# Program Specification for MD Degree: Urology

Program code: URL 623

**Department offering the program: Department of Urology** 

Program Coordinators:	Prof. Attalah Shaaban
	Prof. Bedeir Ali-El-Dein
	Prof. Bassem Wadie
	Dr Yasser Osman
External evaluators:	Prof. Ahmed Hano
	Professor of Urology, Alexandria University

## I. Program aims

The program is a professional degree that enables candidates to master the practice in the area of urology. The candidate should achieve advanced levels of basic knowledge, clinical and surgical skills of all aspects of urology practice, interact with community problems, and promote their medical standards through engaging in continuous medical education. The program also aims to introduce the candidate to advanced level of scientific medical research.

## **II. Intended learning outcomes of the program (ILOs)**

#### A. Knowledge and understanding: By the end of the program the candidate should;

- 1) Recognize all the scientific facts related to Urology including the male and female urinary tract and the male genital system.
- 2) Identify and discuss common & rare surgical problems.
- 3) Distinguish the underlying pathologic processes for common urologic diseases.
- Describe different treatment modalities for common & rare surgical problems, met in urologic practice.
- 5) Understand the basic & advanced concepts of urologic surgeries and the aims to be reached.

#### **B.** Intellectual skills: By the end of the program the candidate should be able to;

- 1) Analyze symptoms & signs and construct a differential diagnosis for common & rare urologic problems
- 2) Design an appropriate diagnostic plan for evaluation of common & rarae urologic problems.

- 3) Interpret the results of urologic investigations and correlate the results together to reach a probable diagnosis.
- 4) Set a treatment plan for the diagnosed problem taking into consideration the risks and benefits as well as cultural and individual needs of the patients.

# C. <u>Professional and practical skills</u>: By the end of the program the candidates should be able independentely to;

- 1) Collect clinical history taking from the patient and master its skills taking into consideration other medical and surgical problems the patient might have.
- 2) Perform detailed examination of the urinary and genital tracts in males and females.
- Perform advanced urologic investigations that help in final diagnosis of urologic problems encountered.
- 4) Evaluate, categorize, and manage all urologic emergencies.
- 5) Perform advanced urologic surgeries to manage all urologic problems.

# D. <u>General and transferable skills</u>: By the end of the program the candidates should be able to;

- 1) Communicate efficiently with patients to acquire important information during history taking.
- 2) Co-operate efficiently with other health care providers.
- 3) Sharpen administrative work skills during running the daily ward activities.
- Sharpen computer skills necessary for using medical databases, preparing medical presentations.
- 5) Sharpen scientific reading and writing skills enabling him to participate in scientific research.
- 6) Sharpen social and communication skills to present clinical cases and scientific arguments.

## III. Academic standards.

#### **External references for standards:**

· The curriculum offered by the European Board of Urology (EBU)

The program also includes some areas of training not mentioned in the aforementioned programs.

## **IV. Program structure and contents.**

الساعات	الكود	Course	المقررات	
المعتمدة				
	URL 601	Surgical Anatomy	التشريح الجراحي	
0	URL 605	Applied Pathology	الباثولوجيا التطبيقية	
			دراسات متقدمة في المجال الطبي:	الفصل الدراسي
			<ul> <li>طرق البحث العلمي</li> </ul>	الأول
			- الاحصاء الطبي	0.317
			- استخدام الحاسب الألي في	
			العلوم الطبية	
				الفصل الدراسي
40	URL 623	Urology	جراحة المسالك البولية	الثاني والثالث
				والرابع
			• برنامج التدريب	كراسة الانشطة
10	URL 623 C		الاكلينيكي والعملي في	
			جراحة المسالك البولية	
			<ul> <li>أنشطة علمية مختلفة</li> </ul>	
10				الرسالة
٦٠			مدة	اجمالي الساعات المعت

المقررات الدراسية وتوزيع الساعات المعتمدة

#### (Ppractical) Training Program

#### · Basic Training:

According to the urology department Faculty of Medicine, Mansoura University Bylaws for Post Graduate Programs, all students should have an advanced surgical training for 48 months. During this period the students will attend the surgical anatomy and applied pathology courses as well as the urology course. They also should choose between elective courses.

#### · MD Thesis:

All MD-degree students should prepare a thesis in Urology. The department and the ethical committees and IRB (Internal review board) must approve the protocol of the research. The thesis may include a review part and a research part. The thesis supervised by one or more senior staff members and may include other specialties according to the nature of the research. The thesis should be evaluated and approved by a committee of three professors including one of the supervisors and an external professor.

#### **Scientific Activities:**

The students should participate in the scientific activities of the departments such as:

- · Journal club once every week.
- · Seminars (including recent topics and controversial issues) once weekly.

Students are expected to participate in the discussions.

- · Scientific meetings arranged by the department
- · Attendance of Thesis discussions
- · Morbidity and mortality reports.

Each activity is monitored and given credit points registered in a special section in the residencytraining logbook. The student should collect the required points before being allowed to sit for final exam.

### V. Regulations for progression and program completion

After collecting the required credit points for the respective courses, the first phase of the urologic training, and the scientific activities, the student will be eligible to sit for the first part examination. In case the student fails to pass the examination, he may proceed in the clinical training and can resubmit for the next examination. After passing the first part, the student submits a protocol for MD Thesis at the beginning of the second part. Before submitting to the final examination he/she should finish the thesis and get approval, complete phase 2 of special training program, and collect the required credit points. The candidate will receive the degree after passing this final examination. MD degree should be obtained within a maximum of 6 years after registration date.

## **VI.** Assessment

#### Supervision & Monitoring of the Training Program:

According to the Faculty of Medicine, Mansoura University Bylaws for Residency Training Programs, professors carry continuous assessment during the program. A training program logbook will be kept for each student to document all his/her clinical, laboratory and/or operative/procedural activities as well as his/her participation in different scientific activities. The head of the department should allow the students to undergo the final examination when they complete their training program and collect the credit points needed.

#### **A:** Assessment Tools:

#### نظام الامتحان وتوزيع الدرجات

الفصل الدراسى الأول

اجمالي	الاختبار	المقرر
۱۰۰	ا د مر ا میں در اور اور اور اور اور اور اور اور اور او	التشريح الجراحي
) • •	اختبار تحريري (ورقتان) مدته ثلاث ساعات	الباثولوجيا التطبيقية

الامتحان النهائى الشامل

اجمالي	الدرجة			الاختبار	المقرر
	إكلينيكي	شفهي	تحريري		
			17.	اختباران تحريريان مدة كل منهما ثلاث ساعات	جراحة المسالك البولية
	۱۰۰	1	+	+ امتحان شفهي + امتحان إكلينيكي+ اختبار عملي	
			17.	(عمليات جراحية ومناظير)	
			٦٠	إختبار تحريري مدته ساعة ونصف	وصف حالة
			۳.	إختبار تحريري مدته ساعة	المقرر الإختيارى
٦٣.				اجمالي الدرجة	

## Curriculum of MD Degree in Genitourinary Surgery Faculty of Medicine, Mansoura University

Students should fulfill a total of 25 Credit Hours:

- 1. Obligatory subjects: 24 Credit Hours.
- 2. Elective Subjects: 1 Credit Hour each

#### **Obligatory Courses:**

	CODE	COURSE	CREDIT HOUR
1	URL-623-1	Trauma and urologic emergencies	2
2	URL-623-2	Endourology and urolithiasis	2
3	URL-623-3	Voiding dysfunction and urodynamics	2
4	URL-623-4	Prostate	2
5	URL-623-5	Adrenal and renovascular hypertension	1
6	URL-623-6	Laparoscopy in urology	2
7	URL-623-7	Reconstructive surgery	1
8	URL-623-8	Obstructive uropathy	1
9	URL-623-9	Infection of the G.U.T	1
10	URL-623-10	Urologic oncology	4
11	URL-623-11	Renal failure and renal transplantation1	
12	URL-623-12	Pediatric urology and congenital anomalies3	
13	URL-623-13	Reproductive and sexual dysfunctions	2

#### **Elective courses**

14	URL 623 -PED	Advanced pediatric urology Course	1
15	URL 623 END	Advanced endourology Course	1
16	URL 623 ONC	Advanced Uro-oncology Course	1
17	URL 623 DYN	Advanced urodynamic course	1

	CODE	CREDIT HOUR	COURSE
1	URL-623-1	1	Trauma and urologic emergencies
	Trauma to th	ne: kidney I, kidne	y II, bladder, ureter, urethra, genitalia.

	CODE	CREDIT	COURSE
		HOUR	
2	URL-623-2	2	Endourology and urolithiasis
	Epidemiology, Mineral metabolism, Pathophysiology I, Pathophysiology II.		
	Medical evaluation I, Medical evaluation II. ESWL: Endo-urological treatment I,		
	Endo-urolog	gical treatment II. S	Surgical treatment I, Surgical treatment II.

	CODE	CREDIT	COURSE
		HOUR	
3	URL-623-3	2	Voiding dysfunction and urodynamics
	Physiology	& pharmacolog	y of bladder & urethra, Pathophysiology &
	classification of voiding dysfunction, female urology and post prostatectomy		
	incontinence	2.	

	CODE	CREDIT HOUR	COURSE
4	URL-623-4	2	Prostate
	Epidemiolo II.	bgy, aetiology, clir	nical evaluation, pathology, treatment I, treatment

	CODE	CREDIT HOUR	COURSE		
5	URL-623-5	1	Adrenal and renovascular hypertension		
	Renovascular hypertension, renovascular surgery & interventional radiology.				

	CODE	CREDIT HOUR	COURSE
6	URL-623-6	2	Laparoscopy in urology
	Basic laparoscopy including anatomical background, physiologic and anesthetic considerations. Port ergonomics, techniques, indications and complications		

	CODE	CREDIT HOUR	COURSE							
7	URL-623-7	1	Reconstructive surgery							
	Basic reconstruction of the renal pelvis, urinary bladder, urethra and genitalia									

	CODE	CREDIT COURSE HOUR								
8	URL-623-8	1	Obstructive uropathy							
	Extrinsic ureteric obstruction, Pathophysiology of upper & lower UT obstruction.									

	CODE	CREDIT HOUR	COURSE									
9	URL-623-9	1	Infection of the G.U.T									
	Incidence, epidemiology, pathogenesis, diagnosis & imaging, infections of UT,											
	drugs pregnancy, prostatitis I, prostatitis II, interstitial cystitis,											
	parasitic dis	ease, fungal infect	ions, T.B.									

	CODE	CREDIT HOUR	COURSE
10	URL-623-10	4	Urologic oncology
	Kidney tumo pathology, I	ors: I, RCC, natura II: treatment, IV: t	reatment of tumors with venous thrombus, V: nours, prostatic cancer, testicular tumours.

	CODE	CREDIT HOUR	COURSE								
11	URL-623-11	1Renal failure and renal transplantation									
	Renal transplantation I: end stage renal disease & treatment options. II										
	Preoperative	e preparation, III: S	Surgical techniques, Vascular urological								
	complications of renal transplantation, rejection after renal transplantation,										
	Immuno-suppression.										

	CODE	CREDIT	COURSE						
		HOUR							
12	URL-623-12	3	Pediatric urology and congenital anomalies						
	Embryology of GUT, congenital anomalies of kidney & ureter, congenital								
	anomalies of	of bladder & urte	thra, congenital anomalies of genitalia, neonatal						
	urological e	mergencies, pediat	ric UT I. I, pediatric UT I. II, VUR.						
	I, VUR. II, J	posterior urethral v	valves, hypospadias I, hypospadias II,						
	exstrophy & epispadias. I, exstrophy & epispadias. II, pediatric urolithiasis,								
	pediatric ner	urogenic & nonnet	progenic voiding dysfunction, enuresis.						

	CODE	CREDIT HOUR	COURSE									
13	URL-623-13	2	Reproductive and sexual dysfunctions									
	reproduction varicocele,	n (testis, epid, vas, treatment, physic	ituitary function Physiology of male male infertility: etiology, evaluation, ology of erection & evaluation of ED, medical ment of ED, priapism.									

	CODE	CREDIT HOUR	COURSE						
14	URL 623 PED	1	Advanced pediatric urology Course						
	<ul> <li>Complex reconstructive procedures in the pediatric patients.</li> <li>Controversies in management of pediatric disorders.</li> </ul>								

	CODE	CREDIT HOUR	COURSE						
15	URL 623 END	1	Advanced endourology Course						
	Complex laparoscopic reconstructive procedures.								
	• Current application of robotic technology in the field of urology.								

	CODE	CREDIT HOUR	COURSE							
16	URL 523 ONC	1	Advanced Uro-oncology Course							
	Mole	cular biology carci	nogenesis							
	• Gene therapy									
	Controversies in management of urologic oncology.									

	CODE	CREDIT HOUR	COURSE					
17	URL 523 DYN	1	Advanced urodynamic course					
	<ul> <li>Female urethral reconstruction.</li> <li>Treatment options of male post prostatectomy incontinence.</li> </ul>							

Content																				
	a1	a2	a3	a4	a5	b1	b2	b3	<b>b</b> 4	C1	C2	C <b>3</b>	24	C5	D1	D2	D3	D4	D5	D6
Trauma and urologic emergencies	x	x	x				x	x	x			x	x	x	x	x	x	x		
Endourology and urolithiasis		x	x	x		x	x	x	x	x	x	x	x	x		x	x	x		
Voiding dysfunction and urodynamics			x	x			x	x		x	x	x	x	x	x	x	x	x		
Prostate	x	x	X	x	x	x	x	x	x		x	x	x	x			x	x		
Adrenal and renovascular hypertension		x	x	x		x	x	x		x	x	x	x	x		x	x			
Laparoscopy in urology		x	x	x		x	x	x			x	x	x	x	x	x	x	x	x	x
Reconstructive surgery		x	x	x		x	x	x	x	x	x	x				x	x	x	x	x
Obstructive uropathy	x	x	x	x		x	x	x	x		x	x	x	x		x	x	x	x	x
Infection of the G.I.T	x	x	x			x	x	x	x	x	x	x	x	x		x	x	x		
Urologic oncology	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x		
Renal failure and renal transplantation		x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x
Pediatric urology and congenital anomalies	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x
Reproductive and sexual dysfunctions	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x
Advanced pediatric urology Course	x	x	x	x			x	x			x	x	x	x		x	x	x		
Advanced endourology Course		x	x	x			x	x	x		x	x	x	x	x	x	x	x	x	x
Advanced Uro-oncology Course	x	x	x	x	x		x	x		x	x	x	x			x	x	x	x	x
Advanced urodynamic course		x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	

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

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