

Program Specification for Master Degree in General Surgery

Sohag University

Faculty of Medicine

A. Basic Information:

- 1- Program Title: Master Degree in General Surgery
- 2- Program Type: Single Program; two parts: 1st & 2nd.
- 3- Department Responsible: Department of General Surgery, Faculty of Medicine, Sohag University faculty: Faculty of Medicine
- 4- Coordinator: Program Coordinator: Prof. Dr. Alaa eldin alsuity
- 5- External Evaluator :Prof. Dr. Mostafa Najjy Al sanadiky
- 6- Head of General Surgery Dept –Al Minia College of Medicine
- 7- Last date of program specifications approval; faculty council No.182, decree NO.7163,

Dated 14/9/2009

B. Professional information:

1. Program Aims:

The aim of this program is to provide the postgraduate with the surgical knowledge and skills essential for the practice of general surgery and necessary for further training and practice in the field of general surgery including: through providing:

1. Scientific knowledge essential for the practice of general surgery according to the international standards.
2. Skills necessary for proper diagnosis and management of patients including diagnostic, problem solving and decision making and operative skills.
3. Provision of sound ethical principles related to medical practice.
4. Active participation in community needs assessment and problems solving.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Intended Learning Outcomes

a) Knowledge and understanding:

By the end of the study of master program in general surgery the Graduate should be able to:

- a.1 Mention the in the normal structure and function of the human body on the macro and micro levels.
- a.2 Understand the normal growth and development of the human body.
- a.3 List the the abnormal structure, function, growth and development of human body.
- a.4. Understand the natural history of general surgical diseases.
- a.5 Understand the causation of general surgical diseases and problems.
- a.6 Understand the techniques of different surgical operations
- a.7 List the clinical picture of general surgical diseases and problems.

- a.8 Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
- a. 9 Describe the various therapeutic methods/alternatives used for general surgical diseases and problems.
- A. 10 understand scientific development in the field of general surgery
- a.11 Describe the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
- a 12 Mention the principles and of ethics and legal aspects of professional practice in the field of general surgery.
- a.13 Know the principles of quality assurance of professional practice in the field of general surgery
- a. 14 Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a. 15 know basics and ethics of scientific research
- b) Intellectual skills**
By the end of the study of master program in general surgery the Graduate should be able to:
 - b.1 Interpret data acquired through history taking to reach a provisional diagnosis for general surgical problems.
 - b.2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for for general surgical problems.
 - b. 3 link between knowledge for professional problem solving .
 - b. 4 Conduct research studies, and/or write a scientific study on a research proble.
 - b.5 Assess risk in professional practices in the field of general surgery.
 - b.6 Plan to improve performance in the field of general surgery.
 - b. 7 Identify general surgical problems.and find solutions..
 - b 8 Analyze reading of research and issues related to the general surgery.
- c) professional and practical skills**
By the end of the study of master program in general surgery. the Graduate should be able to:
 - c-1 apply the basic and modern professional skills in the area of general surgery.
 - c-2 Write and evaluate of medical reports.
 - c-3Assess of methods and tools existing in the area of general surgery
- d) General and Transferable skills**
By the end of the study of master program in general surgery, the Graduate should be able to:

- d-1 communicate effectively by all types of effective communication
- d-2 Use information technology to serve the development of professional practice
- d-3 assess himself and identify of personal learning needs.
- d-4 use different sources to obtain information and knowledge.
- d-5 Develop rules and indicators for assessing the performance of others.
- d-6 Work in a team, and team's leadership in various professional contexts.
- d-7 manage time effectively.
- d-8 learn himself continuously

3. Academic Standards

Suggested NARS-based ARS

Sohag faculty of medicine adopted the general academic reference standard (NARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for postgraduate programs, this was approved by the faculty council decree NO.6854 in its session NO. 177 Dated 18/5/2009 based on these NARS, academic (ARS) were suggested for this program, these ARS were approved by the faculty council decree NO.7528 in its session NO. 177 dated:18/5/2009. based on these NARS; Academic Reference Standards ARS were suggested for this program. These ARS were approved by the faculty council decree NO. in its session NO. 191, dated: 15/3/2010.

4. Curriculum Structure and Contents

- 4. a. program duration: 7 semesters (3.5 years)
- 4. b. program structure:
 - 4. b. i. No. of hours per week:

First Part

Number of hours per week

subject	lectures	practical	clinical
Biochemistry	2	2	
Physiology	2	2	
Surgical anatomy	2	2	
Surgical pathology	2	2	
Histology	2	2	
Microbiology	2	2	
Clinical pharmacology	2	2	
Biostatics & Computer	2	2	
Research work	2	2	

Second part

Number of hours per week

subject	lectures	practical	clinical
General surgery and its branches	6 hrs/w (300)	6 hrs/w (290)	

5. 5 program courses

Number of compulsory programs 10

5.1- Level of PROGRAM

Compulsory

First part...semester (1)

subject	No. of hrs	Number of hours per week			Program ILOs covered by no.
		lectures	Practical/ surgical	clinical	
Surgical anatomy	4	2	2		a1,a2,a3,a4,b4,b8,c1,d3,d4,d6,d8
Surgical pathology	4	2	2		a3,a4,a5,a7,b2,b7,b8,c1,d3,d4,d6,d8
biochemistry	4	2	2		a3,b2,b7,b8,c1,d3,d8
histology	4	2	2		A1,b4,b8,c1,d3,d8
Physiology	4	2	2		A3,b2,b7,b8,c1,d3,d8
clinical Pharmacology	4	2	2		A9,b4,b7,b8,c1,d3,d8
microbiology	4	2	2		A4,a5,b2,b7,b8,c1,d3,d4,d8

Second part

Course Title	No. of Units	No. of hours /week			program ILOs Covered (By No.)
		Lect.	Practical/ surgical	clinical.	
General surgery and its branches	6	2	2	2	a1,a4,a5,a6,a7,a8,a9,a10,a11,a12,a13,a14,a15,b1,b2,b3,b5,b6,b7,b8,c1,c2,c3,d1,d2,d3,d4,d5,d6,d7,d8

6. Program Admission Requirements

I. General Requirement

- Candidates should have either:
 1. MBChB Degree from any Egyptian Faculties of Medicine or
 2. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.
- Candidate should complete the house officer training year
- Those who are not university hospital resident should pass training for at least 12 months in one of known hospital
- Regulatory rules of postgraduate studies of Sohag Faculty of Medicine.

II. Specific Requirements:

- Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final year examination, and grade “Good Rank” in general surgery Course too.

- Candidate should know how to speak & write English well.
- Candidate should know have computer skills.

7. Regulations for Progression and program Completion

Duration of program is 6 semesters (3 years), starting from registration till acceptance of the thesis; divided to:

First Part: (≥6 months=1 semester):

1. Program-related basic science and clinical Courses.
2. At least six months after registration should pass before the student can ask for examination in the 1st part.
3. Two sets of exams: 1st in April — 2nd in October after fulfillment of the credit hours.
4. For the student to pass the first part exam, a score of at least 60% in each curriculum is needed. (with at least 40% of the written exam.) .
5. Those who fail in one curriculum need to re-exam it only.

Thesis/Essay (24-48 months=4-8 semester):

- Start after at least 6 months from registration and should be completed, defended and accepted at least after passing 6 ms from documentation, and from passing the first part examination and at least one month before allowing to enter 2nd part final examination
Accepting the thesis/essay is enough to pass this part.

Second Part: (≥24 months=4 semesters):

1. Program related specialized science of general surgery courses and ILOs after passing at least:
 - a. -university hospital residents : 36 months residency in the department of general surgery
 - b. -residents in other places 12 months training in the department of general surgery .
2. The student should pass the 1st part before can ask for examination in the 2nd part.
3. Fulfillment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:

Grand rounds	اجتماع علمي موسع
Training courses	دورات تدريبية
Conference attendance	حضور مؤتمرات علمية
Thesis discussion	حضور مناقشات رسائل
Workshops	حضور ورش عمل
Journal club	ندوة الدوريات الحديثة
Case presentation	تقييم حالة مرضية
Seminars	لقاء علمي موسع
ندوة تحليل المخاطر المرضية أو الوفاة Morbidity and Mortality conference	
Self education program	برنامج التعليم الذاتي

8. Methods of student assessments:

Method of assessment	The assessed ILOs
1-Research assignment	-general transferable skills, intellectual skills
2-Written Exams:	
-Short essay	-knowledge
-MCQs	-knowledge, intellectual skills
-Commentary	- intellectual skills
-Problem solving	-general transferable skills, intellectual skills
3-Practical Exams	- Practical skills, intellectual skills
4-OSPE	- Practical skills, intellectual skills
5-Clinical Exams.	- Practical skills, intellectual skills
6-OSCE	- Practical skills, intellectual skills
7-Oral Exams.	- knowledge
8-Structured Oral Exams	--knowledge

9. Evaluation of program Intended

Evaluator	Tool	Sample
1- Senior students	questionnaire	6
2- Alumni	questionnaire	35
3- Stakeholders (Employers)	questionnaire	1
4-External Evaluator(s) (External Examiner(s))	report	1
5- Other		

PARAMETER	Agreement %
program aims & ILOs	
Did the program helped you to acquire skills needed to diagnose and manage the patients	63.5 acceptable 12.5 good
Does the current program give you the skills needed to reach a provisional diagnoses	87.5
Are Program alumni motivated to increase their professional knowledge and skills	36
Does the teaching program give the acceptable ethical behaviour	75
Does the current program motivate the alumni for continuous medical education	87.5
Do program alumni perform good communication with their patients	75 acceptable
Do program alumni have computer skills needed for their work.	56
Do program alumni perform team work	88.5
Can program alumni react well to emergency	75
Can program alumni reach a satisfactory preliminary diagnosis	85.5
Can program alumni choose the proper diagnostic methods	75
Can program alumni distinguish complicated cases above his own and establishment abilities	38.5
Do program alumni perform community health education	37.5
Do program alumni show scientific interest to widen their knowledge and study for post graduate degrees	85.5

Course Specifications of physiology in Master Degree General Surgery (first part)

University: sohag

Faculty: Medicine

1. Program on which the course is given: master degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: Anatomy and Embryology
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A-basic information

1-title and code: physiology

2-program on which this course is given: master

3-year/level of program: first part master

4-units / credit hours:

Lectures: 15 hours tutorial / practical: 0 hours total: 15 hrs

Credit hours: hr / week

B-professional information

1. **Overall aim of the course**

to prepare a **surgery** physician oriented with the physiology of the cardiovascular system including that of haemorrhage & types of shock and proper management also that concerned with the regulation of arterial blood pressure and PH of the blood. in addition , graduates should have enough knowledge about some endocrine glands especially thyroid gland. And it is very important to know the secretory and motility functions of G.I.T.

2. **Intended learning outcomes (ILOs)**

a. **Knowledge and understanding:**

By the end of this course, students should have adequate knowledge about:

- a1. List the the abnormal function of human body.

b. **Intellectual skills:**

by the end of the course , the students is expected to be able to :

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for general surgical problems.
- b2. Identify general surgical problems and find solutions..
- b3. Analyze reading of research and issues related to the general surgery.

c. **Professional and practical skills**

By the end of this course, students should have adequate knowledge about:

- c1. Apply the basic and modern professional skills in the area of general surgery

d. **General & transferable skills:**

By the end of this course, students should have adequate knowledge about:

- d1. Assess himself and identify of personal learning needs.
- d2. Learn himself continuously

3. contents of the course

Lectures (24 hrs)

- I-shock & haemorrhage (2 hrs)
- II-regulation of arterial blood pressure (1 hr)
- III- regulation of respiration (1 hr)
- IV-regulation of blood PH (2 hrs)
- V-blood volume (1 hr)
- VI-blood coagulation (1 hr)
- VII-thyroid , parathyroid & adrenal (3 hrs)
- VIII-secretory & motility function of G.I.T (1 hr)
- IX-mechanism of urine formation (1 hr)
- X-calcium ion homeostasis (1 hr)
- XI-potassium ion regulation in intracellular fluid (1 hr)

4. Teaching and Learning Methods

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	week: 10-12....
Assessment 2 ... Assignment....	Week: 15-16.....
Assessment 3 ...periodic. 2....	Week ...18-20.....
Assessment 2 ...Final practical exam...	week: 24
Assessment 3 ... Final written exam....	Week ...24
Assessment 4Final oral exam.....	week....24

Weighting of Assessments

Final-written Examination	50	%
Oral Examination.	25	%
Practical Examination	25	%

Total 100%

Formative assessment only: simple research assignment, log book, attendance

6. List of references

Course notes

Department notes, lectures & handouts.

Essential books (textbooks)

Gyton textbook of physiology

7. Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b. teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras, scanner, copiers, colour and laser printers.

Course Coordinator: Nawal Badawy

Head of Department: Dr. Manerva Fahmi

Date: 12/9/2009

Course Specifications of Biochemistry Master Degree General Surgery (first part)

University: sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: medical biochemistry department.
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A- Basic Information

Title: Medical Biochemistry

Credit Hours:one hour Lecture: 2 hour/w

Tutorial:2 hours/week Practicals: Total: 24weeks/six month

B- Professional Information

1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the biochemistry of the electrolyte imbalance as postoperative care , and factors affecting wound healing .

2. Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

- a.3 List the the abnormal function of human body.

b- Intellectual Skills

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for general surgical problems.
- b2. Identify general surgical problems.and find solutions..
- b3. Analyze reading of research and issues related to the general surgery.

c- Professional and Practical Skills

- c1. Apply the basic and modern professional skills in the area of general surgery.

d- General and Transferable Skills

- d1. assess himself and identify of personal learning needs.
- d2. learn himself continuously

3. Contents

Topic	No. Of hours	Teacher Name	Lecture	Tutorial/Practical
<u>Carbohydrates</u> -Factors affecting blood glucose level -Catecholamines -Diabetes mellitus -Hepatic role in regulation of blood glucose . -Biochemical diagnosis of diabetes <u>Lipids:</u>	11 hours	Dr. Ramadan	3.5	3 hours / week / 2/ week
<u>Lipids:</u> -Dyslipoproteinemias. -Fatty liver. -Essential fatty acids. -Ketosis in details. -Metabolism of athero sclerosis.	11 hours	Prof..Madeha Zakary	3.5	3 hours / week / 2/ week
<u>Prote</u> <u>Proteins</u> - -Urea cycle - Amino acids (Tyrosine, phenylalanine, tryptophan ,Glycine , Glutamic acid).	11 hours	Dr. Nagwa Sayed	3.5	3 hours / week / 2/ week
<u>Nucleoproteins</u> -Gout in details	6 hours	Prof. Manal Mohammed	2	3 hours / week / 2/ week
-Minerals	10 hours	Prof. Manal Mohammed + Dr. Nagwa Sayed	3.5	3 hours / week / 2/ week
Vitamin	2 hours	Prof. Tahia Hashim	1	3 hours / week / 2/ week
<u>Heme and Hemoglobin metabolism</u>				
<u>Porphyrias</u>				
<u>Growth factors</u>				
<u>TYumour markers in details .</u>				
<u>Factors affecting wound healing</u>				
<u>Apoptosis and free radicals</u>	16	Prof. Tahia	5.5	3 hours / week /

	hours	Hashim		2/ week
<u>Electrolyte imbalance(postoperative care)</u>	3 hours	Prof Ahmed Yasseen	1	3 hours / week / 2/ week
<u>Blood gases</u>	3 hours	Prof Ahmed Yasseen	1	3 hours / week / 2/ week
<u>Nutrition</u>	2 hours	Prof. Tahia Hashim	1	3 hours / week / 2/ week

4. **Teaching and Learning Methods**

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5. **Student Assessment Methods**

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1... week: 10-12....

Assessment 2 ... Assignment.... Week: 15-16.....

Assessment 3 ...periodic. 2.... Week ...18-20.....

Assessment 2 ... Final practical exam... week: 24

Assessment 3 ... Final written exam.... Week ...24

Assessment 4Final oral exam..... week....24

Weighting of Assessments

Final-written Examination 50%

Oral Examination. 25%

Practical Examination 25 %

Total 100%

Formative assessment only: simple research assignment, log book, attendance

6. **List of References**

6.1- Course Notes

Department books

6.2- Essential Books (Text Books)

1. Text book of medical biochemistry with clinical Devlin, JM 1994

2. Harper's biochemistry, Murray, RK 2005

6.3- Recommended Books

1. Lectures notes on clinical biochemistry, Whitby et al 1993

2. Lippincott's illustrated reviews biochemistry, Champe, PC, Harvey, RA, 2005

6.4- Periodicals, Web Sites, ... etc

1. <http://www.ncbi.nlm.gov/>

2. <http://www.vlib.org/>
3. www.genome.ad.jp/kegg/regulation.
4. Findarticle.com
5. Freemedicaljournals.com

7. Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b. teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras, scanner, copiers, colour and laser printers.

Course Coordinator: Nagwa Sayed Ahmed Hassan

Head of Department: Nagwa Sayed Ahmed Hassan

Date: 12/9/2009

Course Specifications of pharmacology in Master Degree General Surgery (first part)

University: Sohag

Faculty: Medicine

- 1- Program on which the course is given: Master degree in general surgery.
- 2- Minor element of program.
- 3- Department offering the program: General Surgery department
- 4- Department offering the course: pharmacology department.
- 5- Academic year / Level: 1st part
- 6- Date of specification approval: faculty council No.182, decree No.7163 Dated: 14/9/2009.

A. Basic Information

Title: Course Specifications of anatomy in Master degree General Surgery

Credit Hours: : 3 hs. Lecture: 15 hs.

Tutorial: Practical: 30 hs. Total:45

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the most common drugs used in surgery as;

- a. Analgesics
- b. Antibiotics
- c. Corticosteroids
- d. Antithyroid drugs

2. Intended learning outcomes(ILOs)

a) Knowledge and understanding

By the end of this course, students should have adequate knowledge about:

- a1. Describe the various therapeutic methods/alternatives used for general surgical diseases and problems

b) Intellectual skills

By the end of this course, students should have adequate knowledge about:

- b1. Conduct research studies, and/or write a scientific study on a research problem.
- b2. Identify general surgical problems and find solutions.
- b3. Analyze reading of research and issues related to the general surgery.

c) Professional and practical skills:

By the end of this course, students should have adequate knowledge about:

- c1. Apply the basic and modern professional skills in the area of general surgery.

d) General and Transferable skills:

By the end of this course, students should have adequate knowledge about:

- d1. Assess himself and identify of personal learning needs.
- d2. S learn himself continuously

3. Contents

Topic	No. of hours	Lecture
Introduction	2	5
NSAID	2	2
antibiotics	2	5
corticosteroids	2	5
Antithyroid drugs	2	5

Opioid analgesics	2	5
Revision	3	5
Total	15	8

4. **Teaching and Learning Methods**

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5. **Student Assessment Methods**

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1... Week: 10-12....

Assessment 2 ... Assignment.... Week: 15-16.....

Assessment 3 ...periodic. 2.... Week ...18-20.....

Assessment 2 ...Final practical exam... Week: 24

Assessment 3 Final written exam.... Week ...24

Assessment 4.....Final oral exam..... Week....24

Weighting of Assessments

Final-written Examination 50%

Oral Examination. 25 %

Practical Examination 25 %

Total 100%

Formative assessment only: simple research assignment, log book, attendance.

6. **References**

6.1- Course Notes

Notes of the department and practical notebook

6.2- Essential Books (Text Books)

Goodman"s and Gilman

6.3- Recommended Books

Katzumy in pharmacology

7. **Facilities Required for Teaching and Learning**

a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.

b. Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras, scanner, copiers, colour and laser printers.

Course Coordinator: Faten M Omeran

Head of Department: Mahmoud Hamdi

Date: 12/9/2009

Course Specifications of Anatomy in Master Degree General Surgery (first part)

University: Sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: Anatomy and Embryology
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A- Basic Information

Title: Course Specifications of anatomy in Master degree General Surgery

Credit Hours: : 3 hs. Lecture: 15 hs.

Tutorial: Practical: 30 hs. Total:45

B- Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the anatomy head, neck, abdomen and pelvis

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty: the student is to be armed with professional knowledge about the anatomy of the head, neck abdominal and pelvic cavity as well as their embryological bases

a- General and Transferable Skills:

- a1. Mention the in the normal structure and function of the human body on the macro levels.
- a2. Understand the normal growth and development of the human body.
- a3. List the abnormal structure, function, growth and development of human body.

b- Intellectual skills

- b1. Conduct research studies, and/or write a scientific study on a research proble.
- b2. Analyze reading of research and issues related to the general surgery.

c- Professional and practical skills:

- c1. Apply the basic and modern professional skills in the area of general surgery.

d- General and Transferable skills:

- d1. assess himself and identify of personal learning needs.
- d2. use different sources to obtain information and knowledge.
- d3. Work in a team, and team's leadership in various professional contexts.
- d4. learn himself continuously

3. Contents

Topic	No. of hours	Lecture
Introduction	2	5
Anatomy and embryology of the face	2	5
Anatomy and embryology of the abdominal organs	2	5
Anatomy and embryology of the pelvic organs	2	5
Anatomy and embryology of the cranial nerves	2	5
Anatomy and embryology of the spinal nerves	2	5
Revision	3	5
Total	15	8

4. Teaching and Learning Methods

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5. Student Assessment Methods

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1... Periodic 1... week: 10-12....

Assessment 2 ... Assignment.... Week: 15-16.....

Assessment 3periodic. 2.... Week ...18-20.....

Assessment 2 ...Final practical exam... week: 24

Assessment 3 Final written exam.... Week ...24

Assessment 4Final oral exam..... week....24

Weighting of Assessments

Final-written Examination 50%

Oral Examination. 25%

Practical Examination 25 %

Total 100%

Formative assessment only: simple research assignment, log book, attendance

6. List of References

6.1- Course Notes

Notes of the department and practical notebook.....

6.2- Essential Books (Text Books)

Gray's Anatomy

6.3- Recommended Books

A colored Atlas of Human anatomy and Embryology.

7. Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b. Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras, scanner, copiers, colour and laser printers.

Course Coordinator: Dr . Esam Salah Kamel.

Head of Department: Dr. Esam Salah Kamel.

Date: 12/9/2009

Course Specifications of Histology in Master Degree General Surgery (first part)

University: sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: histology department.
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A- Basic Information

Title: Histology

Code: HIS 0529-200

Credit Hours: 1hs. (in 1 semester)

Lecture: 0.5 credit hour

Practical:0.5 credit hour

B- Professional Information

1 – Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the histology head, neck, abdomen and pelvis

2 – Intended Learning Outcomes of Course (ILOs):

1. Scientific know ledges and skills essential for understanding the surgical problems at microscopical level
2. Having the ability to engage in further following researches and training in any branch of applied clinical Histology.

2. Intended learning outcomes (ILOs):

a) Knowledge and Understanding:

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

- a1. Mention the in the normal structure and function of the human body on the micro levels.

b) Intellectual Skills:

By the end of the course the student should have the ability to:

- b1. Conduct research studies, and/or write a scientific study on a research proble.
- b2. Analyze reading of research and issues related to the general surgery.

c) Practical and professional skills:

- c1. Apply the basic and modern professional skills in the area of general surgery.

d) General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. Assess himself and identify of personal learning needs.
- d2. learn himself continuously

3- Contents

Topic	No. of hours	practical	lectures
Cytology: -general structure of the nucleus. -general structure of the cytoplasm. General structure of the body basic tissues: - epithelial tissue. -connective tissue. -muscular tissue. -nervous tissue. -blood and haemopoietic tissue.	0.2	0.1	0.1
Cardiovascular system : General structure of the heart wall. General structure of the wall of blood vessels. Arteries (large+medium sized) Veins (large+medium sized) Structure of special types of arteries and veins. Arteriovenous connection;capillaries,sinusoids and arteriovenous anastomosis.	0.2	0.1	0.1

Lymphatic and immune system: Structure of lymph vessels. Distribution and structure of lymphoid tissue. structure and function of lymphatic nodule lymphocytes and immune cells reaction of B&T lymphocytes to antigens. Common mucosal immune system. Structur and function of lymphatic organs: Lymph nodes. Spleen thymus Tonsils Mononuclear phagocytic system. Antigen presenting cells. Stains to identify member of immune cells.	0.2	0.1	0.1
--	-----	-----	-----

<p>Integumentary system Structure and function of the skin. Different types of cells in the epidermis. Skin types and their sites. Keratinization of skin. Pigmentation of nskin. Immune responses of the skin. Sweat glands;eccrine,apocrine. Hairs and hair follicles. Sebaceous glands and erector pili muscles. Nails. Sensory receptors of the skin. Endocrine system : Main components of endocrine system. Pituitary gland: Development and general organization. Anterior lobe and its relation to the hypothalamus. Posterior lobe and its rlation to the hypothalamus. Thyroid gland: Development. Microscopic structure;LM.&EM. Characteristic properties. Function and mechanism of secretion. Hypo and hyperfunction and its relation to the structure. Parathyroid gland: Development,site and its relation to the thyroid. Chief and oxyphil cells;structure and function. Suprarenal gland Development (cortex and medulla). Adrenal cortex;zona glomerulosa,zona fasciculata,zona reticularis. Adrenal medulla;chromaffin cells and ganglion cells. Adrenal hormones. Blood supply of the adrenal gland and its significance. Paraganglia: Structure and function. Relation to supra renal medulla. Pineal gland: Development. Structure and function. Pinealocytes structure and function.eceptors of he skin.</p>	0.2	0.1	0.1
---	-----	-----	-----

Digestive system Oral cavity: Lip Tongue. Cheek. Teeth and gingiva. Salivary glands: Classification;major and minor. Parotid gland Submandibular gland. Sublingual gland. Differences between different glands. Palate and pharynx: Hard and soft palate. Pharynx;structure and funvction. Pharangeal and palatine tonsil. Digestive tract: General structure og GIT. Oesophagus. Stomach;fundus,cardiac and pyloerus. Small intestine;duodenum,jejunum and ileum. Large intestine and appendix. Cell renewal in GIT. Junctions;gastro-oesophageal,pylorodudenal and rectoanal. Pancreas: Exocrine portion and pancreatic secretion. Endocrine portion. Liver: Internal organization ang hepatic lobulation. Hepatocytes;LM&EM. Bile canaliculi. Blood supply. Space of Disse. Structure and function of gall bladder.	0.2	0.1	0.1
Total	1	0.5	0.5

4- Teaching and Learning Methods

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5- Student Assessment Methods

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	week: 10-12....
Assessment 2 ... Assignment....	Week: 15-16.....
Assessment 3 ...periodic. 2....	Week ...18-20.....
Assessment 2 ...Final practical exam...	week: 24
Assessment 3 Final written exam....	Week ...24
Assessment 4.....Final oral exam.....	week....24

Weighting of Assessments

Final-written Examination	50	%
Oral Examination.	25	%
Practical Examination	25	%

Total 100%

Formative assessment only: simple research assignment, log book, attendance

6- List of References

6.1- Course Notes

- Lectures notes prepared in the form of a book authorized by the department
- Laboratory manual authorized by the department

6.2- Essential Books (Text Books)

- Junqueira, Carneiro and Kelly (1995): Basic Histology, 7th ed.Librairie du liban and lang buruit,London,New York.
- Fawcett(1994):A Text Book of Histology,12th ed.Chapman and Hall,New York,London.
- Drury,R.A.B. and Walington,E.A.(1980): Histological techniques,5th ed.Oxford university press,New York.
- Pears,A.G.E.(1985): Histochemistry theoretical and applied,4th ed.Churchill Livingstone,Melbourne and New York.

6.3- Recommended Books

- Cormack,H.D.(1987): A text book of Histology,9th edition,Lippincott,J.B. Company,Philadelphia.
- Williams,P.L.(1995):Gray's Anatomy,the anatomical bases of Medicine and Surgery,38th ed.,Cgurchill,Livingstone,Britain.

6.4- Web Sites:

- www.yahoo.com
- www.pubmed.com

6.5-Periodicals:

- Egyptian J of Histology
- Egyptian J of Anatomy
- Acta Anatomica
- International J of Experimental Research
- Science
- Cell and Tissue Research

7- Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b. Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video camers,scanner, copiers, colour and laser printers.

Course Coordinator: Dr Eman E AbU-Dief

Head of Department: Dr Eman E AbU-Dief

Date: 12/9/2009

Course Specifications of pathology in Master degree General Surgery

University: Sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general surgery.
2. Minor element of program.
3. Department offering the program: general surgery department
4. Department offering the course: pathology department
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A. Basic Information

Title: Course Specifications of pathology in Master degree General Surgery

Code: Pathology

Credit Hours: **Lecture:**

Tutorial: - **Practical:** hrs. **Total:**

B- Professional Information

1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of surgical diseases.

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

a- Knowledge and Understanding:

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

- a1. List the the abnormal structure, function, growth and development of human body.
- a2. Understand the natural history of general surgical diseases.
- a3. Understand the causation of general surgical diseases and problems.
- a4. List the clinical picture of general surgical diseases and problems.

b- Intellectual Skills:

By the end of the course the student should have the ability to:

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for for general surgical problems.
- b2. Identify general surgical problems.and find solutions..
- b3. Analyze reading of research and issues related to the general surgery.

c- Professional and Practical Skills:

By the end of the course the student should have the ability to:

c1. apply the basic and modern professional skills in the area of general surgery.

d- General and Transferable Skills:

By the end of the course the student should have the ability to:

- d1. assess himself and identify of personal learning needs.
- d2. use different sources to obtain information and knowledge.
- d3. Work in a team, and team's leadership in various professional contexts.
- d4. learn himself continuously

3. Course contents:

Topic	No. of hours	Lecture	Practical
<u>1- General Pathology:</u>			
1.1. Inflammation & repair.			
1.2. Cell response to injury and aging.			
1.3. Disturbances of circulation.			
1.4. Immunity and hypersensitivity.			
1.5. Bacterial infection and tuberculosis.			
1.6. Viral and rickettsial diseases.			
1.7. Parasitic diseases and mycotic diseases			
1.8. Disturbances of cellular growth.			
1.9. General pathology of tumors.			
1.10. Genetic diseases.			
<u>2- Gastrointestinal tract:</u>			
2.1. Diseases of the lips.			
2.2. Diseases of the tongue.			
2.3. Diseases of the mouth and oral cavity.			
2.4. Diseases of the salivary glands.			
2.5. Diseases of esophagus.			
2.6. Diseases of the stomach.			
2.7. Diseases of the small intestine.			
2.8. Diseases of the large intestine.			
<u>3- Liver, biliary passages & pancreas.</u>			
3.1. Tumors of the liver.			
3.2. Portal hypertension and liver cell failure.			
3.3. Cholecystitis & gall stones.			
3.4. Pancreatitis & pancreatic tumors.			
3.5. Peritonitis & peritoneal tumors.			
<u>4- Endocrine system:</u>			
4.1. Diseases of pituitary gland			
4.2. Diseases of thyroid gland			
4.3. Diseases of parathyroid gland			
4.4. Diseases of adrenal gland			
<u>5- Diseases of blood, lymph nodes, and spleen:</u>			
5.1. Lymphadenopathy.			
5.2. Lymphomas			
Total			

4- Teaching and Learning Methods

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5- Student Assessment Methods

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	week: 10-12....
Assessment 2 ... Assignment....	Week: 15-16.....
Assessment 3 ...periodic. 2....	Week ...18-20.....
Assessment 2 ...Final practical exam...	week: 24
Assessment 3 Final written exam....	Week ...24
Assessment 4Final oral exam.....	week....24

Weighting of Assessments

Final-written Examination	50	%
Oral Examination.	25	%
Practical Examination	25	%

Total 100%

Formative assessment only: simple research assignment, log book, attendance

6- List of References

6.1- Course Notes: lectures notes prepared by the staff member in the department.

6.2- Essential Books (Text Books):

- Principles of General and Special Pathology ,Gamal Nada.
- Muir's text book of pathology.
- Robbins pathologic basis of diseases.

6.3- Recommended Books:

- Rosi &Ackerman text book of pathology.
- Sternberg text book of pathology.

6.4- Periodicals, American journal of pathology

- Pathology
- Human pathology

- Web Sites: <http://www.ncbi.nlm.nih.gov/pubmed/>

7- Facilities Required for Teaching and Learning

a) Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.

b) Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video camers,scanner,copiers, colour and laser printers

Course Coordinator: Dr/ Eman Salah

Head of Department: Dr/ Zinab Hamdi El Badawi

Date: 12/9/2009

Course Specifications of Microbiology in Master Degree General Surgery (first part)

University: Sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: microbiology and immunology department.
5. Academic year / Level: 1st part
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A- Basic Information

Title: Medical Microbiology & Immunology **Code:** MIC0529-200

Credit Hours: 3 Hs. **Lecture:** 5 Hs /M.

Practical: 7.5 Hs./M. **Total:** 12.5 Hs/M.

B- Professional Information

1 – Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt , and learn to use the knowledge gained from applied microbiology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription. The student is expected to fully understand the concept of nosocomial infections, particularly on how to avoid and manage SSI; and to fully co-operate with the infection control team. The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

2 – Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

by the end of the course the student is expected to:

- a1. Understand the natural history of general surgical diseases.
- a2. Understand the causation of general surgical diseases and problems.

b- Intellectual Skills:

By the end of the course the student is expected to:

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for general surgical problems.
- b2. Identify general surgical problems and find solutions.

b3. Analyze reading of research and issues related to the general surgery.

c- Professional and Practical Skills:By the end of the course the student should have the ability to

c1. Apply the basic and modern professional skills in the area of general surgery.

d- General and Transferable Skills:

By the end of the course the student should have the ability to:

d1. assess himself and identify of personal learning needs.

d2. use different sources to obtain information and knowledge.

d3. learn himself continuously

3- Contents

Lectures	No. of hours	Lectures	No. of hours
<u>General Bacteriology</u>		<u>Mycology</u>	
Bacterial anatomy & Physiology	1	Fungal classifications	0.5
Bacterial genetics	1	Opportunistic mycosis& Antifungal drugs	0.5
Recombinant DNA technology	1		
Antibiotics	2	<u>Immunology</u>	
Sterilization & Disinfection	2	Congenital & Acquired Immunity	0.5
<u>Systematic Bacteriology</u>		Immunological Cells	0.5
Gram +ve cocci	2	Hypersensitivity	1
Gram –ve cocci	1	Transplantation	1
Gram +ve bacilli	1	Tumor Immunology	1
Gram –ve bacilli(1)	1	Immunodeficiency	0.5
<u>General virology</u>	0.5	<u>Applied Microbiology</u>	3
<u>Systematic Virology</u>		Nosocomiology & Infection control	5
RNA viruses	2		
DNA viruses	2		
PRACTICAL SUBJECTS			

Each practical round is approximately 2.5 hours long.

1	Bacterial Cultures
2	Bacterial Isolation & Identification
3	Diagnostic Molecular Biology Methods
4	Antibiotic Sensitivity Tests
5	Sterilization & Disinfection
6	Immunology(Antigen Antibody Reactions) 1
7	Immunology(Antigen Antibody Reactions) 2
8	Staphylococci
9	Streptococci & Pneumococci
10	Neisseria
11	Corynebacterium
12	Mycobacterium
13	Enterobacteria
14	Pseudomonas & Yersinia
15	Bacillus
16	Clostridium
17	Vibrios & Brucella
18	Spirochaetes & Mycology

4- Teaching and Learning Methods

4.1-lectures.

4.2-practical lessons.

4.3- Assignments for the students to empower and assess the general and transferable skills

5- Student Assessment Methods

5.1- Assignments for the students to empower and assess the general and transferable skills

5.2 final written exam to assess Knowledge, understanding and intellectual skills.

5.3 final oral exam to assess understanding and intellectual skills.

5.4 final practical exam to assess practical skills.

Assessment Schedule

Assessment 1 ... Periodic 1...	week: 10-12....
Assessment 2 ... Assignment....	Week: 15-16.....
Assessment 3 ...periodic. 2....	Week ...18-20.....
Assessment 2 ...Final practical exam...	week: 24
Assessment 3.... Final written exam....	Week ...24
Assessment 4.....Final oral exam.....	week....24

Weighting of Assessments

Final-written Examination	50%
Oral Examination.	25%
Practical Examination	25 %

Total	100%
-------	------

Formative assessment only: simple research assignment, log book, attendance

6- List of References

6.1- Course Notes

Notes of the department and practical notebook

Prof. Abla Elmeshad

6.2- Essential Books (Text Books)

Jawetz Medical Microbiology.

Roitt Essential Immunology.

Abbas Clinical Immunology

Alberts Molecular Biology

6.3- Recommended Books

A coloured Atlas of Microbiology.

Topley and Wilson, Microbiology

6.4- Periodicals, Web Sites, ... etc

Microbiology

Immunology

<http://mic.sgmjournals.org/>

7- Facilities Required for Teaching and Learning

- a) Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b) Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras,scanner,copiers, colour and laser printers.

Course Coordinator: Prof . Ahmed Hassan Abdel-Aziz

Head of Department: Prof. Ahmed Hassan Abdel-Aziz

Date: 12/9/2009

Course Specifications of general surgery in Master degree General Surgery

University; Sohag

Faculty: Medicine

1. Program on which the course is given: Master degree in general Surgery
2. Major element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: General Surgery department
5. Academic year / Level: 2nd part.
6. Date of specification approval: faculty council No.182, decree No.7163
7. Dated: 14/9/2009.

A- Basic Information

Title: Course Specifications of general surgery in Master degree General Surgery

Academic Level: Master degree of general surgery

Number of hours\ unit: Lecture→ 15 hours \ week

Credit Hours:

Lecture: 360 hours

Tutorial: 190 hours

Practical: 200 hours

Group discussion: 480 hours

Total: 1230 hours

B- Professional Information

1 – Overall Aims of Course are to:

- Deliver an advanced knowledge of general surgery and its subspecialties and hence the candidate can recognize a wide range of general surgical problems
- establish an advanced skill of the candidates to deal safely with the general surgical disorders.

2 – Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

- a1. Mention the recent advances in the normal structure and function of the human body on the macro micro levels.
- a2. Understand the natural history of general surgical diseases.
- a3. Understand the causation of general surgical diseases and problems.
- a4. Understand the techniques of different surgical operations .
- a5. List the clinical picture and differential diagnosis of general surgical diseases and problems..
- a6. Describe the various therapeutic methods/alternatives used for general surgical diseases and problems.
- a7. Understand scientific development in the field of general surgery

- a8. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
- a9. Describe the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
- a10. Mention the principles and of ethics and legal aspects of professional practice in the field of general surgery.
- a11. Know the principles of quality assurance of professional practice in the field of general surgery
- a12. Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a13. Know basics and ethics of scientific research

b) Intellectual skills

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for general surgical problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis of general surgical problems.
- b3. link between knowledge for professional problem solving .
- b4. Assess risk in professional practices in the field of general surgery.
- b5. Plan to improve performance in the field of general surgery
- b6. Identify general surgical problems and find solutions..
- b7. Analyze reading of research and issues related to the general surgery.

c) professional and practical skills

- c1. Apply the basic and modern professional skills in the area of general surgery.
- c2. Write and evaluate of medical reports.
- c3. Assess of methods and tools existing in the area of general surgery

d) General and Transferable skills:

- d1. communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice
- d3. assess himself and identify of personal learning needs.
- d4. use different sources to obtain information and knowledge.
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. manage time effectively.
- d8. learn himself continuously

3- Contents

Topic	No. of hours	lectures	Practical/surgical
▪ Module 1: Breast			
▪ Module 2:Coloproctology			
▪ Module 3: Endocrine			
▪ Module 4: General surgery			
▪ Module5: Hepatopancreatobiliay			
▪ Module6: Oesophagogastric			
▪ Module 7: General surgery of childhood			
▪ Module 8: Transplant			
▪ Module 9: Vascular			
▪ Module 10: Urinary tract disease			
▪ Module11: Tests and scrotum			
▪ Module 12: Fractures			
Module 13: Pre and post operative care.			
Module 14: Post-operative complications			
Module 15: intensive care therapy.			
Module 16: lymphatic system			
Total			

4- Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Clinical cases
- 4.3- Surgical lessons
- 4.4- Attending and participating in scientific conferences, workshops, and group discussion to acquire the general and transferable skills needed.

5- Candidate Assessment Methods

1. Research assignment for the students to empower and assess the general and transferrable skills.
2. Log book to assess clinical, surgical, general and transferrable skills.
3. Final written exam to assess knowledge and understanding.
4. Final commentary written exam to assess intellectual skills.
5. Final oral exam to assess knowledge and understanding.
6. Final clinical exam (OSCE) to assess Clinical skills.

Assessments schedule:

Assessment 1 log book (formative exam)	Week: 80
Assessment 2 Final clinical exam....	Week: 96
Assessment 3Final written exam	Week: 96
Assessment 4 ... Final oral exam	Week: 96

Weighting of Assessments

Final-written Examination 100%

Separate exam and passing in the written exam is a condition to pass to oral exam

Final oral 50%

Final clinical exam 50%

Formative assessment only: simple research assignment, log box, attendance and absenteeism

List of References

Recommended books:

- Baily and love Text book of surgery
- Kasr El Aini Introduction to surgery.
- A manual of surgery , by M Abdelazeem Rifaat
- An Introduction to the Symptoms And Signs of Surgical Disease, by Norman Browse
- Text book of Surgery , the biological basis of modern surgical practice by David Sabiston
- Schwartz principles of Surgery
- Mastery of surgery ,4th edition (2001), by Robert J Baker , Joseph E Ficher.
- Periodicals
- American Journal of Surgery .
- Surgical clinics of North America.
- Surgery.
- Archives of surgery.
- British Journal of surgery.
- European Journal of surgery.
- Egyptian Journal of surgery

Important web sites

<http://www.ncbi.nlm.nih.gov/>

<http://www.webpath.com/>

<http://www.aacr.org/>

<http://www.uscap.org/>

<http://www.ascp.org/>

<http://www.freebooks4doctors.com/>

<http://www.pubmed.gov/>

<http://www.medscape.com/>

<http://emedicine.medscape.com/oncology>

http://www.geocities.com/jcprolla/cytopathology_diagnoses.html

<http://path.upmc.edu/cases/index.html>

<http://web.med.unsw.edu.au/pathology/Pathmus/pathmus.htm#InteractiveImages>

7- Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable desks, good source of aeration, good illumination, safety and security methods.
- b. Teaching tools: including screens, computers, data show, projectors, flip charts, white boards, video players, digital video cameras, scanner, copiers, colour and laser printers.

Course Coordinator: Prof. Dr/Samy Mohammad Osman

Head of Department: Prof. Dr/Samy Mohammad Osman

Date: 12/9/2009