

**Program Specification for MD Degree in General Surgery
Sohag University Faculty of Medicine**

A- Basic Information

1. Program Title; MD degree in general surgery
2. Program Type: Single
3. faculty: Faculty of Medicine
4. Department general surgery
5. Coordinator: prof. Dr / Samy Mohammad Osman
6. External Evaluator: Prof. Dr. Mostafa Najjy Al sanadiky
7. Head of General Surgery Dept –Al Minia College of Medicine
8. 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 advanced surgical knowledge and skills essential for the mastery of practice of general surgery and necessary for further training and practice in the field of general surgery including: through providing:

- 1- Recent 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 surgical practice.
- 4- Active participation in community needs assessment and problems identification.
- 5- Maintenance of learning abilities necessary for continuous medical education.
- 6- Upgrading research interest and abilities.

2. Program Intended Learning Outcomes (ILOs)

a-Knowledge and Understanding:

By the end of the study of doctoral program in general surgery the graduate should be able to:

- a.1 Mention the recent advances in the normal structure and function of the human body on the macro and micro levels.

- a.2 Understand recent advances in the normal growth and development of the human body.
- a.3 List the recent advances in the abnormal structure, function, growth and development of human body.
- a.4. Understand recent advances in the natural history of general surgical diseases.
- a.5 Understand recent advances in the causation of general surgical diseases and problems.
- a.6 Understand recent advances in the techniques of different surgical operations
- a.7 List the clinical picture and differential diagnosis of general surgical diseases and problems.
- a.8 Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
- a.9 Describe recent advances in the various therapeutic methods/alternatives used for general surgical diseases and problems.
- a.10 Describe recent advances in the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
- a.11 Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of general surgery.
- a.12 Know the principles and fundamentals of quality assurance of professional practice in the field of general surgery
- a.13 Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a.14 understand the basics and legal aspects of writing primary medical reports
- a.15 understand the basics of computer skills
- a.16 understand the importance of biostatistics in the field of general surgery

b- Intellectual Skills

By the end of the study of doctoral 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 general surgical problems.
- b.3 Conduct research studies, that adds to knowledge.
- b.4 Formulate scientific papers in the area of general surgery.
- 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 for general surgical problems. and find solutions..
- b.8 Have the ability to innovate nontraditional solutions to for general surgical problems.
- b.9 Manage Scientific discussion based on scientific evidences and proofs. b.10 Criticize researches related to for general surgery.

c- Professional and Practical Skills

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

- C-1 collect the basic and modern professional skills in the area of general surgery
- C-2 Write and evaluate medical reports.
- C-3 Evaluate and develop methods and tools existing in the area of general surgery
- C-4 use technological methods to serve the professional practice.

C-5 Plan for the development of professional practice and development of the performance of others.

C-6 train to develop new methods, tools and ways of professional practice

d- General and Transferable Skills

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

- D-1 present reports in seminars effectively.
- D-2 Use the information technology to serve the development of professional practice
- D-3 Teach others and evaluating their performance.
- D-4 Assess himself and identify his personal learning needs.
- D-5 use different sources for information and knowledge.
- D-6 Work coherently and successfully as apart of a team and team's leadership.
- D-7 Manage scientific meetings administration according to the available time

3- Academic Standards

Suggested NARS-based ARS

Sohag faculty of medicine adopted th 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 cession 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 cession 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 cession 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
Surgical anatomy	2	2	
Surgical pathology	2	2	
Biostatistics & Computer	2	2	
Research work	2	2	
Primary medical reports	2	2	

Second part Number of hours per week

subject	lectures	Practical/surgical	clinical
General surgery and its branches	2 hrs/w	2 hrs/w	2

5- program courses Number of compulsory courses 6

5.1- Level of program

First part

Compulsory

Number of hours per week					
subject	No. of hrs	lectures	Practical/surgical	clinical	Program ILOs covered by no.
Surgical anatomy	4	2	2		a1,a2,a3,b6,c5,d5
Surgical pathology	4	2	2		a1,a4,a5,b7,b8,c4,d5
Biostatistics & Computer	4	2	2		a15,a16,b9,c3,c6,d2
Research work	4	2	2		a12,a13,b3,b4,b10,c4,d3
Primary medical reports	4	2	2		a14,a16,b6,c5,d5

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,a6,a7,a8,a9,a10,a11,b1,b2,b5,b6,b8,c1,c5,d4,d6,d7

6- program Admission Requirements

I. General Requirement

- Candidates should have either:
 1. MBBCh Degree from any Egyptian Faculties of Medicine or
 2. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.
- Master Degree in general surgery
- 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.
- Master Degree in general surgery with at least “Good Rank”.
- 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 and ILOs & ethics Research Methodology, Biostatistics and computer & SPSS.
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.
5. Those who fail in one curriculum need to re-exam it only.

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

- a. Program related specialized science of general surgery courses and ILOs. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- b. 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	تقديم حالة مرضية
Seminars	لقاء علمي موسع
ندوة Morbidity and Mortality conference تحليل المخاطر المرضية أو الوفاة	
Self education program	برنامج التعليم الذاتي

- c. Two sets of exams: 1st in April— 2nd in October.

- d. At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- e. 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Thesis (24-48 months=4-8 semesters):

- a. Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, and after passing of at least 24 months after documentation of the subject of the thesis.
- b. Accepting the thesis is enough to pass this part.

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 learning outcomes:

Evaluator	Tool	Sample
1- Senior students	questionnaire	6
2- Alumni	questionnaire	18
3- Stakeholders (Employers)	questionnaire	6
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	65.5 acceptable 12.5 good
Does the current program give you the skills needed to reach a provisional diagnoses	88.5
Are Program alumni motivated to increase their professional knowledge and skills	38
Does the teaching program give the acceptable ethical behaviour	74
Does the current program motivate the alumni for continuous medical education	88.5
Do program alumni perform good communication with their patients	76 acceptable
Do program alumni have computer skills needed for their work.	55
Do program alumni perform team work	89.5
Can program alumni react well to emergency	77
Can program alumni reach a satisfactory preliminary diagnosis	86.5
Can program alumni choose the proper diagnostic methods	77
Can program alumni distinguish complicated cases above his own and establishment abilities	36.5
Do program alumni perform community health education	38.5
Do program alumni show scientific interest to widen their knowledge and study for post graduate degrees	85.5

Course Specifications of biostatistics and computer in MD degree General Surgery

University: sohag

Faculty : Medicine

1. Program on which the course is given: MD degree in general surgery
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: community medicine.
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 Specification of applied biostatistics (with computer use) for MD degree in general surgery

- **Lectures 46 hours: (2 hours/week*23 week)**
- **Practical 46 hours: (2 hours/week*23 week)**
- **Total 92 hours**

B- Professional Information

1 – Overall Aims of Course

- To influence the students to adopt an analytical thinking for evidence based medicine
- To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis

2 – Intended Learning Outcomes of Course (ILOs):

a) General and Transferable Skills:

- a.1 Understand the basics of computer skills
- a.2 Understand the importance of biostatistics in the field of general surgery

b) intellectual skills

- b.1 Manage Scientific discussion based on scientific evidences and proofs.

c) Professional and practical skills:

- c.1 Evaluate and develop methods and tools existing in the area of general surgery.
- c.2 Design new methods, tools and ways of professional practice.

d) General and Transferable skills:

- d.1 Use appropriate computer program packages.

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Normal distribution curves	4	2	2
Study design:	6	3	3
Cross sectional study and the prevalence rate	6	3	3
Cohort study, incidence rate, relative & attributable risk	6	3	3
Case-control study, Odd's ratio	6	3	3
Sampling	6	3	3
Tests of significance:	6	3	3
Proportion test	6	3	3
Chi-square test	6	3	3
Student T test	6	3	3
Paired T test	6	3	3
Correlation (simple and multiple)	6	3	3
Regression	6	3	3
ANOVA test	6	3	3
Descrimination analysis	6	3	3
Factor analysis	4	2	2
Total	92	46	46

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.....Final practical exam... Week: 24

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

Assessment 3.....Final oral exam..... Week: 24

Weighting of Assessments

- Final Written Examination 50 %
- Oral and Practical Examination. 50 %

Total

 100%

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

6- List of References

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

6.2- Essential Books (Text Books)

- Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

6.3- Recommended Books

- Dimensions of Community Health, Boston Burr Ridge Dubuque.
- Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.
- Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo.

6.4- Periodicals, Web Sites, ... etc

- American Journal of Epidemiology
- British Journal of Epidemiology and Community Health
- WWW. CDC and WHO sites

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 Abd El-Baset Mohammed

Head of Department: Prof. Mohammed Ali El-Torky

Date: 12/9/2009

Course Specifications of research methods in MD degree General Surgery

University: Sohag

Faculty of Medicine

1. Program on which the course is given: MD degree in general surgery.
2. Minor element of program
3. Department offering the course: Community Medicine Dep.
4. Department offering the program: General Surgery department.
5. Academic year: Doctoral Degree 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 research methods in MD degree General Surgery

- **Lectures 46 hours: (2 hours/week*23 week)**
- **Practical 46 hours: (2 hours/week*23 week)**
- **Total 92 hours**

B- Professional Information

1 – Overall Aims of Course

- To influence the students to adopt an analytical thinking for evidence based medicine
- To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis

2-Intended Learning Outcomes of Courses (ILOs)

a-Knowledge and understanding:

- 1-Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of general surgery
- 2-Know the principles and fundamentals of quality assurance of professional practice in the field of general surgery
- 3-Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.

b-Intellectual Skills

- 1-Conduct research studies, that adds to knowledge.
- 2-Formulate scientific papers in the area of general surgery
- 3-Criticize researches related to general surgery

c-Professional and Practical Skills:

- 1-Perform endoscopic and imaging evaluation of general surgical problems.

d-General and Transferable Skills:

- 1-Teach others and evaluate their performance.
- 2- Manage scientific meetings according to the available time.

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Introduction to research Terminology and rationale	14	7	7
Data collection methods	16	8	8
Types of Data	16	8	8
Tabulation of data	16	8	8
Graphical presentation of data	16	8	8
Measures of central tendency	16	8	8
Measures of dispersion	14	7	7
Total	92	46	46

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.....Final practical exam...	Week: 24
Assessment 2.... Final written exam....	Week: 24
Assessment 3.....Final oral exam.....	Week: 24

Weighting of Assessments

- Final Written Examination 50 %
- Oral and Practical Examination. 50 %

Total 100%

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

6- List of References

- 6.1- Course Notes: lectures notes prepared by the staff member in the department.
- 6.2- Essential Books (Text Books)
 - Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

6.3- Recommended Books

- Dimensions of Community Health, Boston Burr Ridge Dubuque.
- Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.
- Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo.

6.4- Periodicals, Web Sites ... etc

- American Journal of Epidemiology
- British Journal of Epidemiology and Community Health
- WWW. CDC and WHO sites

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 Abd El-Baset Mohammed

Head of Department: Prof. Mohammed Ali El-Torky

Date: 12/9/2009

Course Specifications of primary medical reports in MD degree General Surgery

University: sohag

Faculty ; Medicine

1. Program on which the course is given: MD degree in general surgery
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: forensic medicine and toxicology 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 primary medical reports in MD degree General Surgery

- Lectures: 46 hours: (2 hours/week*23 week)
- Practical: 46 hours: (2 hours/week*23 week)
- Total 92: hours

B- Professional Information

1 – Overall Aims of Course

1. Provide basic knowledge of medicolegal aspects of different types of general and special types of wounds
2. Provide basic knowledge of different medicolegal aspects of surgical practice.
3. Provide basic knowledge of medical ethics and malpractice.
4. Describe the theories and principles that govern ethical decision-making, especially of the major ethical dilemmas in surgery

2 – Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding:

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

- a1. understand the basics and legal aspects of writing primary medical reports

b) intellectual skills

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for general surgical problems

c) Professional and practical skills.

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

- c1. Writ and evaluate medical reports.
- c2. Evaluate and develop methods and tools existing in the area of general surgery.

d) General and transferable skills

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

- d1. present reports in seminars effectively
- d2. Use of different sources for information and knowledge.

3- Contents

Topic	No. of hours	Lecture	Practical
The pathology of wounds, chest and abdominal injuries, self inflicted injury	6	3	3
The systemic effect of trauma& Permanent infirmity	8	4	4
Head and spinal injuries	8	4	4
The medicolegal aspects of firearm injuries	8	4	4
Burn and scold	8	4	4
How to write a medicolegal report& How to write death certificate	8	4	4
The medicolegal aspect of deaths associated with surgical procedures and toxicological sampling	8	4	4
Obligation of physicians (towards patients, colleagues, community)	18	4	4
Consent, and professional secrecy	8	4	4
Types of malpractice, and items of medical responsibility	8	4	4
Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	8	4	4
ethical considerations of medical research involving human subjects	6	3	3
Total hours	92	46	46

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.....Final practical exam...	Week: 24
Assessment 2.... Final written exam....	Week: 24
Assessment 3.....Final oral exam.....	Week: 24

Weighting of Assessments

- Final Written Examination 50 %
- Oral and Practical Examination. 50 %

Total 100%

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

6- List of References

6.1- Course notes : Lectures notes prepared by the staff members of the department

6.2-Essential Books:

- Simpson’s Forensic Medicine by Knight, B
- Medical ethics. by Jones & Barlett

6.3-Recommended Books:

6.4 Periodicals and websites:

Forensic Science International, Egyptian Journals of Forensic Medicine and Clinical Toxicology, International Journals of Forensic Medicine and Clinical Toxicology www.sciencedirect.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 camers,scanner,copiers, colour and laser printers

Course Coordinator: Dr/ Soheir Ali Mohamed

Head of Department: Dr/ Maha Abdelhameed Helal

Date: 12/9/2009

Course Specifications of anatomy in MD degree General Surgery

University: sohag

Faculty: Medicine

1. Program on which the course is given: MD 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 MD degree General Surgery

- Lectures 46 hours: (2 hours/week*23 week)
- Practical 46 hours: (2 hours/week*23 week)
- Total 92 hours

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):

a. General and Transferable Skills:

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

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

b. Intellectual skills

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

- b1. Plan to improve performance in the field of general surgery

c. Professional and practical skills:

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

- c1. Train junior staff through continuous medical education programs.

d. General and transferrable skills

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

- d1. Use of different sources for information and knowledge.

3- Contents

Topic	No. of hours	Lecture	practical
Introduction	12	6	6
Anatomy and embryology of the face	12	6	6
Anatomy and embryology of the abdominal organs	16	8	8
Anatomy and embryology of the pelvic organs	16	8	8
Anatomy and embryology of the cranial nerves	12	6	6
Anatomy and embryology of the spinal nerves	12	6	6
Revision	12	6	6
Total	92	46	46

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 box, 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 camers,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 pathology in MD degree General Surgery

University: sohag

Faculty : Medicine

1. Program on which the course is given MD degree in general surgery
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: pathology
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 MD degree General Surgery

- Lectures: 46 hours: (2 hours/week*23 week)
- Practical: 46 hours: (2 hours/week*23 week)
- Total : 92 hours

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):

a) General and Transferable Skills:

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

- a1. Understand recent advances in the natural history of general surgical diseases.
- a2. Understand recent advances in the causation of general surgical diseases and problems. pathogenesis.

b) intellectual skills

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

- b1. Identify general surgical problems and find solutions.
- b2. Have the ability to innovate nontraditional solutions to general surgical problems.

c) professional and practical skills

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

- c1. Perform endoscopic and imaging evaluation of general surgical problems.

d) General and transferrable skills

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

- d1. Use of different sources for information and knowledge.

3- Contents

Topic	No. of hours	Lecture	Practical
<u>1- General Pathology:</u>	20	10	10
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>	18	9	9
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>	18	9	9
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>	18	9	9
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>	18	9	9
5.1. Lymphadenopathy.			
5.2. Lymphomas			
Total	92	46	46

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.....Final practical exam...	Week: 24
Assessment 2.... Final written exam....	Week: 24
Assessment 3.....Final oral exam.....	Week: 24

Weighting of Assessments

- Final Written Examination 50 %
- Oral and Practical Examination. 50 %

Total

 100%

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

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/ Afaf Taha

Date: 12/9/2009

Course Specifications of general surgery in MD degree General Surgery

University; sohag

Faculty: Medicine

1. Program on which the course is given: MD 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 MD degree General Surgery

Academic Level: MD degree of general surgery

Date of specification approval:

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

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

- a1. Mention the recent advances in the normal structure and function of the human body on the macro micro levels.
- a2. Understand recent advances in the techniques of different surgical operations
- a3. List the clinical picture and differential diagnosis of general surgical diseases and problems..
- a4. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis a.8 Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
- a5. Describe recent advances in the various therapeutic methods/alternatives used for general surgical diseases and problems.
- a6. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of general surgery.

b) Intellectual skills

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

- 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 for general surgical problems.
- b3. Assess risk in professional practices in the field of general surgery
- b4. Plan to improve performance in the field of general surgery
- b5. Have the ability to innovate nontraditional solutions to general surgical problems.

c) Professional and practical skills

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

- c1. Master the basic and modern professional clinical and surgical skills in the area of general surgery
- c2. Train junior staff through continuous medical education programs.

d) General and Transferable skills:

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

- d1. Assess himself and identify his personal learning needs.
- d2. Work coherently and successfully as a part of a team and team's leadership.
- d3. Manage scientific meetings according to the available time.

3- Contents

Topic	No. of Hours	Lecture	Practical/surgical
Module 1: Breast	40	20	20
Module 2: Coloproctology	45	23	22
Module 3: Endocrine	40	40	40
Module 4: General surgery	45	23	22
Module 5: Hepatopancreatobiliary	40	20	20
Module 6: Oesophagogastric	40	20	20
Module 7: General surgery of childhood	40	20	20
Module 8: Transplant	40	20	20
Module 9: Vascular	40	20	20
Module 10: Urinary tract disease	40	20	20
Module 11: Testes and scrotum	40	20	20
Module 12: Fractures	40	20	20
Module 13: Deformities of bone and joint	40	20	20
Module 14: Surgery of the spine and spinal cord	40	20	20
Total	570	286	284

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

6- 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