



إعتماد توصيف مقررات برنامج الدبلوم فى الجراحة العامة

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدبلوم فى الجراحة العامة والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام

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عميد الكلية



وكيل الكلية للدراسات العليا

Peer Revision

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

Program Specification for Diploma Degree in General Surgery

Sohag University

Faculty of Medicine

1. Program Title: Diploma Degree in General Surgery
2. Program Type: Single Program; two parts: 1st & 2nd.
3. faculty: Faculty of Medicine
4. Department Responsible: Department of General Surgery, Faculty of Medicine, Sohag University
5. Coordinator :Program Coordinator: Prof. Dr: Nabil Abou ElDahab
6. Assistant coordinator: Omer Abd Elraheem
7. External Evaluator: Prof. Dr. Mustafa Najjy Al sanadiky, Head of General Surgery Dept –Al Minia College of Medicine.
8. Last date of program specifications approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013.

B. Professional Information:

1. Program Aims:

The aim of this program is to provide diploma graduate with the surgical knowledge and skills essential for the practice of general surgery including:

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

2. Attributes of the student:

1. Application of the specific knowledge gained during practice of general surgery.
2. Identification of professional problems in this specialty and suggest solutions for them.
3. Mastering professional skills and usage of suitable technologies in practice of general surgery.
4. Ability to efficiently communicate and lead team works throughout organized professional work.

5. Decision making at the lights of the available information.
6. Perfect utilization of available resources.
7. Awareness of his role in community development and maintain good environment.
8. Reflects the commitment to act with integrity, credibility and professional norms and accountability.
9. Recognize the need to develop himself and to engage in continuous learning

3. Intended learning outcomes

a) Knowledge and understanding

- By the end of the study of diploma program in general surgery the Graduate should be able :
- a1. Mention the in the normal structure and function of the human body on the macro and micro levels.
 - a2. List Understand the normal growth and development of the human body.
 - a3. List the abnormal structure, function, growth and development of human body.
 - a4. Mention the natural history of general surgical diseases.
 - a5. Mention and Understand the causation of general surgical diseases and problems.
 - a6. Mention and Understand the techniques of different surgical operations
 - a7. List the clinical picture and of general surgical diseases and problems.
 - a8. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
 - a9. Describe the various therapeutic methods/alternatives used for general surgical diseases and problems.
 - a10. Mention scientific development in the field of general surgery
 - a11. Describe the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
 - a12. Mention the principles and of ethics and legal aspects of professional practice in the field of general surgery.
 - a13. Describe the principles of quality assurance of professional practice in the field of general surgery
 - a14. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual skills

By the end of the study of diploma program in general surgery, the graduates should be able to:

- b1. Identify and analyze the information in the field of general surgery and ranking them according to their priorities.
- b2. Solve Problems in the area of general surgery
- b3. Analyze researches and issues related to general surgery
- b4. Assess risk factors in professional practices in the field of general surgery
- b5. Make professional decisions in light of the available data

c) professional and practical skills

By the end of the study of diploma program in general surgery, the graduates should be capable of:

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

d) General and Transferable skills

By the end of the study of diploma program in general surgery, the graduates should be able to:

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

4. Academic Standards

Sohag faculty of medicine adopted the general academic reference standard (NARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for postgraduate programs, this was approved by the faculty council decree NO.6854 in its session NO. 177 Dated 18/5/2009 based on these NARS, academic (ARS) were suggested for this program, these ARS were approved by the faculty council decree NO.7528 in its session NO. 177 dated:18/5/2009. based on these NARS; Academic Reference Standards ARS were suggested for this program. These ARS were approved by the faculty council decree NO. in its session NO. 191, dated: 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its session No.60. Dated 26-12-2011

5. Curriculum Structure and Contents

5. a. program duration: 3 semesters (1.5 years)

5. b. program structure:

5. b. i. No. of hours per week:

First Part

Number of hours per week

Subject	Lectures	Practical	Clinical
Physiology	1	1	
Surgical anatomy	1	1	
Surgical pathology	1	1	
Histology	1	1	
Microbiology	1	1	
Clinical Pharmacology	1	1	

Second part

Number of hours per week

Subject	Lectures	Practical	Clinical
General surgery and its branches	12 hrs/w (360)	7 hrs/w (210)	7 hrs/w (210)

code	Item	No	%	
b.i	Total credit hours	Compulsory	43	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	7	12.3	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	28	65.1	
b.vi	credit hours of other course	8	18.6	
b.viii	Program Levels (in credit-hours system):			
		Level 1: 1 st part	15	34.9
		Level 2: 2 nd Part	28	65.1

6. program courses

Number of compulsory programs 10

6.1- Level of PROGRAM

Semester (1)

First par

Number of hours per week					
subject	No. of hrs	lectures	Practical/ surgical	clinical	Program ILOs covered by no.
Surgical anatomy	2	1	1		a1,a2,a3,b3,c1,d3,d4,d6,d8
Surgical pathology	2	1	1		a3,a4,a5,a7,b2,b3,b4,c1,d3,d4,d6,d8
Histology	2	1	1		a1,b3,c1,d3,d8

Physiology	2	1	1		a3,b2,b3,b4,c1,d3,d8
clinical Clinical Pharmacology	2	1	1		a9,b3,b4,c1,d3,d8,
microbiology	2	1	1		a4,a5,b2,b3,b4,c1,d3,d4,d8

Second part.....semesters 2,3

Course Title	No. of Units	No. of hours /week			program ILOs Covered (By No.)
		Lect.	Practical/ surgical	clinical.	
General surgery and its branches	26	12	7	7	a1,a4,a5,a6,a7,a8,a9,a10 a11,a12,a13,a14,b1,b2,b3, b4,b5,c1,c2,c3,d1,d2,d3, d4.d5.d6.d7.d8

7. Program Admission Requirements

I. General Requirement

A-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.

B-Candidate should complete the house officer training year

C-follow postgraduate regulatory rules of Sohag faculty of medicine

8. Regulations for Progression and program Completion

Duration of program is 3 semesters (1.5 years), starting from registration till the 2nd part; divided to:

First Part: (≥6 months=1 semester):

- Program-related basic science and clinical Courses.
- 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 April — 2nd in October after fulfillment of the credit hours.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed. (with at least 40% of the written exam.) .
- Those who fail in one curriculum need to re-exam it only.

Second Part: (≥12 months=2 semesters):

- Program related specialized science of general surgery courses and ILOs
- after passing at least:
 - 12 months training in the department of general surgery
 - The student should pass the 1st part before can ask for examination in the 2nd part.
- 2 sets of exams: 1st in April---2nd in October.
- For the student to pass to the second exam , a score of at least 60% of the oral, clinical and practical exam.

9. **Methods of student assessments:**

Method of assessment	The assessed ILOs
1-Research assignment	- General transferable skills, intellectual skills
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
3-OSCE	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Surgical Anatomy: Written Exam (2 hours) + structured oral Exam.
- Surgical Pathology: Written Exam (2 hours) + structured oral Exam.
- Medical Physiology: Written Exam (2 hours) + structured oral Exam.
- Histology and Cell Biology: Written Exam (2 hours) + structured oral Exam.
- Medical Microbiology and Immunology: Written Exam (2 hours) + structured oral Exam.
- Clinical Clinical Pharmacology: Written Exam (2 hours) + structured oral Exam.
- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam

Part II:

- General surgery and its branches: Two Written Exam (3 hours for each) + OSCE + Structured oral Exam.

9- Evaluation of program Intended

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

Course Specifications of Human Anatomy & Embryology in Diploma Degree General Surgery

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma 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 department
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Human Anatomy & Embryology in Diploma degree General Surgery

Code: ANA0529-100

Subject	Lectures	Practical	Credit
Anatomy	15	30	2

B. Professional Information

1. Overall Aims of Course

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

2. Intended Learning Outcomes of Course (ILOs):

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

a) General and Transferable Skills:

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

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

b) Intellectual skills

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

- b1. Analyze researches and issues related to general surgery

c) Professional and practical skills:

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

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

d) General and Transferable skills:

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

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

3. Contents

Topic	No. of hours	Lecture	practical
Introduction	6	2	4
Anatomy and embryology of the face	6	2	4
Anatomy and embryology of the abdominal organs	6	2	4
Anatomy and embryology of the pelvic organs	6	2	4
Anatomy and embryology of the cranial nerves	6	2	4
Anatomy and embryology of the spinal nerves	6	2	4
Revision	9	3	6
Total	45	15	30
Credit Hours	2	1	1

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

- Assessment 1. Written examination 24week
- Assessment 2. Structured Oral Exam 24week
- Assessment 3. Attendance and absenteeism

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%

Total	100%
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Formative only assessments: attendance and absenteeism

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 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. Sala Ewaas

Head of Department: Dr. Mohamed A. Eldsoky.

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

Course Specifications of Pathology in Diploma Degree General Surgery

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: pathology department
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Course Specifications of Pathology in Diploma degree General Surgery

Code: PAT0529-100

Subject	Lectures	Practical	Credit
Pathology	15	30	2

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) Knowledge and Understanding:

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

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

b) Intellectual Skills:

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

- b1. Solve Problems in the area of general surgery problems.
- b2. Analyze researches and issues related to general surgery
- b3. Assess risk in professional practices in the field of general surgery.

c) Professional and Practical Skills:

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

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

d) General and Transferable Skills:

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

- d1. Assess himself and identify of personal learning needs.
- d2. Use different sources to obtain information and knowledge.

d3. Work in a team, and team's leadership in various professional contexts.

d4. learn himself continuously

3. Contents

Topic	No. of hrs	Lecture	Practical
1- General Pathology:	9	3	6
1.1. Inflammation & repair.	0.75	0.25	0.5
1.2. Cell response to injury and aging.	0.75	0.25	0.5
1.3. Circulatory disturbances.	0.75	0.25	0.5
1.4. Immunity and hypersensitivity.	0.75	0.25	0.5
1.5. Infectious diseases.	0.75	0.25	0.5
1.6. Disturbances of cellular growth.	0.75	0.25	0.5
1.7. General pathology of tumors.	3	1	2
1.8. Diagnostic cytology	1.5	0.5	1
2- Gastrointestinal tract:	9.5	3.5	7
2.1. Diseases of the lips & tongue.	1.5	0.5	1
2.2. Diseases of the oral cavity.	1.5	0.5	1
2.3. Diseases of the salivary glands.	1.5	0.5	1
2.4. Diseases of esophagus.	1.5	0.5	1
2.5. Diseases of the stomach.	1.5	0.5	1
2.6. Diseases of the small intestine.	1.5	0.5	1
2.7. Diseases of the large intestine & appendix.	1.5	0.5	1
3- Liver, biliary passages & pancreas.	7.5	2.5	5
3.1. Tumors of the liver.	1.5	0.5	1
3.2. Portal hypertension & liver cell failure.	1.5	0.5	1
3.3. Cholecystitis & gall stones.	1.5	0.5	1
3.4. Pancreatitis & pancreatic tumors.	1.5	0.5	1
3.5. Peritonitis & peritoneal tumors.	1.5	0.5	1
4- Endocrine system:	6	2	4
4.1. Diseases of thyroid gland	1.5	0.5	1
4.2. Diseases of parathyroid gland	1.5	0.5	1
4.3. Diseases of adrenal gland	1.5	0.5	1
4.4. Diseases of adrenal medulla	1.5	0.5	1
5- Diseases hematopoietic & lymphoid systems:	6	2	4
5.1. Lymphadenopathy.	3	1	2
5.2. Lymphomas	3	1	2
6- Diseases of the female breast:	6	2	4
6.1. Inflammatory lesions of the breast.	1.5	0.5	1
6.2. Benign breast diseases.	1.5	0.5	1
6.3. Tumors of the breast.	3	1	2
Total	45	15	30
Credit Hours	2	1	1

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination	24week
Assessment 2. Structured Oral Exam	24week
Assessment 3. Attendance and absenteeism	

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%
Total	100%

Formative only assessments: 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 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. Fatma El Zahraa

Head of Department: Dr. Eman Muhammad Salah El-Deen

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

Course Specifications of Medical Physiology in Diploma Degree General Surgery

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: Medical Physiology departments.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic information

Title : Medical Physiology

Code: PHY0529-100

Lectures	Practical	Credit
15	30	2

B. Professional information

1. Overall aim of the course :

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

2. Intended learning outcomes (ILOs)

a) Knowledge and understanding:

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

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

b) Intellectual skills:

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

- b1. Solve Problems in the area of general surgery
- b2. Analyze researches and issues related to general surgery
- b3. Assess risk in professional practices in the field of general surgery.

c) Professional and practical skills

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

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

d) General & transferable skills:

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

3. Contents of the course

Topic	No. of	Lecture	practical
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	hours		
Shock & hemorrhage	6	2	4
Regulation of arterial blood pressure	3	1	2
Regulation of respiration	3	1	2
Regulation of blood PH	6	2	4
Blood volume	3	1	2
Blood coagulation	3	1	2
Thyroid , parathyroid & adrenal	9	3	6
Secretory & motility function of G.I.T	3	1	2
Mechanism of urine formation	3	1	2
Calcium ion homeostasis	3	1	2
potassium ion regulation in intracellular fluid	3	1	2
Total	45	15	30
Credit Hours	2	1	1

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination 24week

Assessment 2. Structured Oral Exam 24week

Assessment 3. Attendance and absenteeism

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of references

Course notes

Department notes, lectures & handouts.

Essential books (textbooks)

Gyton textbook of Medical physiology

7. Facilities Required for Teaching and Learning

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

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

Course Coordinator: Dr. Hoda Moustafa

Head of Department: Dr: Ahmed Moustafa

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

Course Specifications of Histology and Cell Biology in Diploma Degree General Surgery

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course Histology and Cell Biology departments.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic information

Title and code: Histology and Cell Biology

Code: HIS0529-100

Lectures	Practical	Credit
15	30	2

B. Professional information

1. Overall aim of the course :

Our aim is to graduate competent surgeon mastering the:

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

2. Intended learning outcomes (ILOs)

a) **Knowledge and Understanding:**

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

- a1. Mention sufficient knowledge of the histological structure of the different basic body tissues.
- a2. Describe sufficient knowledge of the histological structure of the different parts of the intugmentary, digestive and endocrine systems.
- a3. Mention the function of the different parts of the intugmentary, digestive and endocrine systems in relation to their structure .

b) **Intellectual Skills:**

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

- b1. Use self learning skills in problem solving.
- b2. Interpret some of the medical importance of the histological structure in relation to surgical problems.

c) **Practical and professional skills:**

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

- c1. Identify the histological structure of the body tissues and the organs of intugmentary, digestive and endocrine systems

d) **General and Transferable Skills:**

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

- d1. Use the computer to enter histological web sites.
- d2. Collect scientific data from the computer.
- d3. Work in groups, as a leader or as a college.

3. Contents of the course

Topics	Lecture hours	Practical
<p>Cytology: -general structure of the nucleus. -general structure of the cytoplasm. General structure of the body basic tissues: - epithelial tissue-connective tissue.-muscular tissue -nervous tissue. -blood and haemopoietic tissue.</p>	2	4
<p>Cardiovascular system : General structure of the heart wall. General structure of the wall of blood vessels. Arteries (large+medium sized) Veins (large+medium sized) Structure of special types of arteries and veins. Arteriovenous connection;capillaries,sinusoids and arteriovenous anastomosis.</p>	1	2
<p>Lymphatic and immune system: Structure of lymph vessels. Distribution and structure of lymphoid tissue. structure and function of lymphatic nodule lymphocytes and immune cells reaction of B&T lymphocytes to antigens. Common mucosal immune system. Structure and function of lymphatic organs: Lymph nodes - Spleen – thymus -Tonsils Mononuclear phagocytic system. -Antigen presenting cells. Stains to identify member of immune cells.</p>	1	2
<p>Endocrine system : Main components of endocrine system. Pituitary gland: Development and general organization. Anterior lobe and its relation to the hypothalamus. Posterior lobe and its relation to the hypothalamus.</p>	1	2

Digestive system Oral cavity: Lip Tongue. Cheek. Teeth and gingiva. Salivary glands: Classification;major and minor. Parotid gland Submandibular gland. Sublingual gland. Differences between different glands. Palate and pharynx: Hard and soft palate. Pharynx;structure and funvction. Pharangeal and palatine tonsil. Digestive tract: General structure og GIT. Oesophagus. Stomach;fundus,cardiac and pyloerus. Small intestine;duodenum,jejunum and ileum. Large intestine and appendix. Cell renewal in GIT. Junctions;gastro-oesophageal,pylorodudenal and rectoanal. Pancreas: Exocrine portion and pancreatic secretion. Endocrine portion. Liver: Internal organization ang hepatic lobulation. Hepatocytes;LM&EM. Bile canaliculi. Blood supply. Space of Disse. Structure and function of gall bladder.	5	10
Total	15	30
Credit Hours	1	2

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination	24week
Assessment 2. Structured Oral Exam	24week
Assessment 3. Attendance and absenteeism	

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of references

6.1- Course Notes

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

6.2- Essential Books (Text Books)

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

6.3- Recommended Books

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

6.4- Web Sites:

- <http://www.histology-world.com>
- <http://histo.life.illinois.edu/histo/atlas/slides.php>

6.5-Periodicals:

- Egyptian J of Histology
- Egyptian J of Anatomy
- Acta Anatomica

- International J of Experimental Research
- Science
- Cell and Tissue Research

7. Facilities Required for Teaching and Learning

- c. 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.
- d. 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. Nesren Gamal

Head of Department: Prof. Eman E AbU-Dief

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

Course Specifications of Medical Microbiology and Immunology in Diploma Degree General Surgery

sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course: Medical Microbiology and Immunology department
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Medical Microbiology & Immunology

Code: MIC0529-100

Lectures	Practical	Credit
15	30	2

B. Professional Information

1. Overall Aims of Course

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

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

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

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

b) Intellectual Skills:

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

- b1. Solve Problems in the area of general surgery
- b2. Analyze researches and issues related to general surgery
- b3. Assess risk in professional practices in the field of general surgery..

c) Professional and Practical Skills:

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

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

d) General and Transferable Skills:

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

- d1. Assess himself and identify of personal learning needs.
- d2. Use different sources to obtain information and knowledge.
- d3. Learn himself continuously

3. Contents

Topic	No. of hours	Lecture	Practical
<u>General Bacteriology</u>			
Bacterial anatomy & Physiology	3	1	2
Bacterial genetics	3	1	2
Recombinant DNA technology	1.5	0.5	1
Antibiotics	1.5	0.5	1
Sterilization & Disinfection	1.5	0.5	1
<u>Systematic Bacteriology</u>			
Gram +ve cocci	3	1	2
Gram –ve cocci	1.5	0.5	1
Gram +ve bacilli	3	1	2
Gram –ve bacilli	1.5	0.5	1
<u>General virology</u>	1.5	0.5	1
<u>Systematic Virology</u>			
RNA viruses	3	1	2
DNA viruses	3	1	2
<u>Mycology</u>			
Fungal classifications	3	1	2
Opportunistic mycosis& Antifungal drugs	3	1	2
<u>Immunology</u>			
Congenital & Acquired Immunity	1.5	0.5	1
Immunological Cells	1.5	0.5	1
Hypersensitivity	1.5	0.5	1
Transplantation	1.5	0.5	1
Tumor Immunology	1.5	0.5	1
Immunodeficiency	1.5	0.5	1
<u>Applied Microbiology</u>	3	1	2
Total	45	15	30
Credit Hours	2	1	1

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination 24week

Assessment 2. Structured Oral Exam 24week

Assessment 3. Attendance and absenteeism

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Course Notes

Notes of the department and practical notebook
Prof. Abla Elmeshad

6.2- Essential Books (Text Books)

Jawetz Medical Microbiology.
Roitt Essential Immunology.
Abbas Clinical Immunology
Alberts Molecular Biology

6.3- Recommended Books

A coloured Atlas of Microbiology.
Topley and Wilson, Microbiology

6.4- Periodicals, Web Sites, ... etc

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

7. Facilities Required for Teaching and Learning

- a. Adequate infra structures: including: teaching places(teaching classes, teaching halls, teaching museum, illustrative images), comfortable 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/ Tamer M. Mahmoud

Head of Department: Dr. Abeer Shenef

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

Course Specifications of Clinical Pharmacology in Diploma Degree General Surgery

sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma degree in general surgery.
2. Minor element of program.
3. Department offering the program: General Surgery department
4. Department offering the course Clinical Pharmacology department.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Title: Clinical Pharmacology

Code: PHA0529-100

Lectures	Practical	Credit
15	30	2

B. Professional Information

1. Overall Aims of Course

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

- Analgesics
- Antibiotics
- Corticosteroids
- Antithyroid drugs

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

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

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

b) Intellectual skills

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

- b1. Analyze researches and issues related to general surgery
- b2. Assess risk in professional practices in the field of general surgery.

c) Professional and practical skills:

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

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

d) General and Transferable skills:

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

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

3. Contents

Topic	No. of hours	Lecture	Practical
Introduction	6	2	4
NSAID	6	2	4
antibiotics	6	2	4
corticosteroids	6	2	4
Antithyroid drugs	6	2	4
Opioid analgesics	6	2	4
Revision	9	3	6
Total	45	15	30
Credit Hours	2	1	1

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

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 assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1. Written examination 24week

Assessment 2. Structured Oral Exam 24week

Assessment 3. Attendance and absenteeism

Weighting of Assessments

Final-term Written Examination	50%
Structured Oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Course Notes

Notes of the department and practical notebook

6.2- Essential Books (Text Books)

-Goodman"s and Gilman

6.3- Recommended Books

Katzumy in Clinical Pharmacology

7. Facilities Required for Teaching and Learning

- c. 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.

- d. 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 . Faten Mohammed Omran

Head of Department: Dr . Mohammed Hamdi

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

Course Specification of Biostatistics in Diploma Degree of General Surgery

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma Degree of General Surgery
2. Major or minor element of program: minor
3. Department offering the program: General Surgery
4. Department offering the course: public Health and community medicine department.
5. Academic year/ Level: first part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

A. Basic Information

Program title Course Specification of medical Biostatistics in Diploma degree in General Surgery

Code: COM 0510-100

Course	Lectures	Practical:	Total:	Total credit hours
Medical Biostatistics	15 hrs	30	45	2 hrs

B. Professional Information

1. Overall Aims of Course

To develop a graduate who will apply the knowledge and skills learned, and is able to utilize the basics of medical statistics in his career and research

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

a) Knowledge and understanding:

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

- a1. Define the 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 Define terms of research methodology

b) Intellectual Skills

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

- b1. Identify and collect data variables impacting health and disease
- b2. Assess risk in professional practices in the field of Chest Diseases and Tuberculosis.
- b3. Analyze research and issues related to the Chest Diseases and Tuberculosis

c) Professional and Practical Skills:

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

- c1. Perform community diagnosis

c2. Conduct Social & Health Surveys

c3. Diagnose an epidemic

d) General and Transferable Skills

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

d1. Use different sources to obtain information and knowledge.

d2. Work coherently and successfully as a part of a team and team's leadership.

d3. Use different sources to obtain information and knowledge and collect data

3. Course Contents:

Topic	No. of hours	Lecture	Practical
Methodology & statistics Terminology and rationale Data collection Types of Data Tabulation of data Graphical presentation of data Measures of central tendency Measures of dispersion Normal distribution curves International classification of diseases International death certificate Study design: Cross sectional study and the prevalence rate Cohort study, incidence rate, relative & attributable risk Case-control study, Odd's ratio Sampling Investigation of an epidemic, the attack rates		15	30
Total	45	15	30
Credit Hours	2	1	1

4. Teaching and Learning Methods:

4.1. Lectures.

4.2 practical sessions

4.3- 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	- Knowledge, Intellectual skills, General transferable skills

5.4 Computer search assignment	-General transferable skills, intellectual skills
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Assessment Schedule

Assessment 1. Written examination	24week
Assessment 2. Structured Oral Exam	24week
Assessment 3. Attendance and absenteeism	

Weighting of Assessments

Final-term Written Examination	50 %
Structured Oral Examination	50 %
Total	100%

Formative only assessments: attendance and absenteeism and Computer search assignments

6. List of References

6.1- Course Notes

Lecture notes prepared by staff members in the department

Epidemiology in medical practice, 5th edition. Churchill Livingstone. New York, London and Tokyo, 2003.

6.4- 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

1-Adequate infrastructure: including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security

2-Teaching tools: including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

Course Coordinator: Dr. Ahmed Fathy Hammed

Head of Department: Prof. Eman Abd El-Baset Mohammed

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

Course Specifications of General Surgery in Diploma degree General Surgery

University; sohag

Faculty: Medicine

1. Program on which the course is given: Diploma 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. "250", decree No. "1378" dated 28/12/2013

A- Basic Information

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

Academic Level: Diploma degree of general surgery

Code:SUR0529-100

Lectures	Practical	Total	Credit
195	240	435	21

B- Professional Information

1. Overall Aims of Course are to:

- Deliver a basic knowledge of general surgery and its subspecialties and hence the candidate can recognize a wide range of general surgical problems
- establish a basic 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 is expected to 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 the natural history of general surgical diseases.
- a3. Enumerate the causation of general surgical diseases and problems.
- a4. Enumerate the techniques of different surgical operations.
- a5. List the clinical picture and differential diagnosis of general surgical diseases and problems..
- a6. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of general surgical diseases and problems..
- a7. Describe the various therapeutic methods/alternatives used for general surgical diseases and problems.
- a8. Describe scientific development in the field of general surgery
- a9. Describe the mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery
- a10. Mention the principles and of ethics and legal aspects of professional practice in the field of general surgery.

- a11. List the principles of quality assurance of professional practice in the field of general surgery
- a12. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual skills

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

- b1. Identify and analyze the information in the field of general surgery and ranking them according to their priorities..
- b2. Solve Problems in the area of general surgery
- b3. Analyze researches and issues related to general surgery.
- b4. Assess risk in professional practices in the field of general surgery.
- b5. Make professional decisions in light of the available data .

c) Professional and practical skills

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

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

d) General and Transferable skills

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

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

3. Contents

Topic	No. of hrs	lectures	Practical surgical
Module 1:Breast	60	30	30
Module 2:Coloproctology	55	25	30
Module 3: Endocrine	60	30	30
Module 4: General surgery	50	20	30
Module5: Hepatopancreatobiliay	65	35	30
Module6: Oesophagogastric	50	20	30
Module 7: General surgery of childhood	60	30	30
Module 8: Transplant	50	20	30
Module 9: Vascular	50	20	30
Module 10: Urinary tract disease	50	20	30
Module11: Testes and scrotum	40	20	20
Module 12: Fractures	40	20	20
Module 13: Pre and post operative care.	40	20	20
Module 14: Post-operative complications	40	20	20
Module 15: intensive care therapy.	40	20	20
Module 16: lymphatic system	40	20	20

Total	435	195	240
Credit Hours	21	13	8

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

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

Assessment schedule:

Assessment	review week	Week:48
Assessment	final written exam	Week:48
Assessment	OSCE	Week:48
Assessment	Structured Oral Exam	Week:48

Weighting of Assessments

Final- written Examination	50%
Structured Oral Examination	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism
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
- Diplomay 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 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/Nabil Yosef Abo EL-Dahab

Head of Department: Prof. Dr/Alaa Mohammad El Seuty

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