Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

Program Specification of Medical Doctorate Degree of General Surgery

Sohag University **Faculty of Medicine**

A. Basic Information

1. Program Title: Medical Doctorate degree in General Surgery
2. Program Type: Single
3. faculty: Faculty of Medicine
4. Department general surgery
5. Coordinator: prof. Dr / Nabil Abou el Dahab
6. External Evaluator: Prof. Dr. Moustafa Najjy Al sanadiky
7. Head of General Surgery Dept –Al Minia College of Medicine
8. Last date of program specifications approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018.

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. Attributes of the student:

1. Efficient in carrying out the basics and methodologies of scientific research.
2. The continuous working to add new knowledge in the field of general surgery.
3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.
4. Merging the general surgical knowledge with the other related knowledge with conclusion and developing the relationships in between them.
5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in the specialty of general surgery.
6. Determination of the professional problems in the specialty of general surgery and creating solutions for them.
7. Efficient in carrying out the professional skills in his specialty.
8. Using advanced suitable technologies which serves his practice.
9. Efficient communication and leadership of team work in his specialty.
10. Decision making through the available information.
11. Using the available resources efficiently and working to find new resources.
12. Awareness with his role in the development of the society and preserve environment.

Program Specification of Medical Doctorate Degree of General Surgery

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9. Efficient communication and leadership of team work in his specialty.
10. Decision making through the available information.
11. Using the available resources efficiently and working to find new resources.
12. Awareness with his role in the development of the society and preserve environment.

13. Behaving in a way which reflects his credibility, accountability, and responsibility.
14. Keeping continuous self development and transfer his experiences and knowledge to others.

3. 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:

a1. Mention the recent advances in the normal structure and function of the human body on the macro and micro levels.
a2. Enumerate 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.
a4. Enumerate recent advances in the natural history of general surgical diseases.
a5. Enumerate recent advances in the causation of general surgical diseases and problems.
a6. Enumerate recent advances in the techniques of different surgical operations
a7. List the clinical picture and differential diagnosis of general surgical diseases and problems.
a8. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
a9. Describe recent advances in the various therapeutic methods/alternatives used for general surgical diseases and problems.
a10. Describe recent advances in the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
a11. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of general surgery.
a12. Enumerate the principles and fundamentals of quality assurance of professional practice in the field of general surgery
a13. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.
a14. Enumerate the basics and legal aspects of writing primay medical reports
a15. Describe the basics of computer skills
a16. Describe the importance of biostatistics in the field of general surgery
a17. Describe the recent advances of principles, methodologies, tools and ethics of scientific research.

b) Intellectual Skills

By the end of the study of doctoral program in general surgery the Graduate 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. Conduct research studies, that adds to knowledge.
b4. Formulate scientific papers in the area of general surgery.
b5. Assess risk in professional practices in the field of general surgery.
b6. Plan to improve performance in the field of general surgery.
b7. Identify for general surgical problems. and find solutions..

b8. Have the ability to innovate nontraditional solutions to for general surgical problems.
b9. Mange Scientific discussion based on scientific evidences and proofs.
b10. 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:

c1. Collect the basic and modern professional skills in the area of general surgery
c2. Write and evaluate medical reports.
c3. Evaluate and develop methods and tools existing in the area of general surgery
c4. Use technological methods to serve the professional practice.
c5. Plan for the development of professional practice and development of the performance of others.
c6. 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**:**

d1. Present reports in seminars effectively.
d2. Use the information technology to serve the development of professional practice
d3. Teach others and evaluating their performance.
d4. Assess himself and identify his personal learning needs.
d5. Use different sources for information and knowledge.
d6. Work coherently and successfully as apart of a team and team's leadership.
d7. Manage scientific meetings administration according to the available time
d8. Use appropriate computer program packages.

4. Academic Standards

Sohag Faculty of medicine adopted the general National Academic Reference Standards (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 Reference Standards (ARS) were suggested for this program. These ARS were revised by external evaluator and approved by the Faculty Council decree No. 7528, in its cession No.191, dated: 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its cession No.60. Dated 26-12-2011

5. Curriculum Structure and Contents

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

First Part **Number of hours per week**

subject	lectures	practical	clinical
Biostatics &Computer	2	2	
Research methodology	2	2	
Primary medical reports	1	2	
Surgical anatomy	1	1.5	
Surgical pathology	1	3	

Second part **Number of hours per week**

subject	lectures	Practical/	clinical

		surgical	
General surgery and its branches	2 hrs/w	2 hrs/w	2

code	Item		No	%
b.i	Total credit hours	Compulsory	90	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses		7	7.8
b.iv	credit hours of courses of social sciences and humanities		0	0
b.v	credit hours of specialized courses:		60	66
b.vi	credit hours of other course			
b.vii	Practical/Field Training		8	8.9%
b.viii	Program Levels (in credit-hours system): Level 1: 1st part Level 2: 2nd Part Level 3: Thesis		 15 52 15	 16.7 57.8 16.7

6. <u>Program courses Number of compulsory courses 6</u>

5.1- Level of program

Semester…1…..

First part

Compulsory

Number of hours per week					
subject	**No. of hrs**	**lectures**	**Practical/ surgical**	**clinical**	**Program ILOs covered by no.**
Surgical anatomy	2.5	1	1.5		a1,a2,a3,b6,c5,d5
Surgical pathology	4	1	3		a1,a4,a5,b7,b8,c4, d5
Biostatics & Computer	2.5	1	1.5		a15,a16,b1,c1,c6, d5,d8
Research methodology	0.5	0.5			a13, a17,b3,b4, b8,b10,c4,d5,d6
Primary medical reports	0.5	0.5			a14,a16,b6,c5,d5

Second part

Course Title	**No. of hours**	**No. of hours /week**			**PROGRAM ILOs Covered (By No.)**
		Lect.	**Practical/ surgi cal**	**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

7. <u>Program Admission Requirements</u>

I- General Requirements.

- Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- Candidate should know how to speak & write English well
- Candidate should have computer skills**.**

- Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II- Specific Requirements

- Master degree in General Surgery with at least "Good Rank".

8. Regulations for Progression and Program Completion

Duration of program is 90 credit hours (≥7 semesters ≥3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (15 Credit hours ≥6 months ≥1 semester):

- Program-related basic science, Research Methodology, Ethics & medical reports, Biostatistics and computer.
- At least six months after registration should pass before the student can ask for examination in the 1st part.
- Two sets of exams: 1st in October — 2nd in April after fulfillment of the credit hours.
- At least 60% of the written exam and 60% of the total oral and practical/clinical is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only.
- GPA of ≥1.3 is needed to pass this level (semester).

Second Part: (50-60 Credit hours ≥24 months= 4 semesters):

- Program related specialized science of General Surgery courses. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (8 Credit hours; with obtaining ≥75% of its mark) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
  - Each Cr. Hr.= 60 working Hrs.
  - Logbook= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
  - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمى موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية داخلى خارجة	 ١٢/day 18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمى موسع	٦

Morbidity and Mortality conference	**ندوة تحليل المخاطر المرضية أوالوفاة**	٦
Self education program	**برنامج التعليم الذاتى**	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Third Part (Thesis) (15 Credit hours =24-48 months=4-8 semester):

- Documentation of the subject should not be delayed for > 1.5 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.
- Accepting the thesis is enough to pass this part.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Research assignment		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology: Written Exam (2 hours) + structured oral Exam+ OSPE
- Primary medical reports: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Surgical Anatomy: Written Exam (2 hours) + structured oral Exam.
- Surgical pathology: Written Exam (2 hours) + structured oral Exam.

Part II:

- General Surgery and its branches: Two Written Exam (3 hours for each) + one written exam containing commentary (1.5 hours) + OSCE + OSPE + Operative exam + Structured oral Exam.

10. 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		

Course Specifications of Biostatistics and computer in MD degree General Surgery

Sohag University **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 program: General Surgery department
4. Department offering the course: Community Medicine and public Health.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of applied biostatistics (with computer use) for MD degree in general surgery

Code:COM0529-300

Title	Lecture	practical	Total	Credit hours
Applied biostatistics	30	30	60	3

B. Professional Information

1. Overall Aims of Course

1. The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of biostatistics
2. To use precisely the computer programs

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

a1. Enumerate different programs of analysis of data and statistical packages

a2. Define the recent advances of sources of data and methods of collection.

a3. Summarize data, construct tables and graphs

a4. Calculate measures of central tendency and measures of dispersion

a5. Describe the normal curves and its uses

a6. Illustrate selected tests of significance and the inferences obtained from such tests

a7. Illustrate selected tests of significance for parametric and non parametric inferences

a8. Identify factor analysis and discrimination analysis

b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

b1. understand how to collect and verify data from different sources

b2. Interpret data to diagnose prevalent problems in the field of General Surgery

c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in the field of General Surgery

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

d1. Use appropriate computer program packages.

d2. Use of different sources for information and knowledge about biostatistics.

3. Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Recent advances in collection, analysis and interpretation of data	4	2	2
-Details of Tests of significance: Proportion test	4	2	2
Chi-square test	4	2	2
Student T test	6	3	3
Paired T test	6	3	3
-Correlation	6	3	3
-Regression	6	3	3
-ANOVA test	6	3	3
-Discrimination analysis	6	3	3
Factor analysis	6	3	3
- parametric and non parametric tests	6	3	3
Total	60	30	30
Credit Hours	3	2	1

4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

4.3- Computer search assignments

4.4- Computer application

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Intellectual skills, Knowledge, General transferable skills
5.4Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1	Final written exam	Week: 24
Assessment 2	Final Structured Oral Exam	Week: 24
Assessment 3	Attendance and absenteeism throughout the course	
Assessment 4	Computer search assignment performance throughout the course	

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	**100**	**%**

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

6. List of References

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, …etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning

a) Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching musieum, illustrative images), comfortable disks, 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, color and laser printers

Course Coordinator: Dr/**Foad Metry Atya**

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of Research Methods in MD degree General Surgery

Sohag University **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 and public Health Dep.
4. Department offering the program: General Surgery department.
5. Academic year: Doctoral Degree 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specifications of research methods in MD degree General Surgery
Code:COM0529-300

Title	Lecture	practical	Total	Credit Hours
Research methods	30	30	60	3

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

2. Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
a3. Describe the study design, uses, and limitations.
a4. List the recent advances of principles, methodologies, tools and ethics of scientific research.
a5. Explain the strategies and design of researches.
a6. Describe bias and confounding.
a7. Describe sampling techniques and list advantages of sampling
a8. Identify principles of evidence based medicine.

b) Intellectual Skills

By the end of the course, the student is expected to be able to:

b1. Conduct research studies that add to knowledge.
b2. Formulate scientific papers in the area of General Surgery
b3. Innovate and create researches to find solutions to prevalent problems in the area of General Surgery
b4. Criticize researches related to General Surgery

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

c1. Master the basic and modern professional skills in conducting researches in the area of General Surgery

c2. Design new methods, tools and ways of conducting researches.

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

d1. Use of different sources for information and knowledge to serve research.

d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Details of epidemiological studies (case control, cohort and cross sectional)	8	4	4
Clinical trials, Quasi experimental study	8	4	4
Bias and errors	8	4	4
Setting a hypothesis	6	3	3
Recent advances in screening	8	4	4
- Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum	8	4	4
Setting an objective - Critical thinking	6	3	3
Formulation of papers	8	4	4
Total	**60**	**30**	**30**
Credit hours	**3**	**2**	**1**

4. Teaching and Learning Methods

4.1- Lectures.

4.2- Computer search assignments

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Intellectual skills, Knowledge, General transferable skills
5.4Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1Final written exam Week: 24

Assessment 2Final Structured Oral Exam Week: 24
Assessment 3 Attendance and absenteeism throughout the course
Assessment 4 Computer search assignment performance throughout the course

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Any formative only assessments Attendance and absenteeism throughout the course
Computer search assignment performance throughout the course

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

Course Coordinator: Dr/**Foad Metry Atya**

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of Primary Medical Reports in MD degree General Surgery

Sohag University **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 program: General Surgery department
4. Department offering the course: Forensic Medicine and Clinical Toxicology department.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specifications of primary medical reports in MD degree General Surgery

Code:FOR0529-300

Title	Lecture	practical	Total	Credit Hours
primary medical reports	15	30	45	2

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. Mention 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	2	4
The systemic effect of trauma& Permanent infirmity	3	1	2
Head and spinal injuries	6	2	4
The medicolegal aspects of firearm injuries	3	1	2
Burn and scold	3	1	2
How to write a medicolegal report& How to write death certificate	3	1	2
The medicolegal aspect of deaths associated with surgical procedures and toxicological sampling	6	2	4
Obligation of physicians (towards patients, colleagues, community)	3	1	2
Consent, and professional secrecy	3	1	2
Types of malpractice, and items of medical responsibility	3	1	2
Medico legal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	3	1	2
ethical considerations of medical research involving human subjects	3	1	2
Total hours	**45**	**15**	**30**
Credit Hours	**2**	**1**	**1**

4. Teaching and Learning Methods

4.1 -lectures.
4.3- Assignments.

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

5.4 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

1- Assessment 1: written examination Week 24
2- Assessment 2: Structured Oral Exam Week 24
3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: simple research assignment, log book, attendance and absenteeism

6. List of References

Essential books

Simpson's Forensic Medicine, 13th Edition, by Jason Payne-James, RichardJones,Steven B Karch,John Manlove. published by Hodder& Stoughton Ltd (2011).

Goldfrank'sToxicologic Emergencies, (9th ed.) by Lewis S. Nelson, Robert S. Hoffman, Mary Ann Howland, Neal A Lewin, Lewis R. Goldfrank, Neal E. Flomenbaum. Published by McGraw-Hill (2011)

Emergency Toxicology,Peter Viccellio,(2nded.) Published by Lippincott Williams & Wilkins (1998)

Recommended books

Medical ethics.(1997)Robert M Veatch. 2nd edition.Jones & Bartlett publishers

Periodicals and websites……etc.

Egyptian journals of forensic medicine and clinical toxicology
International journals of forensic medicine and clinical toxicology
www.sciencedirect.com
https://emedicine.medscape.com
https://www.ncbi.nlm.nih.gov/pmc/

7. Facilities Required for Teaching and Learning

a) Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching musieum, illustrative images), comfortable disks, 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/ Soeir Ali Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of Human Anatomy & Embryology in MD degree General Surgery

Sohag University **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: Human Anatomy & Embryology
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specifications of anatomy in MD degree General Surgery

Code:ANA0529-300

Title	Lecture	Practical	Total	Credit Hours
anatomy	45	---	45	3

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the 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. Enumerate 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	6	6	
Anatomy and embryology of the face	6	6	

Anatomy and embryology of the abdominal organs	6	6	
Anatomy and embryology of the pelvic organs	6	6	
Anatomy and embryology of the cranial nerves	6	6	
Anatomy and embryology of the spinal nerves	6	6	
Revision	9	9	
Total	**45**	**45**	
Credit Hours	**3**	**3**	

4. Teaching and Learning Methods

4.1- lectures.

4.2- practical lessons.

4.3- Assignments.

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

1- Assessment 1: written examination Week 24

2- Assessment 2: Structured Oral Exam Week 24

3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	50%
Structured Oral Exam	50%
Total	**100%**

Formative only assessments: simple research assignment, attendance and absenteeism.

6. List of References

6.1- Essential Books (Text Books)

- Fitzgerald M.J.T. (2016): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York. Sydney. Toronto.

6.2- Recommended Books

- Stevens A. and Lowe J. S. (2015): Human histology; 5th edition; edited by Elsevier Mosby
- Colored Atlas of anatomy.
- Martini F. H., Timmons M. J. and McKinley M.P. (2015): Human anatomy; 10 edition.

- Tortora G. J. and Nielson M.T. (2016): Principles of human anatomy 14 edition; Edited by John Wiley and Sons ; United states.
- McMinn R.M.H. (2017): Lasts anatomy regional and applied chapter 7; 14 edition, edited by Longman group UK.

7. Facilities Required for Teaching and Learning

a) Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching musieum, illustrative images), comfortable disks, 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 . Mohamed Al-Badry.

Head of Department: Dr. Mohamed Al-.Badry

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of Pathology in MD degree General Surgery

Sohag University **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 program: General Surgery department
4. Department offering the course: pathology
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specifications of pathology in MD degree General Surgery
Code:PAT0529-300

Title	Lecture	Practical	Total	Credit Hours
pathology	45	--	45	3

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. Enumerate recent advances in the natural history of general surgical diseases.
a2. Enumerate 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
1- General Pathology:			
1.1. Inflammation & repair.	1.5	1.5	
1.2. Cell response to injury and aging.	1.5	1.5	
1.3. Circulatory disturbances.	1.5	1.5	
1.4. Immunity and hypersensitivity.	1.5	1.5	
1.5. Infectious diseases.	1.5	1.5	

1.6. Disturbances of cellular growth.	1.5	1.5	
1.7. General pathology of tumors.	1.5	1.5	
1.8. Diagnostic cytology	1.5	1.5	
2- Gastrointestinal tract:			
2.1. Diseases of the lips & tongue.	1.5	1.5	
2.2. Diseases of the oral cavity.	1.5	1.5	
2.3. Diseases of the salivary glands.	1.5	1.5	
2.4. Diseases of esophagus.	1.5	1.5	
2.5. Diseases of the stomach.	1.5	1.5	
2.6. Diseases of the small intestine.	1.5	1.5	
2.7. Diseases of the large intestine.	1.5	1.5	
3- Liver, biliary passages & pancreas.			
3.1. Tumors of the liver.	1.5	1.5	
3.2. Portal hypertension & liver cell failure.	1.5	1.5	
3.3. Cholecystitis & gall stones.	1.5	1.5	
3.4. Pancreatitis & pancreatic tumors.	1.5	1.5	
3.5. Peritonitis & peritoneal tumors.	1.5	1.5	
4- Endocrine system:			
4.1. Diseases of thyroid gland	1.5	1.5	
4.2. Diseases of parathyroid gland	1.5	1.5	
4.3. Diseases of adrenal gland	1.5	1.5	
4.4. Diseases of adrenal medulla	1.5	1.5	
5- Diseases hematopoietic & lymphoid systems:			
5.1. Lymphadenopathy.	2	2	
5.2. Lymphomas	2	2	
6- Diseases of the female breast:	1.5	1.5	
6.1. Inflammatory lesions of the breast.	1.5	1.5	
6.2. Benign breast diseases.	2	2	
6.3. Tumors of the breast.	2	2	
Total	**45**	**45**	
Credit Hours	**3**	**3**	

4. Teaching and Learning Methods

4.1-Lectures
4.2-practical lessons
4.3- Assignments.

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

1- Assessment 1: Written examination Week 24
2- Assessment 2: Structured Oral Exam Week 24
3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	50%
Structured Oral Exam	50%
Total	**100%**

Formative only assessments: simple research assignment, , attendance and absenteeism.

6. List of References

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th egition,2014
- Robbins pathologic basis of diseases, 10th edition, 2017

6.2- Recommended Books:

- Rosi &Ackerman text book of pathology, 11th edition, 2017
- Sternberg text book of pathology, 6th edition,2015

6.3- Periodicals, websites:

American journal of pathology
Pathology journal
Human pathology jounal
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 musieum, illustrative images), comfortable disks, 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 Mohamed Salah El Deen

Head of Department: Dr/ Afaf Taha El Nashar

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of General surgery in MD degree General Surgery

Sohag University **Faculty of 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. "317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications of general surgery in MD degree General Surgery
Code:SUR0529-300

Lecture	Practical	Clinical	Total	Credit Hours
420	**360**	**390**	**1170**	**53**

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. Enumerate 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.

a7. Mention the principles and fundamentals of quality assurance 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.
b6. Mange Scientific discussion based on scientific evidences and proofs.

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.
c3. 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. 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.
d4. Use the information technology to serve the development of professional practice
d5. Teach others and evaluating their performance.

3. Contents

Topics	Total hours	Lectures	surgical	clinical
General	20	20		
Wounds and wound healing	2	2		
Shock	2	2		
Blood transfusion	2	2		
Hemorrhage and hemostatic disorders	2	2		
Endocrine and metabolic response to injury	2	2		
Accident and emergency surgery, warfare injuries	2	2		
Acute resuscitation and support	2	2		
Pre and post operative care.	1	1		
Fluid and electrolyte - Balance	1	1		
- Nutrition and hyperalimination	1	1		

- Pre-+ post-operative care.	1	1		
- Postoperative complications	1	1		
- Intensive care therapy	1	1		
Infection	5	5		
Nonspecific infection	1	1		
Blood infections	1	1		
Hand infection	1	1		
Specific infections: gas gangrene, tetanus, TB, viruses and AIDS.	2	2		
Immunology	3	3		
Transplantation	3	3		
Oncology	8	8		
Cysts	2	2		
Tumours	2	2		
Ulcers	2	2		
Cancer chemotherapy Radiotherapy	2	2		
Lymphatic system	15	10		5
Lymphangitis and lymphangioma	2	2		
Lymph edema and elephantiasis	3	2		1
Lymphadenopathy	6	2		4
Lymphomas	8	4		4
Head and neck	75	15	30	30
- Face and cheeks	12	4	4	4
- Lips, tongue + floor of the mouth	11	3	4	4
- Disease of the jaw	18	5	6	7
- Salivary glands	16	3	6	7
- Cervical rib and thoracic outlet syndrome	16	3	6	7
- Pharyngeal pouch	12	3	4	5
Endocrine	100	20	40	40
Thyroid gland				
Anatomy and physiology	3	3		
Congenital anomalies	9	2		7
Inflammations	7	3		7
Simple goiter	20	3	10	7
Toxic goiter	20	3	10	7
Malignant goiter	20	3	10	7
Parathyroid gland	19	2	10	7
Breast	90	20	30	40
Surgical anatomy + physiology				
Congenital anomalies and trauma				
Inflammation				

Benign breast lesions				
Breast cancer				
Abdominal wall and hernia	70		30	40
Incisions and injuries				
Diseases of the abdominal wall				
Abdominal hernia				
Inguinal hernia				
Femoral hernia				
Umbilical hernia				
Ventral hernias				
Incisional hernia				
Internal herniation				
Peritoneal cavity	10	10		
Peritoneum				
Omentum and mesentery				
Retroperitoneal				
Oesophagogastric Esophagus	60	20	20	20
- Congenital anomalies				
- Injuries and inflammation				
- Hiatus hernia and diaphragm				
- Benign strictures				
- Benign tumors				
- Malignant tumors				
Stomach and duodenum	75	20	30	25
Congenital anomalies				
Diverticula and foreign bodies				
Acute gastric dilatation				
Gastric volvulus				
Peptic ulcer disease				
Neoplasms of the stomach and duodenum				
Coloproctology	80	30	20	30
Small and large intestines				
Congenital anomalies and megacolon				
Inflammatory bowel diseases				
Diverticular disease				
Malabsorption				
Intestinal ischemia				
Tumors of the small and large intestines				
Intestinal obstruction				
Intestinal stomas and fecal fistula				
Vermiform appendix				

Acute appendicitis				
Acute abdomen				
Complicated appendicitis				
Chronic appendicitis				
Rectum and anal canal				
Surgical anatomy and physiology				
Congenital anomalies				
Hemorrhoids and anal fissure				
Anorectal suppurations and anal fistula				
Rectal prolapse and fecal incontinence				
Benign and malignant tumours				
liver	20	10		10
Congenital anomalies and injuries of the liver				
Liver abscess				
Cysts and tumours of the liver				
Liver cirrhosis and portal hypertension				
Biliary tract	50	15	20	15
Congenital anomalies				
Injuries of the GB and hematobilia				
Gall stones				
Acute cholecystitis				
Chronic cholecystitis				
Surgical jaundice				
Pancreas	25	10	10	5
Surgical anatomy and physiology				
Pancreatitis				
Pancreatic cysts				
Pancreatic tumours				
Spleen	25	10	10	5
Surgical anatomy and physiology				
Infection and cysts of the spleen				
Rupture spleen				
Tumours of the spleen				
Hypersplenism				
Splenectomy				
Suprarenal glands				
Pheochromocytoma				
Hypoadrenalism				
Suprarenal tumours				

Vascular surgery	25	15		10
Ischemia and gangrene				
Diseases of the arteries				
Diseases of the veins				
Vasomotor disorders				
Surgical Urology	40	30		10
Anatomy &Embryology				
Testicular maldesent				
-urologic trauma				
-hydronephrosis				
-Urologic emergencies				
Urinary stones				
-Impotence				
-Urinary TB				
-Urinary Bilharziasis				
-Renal tumors				
-Bladder tumors				
Urethral stricture				
-Male infertility				
-Urethral tumors				
Urinary tract infection				
-Testicular tumors				
-Suprarenal tumor				
-Fungal infection				
Renal failure				
-B.P.H				
-Prostate cancer				
Orthopedics + Traumatology	55	30	15	10
Bone and joint infections				
Fractures and soft tissue injuries around knee				
Ilizarov fixation and bone transport				
Role of arthroscopy in orthopedics				
General principles of fractures and open fractures				
Low back pain and lumbar disc prolapse				
Pott's disease				
Bone tumours				
Fracture pelvis				
Fractures around hip (neck femur, trochanteric fractures and CDH).				
Fracture shaft femur				
Fracture tibia and fibula				

Skeletal deformities (CTEV and gneu varum)				
Common hip conditions (Perth's' disease, slipped capital femoral epiphysis, coxa vara)				
Supracondylar fracture humerus				
Neurological conditions (poliomyelitis, cerebral palsy)				
Fracture spine				
Cervical disc prolapse				
Dislocation hip and fracture dislocation ankle				
Dislocation shoulder and fracture proximal humerus				
Nerve injuries				
Birth trauma				
Injuries around wrist and hand fractures				
Soft tissue problems (carpal tunnel syndrome, ganglion, tenosynovitis)				
Arthropathies (degenerative, rheumatoid, gouty)				
Fracture shaft humerus				
Fractures around elbow				
Fractures of radius and ulna				
current surgery	3	3		
Laparoscopic surgery	3	3		
Day care surgery	4	4		
Surgical audit	4	4		
Skin and subcutaneous tissue	17	7		10
Burns				
Skin lesions and tumours				
Skin substitute, grafts and flaps				
Total	**1170**	**420**	**360**	**390**
Credit Hours	**53**	**28**	**12**	**13**

4. <u>Teaching and Learning Methods</u>

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

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	 - Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5-OSCE	-Practical skills, intellectual skills General transferable skills

Assessments schedule:

Assessment 1	Log book (formative exam)	Week: 80
Assessment 2	Final written exam	Week: 96
Assessment 3	Final OSCE	Week: 96
Assessment 4	Final Structured Oral Exam	Week:96

Weighting of Assessments

- Final Written Examination. Separate exam.

Passing in the written exam is a condition to attend the following exams:

- Structured Oral Exam. 50 %
- OSCE 50 %

Total 100%

Formative only assessment: simple research assignment, log book, 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.
- Britsh 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 disks, 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: Prof. Dr/ Alaa El Souty

Head of Department: Prof. Dr/ Nabil Abou el Dahab

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018