



# Course SPECIFICATION Faculty of Medicine – Mansoura University Urology

## (A) Administrative information

(1) Programme offering the course.	URL 623
(2) Department offering the programme.	Urology Department
(3) Department responsible for teaching the course.	Urolo <mark>gy</mark> 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:	MD Urology
(8) Course code:	URL 623
(9) Credit hours	25 hours
(10) Total teaching hours:	375 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

A1	Describe normal anatomy, anatomic variations and abnormal anatomy of the urinary tract.	
A2	Describe the common urological problems, which have a major impact on health in Egypt	
	(Bilharziasis, stone disease, trauma, UTI and bladder cancer).	
A3	Enlist the common urogenital anomalies that affect the urinary tract and describe their	
	treatments.	
A4	Enlist the common diseases affecting the kidney and urinary tract.	
A5	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.
A6	Describe the various types of bladder, renal, prostate, testicular, urethral and penile tumors,
	their pathologies, diagnosis, specific investigations and treatment.
A7	Enumerate the groups of symptoms of the urinary tract and the steps of general, local and
	DRE examination.
A8	Discuss the mechanisms, diagnosis and treatment of renal injuries.
A9	Discuss the etiology, pathology, diagnosis and treatment of bladder, urethral, ureteric and
	testicular traumas.
A10	Describe the etiology, pathology, diagnosis and treatment of common pediatric urologic
	tumors and in particular Wilms' tumor and neuroblastoma.
A11	Enlist the symptoms associated with BPH, methods of diagnosis and treatment.
A12	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:

B1	Describe the types of donors and technical aspects of renal transplantation.
B2	Differentiate between the various causes of hematuria and put a list of differential
	diagnosis.
В3	Differentiate between anuria and retention and enlist the various types and causes of
	these diseases.
B4	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.
B5	Detects 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.
B7	Discuss and get insight into the differential diagnosis of a nodular prostate.
B8	Describe the differential diagnosis of a renal mass, TNM staging of renal cancer.

В9	Describe the differential diagnosis of scrotal and testicular masses in different ages. And recent trends in
	diagnosis and treatment.
B10	Integrate history taking with physical examination and imaging to make the diagnosis of bladder, renal and prostate cancers
B11	Interprets perioperative complications of PCNL and design a plan for their treatments.
B12	Interprets perioperative complications of TURP and design a plan for their treatments.
B13	Construct an algorithm for the management of renal masses.
B14	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:

C1	Perform full history taking and physical examination of urologic patients and record patients data appropriately for future use.
C2	Perform suprapubic catheterization, PCN and PCTD fixation under guidance and then unsupported.
С3	Practice ureteroscopy, PCNL, TURP and TURBT, at first supervised and then independently.
C4	Practice radical cystectomy and various urinary diversion techniques.
C5	Evaluate and criticize the different therapeutic techniques for treating urinary stones.
С6	Provide first aid measures for renal colick and urethral, bladder and renal trauma patients in the Emergency Hospital.
C7	Demonstrate ability to conduct the various steps of stopping hematuria and other bleeding types within the urinary tract.

C8	Formulate treatment plans for complicated and uncomplicated urinary tract infections (UTI).
<b>C9</b>	Write and publish urological manuscripts related to his researches.
C10	Adopt complete aseptic precautions in dealing with the operating theatre.
C11	Practice the different steps of laparoscopy.

## D- Communication & Transferable skills

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

D1	Manage live threatening situations and communicate with the patients, relatives and guardians in an effective way.	
D2	Describe and practice delivering bad news to the patient.	
D3	Direct and lead a group of junior staff.	
D4	Perform a good medical report for morbidity and mortality.	
<b>D</b> 5	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.	
D8	Analyze the soft skills that must be practiced by a certified urologist.	

## (3) Course content:

Topics	<b>Total Teaching Hours (30)</b>
Trauma and urologic emergencies	2 hours
Endourology and urolithiasis	2 hours
Voiding dysfunction and urodynamics	2 hours
Prostate	2 hours
Adrenal and renovascular hypertension	2 hours

Laparoscopy in Urology	2 hours
Reconstructive Surgery	2 hours
Obstructive uropathy	2 hours
Urinary tract infection	2 hours
Urologic Oncology	6 hours
Renal failure and renal transplantation	2 hours
Pediatric urology and congenital anomalies	2 hours
Reproductive and sexual dysfunction	1 hour
Elective courses ( one course / candidate)	
Advanced pediatric urology	1 hour
Advanced endourology	1 hour
Advanced Uro-oncology	1 hour
Advanced Urodynamics	1 hour

Topics	Clinical hours (35h)
Trauma and urologic emergencies	2 Credit hours
Endourology and urolithiasis	2 Credit hours
Voiding dysfunction and urodynamics	2 Credit hours
Prostate	2 Credit hours
Adrenal and renovascular hypertension	2 Credit hours
Laparoscopy in Urology	2 Credit hours
Reconstructive Surgery	2 Credit hours
Obstructive uropathy	2 Credit hours
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Urologic Oncology	6 Credit hours
Renal failure and renal transplantation	3 Credit hours
Pediatric urology and congenital anomalies	3 Credit hours
Reproductive and sexual dysfunction	3 Credit hours
Elective courses ( one course / candidate)	
Advanced pediatric urology	2 Credit hours

Advanced endourology	2 Credit hours
Advanced Uro-oncology	2 Credit hours
Advanced Urodynamics	2 Credit hours

#### 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.

• <a href="http://www.campbellsurology.com/">http://www.campbellsurology.com/</a>

#### 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 ILOs and intellectual
- **5.2: Oral examination for assessment of** knowledge and intellectual ILOs.
- 5.3:MCQ exam for assessment of knowledge and intellectual skills
- 5.4 Clinical exam for assessment of practical skills, clinical communication 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:

Written exam: 330 Marks including 20% MCQ

Oral exam: 100 Marks Clinical exam 200 MArks

## (6) 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 th	e ground floor of Urolog	y and Nephrology Cen	ter, Mansoura
University			
Head of the departm	ent:		
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## .S. All courses' specifications are attached in Appendix III.

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