



**توصيف برنامج دكتوراه الجراحة العامة
(عام 2013-2014)**

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. ٣. 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 - 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 ١)

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 (ملحق ٢)**

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 المعتمدة	الكود	المقررات	البند
٦ ساعات	UNIV 601	للجامعة والكلية	متطلبات
		يشمل الآتي:	الجزء الأول



توصيف برنامج دكتوراه الجراحة العامة



٣	SURG 701	١. تشريح	
3	SURG 703	٢. باثولوجي	
4 ساعة		حضور لستة عمليات الجراحة	الجزء الثاني
8 ساعات	SURG 704	حضور محاضرات الجراحة	مواد التخصص
4 ساعات		حضور أسبوع الحوادث والطوارئ	كراسة الانشطة
8 ساعة		حضور سكاشن الجراحة	
5 ساعة		كراسة النشاط وحضور مؤتمرات ودولية	
5 ساعة		كراسة النشاط وحضور مؤتمرات محلية	
5 ساعة		كراسة النشاط وحضور المؤتمر السنوي للقسم	
15 ساعة		الرسالة	رسالة الدكتوراة
٦٠ ساعة			الإجمالي

First part (one semester):

a- Compulsory courses:

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

b- Elective courses: none

c- Selective: none



Second part (2 semesters):

a- Compulsory courses:

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

b- Elective courses: none

c- Selective: none

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

- كود أو رقم المقرر
- اسم المقرر
- المحتويات

6 - متطلبات الإلتحاق بالبرنامج : (6): Program admission requirements

مادة (٢٣) : يشترط لقياد الطالب لدرجة الدكتوراه فى الطب أو الجراحة أو العلوم الطبية الأساسية أن يكون

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

أو على درجة معادلة لها من معهد علمى آخر معترف به من الجامعة •

☒ مدة الدراسة لنيل الدكتوراه سنتان ونصف موزعة كما لآتى : •



توصيف برنامج دكتوراه الجراحة العامة

- **جزء أول : علوم أساسية** • فصل دراسي لمدة ستة شهور (٦ ساعات معتمدة) ومن يرسب يعيد مادة الرسوب فقط •

- **الجزء الثاني :** 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 تنتهى 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 التحريرى والإكلينيكية والشفهى (الامتحان الشامل) يمنح الطالب الدرجة بعد مناقشة الرسالة واجتياز الامتحان الشامل. - يكون التقدم للقيود لدرجة الدكتوراه مرتين فى السنة خلال شهرى مارس وأكتوبر من كل عام.

٧-القواعد المنظمة لإستكمال البرنامج : (طبقاً لما هو مذكور فى 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 التفصيلى للمقررات فى 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 فى الطالب لنيل درجة ماجستير التخصص فى أحد الفروع الاكلينيكية والعلوم الطبية الأساسية:
أ- حضور المقررات الدراسية والتدريبات الاكلينيكية والعملية والمعملية بصفة مرضية طبقاً للساعات المعتمدة.
ب- أن يقوم بالعمل كطبيب مقيم أصلى أو زائر لمدة سنة على الأقل فى قسم التخصص بالنسبة للعلوم الاكلينيكية.
ت- أن ينجح فى امتحان القسمين الأول والثانى.
ث- اجتياز الطلب لثلاث دورات فى الحاسب الآلى (دورة فى مقدمة الحاسب - دورة تدريبية متوسطة - دورة فى تطبيقات الحاسب الآلى) وذلك قبل مناقشة الرسالة.



توصيف برنامج دكتوراه الجراحة العامة

ج- اجتياز اختبار التوفيل بمستوى لا يقل عن ٤٠٠ وحدة وذلك قبل مناقشة الرسالة.
أن يقوم باعداد بحث فى موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهى باعداد رسالة تقبلها لجنة التحكيم.

٨- طرق وقواعد تقييم الملتحقين بالبرنامج

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

Final exam:

First part

إجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	عملي	شفهي	تحريري		
٢٠٠	---	--	١٠٠	١٠٠	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	تشريح
٢٠٠	---	---	١٠٠	١٠٠		باثولوجي
٤٠٠	إجمالي الدرجة					



توصيف برنامج دكتوراه الجراحة العامة



Second part

إجمالي	الدرجة				الاختبار	المقرر
	عمليات	إكلينيكي	شفهي	تحريري		
				١٠٠	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار اكلينيكي	الجراحة العامة
				+		
	١٠٠	٢٠٠	١٠٠	١٠٠		
				+		
				حالة		
				٥٠		
٦٥٠						إجمالي الدرجة

10- Evaluation of Program:

10 - طرق تقويم البرنامج:

Evaluator	Tools	sample
Internal evaluator (s) مقيم داخلي	report	1 Report
External Evaluator (s) مقيم خارجي	report	1 Report
Senior student (s) طلاب السنة النهائية	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

التاريخ : 14/8/2013

التوقيع



توصيف برنامج دكتوراه الجراحة العامة

الملحقات :

ملحق ١ : 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



**ملحق ١ : Academic Reference for MD Degree in
General surgery**

1. Attributes of gratitude.

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

- ١,١ **Master** the principles and methodologies of medical scientific research and use available tools to apply it in the field of general surgery
- ١,٢ **Participate** in the process of continuous education/ learning for continuous upgrading of surgical knowledge and skills
- ١,٣ **Apply** analytical and critical methodology for the appraisal of knowledge in the field of general surgery and specialties as vascular, plastic and oncology surgery
- ١,٤ **Deduce** a relationship between the basic surgical knowledge and its integration in the specialized surgical practices
- ١,٥ **Deal** effectively with current surgical problems and be aware of the recent state of the art regarding surgical problems
- ١,٦ **Recognize** different surgical problems related to the profession, analyze them and propose suitable solutions
- ١,٧ **Practice** all basic and special surgical skills and use of technological tools to serve general surgical practice
- ١,٨ **Enrich** the academic and surgical abilities to develop new methods and tools regarding surgical practice and be able to tolerate new technology
- ١,٩ **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
- ١,١١ **Take** the suitable decision in the light of available and acquired information and different contexts of general surgery practice



١,١٢ **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

١,١٤ **Show** self-commitment and dedication regarding the code of ethics of surgical practice

١,١٥ **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 co-operation.



توصيف برنامج دكتوراه الجراحة العامة



- 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

الاجتماع مجلس القسم بتاريخ 6/2013

رئيس مجلس القسم اد/ محمد مختار الشماوي

اعتماد مجلس الكلية

٢٠١٣٩٦٩١٦



توصيف برنامج دكتوراه الجراحة العامة

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 العلمى
 - ٢-١ العمل المستمر على الاضافة للمعارف فى مجال التخصص
 - ٣-١ تطبيق المنهج التحليلى والناقد للمعارف فى مجال التخصص والمجالات ذات العلاقة
 - ٤-١ دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البيئية بينها
 - ٥-١ اظهار وعيا عميقا بالمشاكل الجارية والنظريات الحديثة فى مجال التخصص
 - ٦-١ تحديد المشكلات المهنية وايجاد حلولاً مبتكرة لحلها
 - ٧-١ اتقان نطاقا واسعا من المهارات المهنية فى مجال التخصص
 - ٨-١ التوجة نحو تطوير طرق وادوات واساليب جديدة للمزاولة المهنية
 - ٩-١ استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
 - ١٠-١ التواصل بفاعلية وقيادة فريق عمل فى سياقات مهنية مختلفة
 - ١١-١ اتخاذ القرار فى ضل المعلومات المتاحة
 - ١٢-١ توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على ايجاد موارد جديدة
 - ١٣-١ الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة
 - ١٤-١ التصرف بما يعكس الالتزام بالنزاهة والمصادقية وقواعد المهنة
 - ١٥-١ الالتزام بالتنمية الذاتية المستمرة ونقل علمه وخبراته للاخرين

٢- المعايير القياسية

- ١-٢ المعرفة والفهم
- بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على الفهم والدراسة بكل من
- ١-١-٢ النظريات والاساسيات والحديث من المعارف فى مجال التخصص والمجالات ذات العلاقة
 - ٢-١-٢ اساسيات ومنهجيات واخلاقيات البحث العلمى وادواته المختلفة
 - ٣-١-٢ المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
 - ٤-١-٢ مبادئ واساسيات الجودة فى الممارسة فى مجال التخصص
 - ٥-١-٢ 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
- ١-٢-٢ تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها والاستنباط منها
 - ٢-٢-٢ حل المشاكل المتخصصة استنادا على المعطيات المتاحة



توصيف برنامج دكتوراه الجراحة العامة

- ٣-٢-٢ اجراء دراسات بحثية تضيف الى المعارف
- ٤-٢-٢ صياغة أوراق علمية
- ٥-٢-٢ تقييم المخاطر في الممارسات المهنية
- ٦-٢-٢ التخطيط لتطوير الاداء في مجال التخصص
- ٧-٢-٢ اتخاذ القرارات المهنية في سياقات مهنية مختلفة
- ٨-٢-٢ الابتكار/الابداع
- ٩-٢-٢ الحوار والنقاش المبني على البراهين والادلة

٣-٢ المهارات المهنية

- بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على
- ١-٣-٢ اتقان المهارات المهنية الاساسية والحديثة في مجال التخصص
- ٢-٣-٢ كتابة وتقييم التقارير المهنية
- ٣-٣-٢ تقييم وتطوير الطرق والادوات القائمة في مجال التخصص
- ٤-٣-٢ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية
- ٥-٣-٢ التخطيط لتطوير الممارسة المهنية وتنمية اداء الاخرين

٤-٢ المهارات العامة والمنتقلة

- بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على
- ١-٤-٢ التواصل الفعال بأنواعه المختلفة
- ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية
- ٣-٤-٢ تعليم الاخرين وتقييم ادائهم
- ٤-٤-٢ التقييم الذاتي والتعليم المستمر
- ٥-٤-٢ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
- ٦-٤-٢ العمل في فريق وقيادة فرق العمل
- ٧-٤-٢ ادارة اللقاءات العلمية والقدرة على ادارة الوقت



توصيف برنامج دكتوراه الجراحة العامة

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

المعايير الأكاديمية المتبناة للبرنامج					المعايير الأكاديمية القياسية	
المهارات العامة	المهارات المهنية	المهارات الذهنية	المعارف والفهم	مواصفات الخريج		
				١	١,١	مواصفات الخريج
				٢	١,٢	
				٣	١,٣	
				٤	١,٤	
				٥	١,٥	
				٦	١,٦	
				٧	١,٧	
				٨	١,٨	
				٩	١,٩	
				١٠	1.10	
				١١	1.11	
				١٢	1.12	
				١٣	1.13	
				١٤	1.14	
				١٥	1.15	
			2.1.1		٢,١,١	المعرفة والفهم
			2.1.4		٢,١,٢	
			2.1.2		٢,١,٣	
			2.1.5		٢,١,٤	
			2.1.3		2.1.5	
		٢,٢,١			٢,٢,١	المهارات الذهنية
		٢,٢,٢			٢,٢,٢	
		٢,٢,٣			٢,٢,٣	
		٢,٢,٤			٢,٢,٤	
		٢,٢,٥			٢,٢,٥	
		2.2.6			2.2.6	
		2.2.7			2.2.7	
		2.2.8			2.2.8	
		2.2.9			2.2.9	
	٢,٣,١				٢,٣,١	المهارات المهنية
	٢,٣,٢				٢,٣,٢	
	2.3.3				2.3.3	
	2.3.4				2.3.4	
	2.3.5				2.3.5	
2.4.1					2.4.1	١



توصيف برنامج دكتوراه الجراحة العامة



المعايير المتبناة للبرنامج	الأهداف العامة للبرنامج		نواتج التعلم والتعليم			
	المعرفة والفهم	المهارات الذهنية	المهارات المهنية	المهارات العامة والمنقولة		
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توصيف برنامج دكتوراه الجراحة العامة

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

Knowledge & Understanding												ILOs	Courses & codes	Courses
2.a.12	2.a.11	2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1			
											*	<i>SURG</i> 701	Applied Anatomy	
		*							*		*	<i>SURG</i> 703	Applied pathology	
*	*	*	*	*	*	*	*	*	*	*	*	<i>SURG</i> 704	General surgery	



توصيف برنامج دكتوراه الجراحة العامة



Intellectual 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 &	
	*								<i>SURG 701</i>	Applied Anatomy
	*			*	*			*	<i>SURG 703</i>	Applied pathology
*	*	*	*	*	*	*	*	*	<i>SURG 704</i>	General surgery

Practical & Professional Skills					ILOs	
2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	codes	Courses & Courses
				*	<i>SURG 701</i>	Applied Anatomy
			*		<i>SURG 703</i>	Applied pathology
*	*	*	*	*	<i>SURG 704</i>	General surgery

General and transferable							ILOs	
2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1	Courses & codes	Courses
		*	*		*		<i>SURG 701</i>	Applied Anatomy
		*	*		*		<i>SURG 703</i>	Applied pathology
*	*	*	*	*	*	*	<i>SURG 704</i>	General surgery



توصيف برنامج دكتوراه الجراحة العامة



ملحق ٦: توصيف المقررات التابعة للبرنامج

Program courses

First part
Applied Anatomy
Applied Pathology
Second part
General surgery and its branches



توصيف برنامج دكتوراه الجراحة العامة



جامعة بنها
كلية الطب البشرى
قسم التشريح الادمى وعلم الاجنة

توصيف مقرر التشريح التطبيقي
لدكتوراه الجراحة العامة

بيانات المقرر	
الفرقة / المستوى : دكتوراه جزء اول	اسم المقرر : التشريح التطبيقي الرمز الكودي : SURG 701
عدد الوحدات الدراسية : نظري 3 credit hour	التخصص : دكتوراه الجراحة العامة
<ul style="list-style-type: none">To have fair knowledge about the anatomy of different organs for efficient surgical practice.To make the student able to imagine the surface anatomy of different body structure important for surgical application.To know the basics of surgical anatomy.To describe the embryogenesis of the different body organs and the emergence of various congenital anomalies.	١- هدف المقرر:
٢- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i>	



<p>2.a.1 Describe the morphology , location ,vasculature , innervations & relations of different parts of human body.</p> <p>2.a.2 Flash light the embryogenesis of different anatomical structures.</p> <p>2.a.3 Enumerate the anatomy of the branchial remnants</p> <p>2.a.4 State the anatomic complications of different surgical operations</p> <p>2.a.5 Outline the anatomical principles of different surgical operations.</p> <p>2.a.6 Explain the most common variations to give an idea for the clinical application.</p> <p>2.a.7 Outline the impact of fine structure of the anatomical components.</p> <p>2.a.8 Describe the details of surgical & applied anatomy.</p> <p>2.a.9 Discuss the surface anatomy of the visible and deeper structures of the body.</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1 Classify different types of abdominal wall and internal hernias</p> <p>2.b.2 Estimate the complications of different surgical operations</p> <p>2.b.3 Evaluate the impact of perihepatic collections</p> <p>2.b.4 Demonstrate the anatomy of retroperitoneal structures</p> <p>2.b.5 Link between the anatomy of urogenital diaphragm and its congenital anomalies</p> <p>2.b.6 identify the surgical anatomy of omenta and omental bursa</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1 Apply the science of embryology on the development of various congenital anomalies</p> <p>2.c.2 Show the difference between the types of hernia</p> <p>2.c.3 Perform an imagination about the anatomical layers have to be opened in different abdominal incisions</p> <p>2.c.4 Evaluate the pelvic floor dysfunction and its effects.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>2.d.1. Use the basic science of anatomy for understanding different surgical diseases.</p> <p>2.d.2. Develop a colored atlas showing different anatomical structures</p> <p>2.d.3. Exercise on simple drawing of surface anatomy diagrams</p> <p>2.d.4. Perform information by all means, including electronic means.</p>	<p>د - المهارات العامة :</p>



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 Anatomy Anatomic 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 Anatomy Anatomic 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 Surgical and Applied Anatomy of the Peritoneum Surgical Anatomy of the Omenta and the Omental Bursa Perihepatic Collections Internal Abdominal Hernias Anatomic Complications Involving the Peritoneum and Omenta	3 hr.	3 hr.	6.7%
Retroperitoneum Embryogenesis and congenital anomalies Surgical and Applied Anatomy Great Vessels in the Abdomen Abdominal Aorta Inferior Vena Cava	3 hr.	3 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	6 hr.	6 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	6 hr.	6 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	3 hr.	3 hr.	6.7%	
Pelvis and Perineum Pelvic floor and its dysfunction	3 hr.	3 hr.	6.7%	
Total	45hr	45hr	%	



توصيف برنامج دكتوراه الجراحة العامة



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



<ul style="list-style-type: none">• Recommended books:<ul style="list-style-type: none">- Last R.J: Anatomy Regional and Applied, 2011. 12th ed. By Chummy S. Sinnatamby, the English society & Churchill Livingstone, Edinburgh and London.- Langman's Medical Embryology, 2011. 13th ed. By Sadler T.W, Lippincott Williams and Wilkins, Philadelphia.- Clinically Oriented Embryology, 2001. 6th ed. By Moore K. & Persaud T., Philadelphia, WB Saunders Company.- Carpenter's Human Neuroanatomy, 1996. 9th ed. By Andre Parent and Malcom B. Carpenter, Lippincott Williams and Wilkins.- Human Embryology & Developmental Biology, 2013. 5th ed. By Bruce M. Carlson, Saunders.	ج- كتب مقترحة
<p>www.bfom.edu.eg.</p>	د – دوريات علمية أو نشرات

تاريخ مجلس القسم: ٢٠١٣/٩/٨

رئيس مجلس القسم: اد/ عصام السيد عيد



توصيف برنامج دكتوراه الجراحة العامة



جامعة بنها
كلية الطب البشرى
قسم الباثولوجيا

توصيف مقرر الباثولوجيا التطبيقية
لدكتوراه الجراحة العامة

بيانات المقرر	
الفرقة / المستوى : دكتوراه جزء أول	اسم المقرر : الباثولوجيا التطبيقية الرمز الكودي : SURG 703
عدد الوحدات الدراسية : نظري 3 credit hours	التخصص : دكتوراه الجراحة العامة
<ul style="list-style-type: none">• Good application of basic pathological knowledge essential for the practice of general surgery.• Providing basic and specialized services in relation with biopsy diagnosis in the practice of medicine and investigations.• Application of special knowledge & its integration with others that have relation with the special practice.• Awareness of the running problems as early tumor detection and diagnosis of most of human body system.• Diagnosis of practical problems as cases study and clinical assessments.• Having fundamental knowledge of medical disciplines related to their clinical applications & able to use different technological tools as computer in the field of general surgery.• Having acquired competency to be teacher, trainer, researcher and leader in the field.• Diagnosis, problem solving and decision making skills necessary for proper evaluation and management.• Development of recent tools & ways essential for medical practice.• Awareness of his role in the progress of society and govern the environment in the light of international & local changes.• Honesty and respect the practical rules.• Lifelong learning competencies necessary for continuous professional development.	١- هدف المقرر:



٢- المستهدف من تدريس المقرر :

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

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



توصيف برنامج دكتوراه الجراحة العامة



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



Subject	Lectures (hrs)	Total (hrs)	% of Total	٣- محتوى المقرر:
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%	
Pediatic 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



توصيف برنامج دكتوراه الجراحة العامة



لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٦- تقويم الطلاب :	
1. Written exams 2. Oral exams	أ- الأساليب المستخدمة
• At end of the first term	ب- التوقيت
• Written exam 100 • Oral exam 100	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
• Lectures notes	أ- مذكرات
• Essential books (text books) - Department book. - Rapid Review pathology, 2013. 4 th ed. By Edward F. Goljan, saunders.	ب- كتب ملزمة
• Recommended books: - Robbins & Cotran pathologic Basis of disease, 2013. 9 th ed. By Vinay Kumar, Abul K. Abbas and Jon C. Aster, Saunders.	ج- كتب مقترحة
www.pathpedia.com www.pathmax.com	د - دوريات علمية أو نشرات

تاريخ مجلس القسم: ٢٠١٣/٩/٤

رئيس مجلس القسم: اد/ عبد اللطيف البلشى



توصيف برنامج دكتوراه الجراحة العامة



جامعة بنها
كلية الطب البشرى
قسم الجراحة العامة

توصيف مقرر الجراحة العامة
لدكتوراه الجراحة العامة

بيانات المقرر		
الفرقة / المستوى : دكتوراه جزء ثان	اسم المقرر : الجراحة العامة	الرمز الكودي : SURG 704
8 credit hours نظري	8 credit hours عملي	التخصص : دكتوراه الجراحة العامة
4 credit hours نظري	4 credit hours عملي	
فى ثلاثة فصول دراسية		



توصيف برنامج دكتوراه الجراحة العامة



١- هدف

المقرر:

- 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.



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 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.

أ- المعلومات
والمفاهيم :



- 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 cancer**
- 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 organ transplantation.**
- 2.a.50 List various types of venous disorders and their complications .**
- 2.a.51 Discuss surgical audit.**



ب- المهارات

الذهنية:

- 2.b.1 Classify wounds as regard types, wound closure and healing.
- 2.b.2 Asses a case of contracture ,hypertrophic scar or keloid.
- 2.b.3 Identify different types of tissue repair.
- 2.b.4 Select surgical incisions according to langer,s lines.
- 2.b.5 Select the suitable suture material.
- 2.b.6 Classify wound infection according to sources and severity.
- 2.b.7 Estimate the principles of antibiotic use and spectrum.
- 2.b.8 Demonstrate 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 poly-traumatized 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.**



<p>2.c.1. Manage a case of shocked patient.</p> <p>2.c.2. Apply different types of sutures.</p> <p>2.c.3. Perform different anastomoses either bowel as in low anterior resections or vascular.</p> <p>2.c.4. Diagnose a case of anastomotic leak.</p> <p>2.c.5. Manage a case of anastomotic leak.</p> <p>2.c.6. Manage a case of diathermy complications.</p> <p>2.c.7. Perform different laparoscopic surgery.</p> <p>2.c.8. Diagnose complications of laparoscopic surgery.</p> <p>2.c.9. Manage trauma in pediatrics.</p> <p>2.c.10. Manage complications of endoscopy.</p> <p>2.c.11. Show techniques of endoscopic use either upper GIT endoscopy or colonoscopy.</p> <p>2.c.12. Manage post-operative complications.</p> <p>2.c.13. Plan the selection criteria of day case surgery.</p> <p>2.c.14. Examine trauma patient and initial resuscitation.</p> <p>2.c.15. Perform necessary protocols for early stabilization of patients.</p> <p>2.c.16. Manage a case of head trauma.</p> <p>2.c.17. Plan for prevention of brain injury.</p> <p>2.c.18. Diagnosis of spontaneous intra-cranial bleeding as subarachnoid hemorrhage and rupture of aneurysms.</p> <p>2.c.19. Examine a patient with facial injury.</p> <p>2.c.20. Manage torso trauma based on physiology and anatomy.</p> <p>2.c.21. Perform different techniques of burn treatment.</p> <p>2.c.22. Plan for management of tissue loss.</p> <p>2.c.23. Examine different systems and organs of the body.</p> <p>2.c.24. Diagnose different types of bone and joint infection.</p> <p>2.c.25. Manage acute and chronic limb ischemia.</p> <p>2.c.26. Manage lymphoma and role of chemotherapy, radiotherapy and immunotherapy in treatment.</p> <p>2.c.27. Diagnose gastric cancer and analyze the outcome of surgical intervention.</p> <p>2.c.28. Manage of inflammatory bowel disease , their complications and their impact on life.</p> <p>2.c.29. Diagnose and manage different endocrine disorders and explain the role of surgery.</p> <p>2.c.30. Manage coronary heart diseases and its outcome of surgical intervention.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
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- 2.d.1. Instruct students about the principles of diathermy, legasure and harmonic.**
- 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.**

د - المهارات
العامة :



توصيف برنامج دكتوراه الجراحة العامة

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total (hrs)	% of Total	٣- محتوى المقرر:
SURGICAL PRINCIPLES The metabolic response to injury Shock and blood transfusion Wounds, tissue repair and scars Basic surgical skills and anastomoses Surgical Infection Surgery in the tropics Principles of laparoscopic & 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%	



توصيف برنامج دكتوراه الجراحة العامة

HEAD AND NECK Cleft lip and palate: developmental abnormalities of the face, mouth and jaws Pharynx and neck Oropharyngeal cancer Disorders of the salivary glands	10hr	10hr	30hr	50hr	8.3%
BREAST AND ENDOCRINE The thyroid and parathyroid glands The adrenal glands and other abdominal endocrine disorders The breast	10hr	10hr	30hr	50hr	8.3%
CARDIOTHORACIC Cardiac surgery	3hr	3hr	9hr	15hr	2.5%
VASCULAR Arterial disorders Venous disorders Lymphatic disorders	12hr	12hr	36hr	60hr	10%
ABDOMINAL History and examination of the abdomen Abdominal wall, hernia and umbilicus The peritoneum, omentum, mesentery and retroperitoneal space The oesophagus Stomach and duodenum Bariatric surgery The liver The spleen The gall bladder and bile ducts The pancreas The small and large intestines Intestinal obstruction The vermiform appendix The rectum The anus and anal canal	20hr	20hr	60hr	100hr	16.7%
GENITOURINARY Urinary symptoms and investigations The kidneys and ureters The urinary bladder The prostate and seminal vesicles The urethra and penis Testis and scrotum	10hr	10hr	30hr	50hr	8.3%
TRANSPLANTATION	3hr	3hr	9hr	15hr	2.5%
Total	120hr	120hr	360hr	600hr	%



توصيف برنامج دكتوراه الجراحة العامة



1- Modified Lectures(Group discussion- Problem solving- Brain storming) 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	٤- أساليب التعليم والتعلم
لا ينطبق	٥- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
٦- تقويم الطلاب :	
1- Written exams (3 papers including case scenarios) 2- Oral exams 3- Practical and clinical exams 4- Operative	أ- الأساليب المستخدمة
• At end of the fourth term	ب- التوقيت
• Written exam 250 M (3 papers including case scenarios) • Oral exam 100 M • Practical and clinical exams 200 M • Operative 100 M	ج- توزيع الدرجات
٧- قائمة الكتب الدراسية والمراجع :	
• Lectures notes	أ- مذكرات
• Essential books (text books) - Bailey& Love's practice of Surgery, 2013. 26 th ed. By Norman S. Williams, Curistopher J. K bulstrode and P. Ronan O'Connell, CRC press.	ب- كتب ملزمة



<ul style="list-style-type: none">• Recommended books:<ul style="list-style-type: none">- Essential General surgical operations, 2007. 2nd ed. By R. M. Kirk and marc C. Winslet, Churchill Livingstone.- Current Medical Diagnosis & Treatment, 2013. 54th ed. By Maxine papadakis, stephen J. Mcphee and Michael w. Rabow, McGraw Hill Medical.- Clinical surgery, 2012. 3rd ed. By Michael M. Henry and Jeremy N. Thompson, Saunders.- Sabiston text book of surgery: The biological basis of modern surgical practice, 2012. 19th ed. By Courtney M. Townsend, R. David Beauchamp, b. Mark Evers and Kenneth L. Mattox, Saunders.	ج- كتب مقترحة
<p>www.general.surgery.ucsf.edu www.gsasa.com</p>	د - دوريات علمية أو نشرات

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