liver	1/2		1/2	3.3%	
FA oxidation, ketosis	1/2	1/2	1	6.7%	
Urea cycle, NPN compounds	1/2		1/2	3.3%	
Heme metabolism and hemoglobinopathies	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

2. Tutorial

3. Seminars

٤- أساليب التعليم والتعلم





لا ينطبق	<ul> <li>٥- أساليب التعليم</li> <li>والتعلم للطلاب ذوى</li> <li>القدرات المحدودة</li> </ul>
:	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
اسية والمراجع :	ا ٧- قائمة الكتب الدر
Lectures notes	أ- مذكرات
• Essential books (text books)	ب- كتب ملزمة
- Department books	
- <b>Biochemistry: Lippincott's illustrated Reviews, 2013.</b> 6 <sup>th</sup> ed. By denise R. Ferrier, Lippincott Williams and Wilkins, North America.	
Recommended books:	جـ 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.	
www.clinchem.org	د ــ دوريات
	علمية أو نشرات

تاریخ مجلس القسم: ۲۰۱۳/۹/۱

رئيس مجلس القسم: اد/ امال ابو الفضل





جامعة بنها كلية الطب البشرى قسم الباثولوجيا

## توصيف مقرر الباثولوجيا الجراحية لماجستير الجراحة العامة

	بيانات المقرر
الفرقة / المستوى : الباثولوجيا الجراحية ماجستير جزء أول	الرمز الكودي : SURG 603
عدد الوحدات الدراسية: نظري 2 credit hours	التخصص : ماجستير الجراحة العامة
Good application of basic pathological knowledge essential for the practice of	۱ ـ هدف
<ul> <li>general surgery.</li> <li>Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations.</li> </ul>	المقرر:
<ul> <li>Application of special knowledge &amp; its integration with others that have relation with the special practice.</li> </ul>	
<ul> <li>Awareness of the running problems as early tumor detection and diagnosis of most of human body system.</li> </ul>	
<ul> <li>Diagnosis of practical problems as cases study and clinical assessments.</li> </ul>	
<ul> <li>Having fundamental knowledge of medical disciplines related to their clinical applications &amp; able to use different technological tools as computer in the field of general surgery.</li> </ul>	
<ul> <li>Having acquired competency to be teacher, trainer, researcher and leader in the field.</li> </ul>	
<ul> <li>Diagnosis, problem solving and decision making skills necessary for proper evaluation and management.</li> </ul>	
<ul> <li>Development of recent tools &amp; ways essential for medical practice.</li> </ul>	
<ul> <li>Awareness of his role in the progress of society and govern the environment in the light of international &amp; local changes.</li> </ul>	
Honesty and respect the practical rules.	
• Lifelong learning competencies necessary for continuous professional development.	





تدريس المقرر :	٢- المستهدف من
By the end of the course, the student should be able to:	
2.a.1. Flashlight the dissection of different types of biopsies.	أ- المعلومات والمفاهيم :
2.a.2 Define stem cells.	والمفاهيم :
2.a.3 Describe 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.	
2.a.8 Flashlight on different hepato-billiary diseases.	
<b>2.a.9 Discuss</b> diseases of blood vessels either arteries or veins .	ļ
2.a.10 Outline different bone diseases.	
2.a.11 Discuss prognostic factors of cancer breast.	
2.a.12 Discuss genitor-urinary tract tumors.	
2. a.13Flashlight on prostatic diseases as BPH and cancer prostate.	
2.a.14 Enumerate 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.	الأذ من تد
2.b.3 Assess risk of radiation.	الدهنية:
2.b.4 Identify 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</b> Identify diseases of Lymph-reticular system & spleen.	
<b>2.c.1 Diagnose</b> and manage cases of inflammation, granuloma and viral diseases	جــ المهارات
<b>2.c.2 Write</b> report on impact of radiation on health and caused surgical diseases.	
2.c.3 Apply basic immunopathology.	المهنية الخاصة
2.c.4 Evaluate and manage a case of lung tumor.	
<b>2.c.5 Diagnose</b> and manage breast diseases either benign lesions ,cysts , swellings,	بالمقرر:
nipple discharge or cancer breast.	1.55 -+
2.c.6 Manage a case of testicular tumor.	
<b>2.c.7 Examine</b> a case of splenomegaly and lymphadenopathy.	





2.d.1Use of stem cells in different surgical diseases	د - المهارات
<b>2.d.2 Work</b> in team for proper assessment and management of hepato-billiary	د ـ المهارات العامة :
diseases.	
2.d.3 Exercise on use of different diagnostic methods in pathology.	
2.d.4 Instruct about action of different hormones and the impact of secretion	
disturbance.	
2.d.5 Communicate effectively with pathologist ,radiologist ,oncologist for proper	
management of breast diseases.	





Subject	Lectures (hrs)	Practical (hrs)	Total (hrs)	% of Total	٣- محتوى 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.Lungs: tumors	2hr	2hr	4hr.	8.9%	
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, seminalvesicle	2hr	2hr	4hr.	8.9%	
Pediatric congenital anomalies, Diseases of Lymphoreticular system & spleen	2hr	2hr	4hr.	8.9%	
Types of biopsies.Diagnostic methods	1hr	1hr	2hr	4.4%	

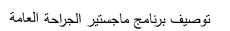




4 34 10 17	t ati ti f
1. Modified Lectures	٤- أساليب التعليم والتعلم
2. Tutorial	والنعلم
3. Seminars	
4. Small group discussion and case studies.	
5. Practical sessions (histopathology slide lab-museum of pathology)	
	٥ - أساليب التعليم
لا ينطبق	والتعلم للطلاب ذوى القدرات المحدودة
	العدرات المحدوده
	ا ٦- تقويم الطلاب :
1. Written exams	أ- الأساليب
2. Oral exams	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 book.	
- Rapid Review pathology, 2013.	
4 <sup>th</sup> ed. By Edward F. Goljan, saunders.	
4 Cd. By Edward 1. 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 – دوريات
www.pathmax.com	ور. علمية أو نشرات
" " " Paulina neon	

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







جامعة بنها كلية الطب البشرى قسم الميكروبيولوجيا والمناعة الطبية

#### توصيف مقرر البكتريولوجيا لماجستير الجراحة العامة

		بيانات المقرر
الفرقة / المستوى : ماجستير جزء أول	اسم المقرر : البكتريولوجيا	الرمز الكود <i>ي</i> : SURG 604
1	عدد الوحدات الدراسية: نظري credit hour 5.	التخصص : ماجستير الجراحة العامة
• To educate students about th	e basic features of general bacteriology,	۱۔ هدف
with an understanding of the	and mycology and to provide students immune system, its protective functions visiology of infectious and non-infectious	المقرر:
medical importance, their n diagnosis, treatment, preventi	the common infections and diseases of nicrobial causes, as well as laboratory on and control of such diseases.	
• To enable the students to prac	tice the principles infection control.  ان تدريس المقرر	۲ المستمدة ، م

٢- المستهدف من تدريس المقرر

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





<b>2.a.1. Describe</b> general bacterial morphology, physiology and genetics.	أ- المعلومات
<b>2.a.2</b> . <b>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</b> . <b>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.	
<b>2.a.8. Discuss</b> 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. Identify</b> medically important bacteria based on microscopic	ب- المهارات الذهنية:
examination of stained preparations.	الذهن ت
<b>2.b.2. Identify</b> culture media and biochemical tests commonly used for	الدهبية
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 المهارات
on stained preparations.	المهنية
<b>2.c.2. Apply</b> various sterilization processes and simple infection control	الخاصة
measures	بالمقرر:
<b>2.c.3. Show</b> different methods of viral replication, pathogensis and	
laboratory diagnosis of them.	
<b>2.d.1 Instruct</b> medical team how to select the best methods of diagnosis of	د - المهارات
suspected hospital acquired infection and blood borne infection.	العامة :
<b>2.d.2. Develop</b> awareness of medical team about methods of transmission,	
prevention and control of viral infection.	
<b>2.d.3. Communicate</b> with other health care professionals regardless their	
degrees or rank & the role and the contributions (top management,	
subordinate or colleague).	
<b>2.d.4 Work</b> counseling sessions for disinfection and sterilization for health	
care team individuals (doctors, nurses, workers,etc.).	





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	١	مقر	1

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





P				
Applied Microbiology:				
wound,burn,surgical site				
infection, venereal infectious				
Normal bacterial flora of the				
body,	1		1	2.6%
Infective endocarditis,	1		1	2.070
Opportunistic infection,				
Blood born infection,				
Bacteremia& sepsis,				
Hospital acquired infections)				
General virology				
Structure				
Lab. Diagnosis (idea)		2.5	4.5	
Viral replication (idea)	2			12%
Antiviral chemotherapy	2	2.3	4.3	12%
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				





<ul> <li>Basic Immunology</li> <li>Cells of immune         response.</li> <li>Natural &amp;acquried         immunity.</li> <li>Immune response.</li> <li>Antigens, antibodies         ,complement and         cytokines.</li> <li>Cell mediated immunity</li> <li>MHC</li> <li>Apoptosis&amp;necrosis         Superantigen</li> </ul>	2	3	5	13.3%	
<ul> <li>Special Immunology</li> <li>Hypersensitivity</li> <li>Autoimmune diseases</li> <li>Immunodeficiency diseases</li> <li>Tumor immunology</li> <li>Transplantation immunology</li> </ul>	2		2	5.3%	
Total	15	22.5	37.5	100	
<ol> <li>Modified Lectures</li> <li>Tutorial</li> <li>Seminars</li> <li>Small group discussion a</li> <li>Practical sessions</li> </ol>	nd case stu	ıdies.			٤ - أساليب التعليم والتعلم
		لا ينطبق			<ul> <li>٥ أساليب</li> <li>التعليم والتعلم</li> <li>للطلاب ذوى</li> <li>القدرات</li> <li>المحدودة</li> </ul>
				: 4	٦- تقويم الطلاب
1. Written exams					أ- الأساليب
2. Oral exams					المستخدمة
• At end of the first term					ب- التوقيت





• Writton avam 25	تمذره
• Written exam 25	ــ توزيع .رجات
• Oral exam 25	ر چې
	- - قائمة الكتب الدراسية والمراجع :
• Lectures notes	مذكرات
Essential books (text books)	۱- کتب زمة
- Department books	زمة
	gs Medical Microbiology, 2012.
26 <sup>th</sup> ed. By Geo brook	s, Karen C. Carroll, Janel Butel and stephan
morse, McGraw Hill	
Recommended books:	ــ كتب
	ے کتب ترحة ractical Microbiology, 2007.
	ee, Elsevier Health sciences.
- Lippincott's illustrated Re	
	Harvey and Cynthia Nau Cornelissen,
Lippincott Williams a	
- Microbiology: An Introdu	
	a, Berdell R. Funke and Christine L. Case,
Benjamin Cummings.	,,
www.phage.org/black09.htm	ر دوريات
www.microbe.org/microbes	n دوريات – دوريات لامية أو virus_or_bacterium.asp // 330Lecturetopics
www.bact.wisc.edu/Bact330	رات 230Lecturetopics
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/w	velcome.htm
www.bioiogy.arizona.edu/ir	nmunology/microbiology_immunology.html

رئيس مجلس القسم: اد/ وفاء الشافعي تاريخ مجلس القسم: ٢٠١٣/٩/٨





جامعة بنها كلية الطب البشرى قسم الجراحة العامة

# توصيف مقرر الجراحة العامة الماجستير الجراحة العامة

		بيانات المقرر
الفرقة / المستوى : ماجستير جزء ثان	اسم المقرر: الجراحة العامة	الرمز الكودي : SURG 606
نظري 8 credit hours	عدد الوحدات الدراسية: عملي 4 credit hours	التخصص :
ر اسبين	فی فصلین د	ماجستير الجراحة 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 produce surgeons who are prepared to understand the basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship.
- To teach students 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 upgrade students' abilities in 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 students basic administrative skills necessary for delivery of health service.
- To employ available resources, develop them and find new resources.
- To prepare students who are able to acquire competences and experience to effectively manage patients with different common surgical diseases.
- To make students 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.

١ - هدف المقرر





٢- المستهدف من تدريس المقرر:

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





- 2. a.1.Describe the metabolic response to injury.
- 2. a.2.List different types of shock.
- 2.a.3. Explain indications of blood transfusion.
- 2.a.4. List 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 List 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.	ب- المهارات الذهنية:
2.b.2 Asses a case of contracture ,hypertrophic scar or keloid.	الذهندة:
2.b.3 Identify different types of tissue repair.	الدهيب.
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.





2.c.1. Manage a case of shocked patient.	جــ المهار ات
2.c.2. Apply different types of sutures.	جـ المهارات المهنية الخاصة بالمقرر:
2.c.3. Perform different anastomoses either bowel as in low anterior resections or	المهنيه الخاصبه
vascular.	بالمقرر:
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.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 students about the principles of diathermy, legasure and harmonic.	د - المهارات
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.	





		Q m	۳	_	_	٣- محتوى المقرر:
Subject	Lectur es (hrs)	Small group discuss	Practic al (hrs)	Total (hrs)	% of Total	.55
	ur s)	ass Siss	tic s)	al   s)	of al	
SURGICAL PRINCIPLES						
The metabolic response to injury						
Shock and blood transfusion						
Wounds, tissue repair and scars						
Basic surgical skills and						
anastomoses						
Surgical Infection	10hr	10hr	30hr	50hr	8.3%	
Surgery in the tropics Principles of laparoscopic	10111	10111		JUII	0.5%	
surgery						
Principles of paediatric surgery						
Principles of oncology						
Surgical audit and research						
Surgical ethics and law						
Patient safety						
INVESTIGATION AND						
DIAGNOSIS						
Diagnostic imaging	5hr.	5hr.	15hr	25hr	4.2%	
Gastrointestinal endoscopy						
Tissue diagnosis						
PERIOPERATIVE CARE						
Preoperative preparation						
Anaesthesia and pain relief			30hr	50hr		
Care in the operating room	10hr	10hr			8.3%	
Perioperative management						
Nutrition and fluid therapy Postoperative care						
Day Case Surgery						
TRAUMA						
Introduction to trauma						
Early assessment and						
management of trauma						
Emergency neurosurgery	101	101	261	CO1	1.00/	
Neck and spine	12hr	12hr	36hr	60hr	10%	
Extremity trauma						
Burns						
Plastic and reconstructive						
surgery						
ELECTIVE						
ORTHOPAEDICS						
History taking and clinical						
examination in musculoskeletal						
disease						
The spine	10hr	10hr	30hr	50hr	8.3%	
Upper limb - pathology, assessment and management						
assessment and management						





Cleft lip and palate:   developmental abnormalities of the face, mouth and jaws     Pharynx and neck     Oropharyngeal cancer     Disorders of the salivary     glands     BREAST AND     ENDOCRINE     The thyroid and parathyroid     glands     The adrenal glands and other abdominal endocrine disorders     The breast     CARDIOTHORACIC     Cardiac surgery     VASCULAR     Arterial disorders     Venous disorders     Lymphatic disorders	Cleft lip and palate: developmental abnormalities of the face, mouth and jaws Pharynx and neck Oropharyngeal cancer Disorders of the salivary glands  BREAST AND ENDOCRINE The thyroid and parathyroid glands The adrenal glands and other abdominal endocrine disorders The breast  CARDIOTHORACIC Cardiac surgery  VASCULAR Arterial disorders Lymphatic disorders Lymphatic disorders 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 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 GENITOURINARY Urinary symptoms and investigations The kidneys and ureters The urinary bladder The prostate and seminal vesciles The urinary bladder	THE AD AND MECH					
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The prostate and seminal	vesicles The urethra and penis	1 1					
	The urethra and penis						
	Lesus and scrottim	Testis and scrotum					





1- Modified Lectures(Group discussion- Problem solving- Brain storming)	٤ - 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	
	<ul> <li>٥- أساليب التعليم</li> <li>والتعلم للطلاب ذوى</li> <li>القدرات المحدودة</li> </ul>
لا ينطبق	والتعلم للطلاب ذوى
	القدرات المحدودة
	<ul><li>٦- تقويم الطلاب :</li><li>أ- الأساليب</li></ul>
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)	جـ توزيع الدرجات
• Oral exam 175	
Practical and clinical exams 175	
بة والمراجع :	٧- قائمة الكتب الدراس
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	د – دوريات علمية أو نشر ات
www.gsasa.com	أو نشرات

رئيس مجلس القسم: اد/ محمد مختار الشهاوى تاريخ مجلس القسم: ٢٠١٣/٩/٤