Faculty of Medicine
Ain Shams University

Postgraduate Studies

Diploma in General Surgery

درجة الدبلوم الجراحة العامة (GS900)

Program Code: GS900

Program Guide and Logbook
Candidate Curriculum Vitae

[Name]

Please attach your recent photo

[telephone no]
[mobile no]
[mailing address]

[email address]
[postcode]

Experience

[organization]
[your present job title]
[start date]
[location]
[responsibilities]

[organization]
[previous job title]
[start and end date]
[location]
[responsibilities]
[organization]
[previous job title]
[start and end date]
[location]
[responsibilities]

Education
[certificates]
[start and end date]
[school or college]
### Training

[any other training that will be useful in your job]

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_Visual Elements:_

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I – Welcome Statement:

The Department of General Surgery welcomes you to the Diploma in General Surgery. As a department we are committed to medical education and continuously strive to improve your educational experience. This handbook presents information guide and logbook activity of this degree in General Surgery administered by the General Surgery department, Faculty of Medicine, Ain Shams University.

II - Mission Statement:

The mission of the Faculty of Medicine, Ain Shams University is “The preparation of a competent graduate, who is able to compete on both national and regional levels, capable of lifelong learning, training and tutoring, while adhering to the codes of practice of medical health services and ethics. The college as well, seeks continuous development of programs and courses. It also enhances expansion of applied scientific research and health programs for community services and environmental development. Moreover, through providing distinguished academic and research cadres of teaching staff, supporting the administrative system and sustainability of own resources, the college is able to achieve goals and objectives”.

The mission of this degree is to prepare a surgeon of adequate knowledge, skills and experience to manage common surgical conditions and perform common surgical procedures, and capable of recognizing her/his abilities and capacity, and capable of recognizing conditions that demand consultation and referral to senior surgeons or surgeons of other specialties.

III – Senior Supervisor and Affiliated Departments and Hospitals

Senior Supervisor

Professor

E-mail:
Affiliated Departments and Hospitals

Military Hospitals
Ministry of Interior Hospitals
Ministry of Health Hospitals
University Hospitals
Government Hospitals
Specialized and Private Hospitals Approved by the Department

IV – Program Specifications

A- Basic Information

1. Program title:

Master of Science in General Surgery

2. Program type:  Single

3. Faculty of Medicine, Ain Shams University

4. Department of General Surgery

5- Coordinator

Professor Dr. Reda Abdel-Tawab

6. Assistant Coordinator

Professor Dr. Ahmed Ibrahim

7. Last date of program approval:

B- Professional Information:

1. Program aims:

The aim of this program is to provide an organized and comprehensive postgraduate education and training course in general surgery, to establish the basis
of sound surgical knowledge, skills and attitudes necessary for a qualified safe surgeon.

2. Intended learning outcomes (ILOs):
   a. Knowledge and understanding:
      By the end of the program the candidate will be able to:
      a1-Explain the biochemical, physiological and pathological processes underlying common surgical diseases and conditions
      a2-Explain the anatomical basis of surgical conditions, diseases and interventions
      a3-Describe the embryological basis of common congenital surgical diseases and conditions
      a4-Correlate common surgical infections with the causative pathogens
      a5-Describe the presentations of common surgical diseases
      a6-Define the relevant investigations required to reach an accurate diagnosis
      a7-Explain the medical treatment of surgical patients, its indications, contraindications, side effects, and mode of administration
      a8-Describe conservative management of surgical conditions, its indications, contraindications, and modalities
      a9-Explain the principles of operative surgery
      a10-Describe the appropriate technique and steps of common surgical procedures
      a11-Outline the principles of advanced and complex operations and surgical procedures
      a12-Outline the importance of patient education in surgery

   b. Intellectual capabilities:
      By the end of the program the candidate will be able to:
      b1- Classify surgical diseases and conditions
      b2 - Differentiate surgical diseases and conditions from each other
      b3 - Select appropriate laboratory and radiological investigations for each surgical condition
      b4 - Interpret the results of laboratory and radiological investigations
      b5 - Select the proper line of treatment
      b6- Demonstrates the ability to solve common surgical problems

   c. Professional and practical skills:
      By the end of the program the candidate will be able to:
      c1- Examine different systems of the body, including the neck, abdomen, breast, and extremities as well as different swellings
      c2- Detect manifest clinical abnormalities
      c3- Construct a plan of management for a given clinical situation
c4- Independently perform common minor and medium Surgical Procedures with adequate proficiency

c5- Instruct the patient as regards the postoperative management and complications

c6- Prepare the patient for medium and major surgical procedures

c7- Consult the patient as regards the surgical options and outcome

c8- Assist with efficiency and recognize challenges and difficulties during major surgical procedures

d. General and transferable skills:
By the end of the program the candidate will be able to:
d1- Apply sound communication skills in interviewing patients and their relatives
d2- Apply team working skills in working with peers
d3- communicate and cooperate efficiently and professionally with paramedical personnel
d4- Maintain honesty and integrity in all interactions with lecturers, seniors, colleagues, patients and administrative tasks
d5- Recognize the scope and limits of her/his role
d6- Be responsible towards oneself and others in the workplace and in the community at large
d6- Maintain a professional image concerning behavior, dress and speech

3. Academic standards: (Benchmarks)
Foundation Years of the MRCS

Program structure and contents:
4a- Program duration: Two years (Four Semesters)

4b- Program structure:
5. Program courses:

5.1. Compulsory

a- Compulsory courses:

<table>
<thead>
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<th>Course title</th>
<th>No of hours</th>
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<td>GS9001</td>
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<tr>
<td>GS9007</td>
<td>Surgical Pathology and Special Surgery</td>
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b- Elective courses:

<table>
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</table>

L: Lecture, C: Clinical and OR: Operating room

6. Program admission requirements:

المادة (6) : يشترط لقيد الطالب للحصول على درجة البكالوريوس:

1- أن يكون حائلاً على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة 2- أن يكون قد أمضى سنة التدريب (الامتحان) 3- موافقة جهة العمل 4- تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة واستيفاء المستندات المطلوبة في الملحق (1) 5- التفرغ للدراسة لمدة فصلين دراسيين قبل دخول امتحان الجزء الثاني.

ملحق (1) : يقدم طالب الإلتحاق لدرجة الماجستير الأوراق التالية:

1- طلب الإلتحاق 2- شهادة البكالوريوس 3- شهادة الإمتحان 4- شهادة الميلاد أو مستخرج رسمي 5- الموقف من التجنيد 6- موافقة جهة العمل على التسجيل والتفرغ المطلوب 7- عدد 6 صور فوتوغرافية
7. Regulation for progression and program completion

مادة (8): يتم التسجيل للماجستير مرة واحدة في السنة بدأ من أول يوليو حتى آخر أغسطس على أن يبدأ الدراسة في شهر أكتوبر من كل عام(0) ويجوز قبول تسجيل النوب والمعيدون والوفادين في الفترة من أول نوفمبر حتى آخر ديسمبر على أن يسمح لهم بدخول إمتحان الجزء الأول إلا بعد إنتهاء فترة الدراسة المطلوبة.

مادة (9): توزع الدراسة في كل عام جامعي على فصول دراسية مدة كل منها خمسة عشر أسبوعاً. بدأ الأول في أول أكتوبر وبدا الثاني في منتصف فبراير. مع تنظيم قبول دراسى صيفى مكتفياً لمدة ستة أسابيع.

مادة (10): يتم التسجيل للفصل الدراسي قبل أسبوعين من بداية على الأقل بعد استيفاء الشروط حسب المقررات المسجلة، ولا يجوز أن يزيد على الدراسة في الفصل الواحد عن 6 ساعات معمدة. ويجوز للطالب تعديل المقررات خلال أسبوعين من بداية الفصل الدراسي (بالطلب أو الإضافة). كما يجوز له الانسحاب خلال ستة أسابيع من أحد المقررات دون احتساب رأساً فيه.

مادة (11): مدة الدراسة للحصول على درجة الماجستير أو الماجستير هي أربعة وعشرون شهراً (أربعية فصول دراسية) على أن يجتاز فيها الطالب ببرنامج تدريبي متكامل طبقاً لمتطلبات المبادرة الموضحة بالباب الثالث ويتوفر خلال المطول منه في كتب متابعة الأنشطة ولا يسمح له بدخول الإمتحان قبل استيفاء ثلاثة أرباع المطبوت منه في كل جزء من البرنامج.

مادة (12): مدة الدراسة في الورق والماجستير الجزء الأول فصل دراسي واحد. يجتاز بعدها الطالب إمتحان لا يشترط النجاح فيه بالكامل للانتقال للدراسة في الجزء الثاني. والجزء الثاني يطلب تغرير الطالب للتدرب مدة درس دراسى بعدد المستثنىات أو المرتكز المعمدة من الكلية.

مادة (13): يقوم الدار لدرجة الماجستير بتسجيل موضوع الرسالة على شكل بحث نظري أو عملى بعد استيفاء فصل دراسي واحد على الأقل، ويجوز أن يباشر رسالة بعد ستة أشهر من التسجيل على الأقل على أن يكون قد نجح في مقررات الجزء الأول بالكامل قبل دخول إمتحان الجزء الثاني ولا يخصص لها دراجات.

مادة (14): يقوم دار الماجستير بإستيفاء متطلبات الجامعة قبل تسجيل الرسالة ومتطلبات الكلية قبل دخول إمتحان الجزء الثاني. ومتطلبات الجامعة هي الحصول على شهادة التوقيف في اللغة الإنجليزية (450 درجة على الأقل) ومطابقة الكلية للمواضيع المحددة من لجنة الدراسات العليا بالكلية في مجال ماهية البحث العلمي والإحصاء الطبي أو جانبية اختراعات خاصة تحددها اللجنة.

مادة (15): يجوز للحاصلين على درجة البكالوريا استكمال درجة الماجستير بتسجيل رسالة الماجستير خلال أربع سنوات من الحصول على درجة البكالوريا ويدخل على الدرجة بعد استيفاء متطلبات الجامعة الكلية ومتطلبات الرسالة نجاح.

مادة (16): الساعات المعتادة لدرجة الدراسة البكالوريا للماجستير ثلاثون ساعة معتمدة على الأقل يخصص منها ست ساعات لكتاب متابعة الأنشطة وتشمل ست ساعات على الأقل للفصل الأول وثمانية عشرة ساعة على الأقل للجزء الثاني، ويضاف إليها ست ساعات للدراسة في الماجستير.

مادة (22): مدة القيد لدرجة الماجستير أربع سنوات.

مادة (24): مجموع درجات الامتحان النهائي للماجستير 1200 درجة للجزء الأول، وضوحها 330 درجة، بالإضافة إليها معدل الفصل الأكاديمي بما يوازي 300 درجة للماجستير.

مادة (25): يعقد إمتحان الدور الأول في أكتوبر ونوفمبر من كل عام، ويعد إمتحان الدور الثاني في أبريل، وBadge من كل عام.

مادة (26): يكون النجاح في كل مادة من الدراسة البكالوريا والماجستير بعد الحصول على 60% من الدرجة الكلية لكل لجان المادة محتوى على أن لا تقل درجة التحريز عن 50% ويعود النجاح في مواد الدكتوراه بعد الحصول على 60% من درجة التحريز والعمل والكابانيك والشفوي كل على حدة.
مادة (29): في حالة استنفاد مدة القيد يمكن لطالب الدراسات العليا إعادة التسجيل مرة أخرى ولا يعتد بالنجاح في الجزء الأول أو الرسالة ويجب إعادةهما.

### Assessment Schedule and Weighing of Assessments

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ملحوظة: تعادل درجات الطالب طبقاً للنقاط على الوجه التالي:

- A: 90% فأكثر
- A⁻: 85% حتى أقل من 90%
- B⁺: 80% حتى أقل من 85%
- B⁻: 75% حتى أقل من 80%
- C⁺: 70% حتى أقل من 75%
- C⁻: 65% حتى أقل من 70%
- C⁻: 60% حتى أقل من 65%
- F: أقل من 60%

ويتم حساب المعدل الفضلي (GPA) على أساس مجموع حاصل ضرب نقاط كل مقرر مضروباً في عدد ساعاته المعتمدة مقسمًا على الساعات المعتمدة للمقررات التي درسها الطالب في الفصل الدراسي. كما يتم حساب المعدل التراكمي للطالب (CGPA) على أساس مجموع حاصل ضرب النقاط التي حصل عليها الطالب في كل مقرر مضروباً في عدد ساعاته المعتمدة مقسمًا على مجموع الساعات المعتمدة الكلية. في حالة الرسوب في مادة أو مجموعة من المقررات في البكالوريوس أو الماجستير أو الدكتوراه يتم الإعادة في المادة أو المجموعة فقط. ويتم حساب التقدير الفعلي الذي يحصل عليه في أول إعادة فقط أما إذا تكرر رسومة فيحسب له عند النجاح تقدر 60% فقط (أي 1.67 نقاط أي C).
PHYSIOLOGY AND BIOCHEMISTRY COURSE SPECIFICATION
University: Ain Shams University  Faculty: of Medicine

Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: Physiology and Biochemistry Department
Academic Level: Diploma – 1st semester
Date of specification approval: …………………………..

A- Basic Information

Title: Physiology and Biochemistry  Code: GS9001
Credit Hours: 1  Lecture: 1h/w  Total: 15

Coordinator

Prof. Dr. Mostafa Adly

B - Professional Information

1- Course Aims:

The aims of this course are to enable students to:
1. Acquire an appropriate scientific background of cells, tissues, organs & systems
2. Integrate physiological data & mechanisms with other basic sciences: anatomy, histology, embryology, pathology, microbiology and pharmacology
4. Explain the physiological and biochemical bases of common surgical diseases
5. Apply physiological and biochemical principles to plan patient management
3. Follow the rapidly changing and growing knowledge in the fields of molecular biology and genetics
4. Explore the functions of the respiratory, endocrine, cardiovascular, and gastrointestinal systems as well as their integration to achieve homeostasis.
5. Develop the basic scientific research skills

2- Intended Learning Outcomes (ILOs)
a- Knowledge and understanding
  a1. Describe the cellular functions at the organelle and molecular level.
a2. Describe & explain the functions of the salivary glands, liver, pancreas, GIT, Endocrine glands, the Breast, vessels, muscles and nerves
a3. Describe & explain the cellular functions of the relevant body systems
a4. Describe some biophysical laws and their relation to physiology.

b- Intellectual skills
By the end of the course the candidate will be able to:
b1. Interpret the most important physiological laboratory results (blood, respiratory, neuromuscular), to distinguish a physiological from a pathological condition.
2. Comment, on some clinical parameters such as: ABP and ECG for a normal individual.
3. Integrate physiology with other basic and clinical sciences.

c- Professional skills
By the end of the course the candidate will be able to:
c1. Identify the biochemical tests ordered for the surgical patient
c2. Identify the physiological consequences of shock
c4. Present physiological scientific data in a graphical form

d- General and transferable skills
By the end of the course the candidate will be able to:
d1) Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives
 d2) Recognize the scope and limits of their role as candidates as well as the necessity to seek and apply collaboration with other workers
d3) Recognize the responsibility towards work

3- Course contents:

**PHYSIOLOGY**

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<td>2- Blood groups, and Blood Transfusion</td>
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<tr>
<td>3- Hemorrhage and shock</td>
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<tr>
<td>4- Pain, Thermoregulation and Fever</td>
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<td>5- Acid-Base Balance</td>
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<tr>
<td>6- Urine formationan and Micturition</td>
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<td>7- Kidney functions and Renal Failure</td>
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<tr>
<td>8- Water and Electrolyte regulation and disturbances</td>
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<tr>
<td>9- Liver and Gallbladder functions and failure; Jaundice</td>
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</table>
10- Salivary Glands; GIT functions and motility
11- Spleen, Splanchnic circulation and Portal Hypertension
12- Breast and Endocrine Glands: Adrenal, Thyroid, Pancreas
13- Parathyroid Glands and Calcium Homeostasis
14- Metabolic response to injury, surgery, trauma
15- CNS and Spinal Trauma

L: Lectures, SDL: Self directed learning

BIOCHEMISTRY

<table>
<thead>
<tr>
<th>Topics</th>
<th>No of hours</th>
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<td>Carbohydrate, Lipid and Protein Metabolism, Inborn Errors of Metabolism</td>
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<td>Hormones and Hormone receptors</td>
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<td>Tumor Markers and Molecular Biology</td>
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<td>Genetics and Surgery</td>
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4 - Student Assessment Methods

Weighing of assessment

4.1. Written Exam 30
4.2. Oral exam 10
4.3. Practical 10

Total 50 Degrees

5 -- List of References

5.1- Course Notes (paper and / or electronic)
Lecture notes.
5.2- Essential Books (Text Books)
5.3- Recommended Books

-------------------------------------------------------------------------------------------------------------------------------
5.4- Periodicals, Web Sites, etc
ANATOMY, EMBRYOLOGY AND HISTOLOGY COURSE SPECIFICATION

University: Ain Shams University  Faculty: of Medicine

Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: Anatomy and Histology departments
Academic Level: Diploma – 1\textsuperscript{st} semester
Date of specification approval: ........................................

A- Basic Information

Title: Anatomy and embryology  Code: GS 9002a
Credit Hours: 1.33  Lecture: 2hs/wk for 10wks  Total: 20

Coordinator

Prof. Dr. Ibrahim Ghazawy
Dr. Mohammed Abdo

B - Professional Information

1- Course Aims:
The aims of this course are to enable students to:
1. Acquire the appropriate knowledge of surgical anatomy and relevant histology
2. Integrate surgical anatomical information with microanatomical and other functions of various organs and systems
4- Explain the anatomical and histological bases of common surgical diseases and conditions
5- Apply surgical anatomical and histological knowledge and principles in performing common surgical procedures
6. Interpret complications and iatrogenic injuries in light of anatomical knowledge

2- Intended Learning Outcomes (ILOs)
a- Knowledge and understanding
1. Describe & explain the gross and microscopic structure and relations of the salivary glands, liver, pancreas, spleen, GIT, Endocrine glands, the Breast, cardiovascular system, musculoskeletal system, and nervous system and nerves
2- Describe the surgical anatomy of common surgical diseases and conditions
3. Identify the anatomical bases of common surgical presentations
4. Recall the anatomical bases of common surgical procedures
5. Describe the anatomical bases of minimally invasive interventions

b- Intellectual skills
By the end of the course the candidate will be able to:
b1. Interpret the anatomical and histological bases of common surgical problems.
b2. Comment on the anatomical and histological bases of clinical situations
b3. Integrate surgical anatomical and histological information with other basic and clinical information to plan management of common surgical problems

c- Professional skills
By the end of the course the candidate will be able to:
c1. Identify common anatomical landmarks of surgical conditions
c2. Apply anatomical information in examining surgical patients
c3. Identify surface anatomical landmarks on patients
c4. Apply the anatomical and histological principles to common surgical procedures

d- General and transferable skills
By the end of the course the candidate will be able to:
d1. Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives
d2. Recognize the scope and limits of her/his role as a surgeon in training
d3. Apply communication skills in team working with other staff members
d3. Recognize the responsibility towards work

3- Course contents:
Anatomy course

<table>
<thead>
<tr>
<th>Topics</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>SDL</td>
</tr>
<tr>
<td>1- Development and Surgical Anatomy of the Head and Neck</td>
<td>2</td>
</tr>
<tr>
<td>2- Surgical Anatomy of the Thorax: anatomical structures and organs, Relations and Layers, Surface Anatomy, Radiological anatomy, Relevance to Surgical Diseases, Interventions, and Procedures</td>
<td>2</td>
</tr>
<tr>
<td>3- Surgical Anatomy of the Breast and Axilla</td>
<td>2</td>
</tr>
<tr>
<td>4- Surgical Anatomy of the Upper Limbs</td>
<td>2</td>
</tr>
<tr>
<td>5- Surgical Anatomy of the Lower Limbs</td>
<td>2</td>
</tr>
<tr>
<td>6- Surgical Anatomy of the Abdominal Wall and Hernias</td>
<td>2</td>
</tr>
</tbody>
</table>
7- Development and Surgical Anatomy of the Abdomen I: anatomical structures and organs, Relations and Layers 2
8- Surgical Anatomy of the Abdomen II: anatomical structures and organs, Relations and Layers 2
9- Development & Surgical Anatomy of the Pelvis: anatomical structures and organs, Relations and Layers 2
10- Surgical Anatomy of Surgical Operations 2
Total 20

L: Lecture, SDL: Self directed learning

Histology
University: Ain Shams University  Faculty: of Medicine

Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: Histology Department
Academic Level: Diploma Degree – 1st semester
Date of specification approval: 

A- Basic Information

Title: Histology  Code: GS 9002b
Credit Hours: 0.67  Lecture: 2hs/wk for 5 wks  Total: 10

Course Contents

<table>
<thead>
<tr>
<th>Topics</th>
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<tbody>
<tr>
<td>L</td>
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<tr>
<td>(1)The Cell:</td>
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<tr>
<td>(2) Epithelial Tissue:</td>
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<tr>
<td>(3) Connective Tissue:</td>
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<tr>
<td>(4) Cartilage:</td>
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<td>(5) Bone:</td>
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<td>(6) Muscular Tissue:</td>
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<tr>
<td>(7) Nervous Tissue:</td>
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<tr>
<td>(8) BLOOD:</td>
<td>1</td>
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<tr>
<td>Red blood cells, Leucocytes, Blood platelets</td>
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</tr>
<tr>
<td>(10) VASCULAR SYSTEM:</td>
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<tr>
<td>General microscopic structure of blood vessels</td>
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</tbody>
</table>
(11) LYMPHATIC SYSTEM:
   Lymph nodes, Spleen, Thymus, and Macrophages
(12) DIGESTIVE SYSTEM: 2
(13) ENDOCRINE SYSTEM 2
(14) URINARY SYSTEM: 1
(15) MALE REPRODUCTIVE SYSTEM: 1
(16) FEMALE REPRODUCTIVE SYSTEM:
(17) SKIN: 1
   Types of skin, Thick skin, Thin skin
   Total 10

4 - Student Assessment Methods
4.1. Written Exam to assess knowledge
4.2. Multiple Choice Questions Exam to assess interpretation and problem-solving capabilities
4.3. Practical Exam to assess ability to identify structures of surgical importance

Weighing of assessment

Total: 100 Degrees
4.1. Written Exam 60
4.2. Oral Exam 10
4.3. Practical Exam 30
Total 100

5 -- List of References
5.1. Course Notes (paper and / or electronic)
   Lecture notes.
5.2. Essential Books (Text Books)

5.3. Recommended Books

5.4. Periodicals, Web Sites, etc

PATHOLOGY COURSE SPECIFICATIONS
Course specifications
University: Ain Shams University  Faculty: of Medicine

Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: Pathology department
Academic Level: Master Degree – 1st semester
Date of specification approval: …………………………..

A- Basic Information
Title: Pathology Code: GS9003
Credit Hours: 2 h Lecture: 2hs/wk Total: 30

Coordinator
Prof. Dr. Hassan Tantawy
Prof. Dr. Ashraf Abadeer

B - Professional Information
1- Course Aims:
The aims of this course are to enable students to:
1. Acquire the appropriate knowledge of the pathological bases of surgical practice
2. Discuss the pathogenesis of common surgical diseases and conditions
3. Describe the gross and microscopic pathology of common surgical diseases and conditions
4. Explain the pathological bases of common surgical clinical presentations
5. Work with pathologists to seek a pathological diagnosis of surgical patients
6. Apply pathological knowledge and principles in planning management of surgical patients
7. Interpret the pathological bases of complications and iatrogenic injuries

2- Intended Learning Outcomes (ILOs)
a- Knowledge and understanding
a1. Describe & explain the pathogenesis and pathological picture of common surgical diseases of the salivary glands, liver, pancreas, spleen, GIT, Endocrine glands, the Breast, cardiovascular system, musculoskeletal system, and nervous system
a2. Discuss the pathological bases of common surgical presentations
a3. Describe the pathological bases of minimally invasive interventions
a4. Identify the pathological considerations of common surgical procedures

b- Intellectual skills
By the end of the course the candidate will be able to:
b1. Interpret the pathological bases of common surgical problems.
b2. Relate the pathological bases of clinical situations
b3. Integrate pathological information with other basic and clinical information to plan management of common surgical problems
c- Professional skills

By the end of the course the candidate will be able to:

- c1. Demonstrate the ability to collect the appropriate pathological specimens
- c2. Apply pathological principles of marking pathological specimens
- c3. Select the appropriate technique of obtaining the pathological specimen from a given patient
- c4. Make a patient management plan in light of preoperative pathological information
- c5. Integrate the pathological diagnosis into the postoperative patient management plan

d- General and transferable skills

By the end of the course the candidate will be able to:

- d1. Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives
- d2. Recognize the scope and limits of her/his role as a surgeon in training
- d3. Apply communication skills in team working with other staff members

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Topics</strong></td>
<td><strong>No. of hours</strong></td>
</tr>
<tr>
<td>1. Surgical Pathology Request and Report, Collection and Presentation of the pathological specimen, Analysis of the Pathology report</td>
<td>2</td>
</tr>
<tr>
<td>2. Cell Injury and Necrosis, Different Types of Inflammation</td>
<td>2</td>
</tr>
<tr>
<td>3. Tissue Repair and Wound Healing</td>
<td>2</td>
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<tr>
<td>4. Surgical Infections</td>
<td>2</td>
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<tr>
<td>5. Pathological Calcification and Pigmentation</td>
<td>2</td>
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<tr>
<td>6. Granulomas</td>
<td>2</td>
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<tr>
<td>7. Circulatory disturbances</td>
<td>2</td>
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<tr>
<td>8. Cardiovascular Pathology</td>
<td>2</td>
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<tr>
<td>9. Major organ failure (Cardiac, Hepatic, Renal, Intestinal)</td>
<td>2</td>
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<tr>
<td>10. Disturbance of growth and Neoplasia</td>
<td>2</td>
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<tr>
<td>11. Effects of Radiation</td>
<td>2</td>
</tr>
<tr>
<td>12. Head and Neck Pathology</td>
<td>2</td>
</tr>
<tr>
<td>13. Breast Pathology</td>
<td>2</td>
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<tr>
<td>14. Endocrine Pathology</td>
<td>2</td>
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<tr>
<td>15. GIT Pathology</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

L: Lecture, T: Tutorial, SDL: Self directed learning
4 - **Student Assessment Methods**

4.1. Written Exam to assess knowledge
4.2. Oral Exam to assess interpretation and problem-solving capabilities
4.3. Practical Exam to assess ability to identify pathological specimens of surgical importance

**Weighing of assessment**

4.1. Written Exam  60  
4.2. Oral Exam  10  
4.3. Practical Exam  30  

Total: 100 Degrees

5 -- **List of References**

5.1. Course Notes (paper and / or electronic)  
Lecture notes.

5.2. Essential Books (Text Books)

5.3. Recommended Books

5.4. Periodicals, Web Sites, etc

**Microbiology Course Specification**

**Course specifications**

*University*: Ain Shams University  
*Faculty*: of Medicine

*Program on which the course is given*: Diploma in General Surgery  
*Major or minor element of programs*: Major

*Department offering the program*: Department of General Surgery  
*Department offering the course*: Medical Microbiology and Immunology department

*Academic Level*: Master Degree – 1st semester  
*Date of specification approval*: ..........................

**A-Basic Information**

*Title*: Microbiology  
*Code*: GS9004

*Credit Hours*: 0.5  
*Lectures*: 1hs/2wk  
*Total*: 7.5 h

**Coordinator**  
Prof. Dr. Nabil Syed Saber  
Prof. Dr. Ahmed Lotfy
B- Professional Information

1- Course Aims:
The aims of this course are to enable students to:
1. Acquire the appropriate knowledge of sterilization, disinfection and infection control
2. Discuss the pathogenesis of common surgical infections and their causative organisms
3. Describe bacterial genetics and drug resistance
4. Explain common hospital acquired infections and the causative organisms
5. Apply microbiological principles in planning management of surgical patients

2- Intended Learning Outcomes (ILOs)
a- Knowledge and understanding
a1. Describe & explain the pathogenesis of common surgical infections
a2. Discuss common specific infections of surgical importance
a3. Identify common hospital acquired infections and device-related infections
a4. Review Septicemia, Bacteraemia, Infections in the ICU, NICU, OR, Dialysis unit, Endoscopy unit
a5. Explain Bacterial genetics and mechanism of drug resistance
a6. Classify and compare methods of Sterilization, Disinfection and Infection control
a7. Describe types of immune response, Hypersensitivity, autoimmunity, immunodeficiency and Transplantation immunology

b- Intellectual skills
By the end of the course the candidate will be able to:
b1. Interpret the common infectious bases of surgical diseases
b2. Relate the microbiological factors of clinical situations
b3. Apply microbiological knowledge to select the appropriate treatment
b4. Integrate microbiological and pathological information with other basic and clinical information to plan management of common surgical problems

c- Professional skills
By the end of the course the candidate will be able to:
c1. Demonstrate the ability to collect the appropriate specimens
c2. Apply microbiological principles in making a patient management plan
c5. Integrate the microbiological diagnosis into postoperative patient management
c6. Select the appropriate chemoprophylactic measure for each surgical procedure
**d- General and transferable skills**

**By the end of the course the candidate will be able to:**
d1. Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives
d2. Recognize the scope and limits of her/his role as a surgeon in training
d3. Apply communication skills in team working with other staff members

**4- Course content:**

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacterial genetics, antibacterial agents, mechanism and resistance</td>
<td>L</td>
</tr>
<tr>
<td>Hospital-acquired infections, common infections and organisms</td>
<td>SDL</td>
</tr>
<tr>
<td>Sterilization, Disinfection, Infection control</td>
<td></td>
</tr>
<tr>
<td>Types of immune response, Hypersensitivity, autoimmunity, immunodeficiency, Transplantation immunology</td>
<td></td>
</tr>
<tr>
<td>Infections of the GIT, UT, device-related infections, Septicemia, Bacteraemia, Infections in the ICU, NICU, OR, Dialysis unit, Endoscopy unit</td>
<td></td>
</tr>
</tbody>
</table>

L: Lecture, SDL: Self directed learning

**4 - Student Assessment Methods**

4.1. Written Exam to assess knowledge
4.2. Practical Exam (Multiple Choice Questions Exam) to assess interpretation and problem-solving capabilities

**Weighing of assessment**

4.1. Written Exam 15
4.2. Practical Exam 10
Total: 25 Degrees

**5 -- List of References**

5.1- Course Notes (paper and / or electronic)
Lecture notes.
5.2- Essential Books (Text Books)

5.3- Recommended Books

5.4- Periodicals, Web Sites, etc
PHARMACOLOGY COURSE SPECIFICATION

Course specifications

University: Ain Shams University  Faculty: of Medicine
Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: Pharmacology department
Academic Level: Diploma – 1st semester
Date of specification approval: 

A- Basic Information

Title: Pharmacology  Code: GS 9005
Credit Hours: 0.5  Lecture: 1hs/2wk  Total: 7.5

Coordinator
Prof. Dr. Hisham Wagdy
Prof. Dr. Osama Fouad

B - Professional Information

1- Course Aims:
The aims of this course are to enable students to:
1. Acquire the appropriate knowledge of drug therapy of common surgical diseases
2. Discuss the nutritional management of the surgical patient
3. Describe the indications, contraindications and complications of medications commonly used in surgical practice
4. Interpret the interactions of drugs commonly used in surgical practice

2- Intended Learning Outcomes (ILOs)
a- Knowledge and understanding
a1. Describe & explain the pathogenesis and pathological picture of common surgical diseases of the salivary glands, liver, pancreas, spleen, GIT, Endocrine glands, the Breast, cardiovascular system, musculoskeletal system, and nervous system
a2. Discuss the pathological bases of common surgical presentations
a3. Describe the pathological bases of minimally invasive interventions
a4. Identify the pathological considerations of common surgical procedures
b- Intellectual skills
By the end of the course the candidate will be able to:
b1. Interpret the pathological bases of common surgical problems.
b2. Relate the pathological bases of clinical situations
b3. Integrate pathological information with other basic and clinical information to plan management of common surgical problems

c- Professional skills
By the end of the course the candidate will be able to:
c1. Demonstrate the ability to collect the appropriate pathological specimens
c2. Apply pathological principles of marking pathological specimens
c3. Select the appropriate technique of obtaining the pathological specimen from a given patient
c4. Make a patient management plan in light of preoperative pathological information
c5. Integrate the pathological diagnosis into the postoperative patient management plan

d- General and transferable skills
By the end of the course the candidate will be able to:
d1. Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives
d2. Recognize the scope and limits of her/his role as a surgeon in training
d3. Apply communication skills in team working with other staff members

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>SDL</td>
</tr>
<tr>
<td>1- Drug therapy of Shock and Anticoagulants</td>
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<tr>
<td>2- Nutrition of the Surgical Patient</td>
<td>1</td>
</tr>
<tr>
<td>3- Antibiotics, Antifungals, and Antivirals</td>
<td>1</td>
</tr>
<tr>
<td>4- Peptic ulcer treatment and Antispasmodics</td>
<td>1</td>
</tr>
<tr>
<td>5- Antipyretics, Analgesics, Anesthetics</td>
<td>1</td>
</tr>
<tr>
<td>6- Steroids, Treatment of Endocrine disorders, Antithyroid drugs, Prep for adrenalectomy</td>
<td>1</td>
</tr>
<tr>
<td>7- Anti-cancer Chemotherapy</td>
<td>1</td>
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<tr>
<td>8- Immunosuppression after Transplantation</td>
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<tr>
<td>9- Drugs for Morbid Obesity</td>
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</tbody>
</table>

L: Lecture, SDL: Self directed learning
4 - Student Assessment Methods
4.1. Written Exam to assess knowledge
4.2. Practical Exam

Weighing of assessment
4.1. Written Exam 15
4.2. Practical Exam 10
Total: 25

5 -- List of References

5.1- Course Notes (paper and / or electronic)
Lecture notes.
5.2- Essential Books (Text Books)

5.3- Recommended Books

5.4- Periodicals, Web Sites, etc

GENERAL SURGERY COURSE SPECIFICATIONS

Course specifications
University: Ain Shams University  Faculty: of Medicine
Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Major
Department offering the program: Department of General Surgery
Department offering the course: General Surgery department
Academic Level: Diploma – 2nd, 3rd, and 4th semesters
Date of specification approval: ..............................

A- Basic Information
Title: General Surgery  Code: GS9006
Credit Hours: 14 credit hours
Lectures: total: 60 hrs (4 credits)
Clinical: total: 150 hrs (5 credits)
Operative: total: 300 hrs (5 credits)

Coordinator
Prof. Dr. Reda Abdel-Tawab
Prof. Dr. Ahmed Ibrahim
B - Professional Information

1- Course Aims:

The aim of this program is to provide an organized and comprehensive postgraduate education and training course in general surgery, to establish the basis of sound surgical knowledge, skills and attitudes necessary for a qualified safe surgeon.

2. Intended learning outcomes (ILOs):

a. Knowledge and understanding:
By the end of the program the candidate will be able to:

a1- Explain the biochemical, physiological and pathological processes underlying common surgical diseases and conditions
a2- Explain the anatomical basis of surgical conditions, diseases and interventions
a3- Describe the embryological basis of common congenital surgical diseases and conditions
a4- Correlate common surgical infections with the causative pathogens
a5- Describe the presentations of common surgical diseases
a6- Define the relevant investigations required to reach an accurate diagnosis
a7- Explain the medical treatment of surgical patients, its indications, contraindications, side effects, and mode of administration
a8- Describe conservative management of surgical conditions, its indications, contraindications, and modalities
a9- Explain the principles of operative surgery
a 10- Describe the appropriate technique and steps of common surgical procedures
a11- Outline the principles of advanced and complex operations and surgical procedures
a12- Outline the importance of patient education in surgery

b. Intellectual capabilities:

By the end of the program the candidate will be able to:

b1- Classify surgical diseases and conditions
b2 - Differentiate surgical diseases and conditions from each other
b3 - Select appropriate laboratory and radiological investigations for each surgical condition
b4 - Interpret the results of laboratory and radiological investigations
b5- Select the proper line of treatment
b6- Demonstrates the ability to solve common surgical problems
c. Professional and practical skills:

By the end of the program the candidate will be able to:
c1- Examine different systems of the body, including the neck, abdomen, breast, and extremities as well as different swellings
c2- Detect manifest clinical abnormalities
c3- Construct a plan of management for a given clinical situation
c4- Independently perform common minor and medium Surgical Procedures with adequate proficiency
c5- Instruct the patient as regards the postoperative management and complications
c6- Prepare the patient for medium and major surgical procedures
c7- Consult the patient as regards the surgical options and outcome
c8- Assist with efficiency and recognize challenges and difficulties during major surgical procedures

d. General and transferable skills:

By the end of the program the candidate will be able to:

d1- Apply sound communication skills in interviewing patients and their relatives
d2- Apply team working skills in working with peers
d3- Communicate and cooperate efficiently and professionally with paramedical personnel
d4- Maintain honesty and integrity in all interactions with lecturers, seniors, colleagues, patients and administrative tasks
d5- Recognize the scope and limits of her/his role
d5- Be responsible towards oneself and others in the workplace and in the community at large
d6- Maintain a professional image concerning behavior, dress and speech

3. Academic standards: (Benchmarks)
Foundation Years of the MRCS

3- Course contents:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Care of the Surgical Patient</td>
<td></td>
</tr>
<tr>
<td>1. Evidence-Based Surgery</td>
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</tbody>
</table>

29
| 2. Nutrition | 2 |
| 3. Perioperative Fluids and Electrolytes | 2 |
| 4. Hemostasis and Coagulation | 4 |
| 5. Transfusion Therapy | 5 |
| 6. Diagnosis and Treatment of Infection | 2 |
| 7. Wounds: Biology, Pathology, and Management | 7 |
| 8. Trauma: Priorities, Controversies, and Special Situations | 4 |
| 9. Shock and Resuscitation | 2 |
| 10. Critical Care: A System-Oriented Approach | 2 |
| 11. Monitoring Techniques and Complications in Critical Care | 1 |
| 12. Burns | 13 |
| 13. Perioperative Management | |

Gastrointestinal and Abdominal Disease

| 14. Peritoneum and Acute Abdomen | 2 |
| 15. General Principles of Minimally Invasive Surgery | 2 |
| 16. Esophagus | 2 |
| 17. Stomach and Duodenum | 2 |
| 18. Pancreas | 1 |
| 20. Liver & Portal Hypertension | 2 |
| 21. Small Intestine | 2 |
| 22. Appendix | |
| 23. Colon, Rectum, and Anus | 2 |
| 24. Spleen | 1 |
| 25. Hernias and Abdominal Wall Defects | 2 |
| 26. Abdominal Trauma | 1 |

Endocrine Surgery

<p>| 27. Parathyroid | 2 |
| 28. Thyroid | 2 |
| 29. Adrenal | 2 |
| 30. Neuroendocrine Tumors of the Pancreas and Gastrointestinal Tract and Carcinoid Disease | 1 |
| 31. Multiple Endocrine Neoplasia | |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
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<tbody>
<tr>
<td>32</td>
<td>Diseases of the Breast</td>
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<tr>
<td></td>
<td>Skin, Head and Neck</td>
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<tr>
<td>33</td>
<td>Melanoma and Other Cutaneous Malignancies</td>
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<td>34</td>
<td>Soft Tissue Sarcoma</td>
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<td>35</td>
<td>Head and Neck Malignancies</td>
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<td></td>
<td>Vascular Surgery</td>
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<td>36</td>
<td>Cerebrovascular Disease</td>
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<tr>
<td>37</td>
<td>Diseases of the Thoracic Aorta and Great Vessels</td>
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<tr>
<td>38</td>
<td>Diseases of the Abdominal Aorta and Its Branches</td>
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<tr>
<td>39</td>
<td>Arterial Disease of the Lower Extremity</td>
</tr>
<tr>
<td>40</td>
<td>Venous Disease and Pulmonary Embolism</td>
</tr>
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<td>41</td>
<td>Vascular Trauma</td>
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<tr>
<td>42</td>
<td>Minimally Invasive Approaches to Vascular Disease</td>
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<td></td>
<td>Cardiothoracic Surgery</td>
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<td>43</td>
<td>Lung Neoplasms</td>
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<td>Lung Infections and Trauma</td>
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<tr>
<td>45</td>
<td>Pleura: Anatomy, Physiology, and Disorders</td>
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<tr>
<td>46</td>
<td>Pericardium and Mediastinum</td>
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<td>47</td>
<td>Congenital Heart Disease</td>
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<td>Adult Heart Disease</td>
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<td>Transplantation</td>
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<td>49</td>
<td>Immunology of Transplantation</td>
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<tr>
<td>50</td>
<td>Principles of Organ Preservation</td>
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<td>52</td>
<td>Kidney Transplantation and Dialysis Access</td>
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<tr>
<td></td>
<td>Venous Disease and Intestine Transplantation</td>
</tr>
<tr>
<td>54</td>
<td>Liver Transplantation</td>
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<tr>
<td>55</td>
<td>Lung Transplantation</td>
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<tr>
<td>56</td>
<td>Heart Transplantation</td>
</tr>
</tbody>
</table>
Pediatric Surgery
57 Pediatric Surgical Emergencies 6
58 Pediatric Surgical Diseases

Total Credit Hours 4 5 5

<table>
<thead>
<tr>
<th>L: Lecture, T: Tutorial, C: Clinical OR: Operative and SDL: Self directed learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 - Student Assessment Methods</td>
</tr>
<tr>
<td>4.1. Written Exam to assess knowledge</td>
</tr>
<tr>
<td>4.2. Multiple Choice Exam to assess problem-solving abilities</td>
</tr>
<tr>
<td>4.3. Oral Exam to assess intellectual skills and professional skills</td>
</tr>
<tr>
<td>4.4. Operative Exam to assess practical surgical skills</td>
</tr>
<tr>
<td>4.5. Surgical Pathology and Radiology Exam to assess ability to integrate results of investigations in decision making</td>
</tr>
<tr>
<td>4.6. Clinical Exam to assess practical clinical skills and communication skills</td>
</tr>
</tbody>
</table>

Weighing of assessment
4.1. Written Exam 370
4.2. Oral Exam 70
4.3. Operative Exam 90
4.4. Clinical Exam 120
Total 650

End of semester exam: 300
Total: 950 Degrees

5 - List of References
5.1- Course Notes (paper and / or electronic)
Will be released by the Department

5.2- Essential Books (Text Books)
a- Text Book of the Department of Surgery
b- Bailey and Love's Short Practice of Surgery
c- An Introduction to the Symptoms and Signs of Surgical Disease
d- Surgical Anatomy and Technique: A Pocket Manual
e- Farquharson's Textbook of Operative Surgery

5.3- Recommended Books
a- Schwartz's Principles of Surgery
b- Rob & Smith's Operative Surgery Series
5.4- Periodicals and Web Sites
a- Ain Shams Journal of Surgery
b- Recent Advances in Surgery

**SURGICAL PATHOLOGY AND SPECIAL SURGERY COURSE SPECIFICATIONS**

**Course specifications**
- **University:** Ain Shams University  **Faculty:** of Medicine
- **Program on which the course is given:** Diploma in General Surgery
- **Major or minor element of programs:** Major
- **Department offering the program:** Department of General Surgery
- **Department offering the course:** General Surgery department
- **Academic Level:** Diploma – 3rd and 4th semesters
- **Date of specification approval:** .......................

**Coordinator**
Department of Surgery

**A- Basic Information**
- **Title:** Surgical Pathology and Special Surgery  **Code:** GS 9005
- **Credit Hours:** 3
  - **Lectures:** 15 hours
  - **Clinical Practice:** 30 hours
  - **OR:** 60 hours

**1- Course Aims:**
- a) Provide candidates with basic knowledge on the general management of common orthopedic cases, urologic problems, neurological and plastic surgery cases
- b) Acquire the appropriate knowledge of surgical pathology required for a sound surgical practice
- c) Formulate an appropriate management plan for trauma patients
- d) Manage emergency situations with a holistic approach

**2- Intended Learning Outcomes (ILOs):**
- **a. Knowledge and understanding:**
  - **By the end of the program the candidate will be able to:**
    - a1-Explain the pathological processes underlying common surgical diseases and conditions
    - a2-Describe the pathological appearance of common surgical specimens
    - a3-Describe the presentations of common orthopedic diseases
    - a4-Outline the management of common fractures
    - a5-Outline the management of common urological emergencies
Describe the preliminary and general management of neurological diseases and emergencies
Describe the principles of management of different burn cases
Explain the principles of performing different types of grafts and flaps
Discuss the appropriate referral of relevant cases
Discuss the cooperative management of complex cases and cases in need for multidisciplinary surgical interventions

b. Intellectual capabilities:
**By the end of the program the candidate will be able to:**
b1- Classify orthopedic, urological, neurosurgical and plastic surgical diseases and conditions
b2- Differentiate orthopedic, urological, neurological, and plastic surgical diseases and conditions from each other
b3- Select appropriate laboratory and radiological investigations for each orthopedic, urological, neurosurgical and plastic surgical condition
b4- Interpret the results of laboratory and radiological investigations
b5- Select the proper line of treatment for common orthopedic, urological, neurosurgical and plastic
b6- Demonstrate the ability to formulate a management plan for common orthopedic, urological, neurosurgical and plastic surgical problems

c. Professional and practical skills:
**By the end of the program the candidate will be able to:**
c1- Perform examination of bones, joints, genitor-urinary systems, neurological examination and examination of burns, maxillofacial and neck fractures
c2- Detect manifest clinical abnormalities of bones, joints, the genitor-urinary system, CNS and peripheral nerves
c3- Construct a plan of general management for a given common orthopedic, urological, neurosurgical and plastic surgical problems
c4- Discuss the referral and cooperative management of common orthopedic, urological, neurosurgical and plastic surgical problems
c5- Instruct the patient as regards the postoperative management and complications

d- General and transferable skills
**By the end of the program the candidate will be able to:**
d1- Apply sound communication skills in interviewing patients and their relatives
d2- Apply team working skills in working with peers
d3- Communicate and cooperate efficiently and professionally with paramedical personnel
d4- Maintain honesty and integrity in all interactions with lecturers, seniors, colleagues, patients and administrative tasks 
d5- Recognize the scope and limits of her/his role 
d5- Be responsible towards oneself and others in the workplace and in the community at large 
d6- Maintain a professional image concerning behavior, dress and speech 

Course Content

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
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<tr>
<td>1. Common Fractures</td>
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<tr>
<td>2. Pelvic Fractures</td>
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<tr>
<td>3. Common Bone Tumors</td>
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<td>4. Stones of the Kidney, Ureter, Bladder and Urethra</td>
<td>2</td>
</tr>
<tr>
<td>5. Tumors of the Kidney, Bladder and Prostate</td>
<td>2</td>
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<tr>
<td>6. Management of Burns</td>
<td>2</td>
</tr>
<tr>
<td>7. Head and Neck Injuries</td>
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<td>8. Peripheral Nerve Injuries</td>
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<tr>
<td>9. Principles of Common Head and Neck Procedures</td>
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<tr>
<td>13. Principles of Common Genitourinary Procedures</td>
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L: Lecture, T: Tutorial, C: Clinical and OR: operative, SDL: Self directed learning

4 - Student Assessment Methods
4.1 Written exam to assess knowledge 
4.2 Multiple choice exam to assess problem-solving capabilities 
4.3 Slides exam to assess ability to diagnose common clinico-pathological situations, and correlate clinical and pathological pictures
Weighing of assessment
4.1. Written Exam 120
4.2. Oral Exam 20
4.3. Practical Exam 60

Total 200

5 -- List of References
5.1- Course Notes (paper and / or electronic)
5.2- Essential Books (Text Books)
Text Book of the Department of Surgery
5.3- Recommended Books
5.4- Periodicals, Web Sites, etc

MEDICAL STATISTICS COURSE SPECIFICATION
University: Ain Shams University   Faculty: of Medicine

Course specifications
Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Minor
Department offering the program: Department of General Surgery
Department offering the course: Department of Community, Environmental and Occupational Medicine
Academic Level: Diploma of Surgery – 3rd semester
Date of specification approval: ......................................

A- Basic Information
Title: Medical statistics course          Code: E 9009
Credit Hours: 1 hour

Coordinator
Community, Environmental and Occupational Medicine Department

B - Professional Information
1- Course Aim:
To enable the candidate to plan, conduct, analyze and interpret the results of a research in his specific field. This course unit introduces the application of statistical ideas and methodology to medical research.

2- Intended Learning Outcomes (ILOs) from the Course:
**a- Knowledge and understanding**

By the end of the course the candidate will be able to:

a1 - Define medical statistics and identify uses and importance of medical statistics in medical research

a2 - Define:
Types of variables.
Descriptive statistics.
Presentation and summarization of data.
Measures of central tendency and scatter.
Principles of probability and probability distributions.
Concepts of inferential statistics: confidence interval and hypothesis testing.
Different tests of statistical significance.
Difference between parametric and nonparametric tests of significance.
Correlation and regression
Concept of statistical modeling using multivariable and multivariate statistical methods.
Combining evidence from different studies and meta-analysis
Importance and methods of sampling and how to determinate the suitable sample size.

Different types of research methodology:
observational and intervention studies and the different statistical issues related to the design, conduct, analysis and interpretation of the results of each study type.
Ethical aspects of medical research including those specifically applied to clinical trials.

**b- Intellectual skills**

By the end of the course the candidate will be able to:

b1 - Interpret correctly the results of statistical analyses and critically evaluate the use of statistics in the medical literature.
b2 - Integrate and evaluate information from a variety of sources.

**c- Professional skills**

By the end of the course the candidate will be able to:

c1 - Select appropriate study designs to address questions of medical relevance
c2 - Select and apply appropriate statistical methods for analyzing data typically encountered in medical applications.
c3 - Use selected software packages for statistical analysis and data management.

**d- General and transferable skills**

By the end of the course the candidate will be able to:

d1 - Work effectively in a group of different backgrounds
d2 - Respect the role of staff and co-staff members regardless of degree or occupation

d3 - Communicate effectively with professional statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations


d4 - Use of computer data bases and other computer skills


d5 - Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition, project design and evaluation, risk management, teamwork and coordination


d6 - Learn independently with open-mindedness and critical enquiry
3- Course content:

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<tr>
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<th>T</th>
<th>C/P</th>
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<td>Types of variables and Descriptive statistics</td>
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<td>X</td>
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<tr>
<td>Graphic presentation of data</td>
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<td>X</td>
</tr>
<tr>
<td>Introduction to probability theory and rules</td>
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<td>X</td>
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<td>Sample and population: sampling distribution of mean and proportion</td>
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<td>X</td>
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<td>Confidence interval of a mean and a proportion</td>
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<td>X</td>
</tr>
<tr>
<td>Confidence interval of a difference between two mean /proportion</td>
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<td>X</td>
</tr>
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<td>Testing a hypothesis about population mean/proportion</td>
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<td>X</td>
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<tr>
<td>Testing a hypothesis about the difference between two means/proportion</td>
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<td>X</td>
</tr>
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<td>Comparing between more than two means-Introduction to factorial analysis</td>
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<td>Cross-tabulation and introduction to categorical data analysis</td>
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<td>Simple correlation and simple regression</td>
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<td>X</td>
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<tr>
<td>Introduction to multivariable and multivariate analysis</td>
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<td>Study designs: observational studies</td>
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<tr>
<td>Study designs: Intervention studies: clinical trials</td>
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<td>X</td>
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<tr>
<td>Study designs: Experimental animal studies</td>
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<td>X</td>
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<tr>
<td>Study designs: Bias and Confounding</td>
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<tr>
<td>Ethical issues in medical research</td>
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</tr>
<tr>
<td>Sample size estimation for continuous and binary outcome measures.</td>
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</tr>
<tr>
<td>Meta-analysis and publication bias.</td>
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</tr>
</tbody>
</table>

T: Tutorial and C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods

4-1 Written exam to assess knowledge and intellectual skills
4-2 Weighing of assessment

Written exam 50
Total 50

5 - List of References

5.1- Course Notes (paper and / or electronic)
Student Notes on Medical Statistics and Research Methods. Prof. Mohsen Abdel Hamid and Dr Moustafa El Houssinie. Department of Community, Environmental and Occupational Medicine.

5.2- Essential Books (Text Books)
5.3- **Recommended Books**
Handbook of Epidemiology. Springer 2005

5.4- **Periodicals, Web Sites, etc**
- www.brettscaife.net/statistics/introstat/
- onlinestatbook.com/rvls/
- www.Epidemiolog.net
- http://www.shef.ac.uk

**HISTORY OF MEDICINE COURSE SPECIFICATION**
University: Ain Shams University  Faculty: of Medicine

**Course Specifications**
Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Minor
Department offering the program: Department of General Surgery
Department offering the course: Department of General Surgery
Academic Level: Diploma of Surgery – 3rd semester
Date of specification approval: ....................................

**A- Basic Information**
Title: History of Medicine course
Code: E9110
Credit Hours: 1
Lectures: 1/wk Total: 15 hrs

**Coordinator:**
Department of Surgery

**B - Professional Information**

1- **Course Aim:**
- Recognition of the milestones of development of Medicine
- Recognition of the role of old Egypt in the development of Medicine and surgery
- Recognition of the role of Islamic scientists in the development of medicine and surgery
- Recognition of the modern milestones of the development of Modern medicine and surgery
- Recognition of the milestones of the development of modern surgery
- Recognition of the history of surgical oncology
• Outlining the history of laparoscopy
• Recognition of the history of transplantation
• Outlining the history of key modern Egyptian institutes

2- Intended Learning Outcomes (ILOs):

a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1 - Define the milestones of development of Medicine
a2 - Identify the role of old Egypt in the development of Medicine and surgery
a3 - Discuss the role of Islamic scientists in the development of medicine and surgery
a4 - Explain the modern milestones in the development of Modern medicine and surgery
a5 - Interpret the milestones in the development of modern surgery with discussion of the history of surgical oncology, laparoscopy, and transplantation

b- Intellectual skills
By the end of the course the candidate will be able to:
b1 - Interpret the development of modern surgical techniques
b2 - Integrate historical information in order to develop solutions of modern surgical problems

c- Professional skills
By the end of the course the candidate will be able to:
c1 - Select appropriate historical knowledge to address modern questions in surgical practice
c2 - Apply historical knowledge in patient education
c3 - Use selected historical topics and milestones in developing modern research

d- General and transferable skills
By the end of the course the candidate will be able to:
d1 - Work effectively in a group of different backgrounds
d2 - Respect the role of staff and co-staff members regardless of degree or occupation
d3 - Communicate effectively with professional statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations
d4 - Use of computer data bases and other computer skills
d5 - Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition, project design and evaluation, risk management, teamwork and coordination

d6 - Learn independently with open-mindedness and critical enquiry

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>Milestones in the development of Medicine</td>
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<tr>
<td>The role of old Egypt and Islamic scientists in the</td>
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<td>development of Medicine and surgery</td>
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<td>Milestones in the development of Modern medicine and surgery</td>
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<td>History of surgical oncology</td>
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<td>History of laparoscopy</td>
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<td>History of transplantation</td>
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<td>History and Role of key modern Egyptian institutes</td>
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<td>Total</td>
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</table>

L: Lecture, T: Tutorial, C: Clinical and SDL: Self directed learning

4 - Student Assessment Methods

4.1 written exam to assess knowledge and intellectual skills

Weight of Assessment: 50 degrees

5- List of References

5.1- Course Notes (paper and / or electronic)
To be specified by the department of surgery

5.2- Essential Books (Text Books)
To be specified by the department of surgery

5.3- Recommended Books
To be specified by the department of surgery

5.4- Periodicals, Web Sites, etc

The following Journals include useful articles on the history of medicine

Annals of Science
British Journal for the History of Science
History of Science
History Today
History Workshop Journal
Medical History
Bulletin of the Hist of Med
Social Studies of Science
Journal of Contemporary History
Journal of the History of Biology
Journal of Interdisciplinary History
Journal of the History of Ideas
Journal of the History of Medicine and Allied Sciences
Minerva: a review of science, learning and policy
Proceedings of the Scottish Society for the History of Medicine
Social Problems
Social History of Medicine
Sociology of Health and Illness

MEDICAL LAW COURSE SPECIFICATION
University: Ain Shams University Faculty: of Medicine

Course specifications
A- Basic Information
Program on which the course is given: Diploma in General Surgery
Major or minor element of programs: Minor
Department offering the program: Department of General Surgery
Department offering the course: Department of General Surgery and Forensic Medicine
Academic Level: Diploma Surgery – 3rd semester
Date of specification approval: ……………………………

Basic information
Title: Medical Law course Code: E9035
Credit Hours: 1 h Lectures: 1/wk Total: 15 hrs
Coordinator:
Department of surgery

B - Professional Information
1- Course Aims:
• Recognition of medical liability issues in surgical practice
• Understanding the legal aspects of surgical practice
• Recognition of the law of medical practice
• Recognition of reporting of issues of legal relevance

2- Intended Learning Outcomes (ILOs) from the Course:
a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1 – Discuss the law of the medical profession
a2 – Define the surgical issues of legal importance
a3 – Outline areas and cases of confidentiality
a4- Identify the legal rights of doctors and medical institutions; hospitals, clinics, medical centers, pharmacies, etc…
a5- Describe the legal responsibilities of doctors and medical institutions
a4- Identify the legal steps of medical claims and procedures in case of trial of a doctor

b- Intellectual skills
By the end of the course the candidate will be able to:
b1 - Interpret correctly the legal issues in surgical practice
b2 - Integrate legal considerations in surgical practice
b3- Formulate a consent relevant to the surgical intervention
b4- Integrate the principles of patient privacy and patient-doctor confidentiality in surgical practice

c- Professional skills
By the end of the course the candidate will be able to:
c1- Write a proper medical report
c2- Document surgical procedures and interventions
c3- Communicate an informed consent to the patient
c4- Write an accurate death certificate

d- General and transferable skills
By the end of the course the candidate will be able to:
d1 - Work effectively in a group of different backgrounds
d2 - Respect the role of staff and co-staff members regardless of degree or occupation
d3 - Communicate effectively with professional statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations
d4 - Use of computer data bases and other computer skills
d5 - Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition, project design and evaluation, risk management, teamwork and coordination
d6 - Learn independently with open-mindedness and critical enquiry
3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
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<tr>
<td>The medical profession law</td>
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<tr>
<td>Legal issues in surgical practice</td>
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<tr>
<td>The legal rights of doctors and medical institutions; hospitals, clinics, medical centers, pharmacies, etc…</td>
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<tr>
<td>The legal responsibilities of doctors and medical institutions</td>
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<tr>
<td>Consent for a surgical intervention</td>
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<tr>
<td>A proper medical report and the Principles of Documentation of surgical procedures and interventions</td>
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<tr>
<td>Patient privacy and patient-doctor confidentiality in surgical practice</td>
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<tr>
<td>The death certificate</td>
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L: Lecture, T: Tutorial, C: Clinical and SDL: Self directed learning

4 - Student Assessment Methods
4.1 written exam to assess knowledge and intellectual skills

Weight of Assessment : 50 degrees

5 -- List of References
5.1- Course Notes (paper and / or electronic)
To be specified by the department
5.2- Essential Books (Text Books)
To be specified by the department
5.3- Recommended Books
To be specified by the department
5.4- Periodicals, Web Sites, etc
To be specified by the department
## Modules

### First Semester

**Title:** Module 1  
**Lecture:** 90 Total actual hours

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<td>GS6002</td>
<td>Anatomy, Embryology and Histology</td>
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<td>GS6003</td>
<td>General Surgical Pathology</td>
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<td>GS6004</td>
<td>Bacteriology</td>
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<td>GS6005</td>
<td>Pharmacology</td>
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### Second Semester

**Title:** Module 2

**Lecture:** 15 Total actual hours  
**Clinical:** 30 Total actual hours  
**Field:** 60 Total actual hours

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<tr>
<td>GS6006a</td>
<td>General surgery (1-11)</td>
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### Third Semester

**Title:** Module 3

**Lectures:** 30 Total actual hours  
**Clinical:** 60 Total actual hours  
**OR:** 60 Total actual hours

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<tr>
<td>GS 6006b</td>
<td>General Surgery (14-33)</td>
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### Fourth Semester

**Title:** Module 4  
**General Surgery:**

**Lectures:** 15 Total actual hours  
**Clinical:** 30 Total actual hours  
**OR:** 90 Total actual hours

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</thead>
<tbody>
<tr>
<td>GS6006c</td>
<td>General Surgery (36-58)</td>
<td>6</td>
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</table>
V- General Information

1 – Monitoring Of Training and Submission Of Training Reports
You must keep proper and updated records in your logbook to reflect the activities encountered in your training. Your logbook must be duly endorsed by an authorized signatory at the end of each semester.
You will be continuously assessed by your supervisors, in consultation with head of department. An assessment will be submitted within 2 weeks of completion of each semester.

2 - Miscellaneous Information:

Injury and/or Blood or Body Fluid Exposure:
- During regular working hours, you should immediately report an exposure incident to --------------------------. If exposure occurs after regular working hours or during a weekend or holiday; please call the ----------------------------------------.
For injury, please report to the Emergency Department.
Please also be sure to inform the supervisors of an exposure incident and/or injury.

3 - Action Completion Of Clinical Training
Once all training sessions are completed the log book should be signed by the senior supervisor and the head of the department and then should be submitted to post graduate Secretariat.

4- Reference
The Training Guide is available at the post graduate Secretariat and could be downloaded from the following website

-----------------------------------------------
VI – Your log book

1- Introduction
The aim of this book is to give you a guide to the expectations for each item. It will be a guide for both you and your supervisors and trainers to what you should be able to do, and what you should see.

It will give you a list of the important topics that should be covered in:
1. Lectures
2. Clinical or practical sessions
3. Tutorials
4. Self-directed learning

For each item there is also a list of
1-Clinical conditions or Practical sessions to be seen or attended
2-Practical procedures to be seen and done

Remember:

This document is only a guide. It is not an exhaustive list. It is not just a checklist to score points. It is a guide to encourage you to read and learn more. This book is for your benefit. It will form a record of your clinical training and experience.

2- Supervisors

3–Tables for Training Records

The candidate will record the details and date of each activity, and the authorized staff member signature

Candidates are required to fulfill 75% of the listed activities in order to be eligible for the exam entry. The minimum number required for each activity = 75%. You are free to attend more and record your extra attendance.
Weekly Department Plan

Each candidate should specify the weekly department plan, as actually performed at the training institute

Day /time | Saturday | Sunday | Monday | Tuesday | Wednesday | Thursday |
--- | --- | --- | --- | --- | --- | --- |
Grand Round/Seminar | D7 | D5B | D5B | D8B | D5A | D6B |
| | D8 | | D6B | | | |
Emergency/ Clinic attendance | D5A | D6 | D8 | D5B/5A | D7 | D6 |
Operative day | D6A | D5A | D5B | D5A | D5B | D5A |
| | D8B | D6 | D7 | D7 | D8B | D6A/6B |
| | D8 | | D8 | | D7 | |
Ward Round | D5B | D8B | D5A | D6A | D6A | D8 |

Conferences attendance
(NB. Minimum number required is One National Conference a year, or One International Conference each 2 years)

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Seminars attendance
(NB. Minimum number required is 18)

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Clinics attendance
(NB. Minimum number required 60)

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Case presentations
(Minimum number required is 20 cases)

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### Operative Skills (Agreement Scale)

**Requirements**

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Candidates are required to fulfill 75% of the listed activities in order to be eligible for the exam entry. You are free to attend more and record your extra attendance.

The candidate should be able to perform appropriate clinical examination of the following:
1- Swellings and Ulcers
2- Peripheral Vascular System
3- Peripheral Nerves
4- Lymphatic system
5- Oral cavity and salivary glands
6- Head and Neck
7- Thyroid Gland
8- The Breast and Axilla
9- The Abdomen
10- Inguinoscrotal Swellings
11- Jaundice

Others

In the beginning of each year, the department will specify obligatory and elective courses to be attended by the candidate. **Having a Teaching Experience, Research Experience, Projects, Publications, Field tasks, Administrative Experience, Administrative Experience, will be considered an**
addition to the candidate's status and will be taken in consideration during evaluation of the candidate's eligibility to enter the Master Degree final Exam.

5 - Log book preview

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<tr>
<th>Summary</th>
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<tr>
<td>Semester</td>
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<td>Activity</td>
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<td>Clinics (60)</td>
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<td>Emergency (60)</td>
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<td>Seminars (18)</td>
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<tr>
<td>Case Presentations (20)</td>
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<td>Theses (10)</td>
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<td>Conferences (2)</td>
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<tr>
<td>Minor Surgeries: Abscess drainage, lipoma, sebaceous cyst excision, circumcision, Ingrwon Toenail, Wound suturing (50)</td>
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<tr>
<td>Appendectomy (30)</td>
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<td>Breast Biopsy (5)</td>
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<td>Inguinal Hernia Repair (30)</td>
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<td>Paraumbilical and Incisional Hernia Repair (10)</td>
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<td>Anal Surgeries (20)</td>
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<td>Mastectomy (5)</td>
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<td>Abdominal Exploration (6)</td>
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<td>Cholecystectomy (3)</td>
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<td>Small Intestine Resection and Anastomosis (6)</td>
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<td>Splenectomy (10)</td>
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<td>Gastrectomy (6)</td>
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<td>Colectomy (10)</td>
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<td>Thyroidectomy (10)</td>
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<td>Sialadenectomy (3)</td>
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<td>Amputations (6)</td>
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<td>Supervisor signature</td>
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VII - Head Of Department Approval For The Exam Entry
VIII – Evaluation Forms

To be completed at -------------------------------------

Candidate
Supervisor
Location

Aim of training
______________________________________________________________
________________________________________________________________
________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
______________________________________________________________
________________________________________________________________
________________________________________________________________

Comments by Candidate
______________________________________________________________
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Comments by Supervisor
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Date of next meeting
Signed by candidate
Signed by Supervisor
Date
VIII – Evaluation Forms

To be completed at -------------------------------

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Signed by candidate
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VIII – Evaluation Forms

To be completed at ____________________________

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VIII – Evaluation Forms

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Comments by Supervisor
__________________________________________________________________
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Date of next meeting
Signed by candidate
Signed by Supervisor
Date

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Degree Program Evaluation Form by The Candidate
To be completed at the end of your degree.

Please consider each pair of statements and decide which most clearly reflects your view and tick one box or answer the question.

I. Individual Information
1. Are you a graduate of ASU?
   - yes
   - no
   - to some degree

2. Year and semester when studies began:

II. General Questions
1. What are the advantages/disadvantages of the general study environment at the University ASU?

2. What were your expectations when you applied to the degree?

3. Do you feel that the degree program prepares you well for your future studies or employment according to the demands and expectations of those institutions?
   - yes
   - no
   - to some degree

4. Has the time limit of the program (two or three academic years) caused you any difficulties or inconveniences?
   - yes
   - no
   - to some degree

III. Structure of Degree Program
1. Did you receive enough guidance in planning your study schedule in the beginning of the program?
   - yes
   - no
   - to some degree

2. What were the main difficulties in the planning of your study schedule?

3. What is your general opinion on the structure of the degree program?
4. In your opinion, does the degree program offer a good balance of lectures, seminars, conferences, and book exams?

☐ yes ☐ no ☐ to some degree

a) General Studies

i) Do you feel that you have received enough guidance on academic writing?

☐ yes ☐ no ☐ to some degree

ii) Do you feel that you have acquired sufficient knowledge on research skills (eg. quantitative and qualitative research methods)?

☐ yes ☐ no ☐ to some degree

b) Courses

i) Have you had some special difficulties in completing some of the courses? Please specify.

ii) Has there been a sufficient variety of courses offered for your optional studies?

☐ yes ☐ no ☐ to some degree

iii) Have you received enough guidance for the preparation of your thesis?

☐ yes ☐ no ☐ to some degree

IV. Concluding Points

1. Did the degree program meet your expectations?

☐ yes ☐ no ☐ to some degree

2. What aspects of the degree program do you particularly like?

3. What aspects of the degree program do you particularly dislike?

4. What are your suggestions on how to improve the program?

Thank you!