

**Al-Azhar University**

**Faculty of medicine**

**General surgery department**

## **Course specification**

### ***Basic Information:***

#### **Program Title**

Master of General Surgery.

#### **Department offering the course**

##### **Main:**

- General Surgery
- GIT surgery

##### **Minor:**

- Orthopaedic Surgery
- Urology
- Plastic Surgery
- Neurosurgery
- Cardiothoracic surgery
- Anaesthesia & Critical Care

**Date of specification approval 1/1/2015**

#### ***Teaching Hours***

*Total: 36Months*

*Lecture: 64 (2 hrs)*

*Tutorials: 64 (2 hrs)*

*Practical/ Clinical:*

**Allocated Marks 900**

***Allocated Duration*** 36 Months (as per student)

**Course Director:** Prof/ Ahmed Abdel-Aziz Abdel-Ghaffar Head of Department

**Teaching Staff:** All Professors, Assistant Professors, and Lecturers & Assistant Lecturers of participating departments.

## **Professional Information:**

### **1- Objectives of the Course:**

#### **General Surgery Course Provides Graduate with:**

- A- Knowledge, skills and behavior in the fields of general surgery and surgical specialties that help students to be a safe general practitioner.
- B- Have the ability to solve surgical problems and perform specific tasks needed from a primary health care physician.

### **2- Intended Learning Outcomes of Course (ILOs):**

<b>A. Knowledge and Understanding:</b>	<p><i>By the end of the course, students will be able to:</i></p> <ul style="list-style-type: none"><li>. <b>Explain</b> the physiological and pathological processes related to surgical problems.</li><li>. <b>Describe</b> the pathogenesis, anatomical basis of surgical problems and the anatomical basis of operative management.</li><li>. <b>Describe</b> the clinical manifestations of common surgical conditions and their complications.</li><li>. <b>Describe</b> emergency surgical conditions.</li><li>. <b>List</b> different modalities of investigations used for diagnosis of diseases (laboratory, radiology, histopathology, endoscopy.).</li><li>. <b>Explain</b> principles of disease screening and prevention.</li><li>. <b>Outline</b> the management of surgical emergencies.</li><li>. <b>Outline</b> the operative and non-operative modalities in the management of common surgical conditions, (indications</li></ul>
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	<p>and contraindications).</p> <p><b>.Explain</b> basic principles of operative surgery like types of incisions, wound closure, methods of haemostasis, etc.</p> <p><b>.Describe</b> techniques of specified minor surgical procedures that he/she may perform during the postgraduate training year.</p> <p><b>.Outline</b> principles of the common surgical procedures including developing techniques, like minimally invasive, bariatric, transplantation procedures, etc.</p> <p><b>.Explain</b> preoperative preparation and postoperative care of common surgical procedures.</p> <p><b>.Recognize</b> different iatrogenic lesions caused during common surgical practice.</p> <p><b>. Demonstrate knowledge</b> of ethical issues commonly encountered during surgical practice.</p>
<p><b>B. Intellectual Skills</b></p>	<p><i>By the end of the course, students will be able to:</i></p> <p><b>-Integrate</b> basic and clinical data to reach a diagnosis.</p> <p><b>-Select</b> and prioritize appropriate investigations for a defined clinical situation and interpret the results.</p> <p><b>-Correlate</b> clinical data and results of investigations to reach a diagnosis.</p> <p><b>- Generate</b> a differential diagnosis for a clinical finding or set of findings.</p> <p><b>-Diagnose</b> iatrogenic, interventional and peri-operative complications from given relevant data.</p> <p><b>-Identify</b> the surgical conditions of public health and decide when to report and refer to higher health authority</p> <p><b>- Use</b> evidence based medicine in solving clinical problems.</p> <p><b>-Formulate</b> appropriate management plan for individual</p>

	<p>patients presenting with common surgical diseases.</p> <p><b>- Formulate</b> initial line of treatment in surgical emergencies.</p>
<p><b>C. Professional Skills</b></p>	<p><i>By the end of the course, students will be able to:</i></p> <p><b>Obtain</b> and record relevant medical history from the patient or a relative.</p> <p><b>Perform</b> general physical examination of patients with common surgical problems including:</p> <ol style="list-style-type: none"> <li>i. Proper Abdominal Examination</li> <li>ii. Examination of Breast.</li> <li>iii. Examination of Inguinoscrotal swellings.</li> <li>iv. Urologic examination (abd, pelvis, prostate and genitalia)</li> <li>v. Examination of swellings.</li> <li>vi. Examination of ulcers.</li> <li>vii. Examination of Lower Limb.</li> <li>viii. Examination of limbs to detect fractures, infections, swellings, skeletal deformities and length discrepancy.</li> <li>ix. Examination of joints properly to identify infection, deformity, ligament injury, effusion and dislocations.</li> <li>x. Proper Head and Neck Examination</li> <li>xi. Examination of local defects in cleft lip and palate patient.</li> <li>xii. Neurological examination of patients to detect common neurosurgical problems.</li> <li>xiii. Examination of the spine (vertebrae of neck and</li> </ol>

	<p>trunk).</p> <p>xiv. Examination of a convalescent patient after cardiothoracic surgery to identify and diagnose the abnormal findings to refer to specialized center.</p> <p>xv. Calculation of surface area and depth of simulated burn patient.</p> <p><b>Identify</b> pathologic findings in different modalities of imaging.</p> <p><b>Write</b> safe prescriptions of different types of drugs based on patient's weight, age and health conditions to manage common and life threatening conditions.</p> <p><b>Practice</b> basic principles of self and patient safety while dealing with surgical patients.</p> <p><b>Perform</b> bladder catheterization in male manikin. (preceded by video demonstration)</p> <p><b>Simulate</b> first aid measures for injured and critically ill patient:</p> <ul style="list-style-type: none"> <li>i. Simulate first aid measures in Shock and Bleeding (internal and external)</li> <li>ii. Perform Cardiopulmonary resuscitation.</li> <li>iii. Perform emergency tapping of tension pneumothorax or massive pleural effusion.</li> <li>iv. Simulate first aid measures in burn patient</li> <li>v. Suture superficial wound.</li> <li>vi. Perform wound dressing and bandage.</li> <li>vii. Simulate first aid measure in patient with amputated limb.</li> <li>viii. Simulate first aid measures in life threatening maxillofacial trauma.</li> </ul>
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	<p><b>Identify</b> and explain the use of equipment, disposables and instruments commonly used in surgery.</p> <p><b>Communicate</b> clearly, sensitively and effectively with patients and their care givers, regardless of their social, cultural or ethnic background.</p>
<p><b>D. General Skills:</b></p>	<p><i>By the end of the course, students will be able to:</i></p> <ol style="list-style-type: none"> <li>1. <b>Respect</b> the interests and dignity of patients and families.</li> <li>2. <b>Respect superiors</b>, colleagues and any other members of the health profession.</li> <li>3. <b>Communicate</b> effectively.</li> <li>4. <b>Work</b> cooperatively within a team.</li> <li>5. <b>Practice</b> self and peer evaluation.</li> <li>6. <b>Manage</b> time effectively.</li> </ol>

### **3- Course Contents**

#### **4- Teaching and Learning Methods**

- Lectures
- Tutorials
- Clinical rounds
- learning classes
- Directed Self education

## **Facilities Required for Teaching and Learning:**

- Halls for tutorials
- Audiovisuals
- Lecture Hall
- Seminar Halls
- Patient Examination Halls
- Skill Laboratory
- Faculty & ASUSH Libraries with subscription to high impact periodicals in general & specialty surgeries
- Electronic learning including module site and department interactive site
- CD of instruments, pathology, radiology, seminar cases, & teaching /exam tables and schedules.

## **5- Teaching and learning methods for students with learning difficulties**

- 1- Revision lectures and tutorial classes outside schedule
- 2- Assignments

## **6- Student Assessment Methods:**

- Weekly assessments during clinical period
- Presentations
- Written exam:[MCQ, Short Essay]
- OSCE
- Slide exam
- **[Special surgery]**

- Final exam
- WRITTEN EXAMS: [MCQ, Short Essay]
- PRACTICAL EXAMS: [Clinical, Slides]
- ORAL EXAM

## Time Schedule

### ❖ Every week:

- Weekly Assessments inTutorials
- Weekly Presentations

### ❖ END of YEAR:

- Practical Exam: Clinical / Slides
- Written Exam
- Multiple Choice Questions
- Short Essay
- Long Essay
- Case Studies
- Oral Exam

## 7- List of References

### • **Bailey and Love's Short Practice of Surgery 25th Edition**

Norman S. Williams, Christopher J.K. Bulstrode, P. Ronan O'Connell (Editors);  
London: Edward Arnold (Publishers), 2008.

### • **CURRENT Surgical Diagnosis & Treatment 13th Edition**

Lawrence W. Way, Gerard M. Doherty (Editors); McGraw Hill Companies  
(Publisher); 2003

### • **Browse's Introduction to the Symptoms & Signs of Surgical Disease 4<sup>th</sup> Edition**

Norman L. Browse, John Black, Kevin G. Burnand, William E. G. Thomas



(Editors); Hodder Arnold (Publisher); 2005

- **Clinical Cases and OSCEs in Surgery, 2nd Edition** Manoj

Ramachandran, Marc A Gladman (Editors); London: Churchil

Livingstone (Publisher); 2011

**Other Text books**

**Course Coordinator:**

**Prof. Dr. Ahmed Abdel-Aziz Abdel-Ghaffar**

**Date:1/1/2015**