



توصيف برنامج دكتوراه الجراحة العامة (عام 2014-2013)

A- Basic information

- 1- Name of the program: MD of General Surgery.
- 2- Nature of the program: Multiple
- 3- Departments responsible:
 - General Surgery Department
 - Anatomy and Pathology.
- 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 all surgical 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 surgical knowledge essential for establishing effective communication between doctor and patient
- 3. **Improve** professional 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** abilities in Diagnostic & therapeutic protocols of surgical diseases and emergencies; surgical operative theater and take a suitable decision during surgery
- 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 and surgical knowledge skills necessary for continuous professional development.
- 9. **Conduct** research studies and formulate scientific papers, master the principles and methods of medical research and raise students acquiring research education knowledge related to surgical practice & future development.
- 10. **Use** all available technological tools and apply advanced skills for serving surgical practice
- 11. **Employ** available resources, develop them and find new resources.
- 12. **Be** able to acquire competences and integrate specialized surgical knowledge with surgical practice
- 13. **Increase** awareness of role of graduate in community development and preservation.
- 14. **Increase** awareness of current surgical problems and new concept in the field of general surgery for proper health service administration
- 15. **Commit** self-development and transfer knowledge to others

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, 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.** *Illustrate* the ways of non-surgical and surgical treatments.
- **2.a.5. Discuss** the best methods of treatments and the perfect time for surgical intervention.
- **2.a.6.** *Identify* the basics of ethics, medico- legal aspects of health problems, malpractice and common medical errors.
- **2.a.7.** *Explain* the impact of general surgery on environmental preservation.
- **2.a.8.** Highlight on the basics of health and patient's safety and safety procedures during practical and clinical years.
- 2.a.9. Recognize the principles of clinical audit.
- **2.a.10** *Recognize* the principles, ethics and methods of medical research.
- **2.a.11** *Recognize* the principles and methods of quality in professional practice of general surgery.
- **2.a.12** *Recognize* the basic pre- and post-operative care as pain relief and palliative care.

2.b. Intellectual Skills:

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

- **2.b.1. Formulate** and **test** hypotheses and differential diagnosis using appropriate experimental design and statistical analysis of data.
- **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. ". Develop surgical research studies in the field of early diagnosis of certain surgical diseases which help improving the learning course of surgical practice
- **2.b.4 Integrate** and **evaluate** information and critically review and formulate scientific and medical publications.
- **2.b.5. Assess** risks of transmitted disease, its complications and risks that may encountered during surgical procedures
- **2.b.6. Plan**, **conduct** and **write-up** a program of clinical based research helping the improvement of the learning curve and performance during operative practice.





- **2.b.7. Construct** decisions either surgical or conservative during dealing with patients
- **2.b.8.** Create new diagnostic and therapeutic methods based on all the basic knowledge of the applied and related science during clinical surgical practice.
- **2.b.9 Evaluate** diagnosis and debates based on the facts and evidences.

2.c. Practical & professional Skills:

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

- **2.c.1.** *Perform* effectively all essential, specialized and new skills in surgery. Based on the applied regional anatomy.
- 2.c.2 .Prepare scientific, medico-legal and medical reports.
- **2.c.3.** *Improve* the use of different diagnostic means to reach a proper diagnosis for common surgical disorders.
- 2.c.4. Use modern technologies to serve the surgical practice.
- **2.c.5. Apply** a plan for development of surgical practice and performance of other surgeons.

2.d. General and transferable skills:-

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

- **2.***d.1.* **Communicate** to improve inter-personal relationships using different methods in an effective manner to lead or participate in a team.
- **2.d.2.** Use information technology to get all surgical information related to surgical practice serving its development
- **2.d.3. Participate** in the surveillance of other personnel in the field of practice.
- **2.d.4. Express** the importance of use different resources for information retrieval and knowledge.
- **2.d.5. Establish** exercise autonomy in self-evaluation and continuous surgical learning
- **2.d.6. Manage** the performance process with emphasis on the time factor.
- **2.d.7. Transfer** techniques and solutions from one discipline to another through group meetings.





3- Academic Standards:

٣ ـ المعايير الأكاديمية للبرنامج:

Academic Standards of MD 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), MD Program (March 2009, which were issued by the National Authority for Quality Assurance & Accreditation for Education. NAQAAE (۲ملحق)

5- Program structure and contents:

- a) Program duration: 120 weeks
 - **↓** 1st part: One Semester (6 months).
 - **↓** 2nd part: Three Semesters (1.5 years).
 - **Thesis:** Two years.

b) Program structure

- Total hours of program 60 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			
۳ ساعات	UNIV 601	للجامعة والكلية	متطلبات
		يشمل الآتي:	الجزء الأول





	SURG 701	۱. تشریح	
ų.		۰۰ سریی	
٣			
		۲. باثولوجی	
3	SURG 703	۱۰ بنوبوجی	
3	SURG 703		
4 ساعة		حضور لستة عمليات الجراحة	
2E W 4			الجزء الثاني
	SURG 704	حضور محاضرات الجراحة	موادالتخصص
8 ساعات	Series 701		مورداسحصص
4 ساعات		حضور أسبوع الحوادث والطوارئ	كراسة
		_	در است
			الانشطة
8 ساعة		حضور سكاشن الجراحة	
5ساعة		كراسة النشاط وحضور مؤتمرات ودولية	
5ساعة		كراسة النشاط وحضور مؤتمرات محلية	
5ساعة		كراسة النشاط وحضور المؤتمر السنوى للقسم	
15ساعة		الرسالة	ر سالة الدكتور اة
، ۲ساعة			الإجمالي

First part (one semester):

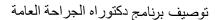
a- Compulsory courses:

Compulsory Course	Code	Credit hours	Teaching Staff
Applied Anatomy	SURG 701	3	Anatomy and surgery
Applied Pathology	SURG 703	3	Pathology and surgery

b- Elective courses: none

c- Selective: none







Second part (2 semesters):

a- Compulsory courses.

Compulsory Course	Code	Credit hours	Teaching Staff
Surgical word rounds		8	Surgery Department
Surgical operation lists		4	Surgery Department
Accident and Emergency week attendance		4	Surgery Department
Postgraduate lectures attendance	SURG 704	8	Surgery Department
Logbook(International Conferences)		5	Surgery Department
Logbook (Local conferences and workshops)		5	Surgery Department
Logbook annual conference of surgery department		5	Surgery Department
Surgical Thesis		15	Surgery Department

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 (٢٣) : يشترط لقيد الطالب لدرجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية أن يكون

حاصلا على درجة الماجستير في مادة التخصص بتقدير جيد على الأقل من إحدى جامعات ج ٠ م ٠ ع

أو على درجة معادلة لها من معهد علمي أخر معترف به من الجامعة •

🗷 مدة الدراسة لنيل الدكتوراه سنتان ونصف موزعة كا لاتى : ٠





- جزء أول : علوم أساسية فصل دراسي لمدة ستة شهور (٦ ساعات معتمدة) ومن يرسب يعيد مادة الرسوب فقط •
- الجزء الثانى: ثلاث فصول دراسية لمدة سنة ونصف (٣٩ ساعة معتمدة) يستوفى خلالها الطالب الساعات المعتمدة ثم يسمح له بالتقدم لامتحان التحريرى وإذا اجتاز الامتحان التحريرى بنجاح يحق له التقدم الى الامتحان الشفهى والعملى والإكلينيكي خلال شهر من تاريخ الامتحان التحريرى •

• رسالة (١٥ ساعة معتمدة)

تبدأ الدراسة عند بداية التسجيل تتتهى بامتحان شامل فى نهاية كل أربع فصول دراسية بعد اجتياز الطالب امتحانات الجزء الأول بنجاح يسمح له بتسجيل رسالة لمدة أربعة فصول دراسية تبدأ عند بداية الفصل الدراسى الثانى وتناقش بعد مرور عامين على الأقل من تاريخ تسجيل الرسالة على أن تكون المناقشة بعد ستة اشهر على الأقل مع اجتياز الامتحان التحريري والإكلينيكية والشفهى (الامتحان الشامل) يمنح الطالب الدرجة بعد مناقشة الرسالة واجتياز الامتحان الشامل. - يكون التقدم للقيد لدرجة الدكتوراه مرتين فى السنة خلال شهرى مارس وأكتوبر 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 التقصيلي للمقررات في حدود الساعات المعتمدة الواردة باللائحة وعند الاختلاف يتم الاسترشاد بمقررات جامعة القاهرة ومقررات الشهادات العالمية الاوربية والامريكية يعتمدها مجالس الأقسام ثم يقرها مجلس الكلية وتشمل هذه الساعات محاضرات نظرية ودروس عملية وتدريب اكلينيكي ومحاضرات وندوات مشتركة.

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

- أ- حضور المقررات الدراسية والتدريبات الاكلينيكية والعملية والمعملية بصفة مرضية طبقا للساعات المعتمدة.
- ب- أن يقوم بالعمل كطبيب مقيم 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:

٨- طرق وقواعد تقييم الملتحقين بالبرنامج

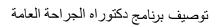
مخرجات التعلم المستهدفة	الوسيلة	م
To assess knowledge and	Written examination	1
understanding & intellectual skills:	(including case study)	1
2.a.12.a.12, 2.b.12.b.9		
To assess knowledge and	Oral examination	
understanding, intellectual skills &		2
General & transferable skills		
2.a.12.a.12, 2.b.12.b.9,		
2.d.12.d.7		
To assess knowledge and	Practical & clinical	
understanding, intellectual skills &	examination	3
General & transferable skills&		
practical and clinical skills:		
2.a.12.a.12, 2.b.12.b.9,		
2.d.12.d.7, 2.c.12.c.5		
To assess knowledge and	MCQ examination	
understanding, intellectual skills:		4
2.a.12.a.12, 2.b.12.b.9		

Final exam.

First part

11 - 2 1		رجة	السدر		الاختبار	المقرر
إجمالي	إكلينيكي	عملي	شفهي	تحريري	الاحتبار	المعرر
۲۰۰		-	١	١.,	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	تشريح
۲••			١	١		باثولوج <i>ى</i>
٤٠٠						إجمالي الدرجة







Second part

إجمالي		رجة			الاختبار	المقرر
إجماعي	عمليات	إكلينيكي	شفهي	تحريري	الاحتبار	المعرر
				١		
				+	اختباران تحريريان مدة كل	
	١	۲.,	١	١	منهما ثلاث ساعات + اختبار شفهی	7 7
	, , ,	, , ,	' ' '	+	۱ ، سبر کلینیکی + اختبار اکلینیکی	الجراحة العامة
				حالة		
				٥,		
٦٥٠						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: أد/ جمال السيد صالح

التوقيع التاريخ: 14/8/2013





الملحقات:

ملحق ۱: Academic standard of the program

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

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 MD Degree in :۱ ملحق General surgery

1. Attributes of gratitude.

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

- **Master** the principles and methodologies of medical scientific research and use available tools to apply it in the field of general surgery
- Yearticipate in the process of continuous education/learning for continuous upgrading of surgical knowledge and skills
- ', 'Apply analytical and critical methodology for the appraisal of knowledge in the field of general surgery and specialties as vascular, plastic and oncology surgery
- 1,5 **Deduce** a relationship between the basic surgical knowledge and its integration in the specialized surgical practices
- of the recent state of the art regarding surgical problems
- Note Recognize different surgical problems related to the profession, analyze them and propose suitable solutions
- Year Practice all basic and special surgical skills and use of technological tools to serve general surgical practice
- NA Enrich the academic and surgical abilities to develop new methods and tools regarding surgical practice and be able to tolerate new technology
- \,\frac{9}{Choose} the proper technological methods that suit and support the professional practice
- 1.10 **Able** to lead a work team in different surgical fields and communicate effectively with other categories of assistances and patients
- ',' **Take** the suitable decision in the light of available and acquired information and different contexts of general surgery practice





- Optimize the use of available resources to achieve maximum cost-effective benefits
- 1.13 Takes part in community development and environmental preservation in the light of world and regional changes
- **Show** self-commitment and dedication regarding the code of ethics of surgical practice
- 1,10 Commit self-development and adopt knowledge transfer and experience to others

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.** *Identify* the basics of ethics, medico- legal aspects of health problems, malpractice and common medical errors.
- **2.1.3.** Explain the impact of general surgery on environmental preservation
- **2.1.4.** *Recognize* the principles, ethics and methods of medical research
- **2.1.5. Recognize** the principles and methods of quality in general surgical practice.

2.2. Intellectual skills.

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

- **2.2.1. Design** a list of initial diagnostic hypotheses (differential diagnosis) for each surgical problem.
- **2.2.2. Analyze** and **solve** problems based on available information using an integrated multidisciplinary approach, applying professional clinical judgments.
- **2.2.3. Conduct** surgical research studies in the field of early diagnosis of certain surgical diseases which help improving the learning course of surgical practice.
- **2.2.4. Formulate** scientific medical papers.





- **2.2.5. Asses** risks 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.
- **2.2.8. Create** new diagnostic and therapeutic methods during clinical surgical practice.
- **2.2.9.** Conduct diagnosis and debates according to evidence based surgery.

2.3. Practical/Professional skills

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

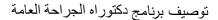
- **2.3.1. perform** effectively all fundamental and recent and specialized surgical skills.
- **2.3.2. Write** ,evaluate and review all medical ,medico legal and patients follow up reports.
- **2.3.3. Develop** the existing tools used for diagnosis of patient disease and performance of different surgical procedures.
- **2.3.4. Use** recent radiological intervention, new laboratory means, nuclear medicine and endoscopy to serve the surgical management of patients.
- **2.3.5. Plan** for emergence of new surgical approaches to perform different surgical procedures in safer manner reducing morbidity and mortality with great emphasis on improving the learning curve and performance of medical personnel.

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 patient-doctor and doctor-doctor relationships using different methods of communication and cooperation.







- **2.4.2.** Use information technology as electronic libraries and web encyclopedias to get all surgical information related to surgical practice serving its development.
- **2.4.3. Instruct**, educate others and evaluate their performance during surgical practice.
- **2.4.4. Establish** learning independently and effectively with open-mindedness and critical enquiry for the purpose of continuing surgical development.
- **2.4.5. Manage** the available resources to retrieve different practical information and data
- **2.4.6.** Work effectively in a team as leader or member
- **2.4.7. Manage** scientific meetings and manage time effectively

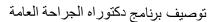
اعتماد مجلس القسم بتاريخ 6/2013

رئيس مجلس القسم اد/ محمد محتار الشماوي

اعتماد مجلس الكلية

7.1797917







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

١ - مواصفات الخريج:

خريج برنامج الدكتوراة في اي تخصص يجب ان يكون قادرا على

- ١-١ اتقان اساسيات ومنهجيات البحث العلمي
- ١-٢ العمل المستمر على الاضافة للمعارف في مجال التخصص
- ١-٣ تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة
- 1-3 دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها
 - ١-٥ اظهار وعيا عميقا بالمشاكل الجارية والنظريات الحدية في مجال التخصص
 - ١-٦ تحديد المشكلات المهنية وايجاد حلولا مبتكرة لحلها
 - ١-٧ اتقان نطاقا واسعا من المهارات المهنية في مجال التخصص
 - ١-٨ التوجة نحو تطوير طرق وادوات واساليب جديدة للمزاولة المهنية
 - ١-٩ استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارستة المهنية
 - ١-٠١ التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة
 - ١-١١ اتخاذ القرار في ضل المعلومات المتاحة
 - ١-٢ توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على ايجاد موارد جديدة
 - ١-٣١ الوعى بدوره في تنمية المجتمع والحفاظ على البيئة
 - ١-٤١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة
 - ١-٥١ الالتزام بالتنمية الذاتية المستمرة ونقل علمه وخبراته للاخرين

٢- المعايير القياسية

٢-١ المعرفة والفهم

بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على الفهم والدراية بكل من ٢-١-١ النظريات والاساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة

- ٢-١-٢ اساسيات ومنهجيات واخلاقيات البحث العلمى واداواته المختلفة
- ٢-١-٣ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
 - ٢-١-٤ مبادئ واساسيات الجودة في الممارسة في مجال التخصص
- ٢-١-٥ المعارف المتعلقة بأثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها
 - ٢-٢ المهارات الذهنية
 - بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على
 - ٢-٢-١ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها
 - ٢-٢-٢ حل المشاكل المتخصصة استنادا على المعطيات المتاحة





٢-٢-٣ اجراء دراسات بحثية تضيف الى المعارف

٢-٢-٤ صياغة أوراق علمية

٢-٢- تقييم المخاطر في الممارسات المهنية

٢-٢-٦ التخطيط لتطوير الاداء في مجال التخصص

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

٢-٢-٨ الابتكار/الابداع

٢-٢- الحوار والنقاش المبنى على البراهين والادلة

٢-٣ المهارات المهنية

بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على

٢-٣-٢ اتقان المهارات المهنية الأساسية والحديثة في مجال التخصص

٢-٣-٢ كتابة وتقييم التقارير المهنية

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

٢-٣-٤ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية

٣-٣- التخطيط لتطوير الممارسة المهنية وتنمية اداء الاخرين

٢-٤ المهارات العامة والمنتقلة

بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على

٢-٤-١ التواصل الفعال بأنواعه المختلفة

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

٢-٤-٣ تعليم الاخرين وتقييم ادائهم

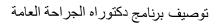
٢-٤-٤ التقييم الذاتي والتعليم المستمر

٢-٤-٥ استخدام المصادر المختلفة للحصول على المعلومات والمعارف

٢-٤-٢ العمل في فريق وقيادة فرق العمل

٢-٤-٧ ادارة اللقاءات العلمية والقدرة على ادارة الوقت







ملحق ٣: مصفوفة مضاهاة المعايير القياسية للدراسات العليا للهيئة لدرجة الدكتوراه مع المعايير الأكاديمية المتبناة لبرنامج دكتوراه الجراحة العامة

	ة للبرنامج	الأكاديمية المتبنا	المعايير		J 1651	المحلا
المهارات العامة	المهارات المهنية	المهارات الذهنية	المعارف والفهم	مواصفات الخريج	ر الأكاديمية - قياسية	
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				١٢	1.12	
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				١٤	1.14	
				10	1.15	
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			2.1.4		۲,۱,۲	
			2.1.2		۲,۱,۳	المعرفة والفهم
			2.1.5		۲,۱,٤	7
			2.1.3		2.1.5	7 5
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		2.2.9			2.2.9	
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2.4.4	2.4.4
2.4.5	2.4.5
2.4.6	2.4.6
2.4.7	2.4.7

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

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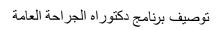




ملحق (٥) مصفوفة المعارف والمهارات للبرنامج الدراسى (مصفوفة المقررات مع البرنامج)

ILOs Courses & codes Courses	Knowledge & Understanding												
		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	2.a.11	2.a.12
Applied	SURG	*											
Anatomy	701												
Applied	SURG	*		*							*		
pathology	703												
General	SURG	*	*	*	*	*	*	*	*	*	*	*	*
surgery	704												





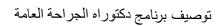


		Int	tellec	tual S	Skills	}			ILOs	
2.b.9	2.b.8.	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1		Courses &
	*								SURG	Applied Anatomy
									701	
-	*			*	*			*	SURG	Applied pathology
									703	
*	*	*	*	*	*	*	*	*	SURG	General surgery

	Pra	actica	al &	Profess	sional Skills	ILOs codes Courses
2.c.5	2.c.4	2.c.3	2.c.2	2.c.1		
				*	SURG 701	Applied Anatomy
			*		SURG 703	Applied pathology
*	*	*	*	*	SURG 704	General surgery

2.d.7	2.d.6	2.d.5	Gene	eral a	and to	cansfer	able	ILOs Courses & codes Courses
2.u.7	2.u.0	2.0.3	2.4.4	2.0.3	Z.U.Z	2.u.1		
		*	*		*		SURG 701	Applied Anatomy
		*	*		*		SURG 703	Applied pathology
*	*	*	*	*	*	*	SURG 704	General surgery





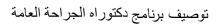


ملحق ٦: توصيف المقررات التابعة للبرنامج

Program courses

First part
Applied Anatomy
Applied Patholog
Second part
General surgery and its branche







جامعة بنها كلية الطب البشرى قسم التشريح الادمى وعلم الاجنة

توصيف مقرر التشريح التطبيقي لدكتوراه الجراحة العامة

		بيانات المقرر			
الفرقة / المستوى : دكتوراه جزء أول	اسم المقرر: التشريح التطبيقي	الرمز الكود <i>ي</i> : SURG 701			
3	عدد الوحدات الدراسية: نظري credit hour	التخصص : دكتوراه الجراحة العامة			
• To have fair knowledge abore efficient surgical practice.	ut the anatomy of different organs for	۱۔ هدف			
C I		المقرر:			
• To make the student able	to imagine the surface anatomy of				
different body structure impor	rtant for surgical application.				
To know the basics of surgical anatomy.					
• To describe the embryogenes					
emergence of various congen	ital anomalies.				
	تدريس المقرر:	٢- المستهدف من			

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





2.a.1 Describe the morphology , location ,vasculature , innervations &	أ- المعلومات
relations of different parts of human body.	والمفاهيم :
2.a.2 Flash light 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	
2.a.5 Outline the anatomical principles of different surgical operations.	
2.a.6 Explain the most common variations to give an idea for the	
clinical application.	
2.a.7 Outline the impact of fine structure of the anatomical	
components.	
2.a.8 Describe the details of surgical & applied anatomy.	
2.a.9 Discuss 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 الذهنية:
2.b.2 Estimate the complications of different surgical operations	الذهنية
2.b.3 Evaluate the impact of perihepatic collections	. ====
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	
2.c.1 Apply the science of embryology on the development of various	جــ المهارات المهنية الخاصة
congenital anomalies	المدينة المنابعة
2.c.2 Show the difference between the types of hernia	المهلية الخاصة
2.c.3 Perform an imagination about the anatomical layers have to be	11
opened in different abdominal incisions	بالمقرر:
2.c.4 Evaluate the pelvic floor dysfunction and its effects.	
2 d 1 lies the basis science of anatomy for understanding different	د الممادات
2.d.1. Use the basic science of anatomy for understanding different surgical diseases.	د - المهارات العامة :
2.d.2. Develop a colored atlas showing different anatomical structures	
2.d.3. Exercise on simple drawing of surface anatomy diagrams	
2.d.4. Perform information by all means, including electronic means.	

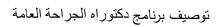




٣- محتوى المقرر:

Subject	Lectures (hrs)	Total(hrs)	% of Total
Neck Thyroid Gland Parathyroid Glands			
Trachea at the Neck Salivary Glands Branchial Remnants Surgical and Applied Anatomy	3 hr.	3 hr.	6.7%
Thoracic Wall and Pleurae Embryogenesis and congenital anomalies Surgical and Applied Anatomy	3 hr.	3 hr.	6.7%
Breast Embryogenesis and congenital anomalies Surgical and Applied AnatomyAnatomic Complications of Mastectomy	3 hr.	3 hr.	6.7%
Mediastinum Thymus	3 hr.	3 hr.	6.7%
Diaphragm Embryogenesis and congenital anomalies Surgical and Applied Anatomy	3 hr.	3 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	6 hr.	6 hr.	13.3%

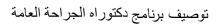






Peritoneum, Omenta, and			
Internal Hernias			
Embryogenesis and congenital anomalies	3 hr.	3 hr.	6.7%
Surgical and Applied Anatomyof the Peritoneum Surgical Anatomy of the Omenta and the Omental Bursa		•	0.770
Perihepatic Collections			
Internal Abdominal Hernias Anatomic Complications Involving the Peritoneum and Omenta			
Retroperitoneum			
Embryogenesis and congenital anomalies			
Surgical and Applied Anatomy			
Great Vessels in the Abdomen	3 hr.	3 hr.	6.7%
Abdominal Aorta			
Inferior Vena Cava			
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 AnatomyAnatomic	6 hr.	6 hr.	13.3%
Complications of Gastric Surgery			
Small Intestine			
Appendix			
Surface anatomy			
Anatomical variations			
Large Intestine and Anorectum			







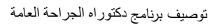
Liver Surgical and Applied Anatomy Surface anatomy Extrahepatic Biliary Tract and Gallbladder Surface anatomy Anatomical variations	6 hr.	6 hr.	13.3%	
Pancreas Spleen Surface anatomy Adrenal Glands				
Kidneys, Ureters and Urinary Bladder Surface anatomy Anatomical variations Male Genital System Testis, 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	3 hr.	3 hr.	6.7%	
Pelvis and Perineum Pelvic floor and its dysfunction	3 hr.	3 hr.	6.7%	
Total	45hr	45hr	%	





1. Modified Lectures	٤- أساليب التعليم والتعلم
2. Tutorial	والتعلم
3. Seminars	
	م أب النب التحاد
	٥- أساليب التعليموالتعلم للطلاب ذوى
لا ينطبق	القدرات المحدودة
:	٦- تقويم الطــــــــــــــــــــــــــــــــــــ
1. Written exams	أ- الأساليب
2. Oral exams	المستخدمة
At end of the first term	ب- التوقيت
Written exam 100	جــ توزيع
• Oral exam 100	جــ توزيع الدرجات
اسية والمراجع :	٧- قائمة الكتب الدر
Lectures notes	أ- مذكرات
Essential books (text books)	ب- كتب ملزمة
- Department books	
- Gray's Anatomy for students, 2013	
3 rd ed. By Richard Drake, A. Wayne Vogl and Adam W.M	
Mitchell, Churchill Livingstone.	
	ı







Recommended books:	جـ- كتب مقترحة
- Last R.J: Anatomy Regional and Applied, 2011.	
12 th ed. By Chummy S. Sinnatamby, the English society &	
Churchill Livingstone, Edinburgh and London.	
- Langman's Medical Embryology, 2011.	
13 th ed. By Sadler T.W, Lippincott Williams and Wilkins,	
Philadelphia.	
- Clinically Oriented Embryology, 2001.	
6 th ed. By Moore K. & Persaud T., Philadelphia, WB Saunders	
Company.	
- Carpenter's Human Neuroanatomy, 1996.	
9 th ed. By Andre Parent and Malcom B. Carpenter, Lippincott	
Williams and Wilkins.	
- Human Embryology & Developmental Biology, 2013.	
5 th ed. By Bruce M. Carlson, Saunders.	
www.bfom.edu.eg.	د – دوريات
	د ــ دوريات علمية أو نشرات

تاریخ مجلس القسم: ۲۰۱۳/۹/۸

رئيس مجلس القسم: اد/ عصام السيد عيد





جامعة بنها كلية الطب البشرى قسم الباثولوجيا

توصيف مقرر الباثولوجيا التطبيقية لدكتوراه الجراحة العامة

	بيانات المقرر
اسم المقرر: الباثولوجيا التطبيقية دكتوراه جزء أول	الرمز الكود <i>ي</i> : SURG 703
عدد الوحدات الدراسية: نظري 3 credit hours	التخصص : دكتوراه الجراحة العامة
 Good application of basic pathological knowledge essential for the 	۱_ هدف
 practice of general surgery. Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations. 	المقرر:
 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. Plagnosis of proctical problems as eases study and clinical assessments.	
 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.	





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
2.a.2 Define stem cells.	أـ المعلومات والمفاهيم :
2.a.3 Describe different circulatory disturbances.	,,
2.a.4 Explain cell response to injury and tissue repair.	
2.a.5 Discuss tissue deposits.	
2.a.6 List different diagnostic methods in pathology.	
2.a.7 Discuss different salivary gland diseases as inflammatory and neoplastic	
diseases.	
2.a.8 Flashlight on different hepato-billiary diseases.	
2.a.9 Discuss diseases of blood vessels either arteries or veins .	
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.	
2.b.1 Interpret disturbance of growth and neoplasm formation.	ب- المهارات
2.b.2 Identify different developmental and genetic diseases.	ب- المهارات الذهنية:
2.b.3 Assess risk of radiation.	الدهنية:
2.b.4 Identify principles of basic immunopathology.	
2.b.5 Analyze diseases of gastrointestinal system as regard clinical manifestations	
,path physiology ,risk factors and management.	
2.b.6 Classify different endocrinal diseases.	
2.b.7 Plan for early cancer breast detection by different methods.	
2.b.8 Assess different testicular diseases as testicular tumors.	
2.b.9 Identify diseases of scrotum, seminal vesicle.	
2.b.10 Identify diseases of Lymph-reticular system & spleen.	
2.c.1 Diagnose and manage cases of inflammation, granuloma and viral diseases	جـ المهارات
2.c.2 Write 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.	المهنية الخاصة بالمقرر:
2.c.5 Diagnose and manage breast diseases either benign lesions ,cysts , swellings,	بالمقرر ·
nipple discharge or cancer breast.	ا بالمراز
2.c.6 Manage a case of testicular tumor.	
2.c.7 Examine a case of splenomegaly and lymphadenopathy.	





2.d.1Use of stem cells in different surgical diseases	د - المهارات
2.d.2 Work in team for proper assessment and management of hepato-billiary	د - 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	Total	% of
	(hrs)	(hrs)	Total
General Pathology			
Cell response to injury, Stem cells and repair, Tissue deposits	2hr	2hr	4.4%
Inflammation ,Granulomas ,Viral disease	2hr	2hr	4.4%
Disturbance of growth Neoplasia, Developmental and genetic diseases	2hr	2hr	4.4%
Circulatory disturbances, Radiation Basic imunopathology	3hr	3hr	6.7%
Diagnostic methods in pathology	3hr	3hr	6.7%
Special Pathology			
Diseases of the Gastrointestinal system	7hr.	7hr.	15.6%
Salivary glands.Lungs: tumors	2hr.	2hr.	4.4%
Diseases of Liver & biliary tract:	4hr.	4hr.	8.9%
Diseases of the Blood vessels, Endocrine	4hr.	4hr.	8.9%
Breast. Bone	5hr.	5hr.	11.1%
Urinary Tract tumors. Testis, prostate, scrotum, seminalvesicle	4hr	4hr	8.9%
Pediatric congenital anomalies, Diseases of Lymphoreticular system & spleen	4hr	4hr	8.9%
Types of biopsies. Diagnostic methods	3hr	3hr	6.7%
Total	45hr	45hr	%

1. Modified Lectures

2. Tutorial

- 3. Seminars
- 4. Small group discussion and case studies.
- 5. Practical sessions (histopathology slide lab-museum of pathology)

٤- أساليب التعليم والتعلم





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 100	جــ توزيع الدرجات
• Oral exam 100	الدرجات
سية والمراجع :	ـــــــــــــــــــــــــــــــــــــ
• Lectures notes	أ- مذكرات
• Essential books (text books)	ب- كتب ملزمة
- Department book.	
- Rapid Review pathology, 2013.	
4 th ed. By Edward F. Goljan, saunders.	
• Recommended books:	جــ كتب مقترحة
- Robbins & Cotran pathologic Basis of disease, 2013.	
9 th ed. By Vinay Kumar, Abul K. Abbas and Jon C. Aster,	
Saunders.	
www.pathpedia.com	د ــ دوريات علمية أو نشرات
www.pathmax.com	علمية أو نشرات

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



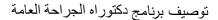


جامعة بنها كلية الطب البشرى قسم الجراحة العامة

توصيف مقرر الجراحة العامة لدكتوراه الجراحة العامة

	بيانات المقرر
الفرقة / المستوى:	الرمز الكودي :
اسم المقرر: الجراحة العامة دكتوراه جزء ثان	SURG 704
عدد الوحدات الدراسية: عملى 8 credit hours نظري 8 credit hours	
عملی 4 credit hours نظري	التخصص : دكتوراه الجراحة
في ثلاثة فصول دراسية	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.

هدف المقرر:

- 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.





	- المستهدف من ا
By the end of the course, the student should be able to:	1 1 11 1
2. a.1.Describe the metabolic response to injury.	أ- المعلومات والمفاهيم :
2. a.2.List different types of shock.	والمقاهيم :
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 Flashlight on evidence- based surgery.	
2.a.15 State the importance of patient safety during surgical	
practice.	
2.a.16 Discuss principles of diagnostic imaging techniques,	
advantages and disadvantages.	
2.a.17 Flashlight on role of ultra-sonography, CT, MRI in trauma	
,bone, soft tissue and common surgical clinical disease imaging.	
2.a.18 Outline role of nuclear medicine as bone scan and PET in oncology.	
2.a.19 Outline diagnostic and therapeutic role of GIT endoscopy.	
2.a.20 Describe endoscopy unit.	
2.a.21 Outline principles and benefits of tissue diagnosis.	
2.a.22 Discuss pre-operative preparation of patient.	
2.a.23 Enumerate causes of malnutrition.	
2.a.24 Order the system of discharging patients.	
2.a.25 Explain physiology of cerebral blood flow.	
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- 2.a.26 Enumerate different types and pathology of spinal injury.
- 2.a.27 Define Torso trauma.
- 2.a.28 Explain anatomical zones according to torso trauma.
- 2.a.29 Define abdominal compartmental syndrome.
- 2.a.30 Discuss damage control surgery.
- 2.a.31 Outline principles of fracture management.
- 2.a.32 Explain methods of calculation of fluid therapy in management of burn.
- 2.a.33 Discuss features of conditions peculiar to disaster situations and treatment.
- 2.a.34.List deformities of musculoskeletal systems
- 2.a.35.Flashlight on pediatric orthopedic management.
- 2.a.36 List causes of dysphagia and how to manage.
- 2.a.37.Enumerate disorders of salivary glands.
- 2.a.38 Describe development and anatomy of thyroid and parathyroid glands
- 2.a.39 outline the pathway for clinical diagnosis of patient presenting with abdominal complaint.
- 2.a.40 List types of hernias and how to classify.
- 2.a.41. Describe anatomy and physiology of upper and lower GIT.
- 2.a.42 List types of esophageal perforations and motility disorders.
- 2.a.43. Flashlight on bariatric surgery outcome and complications
- 2.a.44. Explain management of pancreatitis.
- 2.a.45.Enumerate risk factors and hereditary disorders that predispose to colorectal caner
- 2.a.46. Enumerate causes of painful anal conditions and how to manage.
- 2.a.47.List tumors of genitourinary systems.
- 2.a.48.Flashlight on BPH and cancer prostate and how to manage.
- 2.a.49.Flashlight on principles of organs transplantation.
- 2.a.50 List various types of venous disorders and their complications .
- 2.a.51 Discuss surgical audit.





- 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.
- 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 the principles of robotic surgery, theater and tools.
- 2.b.9 Make decision when to turn laparoscopic surgery to open surgery.
- 2.b.10 Demonstrate different congenital malformations.
- 2.b.11 Identify the biological metabolism of cancer.
- 2.b.12 Formulate informed consent, scientific papers and surgical ethics.
- 2.b.13 Demonstrate the methods of radiological protection from hazards of radiation.
- 2.b.14 Interpret different imaging methods and proper diagnosis of surgical diseases.
- 2.b.15 Demonstrate use and principles of ERCP and capsule endoscopy.
- 2.b.16 Link between pathological and surgical aspects of surgical diseases.
- 2.b.17 Solve intra-operative problems and decrease risk on patients.
- 2.b.18 Classify high risk patients.
- 2.b.19 Estimate methods of providence nutritional supports.
- 2.b.20 Identify nutritional requirements.
- 2.b.21 Identify principles of enhanced recovery.





- 2.b.22 Asses the priority of patient in early management of trauma.
- 2.b.23 Identify principles of triage.
- 2.b.24 Demonstrate primary and secondary survey of polytraumatized patient.
- 2.b.25 Interpret physiology of cerebral blood flow and pathology of raised intra-cranial tension.
- 2.b.26 Identify types of cerebral injury and different surgical aspects.
- 2.b.27 Asses prognostic factors affecting functional outcome and patient rehabilitation.
- 2.b.28 Identify life threatening injury of maxillofacial trauma.
- 2.b.29 Classify facial fractures.
- 2.b.30 Evaluate thoracic and abdominal injury as liver and spleen trauma and indications of thoracotomy and abdominal exploration.
- 2.b.31 Classify fractures of extremities.
- 2.b.32 Asses area and depth of burn.
- 2.b.33 Classify skin flaps.
- 2.b.34. Evaluate different sport injuries
- 2.b.35.Classify musculoskeletal ,cutaneous and subcutaneous tumors and swellings and how to manage.
- 2.b.36.Evaluate breast mass and how to manage.
- 2.b.37. Classify pancreatic cysts and pancreatic neoplasm.
- 2.b.38. Analyse hepato-billiary disorders and how to manage.
- 2.b.39.Classify complications of splenectomy and list benefits of conservative splenectomy.
- 2.b.40. Classify liver and splenic swellings.
- 2.b.41 Plan management of appendicitis and appendicular tumors.
- 2.b.42 .Plan for managements of genitor-urinary stones .
- 2.b.43 Demonstrate methods of pain relief and different types of anesthesia.





- 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. Manage a case of anastomotic leak.
- 2.c.6 manage a case of diathermy complications.
- 2.c.7 Perform different laparoscopic surgery.
- 2.c.8 Diagnose complications of laparoscopic surgery.
- 2.c.9 Manage trauma in pediatrics.
- 2.c.10 Manage complications of endoscopy.
- 2.c.11 Show techniques of endoscopic use either upper GIT endoscopy or colonoscopy.
- 2.c.12 Manage post-operative complications.
- 2.c.13 Plan the selection criteria of day case surgery.
- 2.c.14 Examine trauma patient and initial resuscitation.
- 2.c.15 Perform necessary protocols for early stabilization of patients.
- 2.c.16 Manage a case of head trauma.
- 2.c.17 Plan for prevention of brain injury.
- 2.c.18 Diagnosis of spontaneous intra-cranial bleeding as subarachnoid hemorrhage and rupture of aneurysms.
- 2.c.19 Examine a patient with facial injury.
- 2.c.20 Manage torso trauma based on physiology and anatomy.
- 2.c.21 Perform different techniques of burn treatment.
- 2.c.22 Plan for management of tissue loss.
- 2.c.23. Examine different systems and organs of the body.
- 2.c.24. Diagnose different types of bone and joint infection.
- 2.c.25. Manage acute and chronic limb ischemia.
- 2.c.26. Mange lymphoma and role of chemotherapy, radiotherapy and immunotherapy in treatment.
- 2.c.27. Diagnose gastric cancer and analyze the outcome of surgical intervention.
- 2.c.28.Manage of inflammatory bowel disease, their complications and their impact on life.
- 2.c.29.Dignose and mange different endocrine disorders and explain the role of surgery.
- 2.c.30.Manage coronary heart diseases and its outcome of surgical intervention.

جـ المهارات

لمهنية الخاصة

بالمقرر :





- 2.d.1. Instruct students about the principles of diathermy, legasure and harmonic.
- د المهارات العامة ·

- 2.d.2 Develop the skill of using staplers for anastomosis.
- 2.d.3 communicate effectively with physicians, pathologists ,radiologists and microbiologist for proper diagnosis of surgical diseases in tropics as amebiasis ,hydatid , T.B enteritis and tropical chronic pancreatitis.
- 2.d.4 Develop knowledge of pediatric oncology.
- 2.d.5 Develop the ability of screening and early detection of cancer as breast ,gastric and esophageal cancer.
- 2.d.6 Lead a work team for better diagnosis and management of malignancy.
- 2.d.7 Exercise on practical application of surgery.
- 2.d.8 Develop good working relationship and close collaboration with radiology department for proper use of diagnostic imaging in surgical practice.
- 2.d.9 Use endoscopic ultra-sonography.
- 2.d.10 Use of different types of skin grafts and flaps.
- 2.d.11.Communicate efficiently with the patient and learn how to take full history.
- 2.d.12 Instruct patient about the importance of self —breast examination.





Subject	Lectures (hrs)	Tutorial / Small group discussio n (hrs)	Practical (hrs)	Total (hrs)	% of Total	٣- محت <i>وى</i> 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 & Robotic 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 of high risk patients 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 Maxillo-facial trauma Torso trauma Emergency neurosurgery Neck and spine Extremity trauma Burns Plastic and reconstructive surgery Disaster surgery	12hr	12hr	36hr	60hr	10%	
ELECTIVE ORTHOPAEDICS History taking and clinical examination in musculoskeletal disease Sports medicine and injury The spine Upper limb - pathology, assessment and management Hip and knee Foot and ankle Muskulo-skeletal tumors Infection of the bones and joints Pediatric orthopedic	10hr	10hr	30hr	50hr	8.3%	
SKIN AND SUBCUTANEOUS TISSUE	5hr.	5hr.	15hr	25hr	4.2%	





Total	120hr	120hr	360hr	600hr	%
TRANSPLANTATION	3hr	3hr	9hr	15hr	2.5%
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%
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%
VASCULAR Arterial disorders Venous disorders Lymphatic disorders	12hr	12hr	36hr	60hr	10%
CARDIOTHORACIC Cardiac surgery	3hr	3hr	9hr	15hr	2.5%
BREAST AND ENDOCRINE The thyroid and parathyroid glands The adrenal glands and other abdominal endocrine disorders The breast	10hr	10hr	30hr	50hr	8.3%
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%





1- Modified Lectures(Group discussion- Problem solving- Brain	٤- أساليب التعليم
storming)	والتعلم
2- Tutorial	
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	والتعلم للطلاب ذوى
	القدرات المحدودة
	ا ٦- تقويم الطلاب
1- Written exams (3 papers including case scenarios)	أ- الأساليب
2- Oral exams	المستخدمة
3- Practical and clinical exams	
4- Operative	
At end of the fourth term	ب- التوقيت ج- توزيع الدرجات
Written exam 250 M (3 papers including case scenarios)	جــ توزيع
• Oral exam 100 M	الدرجات
Practical and clinical exams 200 M	
Operative 100 M	
Operative 100 W	
اسية والمراجع:	٧- قائمة الكتب الدر
Lectures notes	أ- مذكرات
• Eggential healts (taxt healts)	ب- کتب ملزمة
 Essential books (text books) Bailey& Love's practice of Surgery, 2013. 	<u>ب- سب</u> حر ح
26 th ed. By Norman S. Williams, Curistopher J. K bulstrode and	
P. Ronan O'Connell, CRC press.	
1. Rohan O Collich, CRC press.	
	1





• Recommended books:	جـ كتب مقترحة
- Essential General surgical operations, 2007.	
2 nd ed. By R. M. Kirk and marc C. Winslet, Churchill	
Livingstone.	
- Current Medical Diagnosis & Treatment, 2013.	
54 th ed. By Maxine papadakis, stephen J. Mcphee and Michael w.	
Rabow, McGraw Hill Medical.	
- Clinical surgery, 2012.	
3 rd ed. By Michael M. Henry and Jeremy N. Thompson,	
Saunders.	
- Sabiston text book of surgery: The biological basis of modern	
surgical practice, 2012.	
19 th ed. By Courtney M. Townsend, R. David Beauchamp, b.	
Mark Evers and Kenneth L. Mattox, Saunders.	
www.general.surgery.ucsf.edu	د – دوريات
www.gsasa.com	علمية أو نشرات

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