



إعتماد توصيف مقررات برنامج الماجستير في جراحة المسالك البولية

والتناسلية

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمي لدرجة الماجستير في جراحة المسالك البولية والتناسلية والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام المعنية

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عميد الكلية



وكيل الكلية للدراسات العليا

Peer Revision

Date of Revision	University	Reviewers
١٠/١٢/٢٠١١	Cairo	- Prof. Dawlat Salem
٢٨/١١/٢٠١١	Mansura	- Prof. Ahmad K. Mansur

Program Specification for Master degree in Genitourinary Surgery

Sohag University

Faculty of medicine

A. Basic Information

١. Program specification: master degree in Genitourinary Surgery and Male sexual dysfunction
٢. Program Type; single
٣. faculty: Faculty of Medicine
٤. Department: Genitourinary Surgery department
٥. Coordinator: Prof. Atef Galal
٦. Assistant Coordinator: Dr Abdel Baset M. Badawy
٧. External Evaluator(s) Prof DR Mohammed Abd-Elmaliek
٨. Last date of program specifications approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣.

B. Professional Information

١. Program Aims: -

The aim of this program is to provide the postgraduate with the medical knowledge and skills essential for practice of Genitourinary Surgery and male sexual dysfunction necessary to gain further training and practice through:

١. Scientific knowledge essential for the practice of Genitourinary Surgery and male sexual dysfunction according to the international standards.
٢. Skills necessary for proper diagnosis and management of patients including diagnostic, decision making and problem solving and operative skills.
٣. Ethical principles related to medical practice in this sensitive specialty.
٤. Active participation in community needs assessment and problems solving
٥. Maintenance of learning abilities necessary for continuous medical education.
٦. Maintenance of research interest and abilities.

٧. Attributes of the student:

٨. Mastering the basics of scientific research methodologies.

٩. The application of the analytical method and used in the field of Genitourinary Surgery
١٠. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
١١. Be aware of the problems and has modern visions in the field of Genitourinary Surgery
١٢. Identify problems in the field of Genitourinary Surgery and find solutions to them.
١٣. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
١٤. Communicate effectively and the ability to lead work teams.
١٥. Decision-making in his professional contexts.
١٦. To employ and preserve the available resources to achieve the highest benefit.
١٧. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.

- ١٨. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
- ١٩. Academic and professional self development and be capable of continuous learning.

٤. **Program Intended Learning Outcomes (ILOs)**

a) Knowledge and understanding:

By the end of the study of master program in Genitourinary Surgery the Graduate should be able to:

- ١. Mention the normal structure and function of the human genitourinary system on the macro and micro levels.
- ٢. Describe the normal growth and development of the human genitourinary system.
- ٣. List the abnormal structure, function, growth and development of human Genitourinary system
- ٤. Mention the natural history of Genitourinary Surgery diseases.
- ٥. List the causation of Genitourinary Surgery diseases and their pathogenesis.
- ٦. List the clinical picture of genitourinary illnesses.
- ٧. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of genitourinary illnesses.
- ٨. Describe the various therapeutic methods/alternatives used for genitourinary diseases.
- ٩. Describe the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different drugs for erectile dysfunction
- ١٠. Mention scientific development in the field of Genitourinary Surgery
- ١١. Mention the principles of ethics and legal aspects of professional practice in the field of Genitourinary Surgery
- ١٢. List the principles of quality assurance of professional practice in the field of Genitourinary Surgery
- ١٣. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.
- ١٤. List the basic, and ethics of scientific research.

B) Intellectual Skills

By the end of the study of master program in Genitourinary Surgery the Graduate should be able to:

- ١. Interpret data acquired through history taking to reach a provisional diagnosis for uro-genital problems.
- ٢. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological, and male sexual dysfunction problems..
- ٣. Link between knowledge for professional problems solving.
- ٤. Conduct research study and / or write a scientific study on a research problem.
- ٥. Assess risk in professional practices in the field of Genitourinary Surgery
- ٦. Plan to improve performance in the field of Genitourinary Surgery
- ٧. Identify uro-genital problems and find solutions.
- ٨. Analyze researches related to the field of Genitourinary Surgery.

b) Professional and Practical Skills

By the end of the study of master program in Genitourinary Surgery the Graduate should able to:

- ١. Master of the basic and modern professional skills in the area of Genitourinary Surgery and male sexual dysfunction.
- ٢. Write and evaluate urological reports.
- ٣. Assess methods and tools existing in the area of Genitourinary Surgery and male sexual dysfunction

c) General and Transferable Skills

By the end of the study of master program in Genitourinary Surgery the Graduate should be capable of

- ١. Present urologic reports in seminars effectively.
- ٢. Use appropriate computer program package for writing reports, presentation and perform statistical analysis.
- ٣. Teach undergraduates and residents, and evaluate their performance.
- ٤. Assess himself and identify his personal learning needs.
- ٥. Use different sources for information and knowledge.
- ٦. Work coherently and successfully as a part of a team and team's leadership.
- ٧. Manage scientific meetings according to the available time.

٨. Academic Standards

Suggested NARS-based ARS

Sohag faculty of medicine adopted the general national academic reference Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naquee) for postgraduate program This was approved by faculty council decree NO.٦٨٥٤, in its cession NO.١٧٧ dated ١٨/٥/٢٠٠٩ based on these NARS: Academic reference standard (ARS) were revised by external evaluator suggested for this program. These ARS were approved by the faculty council decree NO, ٧٥٢٨, in its cession NO.١٩١, dated ١٥-٢-٢٠١٠. The adoption of NARS and the suggested ARS were approved by University council degree No ٥٨٧, in its cession No.٦٠. dated ٢٦-١٢-٢٠١١.

٦. Curriculum Structure and Contents

٥.a- Program duration...٦ semesters (٣ years)

٥.b- Program structure

hours /week			
Clinical	Practical\ surgical	Lectures	Subject
First Part: ٦ months			
		٥	Physiology, biochemistry & pharmacology
	٢	١	Surgical anatomy & histology
	٤	٢	Surgical Pathology & Microbiology
	٢	١	General Surgery

	٢	١	Biostatistics ,computer and research methodology
Second Part: ١٨ months			
٣,٣	٣,٣	٤,٦	Surgical Genitourinary Surgery

code	Item	No	%	
		Compulsory	٥٠	١٠٠
		Elective	٠	٠
		Optional	٠	٠
b.iii	credit hours of basic sciences courses	١١	٢٢	
b.iv	credit hours of courses of social sciences and humanities	٠	٠	
b.v	credit hours of specialized courses:	٢٤	٤٨	
b.vi	credit hours of other course	٤--	--٨	
b.vii	Practical/Field Training	٥	١٠	
b.viii	Program Levels (in credit-hours system):			
	Level ١: ١ st part	١٥	٣٠	
	Level ٢: ٢ nd Part	٢٤	٤٨	
	Level ٣: Thesis	٦	١٢	

٧. **Program Courses** ٣mno courses are compulsory

٦,١- Level/Year of Program:

Semester... ١.....

First part ;

a. **Compulsory**

	No. of hours /week				
	Clinical	Practical\ surgical	Lect.		
a١-a٥- a٨- a٩-a١٠-b٤-b٧-b٨-c٢- d٤-d٧-d٨			٥	٥	Physiology, biochemistry & pharmacology
a١-a٢-b٣-b٤-c٢-d٤		٢	١	٢	Surgical anatomy & Histology
a١-a٣-a٤-٥-a٦-b١-b٢-c٢-d٤		٤	٢	٤	Surgical Pathology&Microbiology
a١-a٢-a٣-a٤-a٦-b٣-c٢-c٣-d٤		٢	١	٢	General Surgery
a٨,b١,b٤,b٥,b٧,c١,c٣,d١,d٢,d٣,d٤, d٦,d٧		٢	١	٢	Biostatistics ,computer and research methodology

Second Part:

	No. of hours /week				
	Clinical	Practical\ surgical	Lect.		
a١-a٢-a٣-a٤-a٥-a٦-a٧-a٨-a٩-a١٠-a١١-a١٢-a١٣-a١٤-b٥-b٦-	٣,٣	٣,٣	٤,٦	٢٤	Surgical Genitourinary

b ^٧ -c ^١ -c ^٢ -d ^١ -d ^٢ -d ^٣ -d ^٤ -d ^٥ - d ^٦ -d ^٧					Surgery curriculum
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٨. Program Admission Requirements

I- General Requirements.

١. Candidate should have either:
 - i. MBBCh degree from any Egyptian Faculty of Medicine or
 - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
٢. Candidate should pass the house office training year.
٣. Those who are not university hospital residents should pass a training for at least ١٢ months in one of the known hospitals.
٤. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (٤٤), dated ٦/١/٢٠١٠.

II- Specific Requirements.

Candidates graduated from Egyptian Universities should have at least "Good Rank" in their final year/ cumulative years examination, and grade "Good Rank" in general surgery course too.

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

٩. Regulations for Progression and Program Completion

Duration of program is ٥٠ credit hours (≥ ٤ semesters ≥ ٣ years), starting from registration till ٣rd part exam; divided to:

First Part: (١٥ Credit hours ≥ ٦ months ≥ ١ semester):

١. Program-related basic & clinical sciences & research Methodology, Ethics & medical reports, Biostatistics and computer.
٢. At least six months after registration should pass before the student can ask for examination in the ١st part.
٣. Two sets of exams: ١st in October — ٢nd in April.
٤. At least ٥٠% of the written exam is needed to pass in each course.
٥. For the student to pass the first part exam, a score of at least ٦٠% (Level D) in each course is needed.
٦. Those who fail in one course need to re-exam it only for the next time only, and if re-fail, should register for the course from the start.

Thesis/Essay(٦ Credit hours ≥ ٦ months= ١ semester):

١. Completion of the ١st part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the ١st part examination, and at least one month before allowing to enter ٣rd part final examination.
- Accepting the thesis is enough to pass this part.

Second Part: (٢٤ Credit hours ≥ ١٨ months= ٣ semesters):

١. Program related specialized sciences of Genitourinary Surgery
٢. Completion of the ١st part credit hours and passing the exams are pre requisites for documentation of the ٣rd part courses.

- ٣ After passing at least:
- ٤ University hospital residents: ٣٦ months residency in the department of Genitourinary Surgery
- Residents in other places: Completed ٣٦ months residency; ١٢ months of them training in the department of Genitourinary Surgery.
 - The students should pass the ١st part before asking for examination in the ٢nd part.
 - Fulfillment of the requirements in each course as described in the template and registered in the log book (° Credit hours; with obtaining $\geq 70\%$ of its mark) is a prerequisite for candidates to be assessed and undertake part ١ and part ٢ examinations; the credit hours of the logbook are calculated as following:
 - Each Cr. Hr.= ٦٠ working Hrs.
 - Logbook= ° Cr. Hr. X ٦٠ working Hrs = ٣٠٠ Working Hrs.
 - Collection of working Hrs. is as following:

Hrs	Activity	
٦	اجتماع علمى موسع	Grand rounds
١٢/day	دورات تدريبية	Training courses
١٢/day ١٨/day	حضور مؤتمرات علمية داخلي خارجية	Conference attendance
٦	حضور مناقشات رسائل	Thesis discussion
١٢/day	حضور ورش عمل	Workshops
٦	ندوة الدوريات الحديثة	Journal club
٦	لقاء علمى موسع	Seminars
٦	ندوة تحليل المخاطر المرضية أو الوفاة	Morbidity and Mortality conference
٦	برنامج التعليم الذاتى	Self education program

- ٢ Two sets of exams: ١st in October - ٢nd in April.
- ٣ At least ٥٠% of the written exam is needed to pass in each course.
- ٤ For the student to pass the ٢nd part exam, a score of at least ٦٠% (Level D) in each course is needed.

١٠. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
١-Activities		- General transferable skills, intellectual skills
٢-Written Exams: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	٥٠%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
٣-OSCE/ OSPE		-Practical skills, intellectual skills, general transferable skills
٤-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:**Part I:**

- Medical Physiology: Written Exam (۳ hours) + Structured oral Exam
- Medical Biochemistry: Written Exam (۳ hours) + Structured oral Exam
- Clinical Pharmacology: Written Exam (۳ hours) + Structured oral Exam
- Surgical Anatomy and Histology: Written Exam (۳ hours) + structured oral Exam + OSPE
- Surgical Pathology: Written Exam (۳ hours) + structured oral Exam + OSPE
- Medical Microbiology and Immunology: Written Exam (۳ hours) + structured oral Exam + OSPE
- General Surgical: Written Exam (۳ hours) + OSCE + Structured oral Exam
- Biostatistics & Computer and Research Methodology: Written Exam (۳ hours) + Structured oral Exam+ OSPE

Part II:

- Surgical Genitourinary Surgery: Two Written Exams (۳ hours for each) + OSCE + Structured oral Exam + Operative exam.

۱۱. Evaluation of Program Intended Learning Outcomes

Sample	Tool	Evaluator
۶	questionnaire	۱- Senior students
۳۵	questionnaire	۲- Alumni
۱	questionnaire	۳- Stakeholders (Employers)
۱	report	۴-External Evaluator(s) (External Examiner(s))
		۵- Other

Course Specification of Medical Physiology in Master degree in Genitourinary Surgery

Sohag University Faculty of Medicine

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program: Genitourinary Surgery department.
٤. Department offering the course :Medical Physiology department Academic year / Level: first part
٥. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic information

Title : Medical Physiology for master degree in Genitourinary Surgery

Code:PHY٠٥١٠-٢٠٠

Total hours:

Credit	Total hours	Tutorial/ clinical	Practical	Lectures	Module
٢	٣٠ hours			٣٠ hours	Medical Physiology

B. Professional information

١. Aim of the course :

to prepare a **Genitourinary Surgery** physician oriented with the physiology of the kidney & micturition & that of the cardiovascular system including that of haemorrhage & types of shock and proper management also that concerned with the regulation of arterial blood pressure. in addition , graduates should have enough knowledge about some endocrine glands especially that act on the kidney & the hormonal function of the kidney itself. And it is very important to know the water & electrolyte balance. and function and physiology of male reproductive system.

٢. Intended learning outcomes (ILOs):

a) Knowledge and Understanding:

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

١. Mentioning the normal function of the human Genitourinary system on the macro and micro levels.
٢. List the abnormal function, of human genitourinary system.
٣. Having adequate knowledge about:
 - ١ The physiology of the kidney & micturition.
 - ٢ The management of haemorrhage and shock Regulation of arterial blood pressure..
 - ٣ The physiology of the male reproductive system.

- ξ Physiology of suprarenal gland
- ο Physiology of pituitary and hypothalamus

b) Intellectual skills:

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

1. Assess the function of the Genitourinary system.
2. Identify the conditions with acid base disturbance.
3. Understand male reproductive system function

c) Professional and Practical Skills:

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

1. Master basic and modern professional clinical skills in correction of shock and detection of different renal physiological functions and male reproductive system
2. Master basic and modern in formations as regards the pituitary, hypothalamus, suprarenal and thyroid glands

d) General and Transferable skills:

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

1. Identify, illustrate, and enumerate different physiologic functions of the kidney, ureter, bladder, seminal vesicles, testes and vas deference.
2. Explain different relations between kidneys and other physiologic endocrine glands, adrenals, thyroids, pituitary glands

3. Contents of the course:

Topic	No. of hours	Lecture	Practical
I-body fluids, electrolytes & oedema.	2	2	
II-renal physiology.	8	8	
III- micturition.	2	2	
IV- water & electrolyte balance. & arterial blood pressure	2	2	
V- Male reproductive system function and regulation	2	2	
VI-haemostasis & its defects.	2	2	
VII-blood groups & transfusion	2	2	
VIII- haemorrhage	2	2	
IX- shock	2	2	
X-pain sensation reflexes	2	2	
XI-hormones that act on the kidney.	2	2	
XII- endocrinal functions of pituitary, suprarenal, testes and the kidney.	2	2	
Total	30	30	
Credit	2	2	

4. Teaching & learning methods:

Lectures

ο. student assessment methods :

Method of assessment	The assessed ILOs
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٥,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
٥,٣-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule

- ١- Assessment ١: written examination week ٢٤
 ٢- Assessment ٢: Structured Oral Exam week ٢٤
 ٣- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	٥٠%
Structured Oral Exam	٥٠%
Total	١٠٠%

Formative only assessments: attendance and absenteeism

٦. List of references:

- ٦,١- Essential books (textbooks)

Guyton and Hall Textbook of Medical Physiology: with STUDENT CONSULT Online Access, ١٢e (Guyton Physiology) Publication Date: June ٢٩, ٢٠١٠ | **Publisher:** Saunders; ١٢ edition (June ٢٩, ٢٠١٠) John E. Hall PhD (Author)

٧. Facilities Required for Teaching and Learning

٨. Adequate Infrastructure including teaching places (teaching class, teaching halls, teaching laboratory, comfortable disks, good source of aeration, security tools,
 ٩. Teaching tools _screens, computers, data show, projectors, flip charts, white boards, video player, video camera, scanner, copier, color and laser printer

Course Coordinator: Dr. Hoda Mostafa

Head of Department: Dr. Ahmed Mostafa

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

Course Specification of Medical Biochemistry in Master degree in Genitourinary Surgery

Sohag University Faculty of Medicine

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program: Genitourinary Surgery department.
٤. Department offering the course :Medical Biochemistry department
٥. Academic year / Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic information

Title : Medical Biochemistry for master degree in Genitourinary Surgery

Code:BIO٠٥١٠-٢٠٠

Total hours:

Credit	Total hours	Tutorial/ clinical	Practical	Lectures	Module
١	١٥ hours			١٥ hours	Medical Biochemistry

B. Professional information

١. **Aim of the course** :

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

Normal and abnormal urine constituents

٢. **Intended learning outcomes (ILOs):**

a) Knowledge and Understanding:

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

١. To know the biochemical importance of intermediary metabolism (Anabolic and catabolic)
٢. The importance of clinical biochemistry and its relation to urological diseases.
٣. Explain the role of vitamins in Genitourinary Surgery
٤. To know and explain hormonal action

b) Intellectual Skills

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

١. Diagnosis the affected biochemical deficiency
٢. How to investigate a sample of urine and do different biochemical tests
٣. Do some blood tests to identify the pH and trace elements evaluation

c) Professional and Practical Skills

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

١. To identify the biochemical defect
٢. To perform some laboratory tests for early diagnosis.

d) General and Transferable Skills

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

١. Acquiring skills to use computer to enter biochemistry web sites and self learning.
٢. Team working for accurate diagnosing of diseases using internet.
٣. Ability to listen and understanding any biochemical lecture.
٤. Utilize computers in conducting research and to Collect scientific data.
٥. Use standard computer programs effectively (window, office programs).

٦. Contents of the course:

Tutorial/ Practical	Lecture	No. Of hours	Topic
	١	١	Urine analysis and report
	٢	٢	Hypertension
	١	١	Protein Biochemical manifestation of chronic and acute renal failure
	١	١	Kidney function tests
	٢	٢	Biochemistry of stone formation
	١	١	Water metabolism
	٢	٢	Electrolyte balance
	١	١	Glycine metabolism
	١	١	Keton bodies
	١	١	Diabetes mellitus
	٢	٢	Biochemistry of bladder cancer
	١٥	١٥	Total
	١	١	Credit

٤. Teaching & learning methods:

Lectures

٥. student assessment methods :

Method of assessment	The assessed ILOs
٥,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
٥,٣-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule

- ١- Assessment ١: written examination week ٢٤
- ٢- Assessment ٢: Structured Oral Exam week ٢٤
- ٣- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	٥٠٪
Structured Oral Exam	٥٠٪
Total	١٠٠٪

Formative only assessments: attendance and absenteeism

٦. List of references:

٦١- Essential Books (Text Books)

١-Textbook of Biochemistry with Clinical Correlations [Hardcover]

Thomas M. Devlin (Editor) Publication Date: January ١٩, ٢٠١٠ | **Publisher:** John Wiley & Sons; ٧ edition (January ١٩, ٢٠١٠)

٢-Harper's Biochemistry Peter A. Mayes (Author), Robert K. Murray

Robert K. Murray (Author) Publication Date: August ٢٨, ١٩٩٩ **Publisher:** McGraw-Hill Publishing Co; ٢٥th edition (August ٢٨, ١٩٩٩)

٦,٢- Recommended Books

١. Lectures notes on clinical biochemistry, Whitby et al ١٩٩٣
٢. Lippincott's illustrated reviews biochemistry, Champe, PC, Harvey, RA, ٢٠٠٥٦,٣ **Periodicals, Web Sites, ... etc**
١. <http://www.ncbi.nlm.gov/>
٢. <http://www.vlib.org/>
٣. www.genome.ad.jp/kegg/regulation
٤. Findarticle.com
٥. Freemedicaljournals.com

٧. Facilities Required for Teaching and Learning

٨. Adequate Infrastructure including teaching places (teaching class,teaching halls,teaching laboratory,comfortable disks,good source of aeration,security tools,
٩. Teaching tools _screens,computers,data show,projectors,flip charts,white boards,video player,video camera,scanner,copier,colour and laser printer

Course Coordinator: Dr. Aida Abdeen

Head of Department: Prof Dr : Nagwa Said Ahmed

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

Course Specification of Clinical Pharmacology in Master degree in Genitourinary Surgery

University of SOHAG Faculty of MEDICINE

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program: Genitourinary Surgery department.
٤. Department offering the course: Clinical Pharmacology department.
٥. Academic year / Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic information

Title : Pharmacology for master degree in Genitourinary Surgery

Code:PHA.٥١٠.٢٠٠

Total hours:

Credit	Total hours	Tutorial/clinical	Practical	Lectures	Module
٢	٣٠ hours			٣٠ hours	Pharmacology

B. Professional information

١. Aim of the course :

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

- ١ Demonstration of knowledge of application of the principles and knowledge of the medical sciences in the field of pharmacology.
- ٢ Demonstration of knowledge of pharmacokinetics & dynamics.
- ٣ Demonstrate an understanding of the principles and practice of pharmacology.
- ٤ Describe the principles that govern taking decision for the suitable types of drugs for the patient.
- ٥ Demonstration of types, mechanism of actions, effect, clinical uses, complication, side effects and drug interaction of drugs.

٢. Intended learning outcomes (ILOs):

According to the intended goals of the faculty

a) **Knowledge and Understanding:**

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

١. List indications, pharmaco-kinetics and side effects of commonly used drugs in the field of Genitourinary Surgery.
٢. Describe the various therapeutic methods/alternatives used for Genitourinary diseases.
٣. Describe in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different drugs for erectile dysfunction

b) **Intellectual Skills:**

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

1. Formulate appropriate drug therapy for Genitourinary diseases.

c) Professional and Practical Skills:

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

1. Identify a clear priority plan in the patient's management by knowledge of indications, contraindications and side effects of various drugs.

d) General and Transferable Skills:

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

1. Use different sources for information and knowledge to know more about new drugs.

2. Contents of the course:

Tutorial /Practical	Lecture	No. of hours	Topic
			<u>Medical pharmacology.</u>
	ε	ε	Pharmacodynamics
	ε	ε	Pharmacokinetics
	ε	ε	Diuretics
	ε	ε	Antimicrobial drugs
	ε	ε	Analgesics and antiprostaglandines
	ε	ε	Alpha blockers and antimuscarinics
	ε	ε	Sildenafil and α phosphodiesterase inhibitors
	γ	γ	Corticosteroids, androgen and antiandrogen
	3.	3.	Total
	2	2	Credit

3. Teaching & learning methods:

Lectures

4. student assessment methods :

Method of assessment	The assessed ILOs
1, 1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
1, 2-Written Exam: -Short essay: 40% -structured questions: 20% -MCQs: 20% -Commentary, Problem solving: 10%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
1, 3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable 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: attendance and absenteeism

٦. List of references:

٦,١- Essential Books (Text Books): **Katzung & Trevor's Pharmacology Examination and Board Review, ١٠th Edition (Lange Medical Books)**

Anthony Trevor (Author), Bertram Katzung (Author), Susan Masters (Author), Marieke Knuidering-Hall (Author)

Publication Date: June ٢٢, ٢٠١٠ | Edition: ٩

٦,٢- Recommended Books:

Lippincott's Illustrated Reviews : Pharmacology : Special Millennium Update [Paperback]

Mary J. Mycek (Author), Richard A. Harvey PhD (Author), Pamela C. Champe

Publication Date: November ١٥, ١٩٩٩ Edition: Second, Updated Edition

٦,٣- Periodicals, Web sites:

١- American Journal of Pharmacology

٢- British journals of pharmacology.

٣- WWW.Google.COM

٤- WWW.yahoo.com.

٥- www.sciencedirect.com.

٧. Facilities Required for Teaching and Learning

٨. Adequate Infrastructure including teaching places (teaching class, teaching halls, teaching laboratory, comfortable desks, good source of aeration, security tools,

٩. Teaching tools _ screens, computers, data show, projectors, flip charts, white boards, video player, video camera, scanner, copier, colour and laser printer

Course Coordinator: Dr. Faten M Omeran

Head of Department: Prof Dr. Mahmoud Hamdi

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

Course Specifications of Human Anatomy & Embryology and Histology and Cell Biology in Master degree in Genitourinary Surgery

University of Sohag

Faculty of Medicine

1. Program on which the course is given: Human Anatomy & Embryology and Histology and Cell Biology Master degree in Genitourinary Surgery.
2. Minor element of program.
3. Department offering the program: Genitourinary Surgery department
4. Department offering the course: Human Anatomy & Embryology department and Histology and Cell Biology department
5. Academic year / Level first part
6. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Course Specifications of Anatomy and histology in Master degree in Genitourinary Surgery

Code:ANA-HIS٠٥١٠-٢٠٠

Total hours

Credit	Total hours	Tutorial/clinical	Practical	Lectures	Module
١	٢٢,٥ hours		١٥ hours	٧,٥ hours	Anatomy
١	٢٢,٥ hour		١٥ hours	٧,٥ hours	Histology

B. Professional Information

١. Overall Aims of Course

Anatomy module :

By the end of the course the student should be able to have the professional knowledge anatomy and embryology of urinary and male genital systems

Histology module :

Our aim is to graduate competent surgeon mastering the:

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

٢. Intended Learning Outcomes of Course (ILOs):

Anatomy module :

According to the intended goals of the faculty: the student is to be armed with professional knowledge about the anatomy of the Genitourinary Surgery system

a) **Knowledge and understanding**

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

١. Mention the normal structure and function of the urinary and male genital systems on the macro levels.
٢. Mention early embryo development & normal growth and development of the urinary and male genital systems
٣. List the recent advances in the abnormal structure, function, growth and development of urinary and male genital systems

b) Intellectual Skills

By the end of the study of Master program in Genitourinary Surgery the Graduate should be able to:

١. Link between knowledge for Professional problems solving.
٢. Conduct research study and / or write a scientific study on a research problem

c) Professional and Practical Skills

By the end of the study of Master program in Genitourinary Surgery the Graduate should be able to:

١. Master the basic and modern surgical skills in the area of Genitourinary Surgery

d) d- General and Transferable Skills

By the end of the study of Master program in Genitourinary Surgery the Graduate should be able to:

١. Use information technology to serve the development of professional practice
٢. Assess himself and identify personal learning needs.

Histology module :

a) Knowledge and Understanding:

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

١. Mention sufficient knowledge of the histological structure of the different basic body tissues.
٢. Mention sufficient knowledge of the histological structure of the different parts of the urinary and male genital systems.
٣. List the function of the different parts of the urinary and male genital systems in relation to their structure.

b) Intellectual Skills:

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

١. Use self learning skills in problem solving.
٢. Interpret some of the medical importance of the histological structure in relation to genito urinary surgical problems.

c) Practical and professional skills:

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

١. Identify the histological structure of the body tissues and the organs of urinary and male genital systems

d) General and Transferable Skills:

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

١. Use the computer to enter histological web sites.
٢. Collect scientific data from the computer.
٣. Work in groups, as a leader or as a college.

٤. Contents:

Anatomy module :

Topic	No. Of hours	Lecture	Practical
Anatomy of urinary system (kidney,ureter,urinary bladder,urethera)	11	1	10
Anatomy of male genital system (testis, epididymes, vas,prostate, seminal vesicles, penis and scrotum)	6,0	1,0	6
Anatomy of the perineum and pelvis	0	1	4
Anatomy of reteroperitoneal space	3	1	2
Blood and nerve supply of the pelvis	3	1	2
Embryology of urinary system	2,0	0,0	2
Congenital anomiles of urinary tract]	2,0	0,0	2
Embryology of male genital system and congenital anomalies	3	1	2
Total	37,0	7,0	30
Credit	1	0,0	1

Histology module :

Lecture hours	No. of hours	Topic
1	1	<p>Cytology:</p> <ul style="list-style-type: none"> -general structure of the nucleus. -general structure of the cytoplasm. <p>General structure of the body basic tissues:</p> <ul style="list-style-type: none"> - epithelial tissue. -connective tissue. -muscular tissue. -nervous tissue. -blood and haemopoietic tissue.
0,0	0,0	<p>Cardiovascular system :</p> <ul style="list-style-type: none"> General structure of the heart wall. General structure of the wall of blood vessels. Arteries (large+medium sized) Viens (large+medium sized) Structure of special types of ateries and veins. Arteriovenus connection;capillaries,sinusoids and arteriovenous anastomosis.

١,٥	١,٥	<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. Structur and function of lymphatic organs: Lymph nodes. Spleen thymus Tonsils Mononuclear phagocytic system. Antigen presenting cells. Stains to identify member of immune cells.</p>
٣	٣	<p>Urinary system Kidney General structure;cortex and medulla. Nephron structure;renal corpuscle,proximal tubules,loop of Henle and distal tubules. Filtration barrier. Juxtaglomerular apparatus. Collecting tubules. Renal blood supply;glomerular and non glomerular blood. Renal interstitium. Urinary passages Ureter. Urinary bladder Male and female urethra.</p>
٢,٥	٢,٥	<p style="text-align: center;">Male reproductive system</p> <p>Testis: Capsule and outlines of internal structure. Seminiferous tubules. Spermatogenic cells. Spermatogenesis;spermatocytogenesis and spermiogenesis. Sperm,atozoa. Sertoli cells and blood testicular barrier. Interstitial cells of Leydig. Hormonal basis of testicular function. Male genital ducts;structure and function: Tubuli recti. Rete testes. Ductuli efferentia. Ductus epididymis. Ejaculatory duct. Accessory male genital tracts;structure and function:</p>

		Seminal vesicles. Prostate. Bulbo urethral gland. Penis: Structure and mechanism of erection. Male urethra. Semen.
٧,٥	٧,٥	Total
١,٥	١,٥	Credit

٤. Teaching and Learning Methods

٤,١-lectures.

٤,٢-practical lessons.

٤,٣- Assignments for the students to empower and assess the general and transferable skills

٥. Student Assessment Methods

Method of assessment	The assessed ILOs
٥,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
٥,٣-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
٥,٤ assignment	-General transferable skills, intellectual skills

Assessment Schedule

١- Assessment ١: written examination week ٢٤

٢- Assessment ٢: Structured Oral Exam week ٢٤

٣- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	٥٠%
Structured Oral Exam	٥٠%
Total	١٠٠%

Formative only assessments: attendance and absenteeism

٦. List of References

Anatomy module :

٦,١- Course Notes

Lecture notes prepared by staff members in the department

٦,٢- Essential Books (Text Books)

Gray's Anatomy

٦,٣- Recommended Books

A colored Atlas of Human anatomy and Embryology.

٦,٤- Periodicals, Web Sites, ... etc

American J. of Anatomy

Cochrane Library, Medline & Popline

Histology module :

٦,١- Essential Books (Text Books)

-Junqueira, Carneiro and Kelly (١٩٩٠): Basic Histology, ٧th ed. Librairie du liban and lang buruit, London, New York.

-Fawcett (١٩٩٤): A Text Book of Histology, ١٢th ed. Chapman and Hall, New York, London.

-Drury, R.A.B. and Wallington, E.A. (١٩٨٠): Histological techniques, ٥th ed. Oxford university press, New York.

-Pears, A.G.E. (١٩٨٠): Histochemistry theoretical and applied, ٤th ed. Churchill Livingstone, Melbourne and New York.

٦,٢- Recommended Books

- Cormack, H.D. (١٩٨٧): A text book of Histology, ٩th edition, Lippincott, J.B. Company, Philadelphia.

- Williams, P.L. (١٩٩٠): Gray's Anatomy, the anatomical bases of Medicine and Surgery, ٣٨th ed., Churchill, Livingstone, Britain.

٦,٣- Web Sites:

<http://www.histology-world.com>

<http://histo.life.illinois.edu/histo/atlas/slides.php>

-Periodicals

-Egyptian J of Histology

-Egyptian J of Anatomy

- Acta Anatomica

- International J of Experimental Research

- Science

- Cell and Tissue Research

٧. Facilities Required for teaching and learning.

٨. Adequate infrastructure: including teaching places (teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.

٩. Teaching Tools: including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.

١٠. Computer Program: for designing and evaluating MCQs

Course Coordinator:

Anatomy module : Dr. Salwa Ouies.

Histology module : Dr. Doha Saber Mohamed

Head of Department:

Anatomy module : Prof. Mohamed A. Eldsoky.

Histology module : Prof. Eman E AbU-Dief

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

Course Specification of Pathology in Master degree in Genitourinary Surgery

Sohag University

Faculty of Medicine

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program Genitourinary Surgery.
٤. Department offering the course: Pathology
٥. Academic year / Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Course Specification of Pathology in Master degree in Genitourinary Surgery

Code: PAT٠٥١٠-٢٠٠

Total hours :

Credit	Total hours	Tutorial/clinical	Practical	Lectures	Module
٢	٤٥ hours		٣٠ hours	١٥ hours	Pathology

B. Professional Information

١. 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 medical diseases.

٢. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

a) Knowledge and Understanding:

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

- a١. Develop understanding basis of general and systemic pathology.
- a٢. Become familiar with etiology, pathogenesis and pathologic manifestation of diseases of urinary system & male genital system.
- a٣. Be able to correlate gross and histopathology with the clinical basis of diseases of urinary system & male genital system.
- a٤. Mention the normal structure and function of the human genitourinary system on the micro level .
- a٥. List the abnormal structure, function, growth and development of human genitourinary system
- a٦. Describe the natural history of genitourinary diseases.
- a٧. Describe the causation of genitourinary diseases and their pathogenesis.
- a٨. List the clinical picture of genitourinary illnesses.
- a٩. Have sufficient information about the fate and complications and prognosis of different diseases of urinary system & male genital system.

- a) .By the end of the course the student should be able to provide core knowledge of processes affecting urological system, with an emphasis on understanding mechanisms of disease especially urinary system & male genital system.
- a) \. Define and discuss the main disease categories that may affect the body (general pathology; wound healing, fluid balance, septic shock & blood transfusion).

b) Intellectual Skills:

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

Interpret in a professional manner a pathology report in Genitourinary Surgery.

Able to solve pathological problems in Genitourinary Surgery.

Data interpretation

- ١. Interpret data acquired through history taking to reach a provisional diagnosis for genitourinary problems.
- ٢. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems..

c) Professional and Practical Skills:

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

- ١. Identify the macroscopic and microscopic criteria of the altered structure (pathology) of the genitourinary system and its major organs and systems that are seen in various diseases.
- ٢. Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, and degenerative) and mechanisms of diseases and the way through which they operate in the body (pathogenesis).
- ٣. Write and evaluate urological reports.

d) General and Transferable Skills:

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

- ١. Apply the pathological report data to the further treatment needed to patient.
- ٢. Link prognosis of the disease with pathological report.
- ٣. Use data analysis and communication skills
- ٤. Respect, the willing to work through systems, collaborates with other members of the students.
- ٥. Effectively utilize various computer based instruction tools and E-learning of Pathology and utilize a variety of computer-based self assessment tools.
- ٦. Accept the limitation in knowledge and always strive for excellence.

٣. Course contents:

Practical	Lecture	No. of hours	Topic
٦	٣	٧,٥	١- <u>General Pathology:</u>
١	٠,٥	١,٥	١,١. Inflammation, wound healing & repair.
١	٠,٥	١,٥	١,٢. Cell response to injury.
١	٠,٥	١,٥	١,٣. Specific infectious diseases.
١	٠,٥	١,٥	١,٤. Disturbances of cellular growth.
١	٠,٥	١,٥	١,٥. General pathology of tumors.

1	0,0	1,0	1,6. Diagnostic cytology
14	7	17,0	2- <u>Kidney & urinary passages:</u>
1	1	2	2,1. Diseases of renal tubules.
1	1	2	2,2. Diseases of interstitial renal tissue
2	1	3	2,3. Hydronephrosis.
2	1	3	2,4. Renal & bladder calculi.
2	1	3	2,5. Tumors of the kidney.
3	1	4	2,6. Tumors of the urinary bladder.
2	1	3	2,7. Renal failure & uremia.
10	0	12,0	3- <u>Male genital system:</u>
2	1	3	3,1. Testicular tumors
3	1	4	3,2. Benign prostatic hyperplasia.
2	1	3	3,3. Tumors of the prostate.
1	1	2	3,4. Hydrocele, varicocele & varicocele.
2	1	3	3,5. Male infertility.
30	10	40	Total
1	1	2	Credit

4. Teaching and Learning Methods

ε,1. Lectures.

ε,2. Gross and histopathology (slides).

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: 20% -MCQs: 20% -Commentary, Problem solving: 10%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5,3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable 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	00%
Structured Oral Exam	00%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6,1 Essential Books (Text Books):

1 -Muir's Textbook of Pathology, Fourteenth Edition Edited by David A Levison, Robin

Reid, Alistair D Burt, David J Harrison and Stewart Fleming. Publisher: CRC Press
Publication date: 2010 Series: A Hodder Arnold Publication Series Edition
description: REV Edition number: 14

1- Robbins & Cotran Pathologic Basis of Disease: With STUDENT CONSULT Online Access, 9e (Robbins Pathology) [Hardcover]

Vinay Kumar (Author), Abul K. Abbas (Author), Jon C. Aster (Author), Nelson Fausto (Author)

Publication Date: June 11, 2009 | | Edition: 9th .

1,2 Recommended Books:

1- **Rosai and Ackerman's Surgical Pathology Review, 9e [Paperback]**

Ivan Damjanov MD PhD (Editor), Marin Nola MD PhD (Editor) Publication Date: December 22, 2006 **Publisher:** Mosby; 1 edition (December 22, 2006)

1- **Sternberg's Diagnostic Surgical Pathology (2-Volume Set**

Darryl Carter (Editor), Joel K. Greenson (Editor), Victor E. Reuter (Editor), Mark H. Stoler (Editor) Publication Date: August 22, 2009 **Publisher:** Lippincott Williams & Wilkins; Fifth edition (August 22, 2009)

1,3- **Periodicals, American journal of pathology**

Pathology Human pathology

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

4. Facilities Required for Teaching and Learning

1. Adequate Infrastructure including teaching places (teaching class, teaching halls, teaching laboratory, comfortable desks, good source of aeration, security tools,
2. Teaching tools _screens, computers, data show, projectors, flip charts, white boards, video player, video camera, scanner, copier, colour and laser printer
3. Electrical microscopes linked to digital cameras

Course Coordinator: Dr. Fatma El Zahraa

Head of Department: Dr/Eman Mohamed Salah El Deen

Date: 11/12/2011, Revised: 1/9/2012, Revised: 1/12/2013

Course Specification of Medical Microbiology and Immunology in Master degree in Genitourinary Surgery

Sohag University

Faculty of Medicine

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program Genitourinary Surgery.
٤. Department offering the course: Medical Microbiology and Immunology
٥. Academic year / Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Course Specification of Medical Microbiology and Immunology in Master degree in Genitourinary Surgery

Code: MIC٠٥١٠-٢٠٠

Total hours :

Credit	Total hours	Tutorial/clinical	Practical	Lectures
٢	٤٥ hour		٣٠ hours	١٥ hours

B. Professional Information

١. 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.

٢. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

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

a) Knowledge and Understanding:

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

١. List the microorganisms affecting human beings all over the world and

particularly in Egypt.

٢. Describe the metabolism and genetics of organisms.
٣. Describe the pathology, clinical symptoms and complications of each disease.
٤. Summarize the laboratory tests needed for diagnosis of each case.
٥. Name the drugs and instructions used for treatment of each case.
٦. Describe infection control methods
٧. Describe the structure and function of immune system
٨. a. ١ Mention the structure and function of the immune system
٩. a. ٥ Understand the causative organisms of genitourinary diseases and their genetic and metabolism
١٠. List the clinical picture of genitourinary illnesses.
١١. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of genitourinary illnesses.
١٢. Enumerate the common diagnostic and laboratory techniques necessary to establish diagnosis of genitourinary illnesses.

b) Intellectual Skills:

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

١. Differentiate between the different microorganisms (Bacteria, viruses and fungi)
٢. Differentiate between the different types of disease causing microbes
٣. Determine the antibiotic regimen based on previous microbiological experience and laboratory tests.
٤. Determine the involvement of the immune system in the current disease process.
٥. Select from different diagnostic alternatives the ones that help reaching a
٦. final diagnosis for urological problems..

c) Professional and Practical Skills:

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

١. Recognize micro-organisms on morphological bases.
 - Identify the methods of staining, culturing and biochemical reactions
 - Recognize serological tests used in diagnosis & handling of samples.
 - Learn infection control measures
٢. Write and evaluate urological reports.

d) General and Transferable Skills:

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

١. Use the computer and internet to gather scientific information.
٢. Use data analysis and communication skills
٣. Interpret a report containing microbiological or immunological data.
٤. Learn how to co-operate with other departments especially infection control units
٥. The use of different sources to obtain information and knowledge.

٦. Course contents:

practical	Lectures	No. of hours	Lectures
			General Bacteriology
	١,٥	١,٥	Bacterial anatomy & Physiology

	०,०	०,०	Bacterial genetics
	०,०	०,०	Recombinant DNA technology
	१	१	Antibiotics
	१	१	Sterilization & Disinfection
			<u>Systematic Bacteriology</u>
	१	१	Gram +ve cocci
	०,०	०,०	Gram -ve cocci
	०,०	०,०	Gram +ve bacilli
	०,०	०,०	Gram -ve bacilli()
	०,०	०,०	<u>General virology</u>
			<u>Systematic Virology</u>
	१	१	RNA viruses
	१	१	DNA viruses
			<u>Mycology</u>
	०,०	०,०	Fungal classifications
	०,०	०,०	Opportunistic mycosis& Antifungal drugs
			<u>Immunology</u>
	०,०	०,०	Congenital & Acquired Immunity
	०,०	०,०	Immunological Cells
	०,०	०,०	Hypersensitivity
	१	१	Transplantation
	१	१	Tumor Immunology
	१	१	Immunodeficiency
			<u>Applied Microbiology</u>
	१	१	Nosocomiology & Infection control
१		१	Bacterial Cultures
३		३	Bacterial Isolation & Identification
२		२	Diagnostic Molecular Biology Methods
२		२	Antibiotic Sensitivity Tests
२		२	Sterilization &

			Disinfection
٢		٢	Immunology(Antigen Antibody Reactions) ١
٣		٣	Immunology(Antigen Antibody Reactions) ٢
١		١	Staphylococci
١		١	Streptococci & Pneumococci
١		١	Neisseria
١		١	Corynebacterium
١		١	Mycobacterium
٢		٢	Enterobacteria
١		١	Pseudomonas & Yersinia
١		١	Bacillus
٢		٢	Clostridium
٢		٢	Vibrios & Brucella
٢		٢	Spirochaetes & Mycology
٣٠		٤٥	Total
١	١	٢	Credit

٤. Teaching and Learning Methods

٤,١. Lectures.

٤,٢. Gross and histopathology (slides).

٥. Student Assessment Methods

Method of assessment	The assessed ILOs
٥,١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
٥,٣-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule

١- Assessment ١: written examination week ٢٤

٢- Assessment ٢: Structured Oral Exam week ٢٤

٣- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

1. List of References

1.1- Essential Books (Text Books)

1- Jawetz Melnick&Adelbergs Medical Microbiology 10/E (Jawetz, Melnick, & Adelberg's Medical Microbiology) [Paperback]

Geo. Brooks (Author), Karen C. Carroll (Author), Janet Butel (Author), Stephen Morse (Author)

Publication Date: November 17, 2012 | | Edition: 10

2-Janeway's Immunobiology (Immunobiology: The Immune System (Janeway)) [

Kenneth Murphy (Author) Publication Date: July 10, 2011 | | Edition: 8

3- Molecular Biology of the Cell [Hardcover]

Bruce Alberts (Author), Alexander Johnson (Author), Julian Lewis (Author), Martin Raff (Author), Keith Roberts (Author), Peter Walter (Author)

Publication Date: November 16, 2007 | | Edition: 6

1.2- Recommended Books

1- Color Atlas Of Diagnostic Microbiology, 1e

Luis M. De la Maza MD PhD (Author), Marie T. Pezzlo MA F(AAM) (Author), Ellen Jo Baron PhD F(AAM) (Author)

Publication Date: November 16, 2007 | | Edition: 6

2-Topley and Wilson's Microbiology and Microbial Infections: Volume 6: Parasitology (Topley & Wilson's Microbiology & Microbial Infections

Leslie Collier (Editor), Albert Balows (Editor), Max Sussman (Editor)

Publication Date: December 11, 1998 | | Edition: 9

3- Periodicals, Web Sites, ... etc

Microbiology

Immunology

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

v. Facilities Required for Teaching and Learning

- ^ Adequate Infrastructure including teaching places (teaching class, teaching halls, teaching laboratory, comfortable desks, good source of aeration, security tools,
9. Teaching tools _screens,computers,data show,projectors,flip charts,white boards,video player,video camera,scanner,copier,colour and laser printer
10. Electrical microscopes linked to digital cameras

Course Coordinator: Dr. Mona Fatoh Mohamed

Head of Department: Prof. Abeer M. Shenief

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

Specification of General Surgery in Master degree in Genitourinary Surgery

University of Sohag

Faculty of Medicine

١. Program on which the course is given: Master degree in Genitourinary Surgery
٢. Major or minor element of program: Minor
٣. Department offering the program: Genitourinary Surgery.
٤. Department offering the course: General Surgery department
٥. Academic year / Level: first part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Course Specification of General Surgery in Master degree in Genitourinary Surgery

Code: SUR.٥١٠.-٢٠٠

Lecture	Practical/ surgical	Clinical	Total hours	Credit
١٥	١٥	١٥	٤٥	٢

B. Professional Information

١. Overall Aims of Course

By the end of the course of General Surgery, the candidate should be able to:

- ١ Deal with common surgical conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- ٢ Deal with acute surgical emergencies safely and effectively.
- ٣ Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- ٤ Perceive and integrate progress in surgical technology.

٢. Intended Learning Outcomes of Course (ILOs)

e) Knowledge and Understanding:

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

١. Describe the natural history of genitourinary problems that are related to the General Surgery practice.
٢. Mention the various diagnostic and laboratory techniques necessary to establish diagnosis of various genitourinary illnesses that need surgical intervention.
٣. List GIT, specially small intestinal principals of surgery
٤. Get enough data about many surgical diseases that come in diff diagnosis of many urologic illnesses.

f) Intellectual Skills:

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

١. Integrate data acquired through history taking to reach a provisional diagnosis for various genitor-urinary problems that are related to General Surgery.
٢. Link between knowledge of General Surgery for Professional problems' solving.
٣. Integrate different conditions that may interfere in the diff diagnosis of many urologic problems

g) Professional and Practical Skills:

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

١. Perform physical examination of patients for Genitourinary or abdominal problems that are related to General Surgery.
٢. Perform different GIT surgeries related to Genitourinary Surgery operations
٣. Deal with different surgical emergencies like hemorrhage ,shock, acute abdomen. Rupture abdominal viscuss,

h) General and Transferable Skills

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

١. Use information technology of General Surgery to serve the development of professional practice

٢. Contents:

Clinical	Practical/ surgical	lectures	No. of hours	Topic
				<u>A) General: (١٠ hours)</u>
١,٥	١,٥	١,٥	١,٥	Antibiotics
١,٥	١,٥	١,٥	١,٥	Haemorrhage
١,٥	١,٥	١,٥	١,٥	Anuria
١,٥	١,٥	١,٥	١,٥	Shock
١,٥	١,٥	١,٥	١,٥	Blood transfusion
١,٥	١,٥	١,٥	١,٥	Fluid and electrolyte balance
١,٥	١,٥	١,٥	١,٥	Wound healing
١,٥	١,٥	١,٥	١,٥	Suture materials
١,٥	١,٥	١,٥	١,٥	Abdominal incisions
١,٥	١,٥	١,٥	١,٥	Postoperative complications
١,٥	١,٥	١,٥	٤,٥	Injuries of intra-abdominal structures

١,٥	١,٥	١,٥	١,٥	Intestinal obstruction
١,٥	١,٥	١,٥	١,٥	Polytraumatized patient.
١,٥	١,٥	١,٥	١,٥	DVT & pulmonary embolism
١,٥	١,٥	١,٥	١,٥	parathyroid gland
١,٥			١,٥	<u>B) Special</u>
١,٥	١,٥	١,٥	١,٥	Hernia (incisional, femoral, umbilical & para-umbilical hernias,). (١ Hr).
١,٥	١,٥	١,٥	١,٥	D.D. of Acute abdomen
١,٥	١,٥	١,٥	١,٥	D.D. of Inguino-scrotal swelling
١,٥	١,٥	١,٥	١,٥	Acute scrotum
١,٥	١,٥	١,٥	١,٥	Varicocele
١,٥	١,٥	١,٥	١,٥	Hydrocele
١	١	١	٣	D.D. of Abdominal mass
١,٥	١,٥	١,٥	١,٥	colonic & small intestine surgery (٢ Hrs).
١,٥	١,٥	١,٥	١,٥	Abdominal trauma (١ Hr)..
١,٥	١,٥	١,٥	١,٥	Fecal fistula (١ Hr)..
١,٥	١,٥	١,٥	١,٥	colostomy (١ Hr).
١٥	١٥	١٥	٤٥	Total
١,٥	١,٥	١	٢	Credit

١. **CLINICAL (٢٠ Hrs):**

- ١ History taking, conducting clinical examination, diagnosing & suggesting investigations in different surgical patients specially those with abdominal masses, , DVT & hernias AND DISCUSSING THESE CASES WITH STAFF MEMBERS IN DUTY.
- ٢ Sharing in pre-operative preparation of surgical patients.
- ٣ Observing post-operative patients in the department of surgery & sharing in their management.
- ٤ Studying surgical instruments, jars , suture materials & x-rays.

٢. **SURGICAL (٢٥ Hrs):**

The candidates should share in surgical lists in the department of surgery as assistants & surgeons, and be trained on performing abdominal incisions, closing the abdominal wound, doing repair of intestinal & bladder injuries & performing appendicectomy. They should be able to identify the ureters & pelvic vessels during pelvic surgery They should assist in surgeries of the hernia repair,

٤. **Teaching and Learning Methods:**

- ٤,١- Lectures
- ٤,٢- Clinical lessons
- ٤,٣- Assignment

◦. **Student Assessment Methods:**

Method of assessment	The assessed ILOs
◦, ١- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
◦, ٢- Written Exam: - Short essay: ٤٠% - structured questions: ٢٠% - MCQs: ٢٠% - Commentary, Problem solving: ١٠%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
◦, ٣- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule

- ١- Assessment ١: written examination week ٢٤
- ٢- Assessment ٢: Structured Oral Exam week ٢٤
- ٣- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	٥٠%
Structured Oral Exam	٥٠%
Total	١٠٠%

Formative only assessments: attendance and absenteeism

٦. **List of References:**

٦, ١- **Recommended Books**

Bailey & Love's Short Practice of Surgery ٢٠th Edition (A Hodder Arnold Publication) [Print Replica] [Kindle Edition] Publication Date: March ٤, ٢٠١٣ Norman Williams (Author, Editor), Christopher Bulstrode (Editor), P Ronan O'Connell (Editor)

٦, ٢- **Periodicals, Web Sites, ... etc**

International Journal of General Surgery
American Journal of General Surgery

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

- ١ Lecture rooms
- ٢ Round rooms
- ٣ Accessibility to hospital wards, clinics and emergency department
- ٤ Audio-visual teaching equipments (computers, data show projector, video, etc.)
- ٥ Models and mannequins
- ٦ Video tapes and scientific pictures archives.
- ٧ Radiology collections and archives.
- ٨ Library for the department.

Course Coordinator: Dr. Nabil Yuosef Salah El Deen

Head of Department: Prof. Alaa El-Dean Hassan

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

Course Specifications of Applied biostatistics (with computer use) and Research Methodology in Master degree of Genitourinary Surgery

Sohag University

Faculty of Medicine

١. Program title : Master degree in Genitourinary Surgery
٢. Major/minor element of the program : Minor
٣. Department offering the course: Community Medicine and public Health Dep.
٤. Department offering the program: Genitourinary Surgery
٥. Academic year /level : ١st part
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Master degree in Genitourinary Surgery Biostatistics and Computer use for health services **and Research Methodology**

Code: COM: ٠٥١٠-٢٠٠

Total Hours:

credit	Total	Practical/ surgical	Lectures	Title
٢	٤٥	٣٠	١٥	Applied biostatistics and computers & Research methodology

B. Professional Information

١. Overall Aims of Course

Applied Biostatistics Module:

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

Research Methodology Module:

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 specialty and necessary to provide further training and practice in the field of Public health and Community Medicine through providing:

١. Recent scientific knowledge essential for the mastery of practice of Public Health and Community Medicine according to the international standards.

- ϒ. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
- ϓ. Ethical principles related to the practice in this specialty.
- ε. Active participation in community needs assessment and problems identification.
- ο. Maintenance of learning abilities necessary for continuous medical education.
- ϔ. Upgrading research interest and abilities.

ϒ. **Intended Learning Outcomes of Courses (ILOs)**

Applied Biostatistics Module:

a) Knowledge and understanding:

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

- aϑ. Mention different programs of analysis of data and statistical packages
- aϒ. Define the recent advances of sources of data and methods of collection.
- aϓ. Summarize data, construct tables and graphs
- aε. Calculate measures of central tendency and measures of dispersion
- aο. Describe the normal curves and its uses
- aϔ. Illustrate selected tests of significance and the inferences obtained from such tests
- aϕ. Illustrate selected tests of significance for parametric and non parametric inferences
- aϗ. Identify factor analysis and discrimination analysis.

b) Intellectual Skills

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

- ϑ. Mention how to collect and verify data from different sources
- ϒ. Interpret data to diagnose prevalent problems Genitourinary Surgery

c) Professional and Practical Skills:

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

- ϑ. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in Genitourinary Surgery

d) General and Transferable Skills:

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

- ϑ. Use appropriate computer program packages.
- ϒ. Use of different sources for information and knowledge about biostatistics.

Research Methodology Module:

a) Knowledge and understanding:

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

- aϑ. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- aϒ. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- aϓ. Describe the study design, uses, and limitations.
- aε. Mention the recent advances of principles, methodologies, tools and ethics of

scientific research.

a^o. Explain the strategies and design of researches.

a¹. Describe bias and confounding.

a^v. Describe sampling techniques and list advantages of sampling

a[^]. Identify principles of evidence based medicine.

b) Intellectual Skills

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

1. Conduct research studies that add to knowledge.
2. Formulate scientific papers in the area of public health and community medicine
3. Innovate and create researches to find solutions to prevalent community health problems
4. Criticize researches related to public health and community medicine

c) Professional and Practical Skills:

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

1. Enumerate the basic and modern professional skills in conducting researches in the area of public health and community medicine.
2. 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:

1. Use of different sources for information and knowledge to serve research.
2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. **Contents**

Tutorial/ Practical	Lecture	No. of hours	Topic
Applied Biostatistics Module:			
2	1	3	Recent advances in collection, analysis and interpretation of data
2	1	3	-Details of Tests of significance: Proportion test
1	.5	1,5	-Chi-square test
1	.5	1,5	-Student T test
1	.5	1,5	-Paired T test
1	.5	1,5	-Correlation
1	1	2	-Regression
2	1	3	-ANOVA test
2	1	3	-Discrimination analysis
2	1	3	-Factor analysis
4	.5	4,5	-Parametric and non parametric tests
Research Methodology Module:			
2	1	3	Details of epidemiological studies (case control, cohort and cross sectional)
2	1	3	Clinical trials, Quasi experimental study

1	1	2	Bias and errors
1	.5	1.5	Setting a hypothesis
1	.5	1.5	Recent advances in screening
2	1	3	- Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum
1	1	2	Setting an objective - Critical thinking
1	.5	1.5	Formulation of papers
3.5	1.5	5	Total hours
1	1	2	Total Credit hours

ξ. Teaching and Learning Methods

- ξ,1- Lectures
- ξ,2- Practical sessions
- ξ,3- Computer search assignments
- ξ,4- Computer application

ο. Student Assessment Methods

Method of assessment	The assessed ILOs
ο,1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
ο,2- Written Exams: -Short essay: 40% -structured questions: 20% -MCQs: 20%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
-Commentary, Problem solving: 10%	- Practical skills, intellectual skills
ο,3- Structured Oral Exams	- Knowledge
ο,4- Computer search assignment	- general transferable skills, intellectual skills

Assessment Schedule

- Assessment 1....Final written exam Week: 2ξ
- Assessment 2....Final oral exam Week: 2ξ
- 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 oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism and Computer

search assignments performance.

٦. List of References

Applied Biostatistics Module:

٦,١- Essential Books (Text Books)

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

٦,٢- Recommended Books

١- Dimensions of Community Health, Boston Burr Ridge Dubuque.

٢- Short Textbook of preventive & social Medicine Prentice-Hall International Inc.

٣- Epidemiology in medical practice, ٥thed Churchill Livingstone New York, London and Tokyo

٦,٣- Periodicals, Web Sites, etc

١- American Journal of Epidemiology

٢- British Journal of Epidemiology and Community Health

٣- WWW. CDC and WHO sites

Research Methodology Module:

٦,١- Essential Books (Text Books)

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

٦,٢- Recommended Books

١- Dimensions of Community Health, Boston Burr Ridge Dubuque.

٢- Short Textbook of preventive & social Medicine Prentice-Hall International Inc.

٣- Epidemiology in medical practice, ٥th edition. Churchill Livingstone. New York, London and Tokyo

٦,٣- Periodicals, Web Sites, etc

١- American Journal of Epidemiology

٢- British Journal of Epidemiology and Community Health

٣- WWW. CDC and WHO sites

٧. Facilities Required for Teaching and Learning:

Applied Biostatistics Module:

١ Adequate conditioned space for staff and assistants.

٢ Adequate conditioned teaching facilities.

٣ Audiovisual Aids: Data show, overhead and slide projectors and their requirements.

Research Methodology Module:

١ ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

٢ TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr/ Ahmed Fathy Hamed

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

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

Course Specification of Surgical Genitourinary Surgery Master degree in Genitourinary Surgery

University of Sohag

Faculty of Medicine

- ١ Program on which the course is given: Master degree in Genitourinary Surgery
- ٢ Major or minor element of program: Major
- ٣ Department offering the program: Genitourinary Surgery..
- ٤ Department offering the course: Genitourinary Surgery.
- ٥ Academic year / Genitourinary Surgery second part of Master degree.
- ٦ Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Course Specification of Surgical Genitourinary Surgery in Master degree in Genitourinary Surgery

Code: URO٠٥١٠-٢٠٠

Total hours :

Credit	Total hours	Tutorial/clinical	Practical	Lectures
٢٤	٥١٠ hours	١٥٠ hours	١٥٠ hours	٢١٠ hours

B. Professional Information

١. 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 medical diseases.

٢. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

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

- ١ Deal with common surgical urological and male genital conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- ٢ Deal with acute urological emergencies safely and effectively.
- ٣ Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- ٤ Perceive and integrate progress in surgical urological technology.

a) Knowledge and Understanding:

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

- ١. List the natural history of genitourinary problems.
- ٢. Describe the various diagnostic and laboratory techniques necessary to establish diagnosis of various genitourinary illnesses that need surgical intervention.

b) Intellectual Skills:

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

١. Integrate data acquired through history taking to reach a provisional diagnosis for various genito-urinary problems
٢. Link between knowledge of Genitourinary Surgery for Professional problems' solving.

c) Professional and Practical Skills:

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

١. Perform physical examination of patients for genitourinary problems.
٢. Perform different surgical urological operations for treating kidney, ureter and bladder problems
٣. Perform different genitourinary problems either diagnostic or therapeutic
٤. Perform different genitourinary operations to treat male infertility
٥. Perform some special techniques in different fields of Genitourinary Surgery

d) General and Transferable Skills

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

١. Use information technology of Genitourinary Surgery to serve the development of professional practice
٢. Train junior staff through continuous medical education programs

٣. Course contents:

Tutorial/ clinical	Practical	lectures	NO. of hours	Topic
Introduction and basics for Genitourinary Surgery:				
٢	٢	٤	٨	Urological history , examination and diagnostic techniques and urine analysis
٢	٢	٤	٨	Instrumentation and endoscopy
٢	٢	٤	٨	Urinary tract imaging and intervention
٢	٢	٤	٨	Physiology and pharmacology of urinary tract
				Urinary tract obstruction& trauma:
٣	٣	٥	١١	Urine storage and transport problems

٢	٢	٢	٦	Urinary tract obstruction : causes ,pathophysiology ,clinical picture and management
١	١	٣	٥	Renovascular hypertension and other renal vascular disease
٥	٥	٧	١٧	Genitourinary trauma
Genitourinary infections:				
٢	٢	٢	٦	Infections and inflammations of the genitourinary tract
٢	٢	٤	٨	Prostatitis and related disorders
٢	٢	٢	٦	Interstitial cystitis and related disorders
٢	٢	٢	٦	Sexually transmitted diseases.
٢	٢	٤	٨	Parasitic diseases of genitourinary tract.
٢	٢	٢	٦	Fungal infections of genitourinary tract
٢	٢	٤	٨	Genitourinary tuberculosis
٢	٢	٢	٦	Cutaneous diseases of male external genitalia
Continence and urinary control:				
٢	٢	٤	٨	Urinary incontinence and voiding dysfunction. Pathophysiology , evaluation and treatment.
٢	٢	٢	٦	Vaginal reconstructive surgery for incontinence
Renal failure and transplantation:				
٢	٢	٤	٨	Acute renal failure
٢	٢	٤	٨	Chronic renal failure
٢	٢	٤	٨	Principles of molecular genetics
٢	٢	٢	٦	Renal physiology and pathophysiology
٢	٢	٢	٦	Transplantation

				immunobiology
۲	۲	۴	۸	Renal transplantation
Urine storage transport and emptying:				
۲	۲	۲	۶	Voiding dysfunction
۲	۲	۲	۶	Overactive bladder
۲	۲	۲	۶	Slings different types
۲	۲	۴	۸	Urinary fistulae
Male reproductive & sexual function:				
۳	۳	۵	۱۱	Erectile dysfunction : evaluation and management
۴	۴	۵	۱۳	Male infertility , reproductive function and dysfunction
۱	۱	۳	۵	Priapism
Pediatric Genitourinary Surgery:				
۲	۲	۲	۶	Normal and anomalous development of urinary tract (PUJ anomalies, renal anomalies, anomalies of ureter,)
۱	۱	۳	۵	Urinary tract infections in children and infants
۴	۴	۵	۱۳	Exstrophy – epispadias complex
۲	۲	۴	۸	Vesicoureteric reflux
۳	۳	۵	۱۱	Hypospadias, posterior urethral valve
۲	۲	۲	۶	Congenital anomlies of testis and scrotum
۲	۲	۴	۸	Neonatal urological emergencies
۲	۲	۲	۶	Renal function in fetus , neonate and child
۲	۲	۴	۸	Intersexuality
۲	۲	۴	۸	Enuresis
Urologic oncology:				
۵	۵	۳	۱۳	An overview of cancer biology
۲	۲	۴	۸	Renal tumors
۲	۲	۲	۶	Ureteral tumors
۲	۲	۵	۹	Bladder cancer

۲	۲	۲	۶	Neoplasms of testis
۲	۲	۲	۶	Tumours of penis
۲	۲	۴	۸	Adrenal gland diseases and tumors
Stones and EndoGenitourinary Surgery:				
۵	۵	۷	۱۷	Urinary lithiasis
۵	۵	۷	۱۷	EndoGenitourinary Surgery and laparoscopy
Surgical skills:				
۵	۵	۷	۱۷	Surgery of kidney and ureter
۵	۵	۵	۱۵	Bladder surgery ,augmentation cystoplasty, continent diversions
۵	۵	۵	۱۵	Surgery of testicular neoplasm
Prostate :				
۵	۵	۴	۴۱	Benign prostatic hyperplasia:
۶	۶	۶	۱۸	Cancer prostate and radical prostatectomy
Miscellaneous:				
۲	۲	۲	۶	Renal hypertension
۶	۶	۶	۱۸	Urinary diversions
۱۵۰	۱۵۰	۲۱۰	۵۱۰	Total
۵	۵	۱۴	۲۴	Credit

II- CLINICAL (۲۰۰ Hrs):

- ۱) History taking, conducting clinical examination, diagnosing & suggesting investigations in different urological patients AND DISCUSSING THESE CASES WITH STAFF MEMBERS IN DUTY.
- ۲) Sharing in pre-operative preparation of Genitourinary Surgery patients.
- ۳) Observing post-operative patients in the department of Genitourinary Surgery & sharing in their management.
- ۴) Studying surgical instruments, jars , suture materials & x-rays.

III- SURGICAL (۲۵۰ Hrs);

The candidates should share in surgical lists in the department of Genitourinary Surgery as assistants & surgeons, and be trained on performing abdominal incisions, closing the abdominal wound, doing some operations like (cystolithotomy, vascocoelectomy, hydrocoelectomy , prostatectomy, expeploration upper nd lower ureter and others)

They should be able to identify the ureters & pelvic vessels during pelvic surgery . They should assist in surgeries of the hernia repair,

۴. Teaching and Learning Methods:

- ξ, 1- Lectures.
- ξ, 2- Clinical cases
- ξ, 3- Surgical lessons
- ξ, 4- Attending and participating in scientific conferences, workshops, and group discussion to acquire the general and transferable skills needed

ο. **Student Assessment Methods:**

Method of assessment	The assessed ILOs
ο, 1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
ο, 2- Log book	- General transferable skills
ο, 3- Written Exam: -Short essay: ξ.0% -structured questions: 20% -MCQs: 20% -Commentary, Problem solving: 10%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
ο, 4- Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
ο, ο- OSCE	-Practical skills, intellectual skills General transferable skills

Assessment Schedule:

Assessment 1.... log book (formative exam)	Week: 10
Assessment 2.... Final OSCE	Week: 22
Assessment 3.... Final written exam	Week: 22
Assessment 4 ... Final Structured Oral Exam	Week: 22

Weighting of Assessments:

Written Examination	ξ.0 %
OSCE	30.0 %
Structured Oral Exam	20.0 %
Operative exam	10.0 %

Total 100.0%

Formative only assessment: simple research assignment, attendance and absenteeism

ϛ. **List of References:**

ϛ, 1- **Essential Books (Text Books)**

1- Penn Clinical **Manual of Genitourinary Surgery**, 1e [Philip Hanno MD MPH, Thomas J. Guzzo MD MPH, Alan J. Wein MD PhD (Hon), ... pretty **basic** June ξ, 2009.
By Ricardo Miyaoka.

2- **Smith and Tanagho's General Genitourinary Surgery, Eighteenth Edition**

(Smith's General Genitourinary Surgery) [Paperback]

Jack McAninch (Author), Tom F. Lue (Author) Publication Date: August ٢١, ٢٠١٢
Publisher: Saunders; ١ edition (May ٤, ٢٠٠٧)

٦٢ Recommended Books

**Campbell-Walsh Genitourinary Surgery: Expert Consult Premium Edition:, ٤-
Volume Set, ١٠e (Campbell's Genitourinary Surgery (٤ Vols.))**

Alan J. Wein MD PhD (Hon) (Author), Louis R. Kavoussi MD (Author), Andrew C.
Novick MD (Author), Alan W. Partin MD PhD (Author), Craig A. Peters MD FACS
FAAP (Author) Publication Date: September ٨, ٢٠١١ **Publisher:** Saunders; ١٠ edition
(September ٨, ٢٠١١)

٦,٣- Periodicals, Web Sites, ... etc

International Journal of Genitourinary Surgery

American Journal of Genitourinary Surgery

٧. Facilities Required for Teaching and Learning

- ١ Lecture rooms
- ٢ Round rooms
- ٣ Accessibility to hospital wards, clinics and endoscopy unite
- ٤ Audio-visual teaching equipments (computers, data show projector,
video, etc.)
- ٥ Models and mannequins
- ٦ Video tapes and scientific pictures archives.
- ٧ Radiology collections and archives.
- ٨ Library for the department.

Course Coordinator: Dr. Abd El Baset Abdo

Head of Department: Prof. Atef Galal

Date: ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣