



## Course SPECIFICATION

Faculty of Medicine- Mansoura University

Urology

### (A) Administrative information

(1) Programme offering the course.	URL 523
(2) Department offering the programme.	Urology Department
(3) Department responsible for teaching the course.	Urology Department
(4) Part of the programme.	Prof. Dr.
(5) Date of approval by the Department's council	May, 2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Urology
(8) Course code.	URL 523
(9) Credit hours	18 hours
(10) Total teaching hours.	270 theoretical hours

## **(B) Professional information**

### **(1) Programme Aims:**

The general aim of the course is to provide postgraduate students with the knowledge, skills and some attitudes necessary to make an essential urologic framework of the urologist including awareness of the common urologic emergencies.

- 1- Enlist the etiology, diagnosis and treatment of bladder cancer, prostate, renal, pediatric and testicular cancers.
- 2- Describe the main urological emergencies and how to deal with them.
- 3- Define the steps of performing stone surgeries, radical cystectomy, radical nephrectomy, radical prostatectomy and reconstructive urological techniques.
- 4- Practice urology in the outpatient clinic under supervision by the faculty members.
- 5- Study the etiology, diagnosis and treatment of different hypospadias, epispadias, other pediatric diseases, UTI, voiding and continence dysfunction.
- 6- Enlist the main precautions for performing urethral catheterization and digital rectal examination (DRE).
- 7- Get acquainted with the disease of chronic renal failure and the technical and nephrological aspects of renal transplantation.
- 8- Design a research proposal and how to implement and publish it through his thesis, step by step.

### **(2) Intended Learning Outcomes (ILOs):**

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the programme, the candidate will be able to:

#### **A- Knowledge and Understanding**

<b>A1</b>	Describe normal anatomy, anatomic variations and abnormal anatomy of the urinary tract.
<b>A2</b>	Describe the common urological problems, which have a major impact on health in Egypt (Bilharziasis, stone disease, trauma, UTI and bladder cancer).
<b>A3</b>	Enlist the common urogenital anomalies that affect the urinary tract and describe their treatments.
<b>A4</b>	Enlist the common diseases affecting the kidney and urinary tract.
<b>A5</b>	Enumerate the various causes of urinary tract infection, common pathogens and common

	infection routes and risk factors and get a detailed knowledge of the treatment procedures.
<b>A6</b>	Describe the various types of bladder, renal, prostate, testicular, urethral and penile tumors, their pathologies, diagnosis, specific investigations and treatment.
<b>A7</b>	Enumerate the groups of symptoms of the urinary tract and the steps of general, local and DRE examination.
<b>A8</b>	Discuss the mechanisms, diagnosis and treatment of renal injuries.
<b>A9</b>	Discuss the etiology, pathology, diagnosis and treatment of bladder, urethral, ureteric and testicular traumas.
<b>A10</b>	Describe the etiology, pathology, diagnosis and treatment of common pediatric urologic tumors and in particular Wilms' tumor and neuroblastoma.
<b>A11</b>	Enlist the symptoms associated with BPH, methods of diagnosis and treatment.
<b>A12</b>	Enumerate the various groups of drugs used for cancer chemotherapy and immunosuppressive drugs used after renal transplantation.

## 2- Intellectual activities (B)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

<b>B1</b>	Describe the types of donors and technical aspects of renal transplantation.
<b>B2</b>	Differentiate between the various causes of hematuria and put a list of differential diagnosis.
<b>B3</b>	Differentiate between anuria and retention and enlist the various types and causes of these diseases.
<b>B4</b>	Differentiate between the various types of renal and urinary stones, describe the methods of diagnosis and define the indications and contraindications of every treatment option.
<b>B5</b>	Discuss the uses of laparoscopy and robots in urology and the recent trends about their roles.
<b>B6</b>	Discuss and get insight into the differential diagnosis of a bladder mass, TNM staging of bladder cancer and the treatment of nonmuscle invasive and muscle invasive bladder cancer.
<b>B7</b>	Discuss and get insight into the differential diagnosis of a nodular prostate.
<b>B8</b>	Describe the differential diagnosis of a renal mass, TNM staging of renal cancer.

<b>B9</b>	Describe the differential diagnosis of scrotal and testicular masses in different ages. And recent trends in diagnosis and treatment.
<b>B10</b>	Integrate history taking with physical examination and imaging to make the diagnosis of bladder, renal and prostate cancers
<b>B11</b>	Interprets perioperative complications of PCNL and design a plan for their treatments.
<b>B12</b>	Interprets perioperative complications of TURP and design a plan for their treatments.
<b>B13</b>	Construct an algorithm for the management of renal masses.
<b>B14</b>	Evaluate the treatment given to a case of adrenal tumor.

### C- Professional/practical skills

The Postgraduate Degree provides opportunities for candidates to demonstrate the following professional/practical skills:

<b>C1</b>	Perform full history taking and physical examination of urologic patients and record patients ' data appropriately for future use.
<b>C2</b>	Perform suprapubic catheterization, PCN and PCTD fixation under guidance and then unsupported.
<b>C3</b>	Practice ureteroscopy, PCNL, TURP and TURBT, at first supervised and then independently.
<b>C4</b>	Practice radical cystectomy and various urinary diversion techniques.
<b>C5</b>	Evaluate and criticize the different therapeutic techniques for treating urinary stones.
<b>C6</b>	Provide first aid measures for renal colick and urethral, bladder and renal trauma patients in the Emergency Hospital.
<b>C7</b>	Demonstrate ability to conduct the various steps of stopping hematuria and other bleeding types within the urinary tract.

<b>C8</b>	Formulate treatment plans for complicated and uncomplicated urinary tract infections (UTI).
<b>C9</b>	Adopt complete aseptic precautions in dealing with the operating theatre.
<b>C10</b>	Practice the different steps of laparoscopy.

#### D- Communication & Transferable skills

The Postgraduate Degree provides the opportunity to demonstrate the following transferable skills:

<b>D1</b>	Manage live threatening situations and communicate with the patients, relatives and guardians in an effective way.
<b>D2</b>	Describe and practice delivering bad news to the patient.
<b>D3</b>	Direct and lead a group of junior staff.
<b>D4</b>	Perform a good medical report for morbidity and mortality.
<b>D5</b>	Describe and be a model for applying professional and research ethics.
<b>D6</b>	Conduct an effective lecture and presentation according to the known standards.
<b>D7</b>	Conduct a good training for the young colleagues.
<b>D8</b>	Analyze the soft skills that must be practiced by a certified urologist.
<b>D9</b>	Write and publish urological manuscripts related to his researches.

#### (3) Course content:

<b>Topics</b>	<b>Teaching hours (30)</b>
<b>Male Infertility &amp; Erectile dysfunction</b>	<b>1 hour</b>
<b>Female urology</b>	<b>1 hour</b>
<b>Adrenal Tumors</b>	<b>1 hour</b>
<b>Laser in urology</b>	<b>1 hour</b>
<b>Renal Transplant</b>	<b>1 hour</b>

<b>Hypospadias</b>	<b>1 hour</b>
<b>Urodynamics</b>	<b>1 hour</b>
<b>Urolithiasis I</b>	<b>1 hour</b>
<b>Urolithiasis II (Treatment)</b>	<b>1 hour</b>
<b>Urinary tract trauma</b>	<b>1 hour</b>
<b>Benign prostatic hyperplasia</b>	<b>1 hour</b>
<b>Urinary Diversion</b>	<b>2 hour</b>
<b>Prostate Cancer</b>	<b>2 hour</b>
<b>Testicular Tumors</b>	<b>2 hour</b>
<b>Obstructive Uropathy</b>	<b>1 hour</b>
<b>Uro- genital Anomalies</b>	<b>1 hour</b>
<b>Renal Tumors</b>	<b>2 hour</b>
<b>Pediatric Oncology</b>	<b>2 hour</b>
<b>Treatment of Renal Failure</b>	<b>1 hour</b>
<b>Superficial Bladder tumors</b>	<b>1 hour</b>
<b>Muscle invasive bladder cancer</b>	<b>2 hour</b>
<b>Uro -radiology</b>	<b>1 hour</b>
<b>Laparoscopy</b>	<b>1 hour</b>
<b>Urinary tract infections</b>	<b>1 hour</b>

<b>Topics</b>	<b>Clinical hours (27h)</b>
<b>Male Infertility &amp; Erectile dysfunction</b>	<b>1 hour</b>
<b>Female urology</b>	<b>1 hour</b>
<b>Adrenal Tumors</b>	<b>1 hour</b>
<b>Laser in urology</b>	<b>1 hour</b>
<b>Renal Transplant</b>	<b>1 hour</b>
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<b>Uro -radiology</b>	<b>1 hour</b>
<b>Laparoscopy</b>	<b>1 hour</b>
<b>Urinary tract infections</b>	<b>1 hour</b>

### 3.c- References:

#### 3.c.1: Text books:

- Wein A, Kavoussi LR, Novick AC, Partin AW, Peters CA (eds). Campbell-Walsh UROLOGY. 9th edit, Philadelphia, Pa: Saunders Elsevier, 2007.

#### 3.c.2: Websites:

- <http://www.campbellsurology.com/>

#### 3.c.3: Recommended books

\* Adult and Pediatric Urology (3-Volume Set)

Author: Gillenwater, JY, Howards SS, Grayhack JT, Mitchell MM (eds). Adult and pediatric urology. Lippincott Williams & Wilkins, 4th edit, 2002.

### Teaching methods:

4.1: Lecture

4.2: Practical class

4.3: Small group discussion

**(5) Assessment methods.**

**5.1:Written Examination for assessment of knowledge and intellectual ILOs**

**5.2: Structured Oral examination for assessment of knowledge and intellectual ILOs and attitude.**

**5.3:MCQ exam for assessment of knowledge and intellectual skills**

**5.4 Clinical exam (OSCE) for assessment of knowledge and practical skills, communication skills and transferable skills.**

**5.5 Log book for activities for assessment of:** Practical skills which are acquired through attending various conferences, thesis discussions, seminars, workshops, scientific lectures as well as self learning.

**5.6: Seminars:** The candidate should prepare and present at least one seminar in the weekly Journal club in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

**Assessment schedule:**

**Assessment 1:** written exam After 36 months from the start of the job.

**Assessment 2:** Oral exam After 36 months from the start of the job.

**Assessment 3 :** MCQ at the end of the semester (15<sup>th</sup> week)

**Assessment 4 :** Practical tests After 36 months from the start of the job.

**Assessment 5:** The candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

**Percentage of each Assessment to the total mark:**

<b>Written exam:</b>	<b>150 Marks including 20% MCQ</b>
<b>Oral exam:</b>	<b>150 Marks</b>
<b>Clinical exam</b>	<b>150 MARKs</b>



**(6) References of the course:**

**6.1: Text books:**

**6.2: Websites:**

**6.3: Recommended books**

**(7) Facilities and resources mandatory for course completion.**

**A. Lecture hall:** In the Auditorium of UNC and lecture hall of the outpatient clinic (Jehan Street). Each hall is equipped with white board, overhead projector, computer, LCD projector, laser pointers, remote slide advancer, DVD player and wireless phones. It is air conditioned.

**Library:**

The library is located on the ground floor of Urology and Nephrology Center, Mansoura University

**Head of the department:**

Name: .....

.S. All courses' specifications are attached in Appendix III.

Content	Programme ILOs																																																			
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	b1	b2	b3	b4	b5	B6	B7	B8	B9	B10	B11	B12	B13	B14	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6	D7	D8	D9							
Normal anatomy, anatomic variations and abnormal anatomy of the urinary tract.	x																																																			
Common urological problems, which have a major impact on health in Egypt (Bilharziasis, stone disease, trauma, UTI and bladder cancer).		x																																																		
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