Faculty of Medicine
Ain Shams University

Postgraduate Studies

Master of Science in Urology

Program Code: UR600

Program Guide and Logbook
Candidate Curriculum vitae

[Name]

Please attach your recent photo

[telephone no]
[mobile no]
[mailing address]

[email address]
[postcode]

Experience

[organization]
[your present job title]
[start date]
[location]
[responsibilities]

[organization]
[previous job title]
[start and end date]
[any other training that will be useful in your job]

Filled by post graduate authorities

Date of Registration

First semester

Second semester

Third semester

Fourth semester
TABLE OF CONTENTS:

I – Welcome Statement
II - Mission Statement
III – Senior supervisor and affiliated departments and Hospitals
IV – Program specifications
  1 - Basic Information
  2 - Professional Information
  3 – Academic standards
  4 - Curriculum structure and contents
  5 - Program courses:
  6. Program admission requirements:
  7. Regulation for progression and program completion
  8. Appendix: course specifications
    • General surgery course specification
    • Surgical anatomy and embryology course specification
    • General pathology course specification
    • Physiology course specification
    • Biochemistry course specification
    • Histology course specification
    • Pharmacology course specification
    • Bacteriology course specification
    • Urology course specification
    • Medical statistics course specification
    • Medical Laws
    • Medical ethics course specification
    • Paper writing course specification
V - General information
VI – Your log book
  1 – Introduction
  2 – Supervisors
  3 - Tables for training records
  4 – Log book preview
VII - Head of department approval for the exam entry

Detachables forms:

VIII – Thesis follow up
IX - Evaluation forms
I – Welcome Statement:
The Department of Urology welcomes you to the Master of Science in urology. As a department we are committed to medical student education and continuously strive to improve your educational experience. This handbook presents information guide and logbook activity of this degree administered by the Urology department, Faculty of Medicine, Ain Shams University.

II - Mission Statement:
The mission of the Faculty of Medicine, Ain Shams University is “The preparation of a competent graduate, who is able to compete on both national and regional levels, capable of lifelong learning, training and tutoring, while adhering to the codes of practice of medical health services and ethics. The college as well, seeks continuous development of programs and courses. It also enhances expansion of applied scientific research and health programs for community services and environmental development. Moreover, through providing distinguished academic and research cadres of teaching staff, supporting the administrative system and sustainability of own resources, the college is able to achieve goals and objectives”.

The mission of this degree is to prepare a well trained urologic surgeon capable of diagnosing, managing, and planning correctly the treatment of urologic cases according to the medical and surgical ethics and rules.

III – Senior Supervisor and Affiliated Departments and Hospitals

Senior Supervisor

Prof.  
-------------------------------  
-------------------------------  
-------------------------------

E-mail:

Affiliated Departments and Hospitals
El- demerdash University Hospital
Ain shams university specialized hospital

IV – Program Specifications:
A- Basic Information
1. Program title: Master of Science in urology
2. Program type: Single
3. Faculty: faculty of medicine
4. Department: Urology
5. Assistant co-coordinator
6. Co-coordinator
7. Last date of program approval:

B- Professional Information:
1. Program aims:
The aim of this degree is to prepare a well trained urologic surgeon capable of diagnosing, managing, and planning correctly the treatment of urologic cases according to the medical and surgical ethics and rules.

2. Intended learning outcomes (ILOs):
a. Knowledge and understanding:
By the end of the program the candidate will be able to:
a1– know the anatomy of the urinary system, abdomen and pelvis
a2– Recognize the histology of the kidney, ureter, urinary bladder, prostate and urethra
a3 -Understand the urinary and genital pathology
a4-Understand the pharmacologic principles of drug therapy in different urological diseases
a5- Understand the principles of case management and operative intervention in urologic cases.

b. Intellectual capabilities:
By the end of the program the candidate will be able to:
b1- classifies urologic disorders.
b2- differentiates urologic diseases from each other.
b3-assess multi-system disease
b4- selects appropriate laboratory tests.
b5-interpret appropriate laboratory tests
b6- select appropriate imaging technique for diagnosis of urologic disorders
b7-interpret radiological imaging.
b8- selects the proper line of treatment

c. Professional and practical skills:
By the end of the program the candidate will be able to:
c1- perform clinical examination of urologic cases with variable presentations in the outpatient clinic.
c2- manage urologic case in the emergency room.
c3- perform bedside urologic techniques in the ward.
c4- perform operative intervention in different urologic surgical techniques.

d. General and transferable skills:
By the end of the program the candidate will be able to:
d1- consider communication skills and teamwork
d2- understand the importance of team working and peer teaching
d3- acquire problem solving and brainstorming skills

3. Academic standards: (Benchmarks)
- European urologic association standards
- American urologic association standards

4. Curriculum structure and contents:
4a- Program duration: 2 years (4 semesters)
4b- Program structure:

<table>
<thead>
<tr>
<th>المراجح</th>
<th>المحتوى</th>
<th>المقررات الدراسية</th>
<th>متطلبات الكلية</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>دورة أساسيات البحث العلمي</td>
</tr>
<tr>
<td>2</td>
<td>UR 6001</td>
<td></td>
<td>جراحة عامة</td>
</tr>
<tr>
<td>1</td>
<td>UR 6002</td>
<td></td>
<td>تشريح</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6003</td>
<td></td>
<td>باتولوجي</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6004</td>
<td></td>
<td>فسيولوجي</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6005</td>
<td></td>
<td>كيمياء حيوية</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6006</td>
<td></td>
<td>أنسجة</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6007</td>
<td></td>
<td>فارماكولوجي</td>
</tr>
<tr>
<td>0.5</td>
<td>UR 6008</td>
<td></td>
<td>ميكروبيولوجي</td>
</tr>
</tbody>
</table>

الجزء الأول

<table>
<thead>
<tr>
<th>الرسالة</th>
<th>المراجح</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>UR 6009</td>
</tr>
</tbody>
</table>

الجزء الثاني

<table>
<thead>
<tr>
<th>المقررات الاختيارية</th>
<th>المراجح</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6009</td>
<td>E6144</td>
</tr>
<tr>
<td>E6145</td>
<td>E6035</td>
</tr>
</tbody>
</table>

يرجى اختيار المادة واحدة من:\n- إحصاء طبي E6009
- المكتبة الطبية E6144
- دورات في فرعيات الأبحاث وعرض المادة العلمية في المؤتمرات E6145

كراسة الأنشطة
5. Program courses:

5.1. Compulsory

a- Compulsory courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR6001</td>
<td>General surgery</td>
<td>30</td>
</tr>
<tr>
<td>UR6002</td>
<td>Anatomy</td>
<td>15</td>
</tr>
<tr>
<td>UR6003</td>
<td>Pathology</td>
<td>7.5</td>
</tr>
<tr>
<td>UR6004</td>
<td>physiology</td>
<td>7.5</td>
</tr>
<tr>
<td>UR6005</td>
<td>Biochemistry</td>
<td>7.5</td>
</tr>
<tr>
<td>UR6006</td>
<td>Histology</td>
<td>7.5</td>
</tr>
<tr>
<td>UR6007</td>
<td>Pharmacology</td>
<td>7.5</td>
</tr>
<tr>
<td>UR6008</td>
<td>microbiology</td>
<td>7.5</td>
</tr>
</tbody>
</table>

b- Elective courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6009</td>
<td>Medical statistics</td>
<td></td>
</tr>
<tr>
<td>E6035</td>
<td>Medical responsibilities</td>
<td></td>
</tr>
<tr>
<td>E6144</td>
<td>Medical ethics</td>
<td></td>
</tr>
<tr>
<td>E6145</td>
<td>Paper writing</td>
<td></td>
</tr>
</tbody>
</table>

L: Lecture, C: Clinical and OR: Operating room

6. Program admission requirements:

المادة (6) : يشترط لقيد الطالب للحصول على درجة الماجستير:

1- أن يكون حاصلاً على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة 2. أن يكون قد أمضى سنة التدريب (الامتحان) 3- موافقة جهة العمل 4- تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة واستيفاء المستندات المطلوبة في الملحق (1) 5- التفرغ للدراسة لمدة فصول دراسيين قبل دخول امتحان الجزء الثاني 0
ملحق (1): يُقدم طالب الإلتزام لدرجة الماجستير الأوراق التالية:
1- طلب الإلتزام
2- شهادة البكالوريوس
3- شهادة الإميزات
4- شهادة الميلاد أو مستخرج رسمي
المتوقع من التسجيل
6- موافقة جهة العمل على التسجيل والترف المطلوب
7- دفعة 6 صور فوتوغرافية
8- بالنسبة للوافدين، يقدم الطالب موافقة السفارة وحدد جهة تحمل النفقات كما يقدم شهادة صحية

7. Regulation for progression and program completion

مادة (8): يتم التسجيل للماجستير مرة واحدة في السنة تبدأ من الأول يوليو حتى آخر أغسطس على أن تبدأ الدراسة في شهر أكتوبر من كل عام، ويجوز قبول تسجيل النوبال والمعيدين والوافدين في الفترة من الأول نوفمبر حتى آخر ديسمبر على أن يسمح لهم بدخول إمتحان الجزء الأول إلا بعد إقامة فترة الدراسة المطلوبة.

مادة (9): توزع الدراسة في كل عام جامعي على فصول دراسيين ودورة كل منهم خمسة عشر اسبوعاً.

مادة (10): يشير إجلاس في إصدار الثاني في منتصف فبراير، مع تنظيم نصي من شهادة مكنك، بDATED لمدة سنة سائبة.
و يتم التسجيل في الدراسة أسبابين من بداية على الأقل بعد استيفاء الشرط حسب المفرقات المسجدة، ولا ينبغي أن يزيد عدد الدراسات في الفصل الواحد عن 6 ساعات معتادة.
ويجوز للطالب تعديل المقررات خلال أسبوعين من بداية الفصل الدراسي (بالحذف أو الإضافة). كما يجوز له الاستفادة خلال سته أسابيع من أهداف القواعد دون استثناء رأسياً.

مادة (11): موعد الدراسة للحصول على درجة الدبلوم أو الماجستير التي أربعة وعشرون شهرًا (أربعة فصول دراسية) على جزئين يغطي فيها الطالب برنامجاً تدريبياً تمكناً للساعات المعنوية الموضحة بالباب الرابع ومستوفى خلال التمرينات متاحة ولا يسمح له بدخول إمتحان قبل الانتهاء من ثلاث أرباع العينات المتاحة في كل جزء من البرنامج.

مادة (12): موعد الدراسة في الدبلوم والماجستير الجزء الأول فرص دراسي واحد يتضمن أيضًا بجدية جيدة جداً في الجزء الثاني. والجزء الثاني يتطلب تفرغ الطالب للتقدم وفقاً للبرنامج، بعد استيفاء دراسين بخصوص موضوع الدراسة على شكل بحث نظري أو عمل.

مادة (13): يجوز الدراسات لدرجة الماجستير بتسجيل مسائلة على شكل بحث نظري أو عمل بعد استيفاء فصل دراسي واحد على الأقل ويجوز أن يتناول رسالته بعد سنة شهور من التسجيل على الأقل على أن يكون قد نجح في مقررات الجزء الأول بالكامل وقبل دخول إمتحان الجزء الثاني ولا يخصص لها درجات.

مادة (14): يقوم دار الماجستير بإضفاء متطلبات الجامعة قبل تسجيل الرسالة ومتطلبات الكلية قبل دخول إمتحان الجزء الثاني.
و متطلبات الجامعة هي الحصول على شهادة التهويل في اللغة الإنجليزية بسلاسل (40 درجة على الأقل) ومتطلبات الكلية هي حضور دورات ممتدة من لجنة الدراسات العليا في مجال مناهج البحث العلمي والإحصاء العلمي أو إجتياز اختبارات خاصة تحددها الجامعة.

مادة (15): يجوز للباحثين على درجة الدبلوم إمكانياً درجة الماجستير بتسجيل رسالتة الماجستير خلال أربع سنوات من الحصول على درجة الدبلوم ويدخل على الدرجة بعد استيفاء متطلبات الجامعة والكلية ومناقشة الرسالة بنجاح.

مادة (16): الساعات المعنوية للدراسة الدبلوم والماجستير تثلاث سنوات ساعنة معتمدة على الأقل يخصص منها ست ساعات لكتاب متابعة الأشعة والتأمل ست ساعات على الأقل للجزء الثاني وضافة إليها ست ساعات للرسالة في الماجستير.

مادة (20): موعد القيد لدرجة الماجستير أربع سنوات.

مادة (24): مجموع درجات الامتحان النهائي للماجستير 1200 درجة منها 300 درجة للجزء الأول.
ويضاف إليها المعدل الفصلي التراكمي بما يوازي 300 درجة للماجستير.

مادة (25): يعقد إمتحان الدور الأول في أكتوبر ونوفمبر من كل عام ويعد إمتحان الدور الثاني في أبريل ومايو من كل عام.

مادة (26): يكون النجاح في كل مادة من الدراسات العليا والماجستير بعد الحصول على 60% من الدرجة الكلية لكل لجان المادة مجتمعة على الأقل التحرييري عن 50% ويكون النجاح في مواد الدكتوراه بعد الحصول على 60% من درجة التحرييري والعملي والألغينكي والشفوي كل على حدة.

مادة (29): في حالة استنفاد مدة الفقيد يمكن لطلاب الدراسات العليا إعادة التسجيل مرة أخرى ولا يعتد بالنجان في الجزء الأول أو الرسالة ويجب إعادتهما

**Assessment Schedule and Weighing of Assessments**

<table>
<thead>
<tr>
<th>Item</th>
<th>Mark</th>
<th>Points</th>
<th>GPA score</th>
<th>Student state</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>During semester</td>
<td>End of semester</td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td>First semester (If present)</td>
<td>100</td>
<td>300</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Second semester</td>
<td>100</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third semester</td>
<td>100</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fourth semester</td>
<td>Written</td>
<td>900</td>
<td>900</td>
<td></td>
</tr>
<tr>
<td>Final exam</td>
<td>Oral</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical /Clinical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>300</td>
<td>1200</td>
<td>1500</td>
<td></td>
</tr>
</tbody>
</table>

ملحوظة: تعدل درجات الطالب طبقاً للنقطة على الوجه التالي:

<table>
<thead>
<tr>
<th>A</th>
<th>نقاط</th>
<th>1</th>
<th>- 90 % فأكثر</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-</td>
<td>نقاط</td>
<td>2</td>
<td>من 85% حتى أقل من 90 %</td>
</tr>
<tr>
<td>B+</td>
<td>نقاط</td>
<td>3</td>
<td>من 80% حتى أقل من 85 %</td>
</tr>
<tr>
<td>B</td>
<td>نقاط</td>
<td>4</td>
<td>من 75% حتى أقل من 80 %</td>
</tr>
<tr>
<td>B-</td>
<td>نقاط</td>
<td>5</td>
<td>من 70% حتى أقل من 75 %</td>
</tr>
<tr>
<td>C+</td>
<td>نقاط</td>
<td>6</td>
<td>من 65% حتى أقل من 70 %</td>
</tr>
<tr>
<td>C</td>
<td>نقاط</td>
<td>7</td>
<td>من 62% حتى أقل من 65 %</td>
</tr>
<tr>
<td>C-</td>
<td>نقاط</td>
<td>8</td>
<td>من 60% حتى أقل من 62 %</td>
</tr>
<tr>
<td>F</td>
<td>صفر</td>
<td>9</td>
<td>أقل من 60%</td>
</tr>
</tbody>
</table>

و يتم حساب المعدل الفصلي (GPA) على أساس مجموع حاصل ضرب نقاط كل مقرر ضم광و في عدد ساعات المعتمدة متساويًا على الساعات المعتمدة للمقررات التي درسها الطالب في الفصل الدراسي. كما يتم حساب المعدل التراكمي للطالب (CGPA) على أساس مجموع حاصل ضرب النقاط التي حصل عليها الطالب في كل مقرر مضرباً في عدد ساعات المعتمدة متساويًا على مجموع الساعات المعتمدة الكلية.
GENERAL SURGERY COURSE SPECIFICATION
University: Ain Shams University   Faculty: of Medicine
Course specifications

Program on which the course is given: Master of Science in urology
Major or minor element of programs: Major
Department offering the program: Orthopedic department
Department offering the course: General surgery department.
Academic Level: Master – 1st semester
Date of specification approval: ……………………………

A- Basic Information
Title: General surgery course   Code: UR6001
Credit Hours: 2 hour Lecture: 2h / week Total 30

Coordinator
General surgery department

B - Professional Information
1- Course Aims:
- To provide the student with the knowledge, and skills which enable him/her to identify, analyze, manage and/or refer clinical surgical problems in order to provide efficient, cost effective and humane patient care.
- To provide the student with an appropriate background covering the common and/or important surgical emergencies.
- To enable the student to detect cancer at an early stage.
- To enable the development and application of appropriate professional attitudes, ethical principles and communication skills.

2- Intended Learning Outcomes (ILOs) from the Course:
a- Knowledge and understanding
By the end of the course the candidate will be able to:

a1- Describe the anatomy of surgically-important regions, organs and structures of the body.

a2- Describe the etiology, pathogenesis and pathology of important and/ or common surgical diseases.

a3- Discuss the clinical manifestations, complications, diagnostic modalities, outcome and treatment plans for common and/or important surgical problems, with special emphasis on emergencies and malignancies.

a4- Explain the methods of screening and early detection of cancer.

a5- Recognize the ethical principles that govern decision-making in surgical practice.

a6- Discuss the principles and practice of preoperative preparation and postoperative care.

a7- Describe the basic steps needed for the conduction of safe anesthesia.

a8- Outline the physiologic effects of pain and the principles of its management.

b- Intellectual skills

By the end of the course the candidate will be able to:

b1- Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.

b2- Identify problems, prioritize them, and generate a list of differential diagnosis for each problem.

b3- Select the most appropriate and cost-effective diagnostic and therapeutic procedure for each problem.

b4- Interpret the results of commonly used diagnostic procedures.

b5- Use the results of all the tests ordered to modify the problem list and the differential diagnosis accordingly.

b6- Combine the clinical and investigational database, with the evidence based knowledge and the skill of deductive reasoning to be proficient in clinical problem solving.

b6- Interpret the observations of chemical tests to identify unknown sugar or protein solutions.

c- Professional skills

By the end of the course the candidate will be able to:

c1- Recognize patients with life/organ-threatening surgical conditions and perform appropriate initial therapy.

c2- Identify and outline management of patients with chronic surgical conditions requiring long-term follow-up, rehabilitation and pain relief.

c3- Perform routine bedside procedures.

c4- Apply the principles of sterile techniques and infection control guidelines.
c5- Achieve consensus with the patient or patient surrogate on the treatment plan selected.
c6- Monitor the effectiveness of therapy by identifying clinical and investigative parameters to be used in assessing the patient’s response to treatment and re-evaluate management plan accordingly.

d- General and transferable skills
By the end of the course the candidate will be able to:
d1 - Works effectively in a group during preparation of seminars.
d2- Respects the role of staff and co-staff members regardless of degree or occupation.

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>hyperparathyroidism</td>
<td>2</td>
</tr>
<tr>
<td>hepatospleenomegally</td>
<td>2</td>
</tr>
<tr>
<td>lymphadenopathy</td>
<td>2</td>
</tr>
<tr>
<td>Hemorrhage and shock</td>
<td>2</td>
</tr>
<tr>
<td>Wound healing</td>
<td>2</td>
</tr>
<tr>
<td>Inguinal surgery</td>
<td>2</td>
</tr>
<tr>
<td>Sutures and suturing materials</td>
<td>2</td>
</tr>
<tr>
<td>TPN</td>
<td>2</td>
</tr>
<tr>
<td>Bowel resection anastomosis surgery</td>
<td>4</td>
</tr>
<tr>
<td>Acute abdomen</td>
<td>2</td>
</tr>
<tr>
<td>Intestinal obstruction</td>
<td>2</td>
</tr>
<tr>
<td>Abdomino – perineal surgery</td>
<td>2</td>
</tr>
<tr>
<td>Principles of vascular surgery</td>
<td>2</td>
</tr>
<tr>
<td>Principles of plastic surgery</td>
<td>2</td>
</tr>
</tbody>
</table>

L: Lecture

4 - Student Assessment Methods
4.1 written exam to assess knowledge
4.2 Practical exam to assess skills

Weighing of assessment
4.1 written exam 60
4.2 Practical 30
Total 90

5 -- List of References
5.1- Course Notes (paper and / or electronic)
5.2- Essential Books (Text Books)
5.3- Recommended Books
Bailey and Love’s Short Practice of Surgery, 23rd Edition.
Current Surgical Diagnosis and Treatment, 11th Edition.
Browse NL: An introduction to the Symptoms and Signs of Surgical Disease.

5.4- Periodicals, Web Sites, etc

ANTOMY AND EMBRYOLOGY COURSE SPECIFIATON
University: Ain shams university Faculty: of Medicine

Course specifications
Program(s) on which the course is given: Master of Science in Urology
Major or minor element of programs: major
Department offering the program urology department
Department offering the course: Anatomy department
Academic year / Level: first semester
Date of specification approval ...........................................................

A- Basic Information
Title: anatomy course Code: UR6002
Credit Hours: 1 hour Lecture: 1 hr/week Total: 15

Coordinator
Anatomy department

B - Professional Information
1- Course Aims:
At the completion of this course students will have an understanding of
a) Anatomy of the genito-urinary system
b) Anatomy of the abdomen
c) Anatomy of the pelvis
d) Neuroanatomy of the lower urinary tract

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1 –Describe the basic principles of structure of the urinary system
a2 – Describe the surface anatomy of all abdomino-pelvis organs
a3 –outline the major clinical applications of anatomical facts
b- Intellectual skills
By the end of the course the candidate will be able to:
b1- Apply the anatomical facts while examining the living subject in order to reach proper diagnosis
B2–Identify the different surface and determine the position or course of internal structures
B3–Interpret the normal anatomical structures on radiographs and ultrasonography, CT scan and nuclear magnetic resonance images

c- Professional skills
By the end of the course the candidate will be able to:
c1-differentiate anatomical structures of the urinary system.
C2-Select the proper surface marking for an anatomical structure.
C3- differentiate between normal and abnormal anatomical structure of the urinary system

d- General and transferable skills
By the end of the course the candidate will be able to:
d1 –maintain honesty and integrity in all interactions with teachers, colleagues, patients and others with whom surgeon must interact in their professional lives
d2 – recognize the scope and limits of their roles as students as well as the necessity to seek and apply collaboration with other workers
d3 – be responsible towards work
d4 –maintain a professional image concerning behavior, dress and speech

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
</tr>
<tr>
<td>Anatomy of the kidneys</td>
<td>2</td>
</tr>
<tr>
<td>Anatomy of the ureters</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of the urinary bladder</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of the prostate</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of male and female urethra</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of the abdominal viscera</td>
<td>1</td>
</tr>
<tr>
<td>Anatomy of the pelvic viscera</td>
<td>1</td>
</tr>
<tr>
<td>Abdominal and pelvic blood supply and lymphatic drainage</td>
<td>1</td>
</tr>
<tr>
<td>Pelvic fascia and support of the pelvis</td>
<td>1</td>
</tr>
<tr>
<td>Neuroanatomy of the lower urinary tract</td>
<td>1</td>
</tr>
<tr>
<td>embryology of the genito-urinary system( I)</td>
<td>2</td>
</tr>
<tr>
<td>Embryology of the genitor- urinary system (II)</td>
<td>2</td>
</tr>
</tbody>
</table>

L: Lecture, SDL: Self directed learning
4 - **Student Assessment Methods**
4.1 Written exam to assess knowledge
4.2 Practical exam to assess skills

**Weighing of assessment**
- Written exam 30
- Practical exam 30
- Total 60

5 - **List of References**
5.1- Course Notes (paper and / or electronic)
5.2- Essential Books (Text Books)
   Gray’s anatomy 39th edition, 2005
5.3- Recommended Books
   - Functional anatomy of the lower urinary tract
   - Grant’s atlas of anatomy

**Pathology course specification**
**University**: Ain shams university  **faculty**: of medicine

**Course specifications**
**Program on which the course is given**: Master of Science in urology
**Major or minor element of programs**: major
**Department offering the program**: urology department
**Academic level**: master – 1st semester
**Date of specification approval**

**A-Basic information**
**Title**: Pathology  **Code**: UR 6003
**Credit hours**: 0.5 hour  **Lecture**: 1/2weeks  **Total** 7.5

**Coordinator**
Pathology department

**B- Professional information**
**1-course aims:**
At the completion of this course the candidates will have an understanding of the pathology of the urinary system
2- intended learning outcomes (ILO’s) from the course

a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1 - Recognize macroscopic and microscopic pictures of different renal diseases
a2 - Recognize pathology and pathogenesis of different bladder diseases
a3 - Understand pathology of prostatitis and related disorders
a2 - Recognize the pathology of neoplasms of all genito-urinary system

b- Intellectual skills
By the end of the course the candidate will be able to:
b1 - Differentiate between different pathological pictures of different diseases
b2 - Interpret the pathological reports of different pathological diseases

c- Professional skills
c1 - Differentiate between normal and abnormal tissue
c2 - Apply his pathological knowledge on his decision

d- General and transferable skills
By the end of the course the candidate will be able to:
d1-Maintain honesty and integrity in all interactions with teachers colleagues, patients and others with whom physicians must interact in their professional lives
d2-Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other workers
d3-Be responsible towards work
d4-Maintain a professional image concerning behavior, dress and speech.

-Course contents

<table>
<thead>
<tr>
<th>TOPICS</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
</tr>
<tr>
<td>Inflammatory reaction, wound healing,</td>
<td>1</td>
</tr>
<tr>
<td>Cancer</td>
<td>1</td>
</tr>
<tr>
<td>Pathology of renal tumors and ureteric tumors</td>
<td>1.5</td>
</tr>
<tr>
<td>Pathology of inflammatory and neoplastic diseases of the</td>
<td>1</td>
</tr>
<tr>
<td>Pathology of inflammatory diseases of genital system</td>
<td>1</td>
</tr>
<tr>
<td>Pathology of BPH and cancer prostate</td>
<td>1</td>
</tr>
<tr>
<td>Pathology of testicular tumors</td>
<td>1</td>
</tr>
</tbody>
</table>

4-student assessment methods
4-1-written exam to assess knowledge
4-2-oral exam to assess general and transferable skills
Weighing of assessment
- Written exam 15
- Oral exam 10
- Total 25

5-List of references
5.1 course notes (paper and? or electronic)
5.2 essential books

Physiology courses specification
University: Ain shams university  faculty: of medicine

Course specifications
Program on which the course is given: Master of science in urology
Major or minor element of programs: major
Department offering the program: urology department
Department offering the course: physiology department
Academic level: master -1st semester
Date of specification approval:

A-basic information
Title: physiology course  code: UR6004
Credit hours: 0.5  lecture  lecture: 1 hour/ 2 weeks  total: 7.5 hours

Coordinator
Physiology department

B-professional information
1-course aims
At the completion of this course students will have and understanding of the physiology of the urinary system including
- Renal circulation, glomerular filtration rate
- Tubular function
- Acid base balance
- Salt and volume regulation
- Homeostasis
- Factors affecting blood pressure

2-Intended learning outcomes (ILOs)

A) Knowledge and understanding
By the end of the course the candidate will be able to
• Understand renal blood flow and deferent factors affecting GFR
• Understand water homeostasis and volume regulation
• Understand mechanism of urine formation

B) Intellectual skills
By the end of the course the candidate will be able to:
• Calculate GFR
• Calculate the osmolality of both plasma and urine

C) Professional skills
By the end of the course the candidate will be able to:
• Measure the normal GFR using different equations
• Differentiate between normal and abnormal urine analysis

D-General and transferable skills
By the end of the course the candidates will be able to
D1) Maintain honesty and integrity in all interactions with teachers, colleagues, patients and others with whom surgeon must interact in their professional lives
D2) Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other workers
D3) Be responsible towards work
D4) Maintain a professional image concerning behavior, dress and speech

3-Course content:

<table>
<thead>
<tr>
<th>TOPICS</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
</tr>
<tr>
<td>Renal function</td>
<td></td>
</tr>
<tr>
<td>Renal circulation</td>
<td></td>
</tr>
<tr>
<td>Glomerular filtration rate</td>
<td></td>
</tr>
<tr>
<td>Tubular function and urine formation</td>
<td></td>
</tr>
<tr>
<td>Acid base balance</td>
<td></td>
</tr>
<tr>
<td>Factors affecting blood pressure</td>
<td></td>
</tr>
<tr>
<td>Salt and water regulation</td>
<td></td>
</tr>
</tbody>
</table>

4-student assessment method
• Written exam to assess knowledge
• Clinical exam to assess general and transferable skills

Weighing of assessment
• Written exam 15
• Clinical exam 10
• Total 25
5-LOST OF REFERENCES
5.1 Course notes (paper and/or electronics
5.2 Essential books (text books)
   Textbook of medical physiology by Guyton and hall 11th edition, 2005

Medical biochemistry and Molecular biology course specification
University: Ain Shams University  Faculty: of Medicine

Course specifications
Program on which the course is given: Master of Science in urology
Major or minor element of programs: Major.
Department offering the program: urology department.
Department offering the course: Medical biochemistry and Molecular biology department.
Academic Level: Master – 1st semester
Date of specification approval: ……………………………

A- Basic Information
Title: Medical biochemistry and Molecular biology course  Code: UR6005
Credit Hours: 0.5  Lecture: 1/2 week  Total: 7.5 hours

Coordinator
Medical biochemistry and Molecular biology department

B - Professional Information
1- Course Aims:
1. To enable students to understand the essential topics of biochemistry including micro- and macromolecules of carbohydrates, proteins, nucleotides and nucleic acids.
2. To enable the student to describe the biological membrane, the role of free nucleotides in signal transduction control, and macromolecules involved in transmission of information from gene expression to the formation of functioning proteins.
3. To familiarize the students with basic principles of Molecular biology and protein synthesis.
4. To enable the student to be familiar with biotechnology methods and their clinical implications.
5. To make the student oriented with the physico-chemical basis of the biological systems; and the related clinical problems
2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1. Describe the structure and properties of carbohydrates, and proteins of biological importance.
a2. Describe the structure of cell membrane and point out its importance.
a3. Describe the structure of heme and proteins of the extra-cellular matrix.
a4. Demonstrate the structure and importance of immunoglobulin.
a5. Describe the chemistry of nucleotides and nucleic acids.
a6. Point out the processes of replication, transcription and translation.
a7. Describe recombinant DNA biotechniques.
a8. Point out the significance of human genome project and the principles of gene therapy.

b- Intellectual skills
By the end of the course the candidate will be able to:
1. Interpret the observations of chemical tests to identify unknown sugar or protein solutions.
2. Identify electrophoresis bands and comment on them.
3. Interpret the photographs of electrophoresis runs of Polymerase chain reaction (PCR) products.

c- Professional skills
By the end of the course the candidate will be able to:
c1 - Selects the proper investigation.
c2 - Read and evaluate scientific literatures.

d- General and transferable skills
By the end of the course the candidate will be able to:
d1 - Works effectively in a group during preparation of seminars.
d2- Respects the role of staff and co-staff members regardless of degree or occupation.

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td></td>
</tr>
<tr>
<td>Carbohydrate metabolism</td>
<td>1</td>
</tr>
<tr>
<td>Metabolism of protein</td>
<td>1</td>
</tr>
<tr>
<td>Vitamins and minerals</td>
<td>1</td>
</tr>
<tr>
<td>Hyperuricemia</td>
<td>1</td>
</tr>
</tbody>
</table>
Tumour markers 1
Diabetes mellitus 1
Molecular biology 1.5

L: Lecture

4 - Student Assessment Methods
4.1 written exam to assess knowledge
4.2 clinical exams to assess skills
4.3 Oral exam to assess General and transferable skills

Weighing of assessment
4.1 written exam 15
4.2 oral exam 10
Total 25

5 -- List of References
5.1- Course Notes (paper and / or electronic)
Electronic lectures
5.2- Essential Books (Text Books)
Lecture notes on molecular medicine
5.3- Recommended Books
Harper's Biochemistry.
* Lippincott's Illustrated Biochemistry.
5.4- Periodicals, Web Sites, etc

HISTOLOGY COURSE SPECIFICATION
University: Ain shams University    Faculty: of Medicine
Course specifications
• Program on which the course is given : master of science in urology
• Major or minor element of programs: major
• Department offering the program : urology department – ain shams university
• Department offering the course : histology department
• Academic level : master 1st semester
• Date of specification approval

A-basic information
Title histology course    code: UR 6006
Credit hours: 0.5 hour    lecture: 1 hour/2week    total: 7.5 hour

COORDINATOR
Histology department
**B-professional information**

**1-course aims**
The main purpose of this course is introducing the academic background and practical experience about the preparation of tissues of genito-urinary system and describes them microscopically.

**2-Intended learning outcomes (ILOs) from the course**

**A-knowledge and understanding**

*By the end of the course the candidate will be able to*

a1-understand the microscopic and ultra structure of the cell
a2-know the structure of the cells in correlation to their functions
a3-recognize basic microscopic structure of organs of genitor-urinary system

**B-intellectual skills**

*By the end of the course the candidate will be able to*

b1-describe and identify the microscopic structure of the given sample
b2-correlate the normal structure with the function
b3-identify the normal from the abnormal structures

**C-professional skills**

*By the end of the course the candidate will be able to*

c1-examine and describe examined histological specimens

**D-general and transferable skills**

*By the end of the course the candidate will be able to*

d1-maintain honesty and integrity in all interactions with teachers colleagues, patients and others with whom surgeons must interact in their professional lives
d2-recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other workers
d3-be responsible towards work
d4-maintain a professional image concerning behavior, dress and speech

**3-course content:**

**The cell**
1- The cell membrane : L.M,E,M and molecular structure
2- The cytoplasm: cell organelles
3- The nucleus

**Kidneys**
1-microscopic structure
2-Microscopic structure
3-Clinical applications in relations to microscopic structure
Ureters
Microscopic structure

Urinary bladder
1-Microscopic structure
2-Ultrastructure

Prostate
1-Microscopic structure
2-clinical applications in relations to microscopic structure

Male and female urethra
Microscopic structure

Male and female genitals
Microscopic structure

4-student assessment methods
41-written exam to assess knowledge
42-practical exam to assess skills
43-oral exam to assess general and transferable skills

Weighting of assessment
- Written exam 15
- Clinical exam 10
- Total 25

5-list of references
51-course notes (paper and/or electronic)
52-essential books
- Gray’s Anatomy, 39th edition, 2005

Pharmacology course specification
University: Ain Shams University faculty: of medicine

Course specifications
Program on which the course is given: master of Science in Urology
Major or minor element of programs: Major
Department offering the program: Urology Department
Department offering the course: Pharmacology Department
Academic level; Master- 1st Semester
Date of specification approval:
A- Basic information
**Title:** pharmacology course  
**Code:** UR 6007  
**Credit Hours:** 0.5 hour  
**Lecture:** 1 / 2 weeks  
**Total:** 7.5 hours

**Coordinator**  
Pharmacology department

**B-Professional information**

**1-Course aims:**
The aim of this course is to provide students with an understanding of the principles of pharmacology affecting the urinary system. For each medication, understand the dosing, pharmacokinetics, metabolism, mechanisms of action, side effects, drug interactions compliance issuers, costs and use in specific patient populations, such as renal insufficiency and including fertile, lactating, pregnant women and pediatric population.

**2-Intended learning outcomes (ILOs) from the course:**

**A-knowledge and understanding**

**By the end of the course the candidate will be able to:**

a1) discuss the pharmacokinetic, pharmacodynamic and pharmacotherapeutic properties of different groups of drug affecting urinary system

a2) discuss the adverse and toxic effects, and their management of commonly used groups

a3) give an account on limitations to the use of drugs such as contraindications and drug interactions

a4) define clinically relevant age, sex, and genetic related variations that affect response to drugs

a5) define the principles, the indications, the relative advantages and disadvantages of various pharmacotherapy modalities

a6) discuss the role prevalence and limitations of alternative and complementary therapies commonly in use

a7) recognize the rational and general guidelines of the use of drugs in the proper dose in special population such as pediatrics, geriatrics, pregnancy and lactation and in cases of renal impairment

**b- Intellectual skills**

**By the end of the course the candidate will be able to:**

b1) calculate accurately drug’s dosage, bioavailability, plasma half life and volume of distribution in different patient populations

b2) obtain and record a comprehensive a drug history of the patient

b3) document drug adverse reactions
b4) observe, record and analyze the effect of drugs on biological tissues

**c- Professional skills**

**By the end of the course the candidate will be able to:**

- c1) integrate, analyze and summarize information relating to practical aspects or current advances, issues and controversies within the pharmacological sciences from a wide range of sources and evaluate this information to draw reasoned conclusions or sustainable judgments
- c2) think independently, evaluate and reflect, set tasks and select appropriate and reasoned approaches to solve problems
- c3) use knowledge and understanding of the pharmacological sciences to formulate and apply the principles of scientific inquiry to address pharmacology – related problems
- c4) apply the knowledge and understanding of the pharmacological sciences to plan and undertake hypothesis driven pharmacological research
- c5) demonstrate confidence and competency in understanding, analyzing and interpreting pharmacological data

**B- General and transferable skills**

- D1) demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient’s culture
- D2) provide appropriate basic drug education to the patient and his family
- D3) communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors
- D4) respect ethics related to drug prescription and use especially to drugs liable to produce abuse
- D5) Understand the importance of life – long self learning and show a strong commitment to it
- D6) use current IT for appropriate drug database to reach information about a specific medication
- D7) respect ethics related to drug prescriptions and use especially to drugs liable to produce abuse
- D8) recognize and effectively deal with unethical behavior of other members of healthcare team

**3- Course content**

<table>
<thead>
<tr>
<th>Topics</th>
<th>No of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drugs affecting autonomic nervous system</td>
<td>1.5</td>
</tr>
<tr>
<td>Antibiotics</td>
<td>1</td>
</tr>
<tr>
<td>Analgesics and narcotics</td>
<td>1</td>
</tr>
</tbody>
</table>
4-Student assessment methods
4.1 written exam to assess knowledge, skills
4.2 oral exam to assess General and transferable skills

Weighing of assessment
4.1 written exam 15
4.2 clinical exam 10
Total 25

5-List of references
5.1 course notes (paper and / or electronic)

Clinical bacteriology course specification
University: Ain Shams University  Faculty: of Medicine

Course specifications
Program on which the course is given: Master of Science in urology
Major or minor element of programs: Major.
Department offering the program: Urology department.
Department offering the course: Medical Microbiology and Immunology department.
Academic Level: Master – 1st semester
Date of specification approval: …………………………….

A- Basic Information
Title: Clinical microbiology course            Code: UR 2008
Credit Hours: 0.5 hour          Lecture: 1/2 week           Total: 7.5 hs

Coordinator
Medical Microbiology and Immunology Department.

B - Professional Information
1- Course Aims:
1. To educate students about the basic features of general bacteriology, virology
and mycology and to provide students with an understanding of the immune
system, its protective functions and its role in the patho-physiology of infectious
and non-infectious diseases
2. To familiarize students with the common infections and diseases of medical importance, their microbial causes, as well as laboratory diagnosis, treatment, prevention and control of such diseases
3. To enable the students to practice the principles of sterilization and infection control.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and understanding

By the end of the course the candidate will be able to:

a1. Illustrate general bacterial morphology, physiology and genetics.

a2. Understand the host parasite relationship and microbial pathogenesis.

a3. Explain the physiology of the immune system, its beneficial role, as well as its detrimental role in hypersensitivity, autoimmunity and transplant rejection.

a4. Describe the morphology, culture, antigenic structure and virulence factors of microorganisms of medical importance.

a5. Recognize the most important infectious clinical conditions and outline the diagnosis, treatment, prevention and control of the most likely organisms causing such diseases.

a6. Describe the most important methods of decontamination and principles of infection control.

a7. Describe recombinant DNA biotechniques.

a8. Describe the basics of antimicrobial uses and resistance.

b- Intellectual skills

By the end of the course the candidate will be able to:

b1- Interpret results of microbiological, serological and molecular tests

b2- Interpret microbiological, immunological and molecular reports

b4- Formulate a systematic approach for laboratory diagnosis of common infectious clinical conditions and select the most appropriate and cost-effective tool leading to the identification of the causative organism.

b5- Evaluate according to evidence the causal relationship of microbes and diseases

b6- Categorize a microorganism as a bacterium, virus or fungus according to standard taxonomy.

b7- Report and appraise a concise scientific activity according to standard scientific thinking and integrity.

b8- Appreciate the danger of handling and use of infectious agents on community and environment as a part of their ethical heritage.

C- Professional skills

By the end of the course the candidate will be able to:
c1 - Identify medically important bacteria based on microscopic examination of stained preparations

**c2** - Perform a Gram stain and a Ziehl-Neelsen stain and identify, according to morphology and characteristics, stained preparations

**c3** - Identify culture media and biochemical tests commonly used for bacterial identification and distinguish positive and negative results

**c4** - Perform hand wash and control of steam sterilization

**c5** - Select the proper investigation.

**c6** - Read and evaluate scientific literatures.

**d- General and transferable skills**

**By the end of the course the candidate will be able to:**

d1 - Work effectively in a group during preparation of seminars.

d2 - Respects the role of staff and co-staff members regardless of degree or occupation.

**3- Course content:**

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterilization techniques</td>
<td>L</td>
</tr>
<tr>
<td>Bacterial structure, physiology, &amp; classification</td>
<td>1</td>
</tr>
<tr>
<td>Neisseria and Parvobacteria (Haemophilus, Bordetella, Brucella, Legionella, Yersinia &amp; Pasteurella)</td>
<td>0.5</td>
</tr>
<tr>
<td>Enterobacteriaceae</td>
<td>0.5</td>
</tr>
<tr>
<td>Pseudomonas, Vibrios, Campylobacter &amp; Helicobacter Gram negative anaerobic bacteria</td>
<td>0.5</td>
</tr>
<tr>
<td>Spirochetes Mycobacteria Chlamydia, Mycoplasma, Rickettsia</td>
<td>0.5</td>
</tr>
<tr>
<td>Basic Mycology: classification of fungi, antifungal drugs</td>
<td>0.2</td>
</tr>
<tr>
<td>Basic Virology Major Virus Groups</td>
<td>0.3</td>
</tr>
<tr>
<td>Basic immunology: Tissues and cells of immune response, types of immune response, Immunoglobulin, Humoral immune response, complement, Ag-Ab reactions Cell-mediated immunity, Cytokines, immunity to bacterial infection and immunoprophylaxis</td>
<td>1</td>
</tr>
<tr>
<td>Hospital-acquired infection and infection</td>
<td>0.5</td>
</tr>
<tr>
<td>Hypersensitivity</td>
<td>0.5</td>
</tr>
<tr>
<td>Autoimmunity and tumor Immunology</td>
<td>0.5</td>
</tr>
<tr>
<td>Immunodeficiency and infections in immunocompromised host</td>
<td>1</td>
</tr>
</tbody>
</table>

**L: Lecture**

**4 - Student Assessment Methods**

30
4.1 written exam to assess knowledge
4.2 Practical exam to assess skills
4.3 Oral exam to assess General and transferable skills

**Weighing of assessment**

- 4.1 written exam: 15
- 4.2 Practical: 10
- Total: 25

5 -- List of References

5.1- Course Notes (paper and/or electronic)

5.2- Essential Books (Text Books)
Jawetz, Melnick and Adelberg’s *Medical Microbiology*

5.3- Recommended Books

5.4- Periodicals, Web Sites, etc
- asmnews@asmusa.org
- http://www.phage.org/black09.htm
- http://www.microbe.org/microbes/virus_or_bacterium.asp
- http://www.bact.wisc.edu/Bact330/330Lecturetopics
- http://whyfiles.org/012mad_cow/7.html
- http://www.microbelibrary.org/
- http://www.hepnet.com/hepb.htm
- http://www.tulane.edu/~dmsander/Big_Virology/BVHomePage.html
- http://www.mic.ki.se/Diseases/c2.html

5.4- Periodicals, Web Sites, etc
5.2- Essential Books (Text Books)
5.3- Recommended Books

**Urology Course Specification**

*University:* Ain Shams University  *Faculty:* Of Medicine

**Course specifications**

*Program on which the course is given:* Master of Science in Urology

*Major or minor element of programs:* Major

*Department offering the program:* Urology Department

*Department offering the course:* Urology Department

*Academic level:* master – 2nd, 3rd and 4th semester
**A-b**asic **i**nformation

**Title:** genitor-urinary surgery  
**code:** UR 6009  
**Credit hours:** 17 hours  
lecture 6 credit hours (90 hour)  
clinical: 3 credit hour (90 hour)  
field 8 credit hours (360 hour)

**Coordinator**

Professor:..............................

**B professiona**l **i**nformation

1- **course aims**

a- to provide the candidate with the academic knowledge and clinical skills necessary for accurate diagnosis and management of different urologic pathologies

b- to develop the candidate’s ability to interpret and analyze urologic case in order to reach a provisional diagnosis and carry on a reasonable deduction to reach a definitive diagnosis

c- To provide the candidate with the basic operative skills necessary for the management of different urologic conditions / diseases

2- **Intended Learning Outcomes ( ILO’s) From The Course**

A-**knowledge and understanding**

**By the end of the course the candidate will be able to:**

**a1-** diagnoses and manages properly different urologic diseases  
a2-identify the role of imaging techniques in investigations of the urologic diseases  
a3- recognize different type laboratory investigations needed for the diagnosis of urologic diseases  
a4- understands the scientific basis of:

- obstruction and stasis  
- benign and malignant tumors  
- pediatric urologic disorders  
- urinary trauma  
- urinary tract infections

**Intellectual skills**

**By the end of the course the candidate will be able to**
b1- Carry on systematic analysis of urologic cases based on history and clinical examination
b2- Conclude the possible differential diagnosis and order necessary investigations
b3- Interpret radiographic and laboratory data
b4- Correlate clinical findings with investigations results
b5- Reach definitive diagnosis for different orthopedic pathologies
b6- Perform careful decisions making for the plan of treatment

**Professional skills**

*By the end of the course the candidate will be able to:*

c1- perform clinical urologic examination
c2- carries our bedside urologic interventions
c3- perform operative interventions for different urologic diseases
c4- carries out surgical approaches for different pathologies

**General and transferable skills**

*By the end of the course the candidate will be able to:*

a) work effectively in a group during preparation of seminars
b) respect the role of staff and co _ staff members regardless of degree or occupation
c) acquire computer and language skills in preparing case presentations and lectures of performing research
d) decision making and brainstorming skills
e) leadership and teamwork skill

**3-course content**

<table>
<thead>
<tr>
<th>Topics</th>
<th>no of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>surgical anatomy of genito- urinary system</td>
<td>3</td>
</tr>
<tr>
<td>neuroanatomy of lower urinary tract</td>
<td>2</td>
</tr>
<tr>
<td>urinary tract infections (specific – non specific)</td>
<td>6</td>
</tr>
<tr>
<td>male reproduction and infertility</td>
<td>4</td>
</tr>
<tr>
<td>erectile dysfunction</td>
<td>2</td>
</tr>
<tr>
<td>urinary trauma</td>
<td>4</td>
</tr>
<tr>
<td>renal failure</td>
<td>4</td>
</tr>
<tr>
<td>renal transplantation</td>
<td>2</td>
</tr>
<tr>
<td>urinary lithiasis</td>
<td>6</td>
</tr>
<tr>
<td>renal tumors</td>
<td>6</td>
</tr>
<tr>
<td>TCC</td>
<td>6</td>
</tr>
<tr>
<td>urinary diversion</td>
<td>4</td>
</tr>
<tr>
<td>cancer prostate</td>
<td>6</td>
</tr>
<tr>
<td>BPH</td>
<td>4</td>
</tr>
</tbody>
</table>
testicular tumors 4
Adrenals 3
voiding dysfunction 6
pediatric urology 8
external obstruction of the ureter 2
laser in urology 2
urologic surgery 6

4-Student Assessment Methods
4.1 written exam to assess knowledge
4.2 practical exams to assess skills
4.3 oral exams to assess general and transferable skills
4.4 clinical exams to assess skills

Weighing of assessment
Written exam 490
Practical exam 120
Oral exam 120
Clinical exam 120
Total 850

End semester exam 300

Total 1150

5-lists of references
5.1 course notes (papers and electronics)
5.2 essential books (text books)
• Campbell’s urology
• adult and pediatric urology
5.3 periodical
• American journal of urology
• urologic clinics of north America
• British journal of urology

Medical statistics course specification
University: Ain Shams University  Faculty: of Medicine
Course specifications
Program on which the course is given: Master of Science in Urology
Major or minor element of programs: Minor

Department offering the program:
Orthopedics department
Department offering the course:
Community, Environmental and Occupational Medicine
Academic Level:
Master -2nd or 3rd or 4th semester
Date of specification approval: …………………………..

Basic Information

Title: Medical statistics course
Code: E6009
Credit Hours: 1 hour
A credit hour = one hour lecture or practical weekly for 15 weeks

Coordinator
Community, Environmental and Occupational Medicine Department

B - Professional Information

Course Aims:

To enable the doctorate candidate to plan, conduct, analyze and interpret the results of a research in his specific field. This course unit introduces the application of statistical ideas and methodology to medical research.

2- Intended Learning Outcomes (ILOs) from the Course:

Knowledge and understanding
By the end of the course the candidate will be able to:

a1 - Define medical statistics and identify uses and importance of medical statistics in medical research
a2 – Define:
Types of variables.
Descriptive statistics.
Presentation and summarization of data.
Measures of central tendency and scatter.
Principles of probability and probability distributions.
Concepts of inferential statistics: confidence interval and hypothesis testing.
Different tests of statistical significance.
Difference between parametric and nonparametric tests of significance.
Correlation and regression
Concept of statistical modeling using multivariable and multivariate statistical methods.
Combining evidence from different studies and meta-analysis
Importance and methods of sampling and how to determinate the suitable sample size.
Different types of research methodology:
Observational and intervention studies and the different statistical issues related to the design, conduct, analysis and interpretation of the results of each study type.
Ethical aspects of medical research including those specifically applied to clinical trials.

b - Intellectual skills
By the end of the course the candidate will be able to:

b1 - Interpret correctly the results of statistical analyses and critically evaluate the use of statistics in the medical literature.
b2 - Integrate and evaluate information from a variety of sources.

c - Professional skills
By the end of the course the candidate will be able to:

c1 - Select appropriate study designs to address questions of medical relevance
c2 - Select and apply appropriate statistical methods for analyzing data typically encountered in medical applications.
c3 - Use selected software packages for statistical analysis and data management.

d - General and transferable skills
By the end of the course the candidate will be able to:

d1 - Work effectively in a group from different backgrounds.
d2 - Respects the role of staff and co-staff members regardless of degree or occupation.
d3 - Communicate effectively with professional statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations.

d4 - Use of computer data bases and other computer skills.

d5 - Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition, project design and evaluation, risk management, teamwork and coordination.

d6 - Learn independently with open-mindedness and critical enquiry.

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to medical statistics and its uses</td>
<td>1</td>
</tr>
<tr>
<td>Types of variables and Descriptive statistics</td>
<td>1</td>
</tr>
<tr>
<td>Graphic presentation of data</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to probability theory and rules</td>
<td>1</td>
</tr>
<tr>
<td>Sample and population: sampling distribution of mean and proportion</td>
<td>1</td>
</tr>
<tr>
<td>Confidence interval of a mean and a proportion</td>
<td>1</td>
</tr>
<tr>
<td>Confidence interval of a difference between two mean/proportion</td>
<td>1</td>
</tr>
<tr>
<td>Testing a hypothesis about population mean/proportion</td>
<td>1</td>
</tr>
<tr>
<td>Testing a hypothesis about the difference between two means/proportion</td>
<td>1</td>
</tr>
<tr>
<td>Comparing between more than two means-Introduction to factorial analysis</td>
<td>1</td>
</tr>
<tr>
<td>Cross-tabulation and introduction to categorical data analysis</td>
<td>1</td>
</tr>
<tr>
<td>Simple correlation and simple regression</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to multivariable and multivariate analysis</td>
<td>1</td>
</tr>
<tr>
<td>Study designs: observational studies</td>
<td>1</td>
</tr>
<tr>
<td>Study designs: Intervention studies: clinical trials</td>
<td>1</td>
</tr>
<tr>
<td>Study designs: Experimental animal studies</td>
<td>1</td>
</tr>
<tr>
<td>Study designs: Bias and Confounding</td>
<td>1</td>
</tr>
<tr>
<td>Ethical issues in medical research</td>
<td>1</td>
</tr>
<tr>
<td>Sample size estimation for continuous and binary outcome measures.</td>
<td>1</td>
</tr>
<tr>
<td>Meta-analysis and publication bias.</td>
<td>1</td>
</tr>
</tbody>
</table>

T: Tutorial and C/P: Clinical or Practical and SDL: Self directed learning

4 - Student Assessment Methods

4-1 Written exam to assess knowledge and understanding and will concentrate on problem solving questions
4-2 Weighing of assessment

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written exam</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>

5 - List of References

5.1 - Course Notes (paper and / or electronic)
Student Notes on Medical Statistics and Research Methods. Prof. Mohsen Abdel Hamid and Dr Moustafa El Houssinie. Department of Community, Environmental and Occupational Medicine.

5.2 - Essential Books (Text Books)

5.3 - Recommended Books
Handbook of Epidemiology. Springer 2005

5.4 - Periodicals, Web Sites, etc
www.brettscaife.net/statistics/introstat/
onlinestatbook.com/rvls/
Www. Epidemiolog.net
http://www.shef.ac.uk/scharr/spss/

Medical Law Course Specification

University: Ain Shams University   Faculty: of Medicine

Course specifications
Program on which the course is given: Master of Science in Urology
Major or minor element of programs: Minor
Department offering the program: General Surgery
Department offering the course: Department of General Surgery and Forensic Medicine
Academic Level: MD – 4th semester
Date of specification approval: December 2009.

A- Basic Information
Title: Medical Law course       Code: E 7043
Credit Hours: 1 hours       Lecture: 1 h/week    Total: 15 hours

Coordinator:
Department of surgery

B - Professional Information

1- Course Aims:
- Recognition of medical liability issues in surgical practice
- Understanding the legal aspects of surgical practice
- Recognition of the law of medical practice
- Recognition of reporting of issues of legal relevance

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and understanding
By the end of the course the candidate will be able to:
a1 – Discuss the law of the medical profession
a2 – Define the surgical issues of legal importance
a3 – Outline areas and cases of confidentiality
a4- Identify the legal rights of doctors and medical institutions; hospitals, clinics, medical centers, pharmacies, etc…
a5- Describe the legal responsibilities of doctors and medical institutions
a4- Identify the legal steps of medical claims and procedures in case of trial of a doctor

b- Intellectual skills
By the end of the course the candidate will be able to:
b1 - Interpret correctly the legal issues in surgical practice
b2 - Integrate legal considerations in surgical practice
b3- Formulate a consent relevant to the surgical intervention
b4- Integrate the principles of patient privacy and patient-doctor confidentiality in surgical practice

c- Professional skills
By the end of the course the candidate will be able to:
c1- Write a proper medical report
c2- Document surgical procedures and interventions
c3- Communicate an informed consent to the patient
c4- Write an accurate death certificate

d- General and transferable skills
By the end of the course the candidate will be able to:
d1- Work effectively in a group of different backgrounds
d2- Respect the role of staff and co-staff members regardless of degree or occupation
d3- Communicate effectively with professional statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations

d4- Use of computer data bases and other computer skills

d5- Handle data appropriately and analyze them through: decision processes, objective criteria, problem definition, project design and evaluation, risk management, teamwork and coordination

d6- Learn independently with open-mindedness and critical enquiry

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>The medical profession law</td>
<td>3</td>
</tr>
<tr>
<td>Legal issues in surgical practice I</td>
<td>3</td>
</tr>
<tr>
<td>Legal issues in surgical practice II</td>
<td>3</td>
</tr>
<tr>
<td>The legal rights of doctors and medical institutions; hospitals, clinics, medical centers, pharmacies, etc…</td>
<td>3</td>
</tr>
<tr>
<td>The legal responsibilities of doctors and medical institutions</td>
<td>3</td>
</tr>
<tr>
<td>Consent for a surgical intervention</td>
<td>3</td>
</tr>
<tr>
<td>A proper medical report and the Principles of Documentation of surgical procedures and interventions</td>
<td>3</td>
</tr>
<tr>
<td>Patient privacy and patient-doctor confidentiality in surgical practice</td>
<td>3</td>
</tr>
<tr>
<td>The death certificate</td>
<td>3</td>
</tr>
<tr>
<td>The legal steps of medical claims and procedures in case of trial of a doctor</td>
<td>3</td>
</tr>
</tbody>
</table>

L: Lecture, T: Tutorial, C: Clinical and SDL: Self directed learning

4 - Student Assessment Methods
4.1 written exam to assess knowledge and intellectual skills
Weight of Assessment: 50 degrees

5 -- List of References
5.1- Course Notes (paper and / or electronic)
Lecture notes
5.2- Essential Books (Text Books)

-------------------------------
5.3- Recommended Books

5.4- Periodicals, Web Sites, etc

Bioethics course specifications

University: Ain Shams University  Faculty: of Medicine

Course specifications

Program on which the course is given: Master of Science in Urology
Major or minor element of programs: Minor
Department offering the program: General Surgery
Department offering the course: Department of General Surgery
Academic Level: Master – 4th semester
Date of specification approval: December 2009

A- Basic Information
Title: Bioethics  Code: E 7050
Credit Hours: 2 hours
Lecture: 2 h/week  Total: 30 hours
Coordinator
Department of Surgery

B - Professional Information
1- Course Aims:
1- Explain the importance of ethics and law to medical practice
2- Appreciate the influence of values on medical decisions
3- Legal Issues dealing with the law, intentional and quasi-intentional torts, professional liability insurance, informed consent issues and documentation.
4- Ethical issues in health occupations
5- Common areas of liability and litigation that include administrative and medical records, laboratory, medical equipment, patient care and conflict management.

2- Intended Learning Outcomes (ILOs) from the Course:

a- Knowledge and understanding
By the end of the course the candidate will be able to
Acquire the knowledge about:
1) Principles and guidelines of medical ethics
2) Aware of the medical laws of Egypt
3) Weighing between advancement of science and well-being of patients
4) Outline the legal requirements for standard of care

b- Intellectual skills
By the end of the course the candidate will be able to acquire the skills of:
1) Explain the difference between statute and common law and between criminal and civil law
2) Outline the law and professional guidelines on patient confidentiality, distinguishing between statute and common law requirements

c- Professional skills
By the end of the course the candidate will be able to:
1. Explain the circumstances under which a doctor patient relationship exists
2. Describe the requirements of a successful suit for medical negligence
3. Outline Patients' rights
4. Define patient and family responsibilities
5. Identify situations of ethical controversy

d- General and transferable skills
By the end of the course the candidate will be able to:
1-Deal with patients as participants having rights to be respected
2-Respect the role of other doctors in treatment of his patients
3- Communicate effectively with his patients and medical team

e- Practical course:
By the end of the course the candidate will be able to:

1. develop an informed consent both in English and Arabic languages
2. Explain the legal and professional requirements for valid patient consent

3- Course content:

<table>
<thead>
<tr>
<th>Topics</th>
<th>L</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to medical ethics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to legal and professional guidelines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal values and medical decision making</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confidentiality and rights</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duty of care and medical negligence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autonomy and informed consent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data protection and access to records</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human experimentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>Mental health law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Futility and Terminal Care</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

T: Tutorial and C/P: Clinical or Practical and SDL: Self directed learning

**4 - Student Assessment Methods**

4.1 written exam to assess knowledge, skills

**Weighing of assessment**

<table>
<thead>
<tr>
<th>4.1 written exam</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>50</td>
</tr>
</tbody>
</table>

**Essential book**

Medical Ethics & Law: The Core Curriculum

by Tony Hope MA PhD MBBch FRCPsych MFPH, Julian Savulescu BMedSci MB BS MA PhD, Judith Hendrick BA LLM

**Websites**


**Paper writing course specification**

University: Ain shams university  faculty: of medicine

**Course specifications**

Program on which the course is given: master of science in internal medicine

Major or minor element of program: major

Department offering the program: urology department

Department offering the course: physiology department

Academic level: master- 4th semester

Date of specification approval:…………………………

**A-Basic information**

Title: paper writing course  code: E6145

Credit hours: 1 hour  lecture: 1 hour / weak  total: 15 hour

Coordinator

Urology department

**B-Professional information**
1- course Aims:
by the end of the course the candidate should be able to write scientific paper that follow scientific rules and can be presented in conferences and published in different journals

2- intended learning outcomes (ILOs) from the course:

a- knowledge and understanding
by the end of the course the candidate will be able to:
1. Appreciate the importance of scientific publication.
2. Realize the principals of medical research.
3. Know the concept of evidence based medicine

b- intellectual skills
by the end of the course the candidate will be able to:
1. Learn how to evaluate a particular journal and understand the concept of the impact factor.
2. Understand the difference between the peer reviewed and the non peer reviewed journal.
3. Realize the types of scientific publications.

c- Professional skills
by the end of the course the candidate will be able to:
1. Understand the principals of writing an article.
2. Be trained through mini-workshops on writing article components. (e.g. introduction, Materials, Discussion....)
3. Know how to avoid bias and plagiarism in scientific writing.

 d- General and transferable skills
by the end of the course the candidate will be able to
1. Realize the types of scientific publications
2. Learn colleges and juniors how to write scientific paper
### 3-Student assessment methods

Written exam to assess knowledge and understanding

#### Weighing of assessment

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written exam</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>50</td>
</tr>
</tbody>
</table>

### Semester modules

#### 2nd semester

<table>
<thead>
<tr>
<th>Title module 1</th>
<th>code:UR600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hours:</td>
<td>lecture 2/w for 15wk</td>
</tr>
<tr>
<td>Clinical 2/wk</td>
<td>total 30 (1 credit houra)</td>
</tr>
<tr>
<td>Field 9/wk</td>
<td>total 135 (3 credit hours)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topics</th>
<th>no of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>surgical anatomy of genito- urinary system</td>
<td>3</td>
</tr>
<tr>
<td>neuroanatomy of lower urinary tract</td>
<td>2</td>
</tr>
<tr>
<td>urinary tract infections (specific – non specific)</td>
<td>6</td>
</tr>
<tr>
<td>male reproduction and infertility</td>
<td>4</td>
</tr>
<tr>
<td>erectile dysfunction</td>
<td>2</td>
</tr>
<tr>
<td>urinary trauma</td>
<td>4</td>
</tr>
<tr>
<td>renal failure</td>
<td>4</td>
</tr>
<tr>
<td>urinary lithiasis</td>
<td>6</td>
</tr>
</tbody>
</table>

#### 3rd semester

<table>
<thead>
<tr>
<th>Title module 2</th>
<th>code:UR600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hours:</td>
<td>lecture 2/w for 15wk</td>
</tr>
<tr>
<td>Clinical 2/wk</td>
<td>total 30 (1 credit houra)</td>
</tr>
<tr>
<td>Field 9/wk</td>
<td>total 135 (3 credit hours)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topics</th>
<th>no of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>renal transplantation</td>
<td>2</td>
</tr>
<tr>
<td>renal tumors</td>
<td>6</td>
</tr>
<tr>
<td>TCC</td>
<td>6</td>
</tr>
<tr>
<td>urinary diversion</td>
<td>4</td>
</tr>
<tr>
<td>-------------------</td>
<td>---</td>
</tr>
<tr>
<td>cancer prostate</td>
<td>6</td>
</tr>
<tr>
<td>BPH</td>
<td>4</td>
</tr>
<tr>
<td>testicular tumors</td>
<td>4</td>
</tr>
</tbody>
</table>

**4th semester**

Title module 3 code: UR600
Credit Hours: 6 lecture 2/ w for 15wk total 30 (2 credit hours)
Clinical 2/wk total 30 (1 credit hour)
Field 6/wk total 90 (2 credit hours)

<table>
<thead>
<tr>
<th>Topics</th>
<th>no of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>adrenals</td>
<td>3</td>
</tr>
<tr>
<td>voiding dysfunction</td>
<td>6</td>
</tr>
<tr>
<td>pediatric urology</td>
<td>8</td>
</tr>
<tr>
<td>external obstruction of the ureter</td>
<td>2</td>
</tr>
<tr>
<td>laser in urology</td>
<td>2</td>
</tr>
<tr>
<td>urologic surgery</td>
<td>6</td>
</tr>
</tbody>
</table>
VI – Your log book

2 - Supervisors

The candidate will record the details and date of each activity, and the authorized staff member signature.
Candidates are required to fulfill 75% of the listed activities in order to be eligible for the exam entry. The minimum number required for each activity = 75%. You are free to attend more and record your extra attendance.

Weekly Department Plan
(Urology department)

<table>
<thead>
<tr>
<th>Day/time</th>
<th>Saturday</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference</td>
<td>Pediatric unit</td>
<td>Voiding dysfunction</td>
<td></td>
<td>General urology II oncology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>urint General urology I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operative day</td>
<td>General surgery II</td>
<td>Pediatric urology</td>
<td>Gereral urology I</td>
<td>Voiding dysfunction urint Oncology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>urint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinic day</td>
<td>Voiding dysfunction</td>
<td>General surgery I</td>
<td>Oncology unit</td>
<td>Pediatric urint</td>
<td>General</td>
<td></td>
</tr>
<tr>
<td></td>
<td>unit</td>
<td></td>
<td></td>
<td></td>
<td>surgery II</td>
<td></td>
</tr>
</tbody>
</table>

Conferences attendance
(NB. Minimum number required is 5)

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Place</th>
<th>Topics</th>
<th>Supervisor signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Seminars attendance
(NB. Minimum number required is 10)

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Place</th>
<th>Topics</th>
<th>Supervisor signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Thesis attendance
(NB. Minimum number required is 10)

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Place</th>
<th>Name of the thesis</th>
<th>Supervisor signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Clinics attendance
(NB. Minimum number required 40)

<table>
<thead>
<tr>
<th>No</th>
<th>Date</th>
<th>Place</th>
<th>Name of the Clinic</th>
<th>Supervisor signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operative case</td>
<td>assist</td>
<td>date</td>
<td>signature</td>
<td>done</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------</td>
<td>------</td>
<td>-----------</td>
<td>------</td>
</tr>
<tr>
<td>Stone kidney</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stone ureter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transvesical prostatectomy</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uretrovesical implantation</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nephrectomy</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radical cystectomy</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distal penile hypospadias</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undescended Testis</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>Perescope</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percutaneous nephrolithotomy</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DJ application</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cystolithotomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cystolitholapaxy</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 5 - Log book preview

The candidate logbook will be reviewed and patients seen/ skills performed summarized by diagnosis groups during the semester evaluation and at the end of the course in the table below. The results of this review will be totaled in the summary chart below.

For Master of Science

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varicocele</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocelectomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchiectomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testicular Biopsy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient clinic attendance (60)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operative case attendance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conference attendance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thesis attendance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisor signature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
VII - Head of Department Approval for the Exam Entry


VIII – Thesis Follow up

التقرير النصفي السنوي لعام / عن الطالب /
المقيد لدرجة ( ماجستير ) / بقسم /
تقرير السادة الإساتذة المشرفين

<table>
<thead>
<tr>
<th></th>
<th>بدأ</th>
<th>إنهي من الجمع</th>
<th>أشک على الانتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>جمع المادة العلمية و كتابة المقدمة</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>بدأ</th>
<th>إنهي من التحليل</th>
<th>أشک على الانتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>الجزء العملي</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>بدأ</th>
<th>إنهي من التحرير</th>
<th>أشک على الانتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>مناقشة النتائج</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>بدأ</th>
<th>إنهي من المراجعة</th>
<th>أشک على الانتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>المراجعة النهائية مع المشرف</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>رأي السادة المشرفين</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>إستمرار قيد الطالب</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>شطب قيد الطالب</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>تم تشكيل لجنة المناقشة</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>نعم</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>لا</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>توقيع السادة المشرفين</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>وكيل الكلية</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
التقرير النصف السنوي لعام / عن الطالب / المقيد لدرجة (ماجستير) / بقسم / تقرير السادة الإساتذة المشرفين

<table>
<thead>
<tr>
<th>جمع المادة العلمية وكتابة المقدمة</th>
<th>بدأ</th>
<th>بإنهي من الجمع</th>
<th>أوشك على الإنتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>الجزء العملي</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>بدأ</td>
<td></td>
<td>بإنهي من التحليل</td>
<td>أوشك على الإنتهاء</td>
</tr>
<tr>
<td>مناقشة النتائج</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>بدأ</td>
<td></td>
<td>بإنهي من التحرير</td>
<td>أوشك على الإنتهاء</td>
</tr>
<tr>
<td>المراجعة النهائية مع المشرف</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>بدأ</td>
<td></td>
<td>إنتهت تماما</td>
<td>أوشك على الإنتهاء</td>
</tr>
</tbody>
</table>

- رأى السادة المشرفين
  - إستمرار قيد الطالب
  - شطب قيد الطالب

- تم تشكيل لجنة المناقشة
  - نعم
  - لا

- وكيل الكلية
- توقيع السادة المشرفين

/ 56 /
التقرير النصف السنوي لعام / عن الطالب / المقدِّم لدرجة (ماجستير) / بقسم / تقرير السادة الأستاذة المشرفين

<table>
<thead>
<tr>
<th></th>
<th>بدأ</th>
<th>ينطوي من الجمع</th>
<th>أوشك على الإنتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>جمع المادة العلمية وكتابة المقدمة</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>الجزء العملي</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>مناقشة النتائج</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>المراجعة النهائية مع المشرف</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- قطع شوطا محدودا
- إنتهى من التحويل
- أوشك على الإنتهاء

- قطع شوطا محدودا
- أوشك على الإنتهاء

- أوشك على الإنتهاء
- أُنتهت تماما

رأى السادة المشرفين

- إستمرار قيد الطالب
- شطب قيد الطالب

تم تشكيك لجنة المناقشة

- نعم
- لا

توقيع السادة المشرفين

- موقد

- موقد

تاريخ التشكيل /

وكيل الكلية

58
التقرير النصف السنوي لعام / عن الطالب / المقيد لدرجة ( ماجستير ) / بقسم / تقرير السادة الأستاذة المشرفين

<table>
<thead>
<tr>
<th>جمع المادة العلمية وكتابة المقدمة بدأ</th>
<th>أوكس على الانتهاء</th>
</tr>
</thead>
<tbody>
<tr>
<td>قطع شوطا محدودا</td>
<td>إنتهى من الجمع</td>
</tr>
<tr>
<td>الجزء العملي بدأ</td>
<td>أوكس على الانتهاء</td>
</tr>
<tr>
<td>قطع شوطا محدودا</td>
<td>إنتهى من التحليل</td>
</tr>
<tr>
<td>مناقشة النتائج بدأ</td>
<td>أوكس على الانتهاء</td>
</tr>
<tr>
<td>المراجعة النهائية مع المشرف</td>
<td>أوكس على الانتهاء</td>
</tr>
<tr>
<td>انتهى تماما</td>
<td></td>
</tr>
</tbody>
</table>

رآى السادة المشرفين

<table>
<thead>
<tr>
<th>مدق القيمة</th>
<th>استمرار قيد الطالب</th>
<th>شطب قيد الطالب</th>
</tr>
</thead>
</table>

تم تشكيل لجنة المناقشة / لا

تاريخ التشكيل /

وكيل الكلية

توقيع السادة المشرفين
VIII – Evaluation Forms

To be completed at -------------------------------------

Candidate
Supervisor
Location

Aim of training
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Candidate
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Supervisor
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Date of next meeting
Signed by candidate
Signed by Supervisor
Date
VIII – Evaluation Forms

To be completed at -------------------------------------

Candidate
Supervisor
Location

Aim of training
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Candidate
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Supervisor
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Date of next meeting
Signed by candidate
Signed by Supervisor
Date

64
**VIII – Evaluation Forms**

To be completed at ---------------------------

**Candidate**

**Supervisor**

**Location**

Aim of training
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Candidate
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Supervisor
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

*Date of next meeting*

Signed by candidate

Signed by Supervisor

Date
VIII – Evaluation Forms

To be completed at -------------------------------------

Candidate
Supervisor
Location

Aim of training
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Agreed educational objectives and timescale in which objectives should be achieved.
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Candidate
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Comments by Supervisor
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Date of next meeting
Signed by candidate
Signed by Supervisor
Date
Degree Program Evaluation Form by The Candidate
To be completed at the end of your degree.

Please consider each pair of statements and decide which most clearly reflects your view and tick one box or answer the question.

I. Individual Information
1. Are you a graduate of ASU?
   ○ yes ○ no ○ to some degree
2. Year and semester when studies began:

II. General Questions
1. What are the advantages/disadvantages of the general study environment at the University ASU?

2. What were your expectations when you applied to the degree?

3. Do you feel that the degree program prepares you well for your future studies or employment according to the demands and expectations of those institutions?
   ○ yes ○ no ○ to some degree

4. Has the time limit of the program (two or three academic years) caused you any difficulties or inconveniences?
   ○ yes ○ no ○ to some degree

III. Structure of Degree Program
1. Did you receive enough guidance in planning your study schedule in the beginning of the program?
   ○ yes ○ no ○ to some degree

2. What were the main difficulties in the planning of your study schedule?

3. What is your general opinion on the structure of the degree program?
4. In your opinion, does the degree program offer a good balance of lectures, seminars, conferences, and book exams?  
☐ yes ☐ no ☐ to some degree

a) General Studies

i) Do you feel that you have received enough guidance on academic writing?  
☐ yes ☐ no ☐ to some degree

ii) Do you feel that you have acquired sufficient knowledge on research skills (eg. quantitative and qualitative research methods)?  
☐ yes ☐ no ☐ to some degree

b) Courses

i) Have you had some special difficulties in completing some of the courses? Please specify.

ii) Has there been a sufficient variety of courses offered for your optional studies?  
☐ yes ☐ no ☐ to some degree

iii) Have you received enough guidance for the preparation of your thesis?  
☐ yes ☐ no ☐ to some degree

IV. Concluding Points
1. Did the degree program meet your expectations?  
☐ yes ☐ no ☐ to some degree
2. What aspects of the degree program do you particularly like?
3. What aspects of the degree program do you particularly dislike?
4. What are your suggestions on how to improve the program?

Thank you!