



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.	Urology Department
(4) Part of the programme.	Prof. Dr. Ahmed Shoma
(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.	Advanced Endourology
(8) Course code.	URL 623 AEN
(9) Credit hours	1 hour
(10) Total teaching hours.	14 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 advanced endourology framework of the urologist.

- 1- Enlist the recent endourologic modalities for management of urinary tract renal stones, tumors, benign strictures and prostatic pathology.
- 2- Describe the technical detail for the endourologic management of complex upper urinary tract stones particularly with the use of percutaneous nephrolithotomy technique.
- 3- Define the role of laser for management of various urologic disorders using endouology approach.
- 4- Define recent advances in the shock wave lithotripsy and the current indications for management of urinary tract stones.
- 5- Practice urologist for advanced endourologic procedures as PCNL for complex stones, laser and bipolar management of small and moderately enlarged prostates.
- 6- Study the resant trends for use of laparoscopy in the management of various urologic disorders.
- 7- Study how to evaluate urologic patient and define disorders sutable for management using endourology and laparoscopy techniques.
- 8- Design a research proposal and how to implement and publish it.

(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

K1	Define and describe the specifications of the endourologic instruments required for management of varies upper and lower urinary tract disorders.
K2	Define and describe the specifications of the laparoscopic instruments required for management of varies upper and lower urinary tract disorders

K3	Get all the scientific information and physics background of laser used for endourology practices.
K4	Get the theoretical background for laparoscopy and its advanced applications in the urologic practice.
K5	Define the theoretical background for the use of shock wave lithotripsy for management of urolithiasis.
K6	Define the basic principles of the robotic surgery in urology.
K7	Describe the robotic assisted procedures used for management of various urologic disorders.

2- Intellectual activities (B)

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

I1	Plan the proper approach for upper urinary tract stones during PCNL.
I2	Differentiate between the proper indication for use of flexible ureteroscope, ESWL, PCNL for management of upper urinary tract calculi.
I3	Differentiate between the different modalities used for management of BPH and choose the proper one according the demographic data of the patients and the prostate specifications.
I4	Plan the proper approach for management of stricture urethra and ureter (whether endourologic or open approach).
I5	Plan the proper laparoscopic management of the renal tumors (radical versus partial nephrectomy).
I6	Differentia between the bladder tumors requiring endourologic or laparoscopic management versus those in need for open intervention.
I7	
I8	
I9	

C- Professional/practical skills

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

P1	Perform full history taking and physical examination of urologic patients requiring endourologic procedure.
P2	Perform suprapubic catheterization, PCN and PCTD fixation under guidance and then unsupported.
P3	Practice ureteroscopy, PCNL, TURP and TURBT, at first supervised and then independently.
P4	Assess in the basic procedures of laparoscopy for management of urologic disorders
P5	Acquires the basic principles for the use of flexible ureteroscopy .
P6	Perform ESWL for management urinary tract stones with special emphasis on use of US for localization
P7	Manage the complications of endourology procedures if any.

D- Communication & Transferable skills

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

T1	Manage live threatening situations and communicate with the patients, relatives and guardians in an effective way.
T2	Describe and practice delivering bad news to the patient.
T3	Direct and lead a group of junior staff.
T4	Perform a good medical report for morbidity and mortality.

T5	Describe and be a model for applying professional and research ethics.
T6	Conduct an effective lecture and presentation according to the known standards.
T7	Conduct a good training for the young colleagues.
T8	Analyze the soft skills that must be practiced by a certified urologist.

(3) Course content:

Topics	Teaching hours Lectures
Instrumentations of the endourology	4 hours
Laser in the endourology	4 hours
Laparoscopy for urologic disorders	3 hours
Robotics in urology	3 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:

- <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 ILOs

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

5.3:MCQ exam for assessment on knowledge and intellectual skills

5.4 Clinical exam for assessment of knowledge and practical 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 (15th 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: 30 Marks including 20% MCQ

(6) References of the course:

6.1: Text books:

6.2: Websites:

(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:

	ILOs																											
	K1	K2	K3	K4	K5	K6	I1	I2	I3	I4	I5	I6	I7	P1	P2	P3	P4	P5	P6	T1	T2	T3	T4	T5	T6	T7	T8	
recent endourologic modalities for management of urinary tract renal stones, tumors, benign strictures and prostatic pathology	x		x	x			x	x	x	x	x	x		x	x	x	x	x	x		x		x	x				
technical detail for the endourologic management of complex upper urinary tract stones particularly with the use of percutaneous nephrolithotomy technique.	x		x					x			x			x	x	x		x	x	x	x	x	x	x	x	x	x	
the role of laser for management of various urologic disorders using endouology approach.			x			x		x	x	x				x	x	x	x	x	x			x	x	x	x			

	ILOs																											
	K1	K2	K3	K4	K5	K6	I1	I2	I3	I4	I5	I6	I7	P1	P2	P3	P4	P5	P6	T1	T2	T3	T4	T5	T6	T7	T8	
recent advances in the shock wave lithotripsy and the current indications for management of urinary tract stones.	x				x		x								x	x	x				x	x	x	x	x	x	x	
advanced endourologic procedures as PCNL for complex stones, laser and bipolar management of small and moderately enlarged prostates	x						x	x	x	x	x	x	x		x		x			x	x	x	x	x	x			
for use of laparoscopy in the management of various urologic disorders				x								x					x			x	x	x	x	x	x	x	x	
urologic patient and define disorders suitable for management																												

	ILOs																										
	K1	K2	K3	K4	K5	K6	I1	I2	I3	I4	I5	I6	I7	P1	P2	P3	P4	P5	P6	T1	T2	T3	T4	T5	T6	T7	T8
using endourology and laparoscopy techniques																											
research proposal design and how to implement and publish it																									x	x	x