1.	**Course title**	Special surgery - Urology
2.	**Course number**	0506502
3.	**Credit hours**	2 hours out of 12 special surgery
	Contact hours (theory, practical)	Theory: 18 Lectures Practical: 14 days of clinical training, interactive activities, attending clinics, surgeries and urodynamic studies.
4.	**Prerequisites/Corequisites**	Passing 4th year exams
5.	**Program title**	Doctor of Medicine, MD
6.	**Program code**	N/A
7.	**Awarding institution**	The University of Jordan
8.	**School**	School of Medicine
9.	**Department**	Special Surgery Department
10.	**Course level**	Bachelor
11.	**Year of study and semester (s)**	Fifth year
12.	**Other department (s) involved in teaching the course**	None
13.	**Main Learning language**	English
14.	**Learning Types**	☐Face to face learning x☐Blended ☐Fully online
15.	**Online platforms(s)**	☐Moodle x☐Microsoft Teams ☐Skype x☐Zoom ☐ Others
16.	**Issuing/Revision Date**	30/12/2023

17. Course Coordinator:

Name: Dr Adel Alrabadi

Contact hours: Sunday 12 – 2 pm and Tuesday 12- 2pm

Office number: UROLOGY clinic **Phone number:** 00962-777768824

Email: adelrabadi@yahoo.com, a_alrabadi@ju.edu.jo

18. Other instructors:

Prof. Dr. Ghazi Al Edwan. (unpaid leave)

Associate prof. Dr. Adel Alrabadi.

Associate prof. Dr. Saddam Al Demour. (unpaid leave)

Associate prof. Dr. Mohammad abufaraj.

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19. Course Description and Aims:

A- Course Description:

During this two-week rotation within the special surgery course, students will engage in comprehensive learning experiences in urology. The curriculum includes both theoretical (lectures) and clinical aspects. Students will actively participate in clinics, and in-patient management. Additionally, they will have the opportunity to observe surgical procedures in both day case and major theatre settings. The rotation will also feature daily interactive activities to enhance the overall learning experience.

The purpose of this course is to train students who will be able to work independently with a general practice, such as one who works in a District General Hospital or equivalent setting. As such, most of their skills will relate to the management of "everyday" general elective and emergency urology and this forms the basis of the main part of the curriculum.

B- Aims:

This course is aiming to provide the students with knowledge about common urological practice and how to deal with urological emergencies in terms of diagnosis and management.

20. Program Intended Learning Outcomes (PLOs) (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

1. **Demonstrate basic knowledge of normal human structure and function at molecular, genetic, cellular, tissue, organ, system, and whole-body levels in terms of growth, development, and health maintenance. Analyze the basic molecular and cellular mechanisms involved in the causation and treatment of human disease and their influence on clinical presentation and therapy.**

2. **Collect, interpret, document, and communicate accurately a comprehensive medical history, including the psychological and behavioral factors, and a thorough organ-system-specific physical examination inclusive of the mental status of the patient.**

3. **Integrate and communicate collected clinical information in the construction of appropriate diagnostic and therapeutic management strategies to identify life-threatening conditions ensuring prompt therapy, referral, and consultation with relevant disciplines and skillfully perform basic medical procedures for general practice on patients with common illness, acute and chronic, taking into account environmental, social, cultural, and psychological factors.**

4. **Demonstrate in-depth knowledge of the epidemiology and biostatistics of common diseases, and analyze the impact of ethnicity, culture, socioeconomic factors and other social factors on health, disease and individual patient's health care.**

5. **Communicate effectively and professionally, both orally and in writing, with patients, their families, and with other healthcare providers utilizing information technology resources in his/her scholarly activities and professional development with the ability to teach others, and to understand and respect other healthcare professionals 'roles, and apply the principles of multidisciplinary teamwork dynamics and collaboration.**

6. **Apply scientific methods including evidence –based approach to the medical practice including problem identification, data collection, hypothesis formulation, etc., and apply inductive reasoning to problem solving and ensure that clinical reasoning and decision making are guided by sound ethical principles.**

7. **Demonstrate knowledge of scientific research methods and ethical principles of clinical research and be able to write research proposals or research papers.**

8. **Demonstrate professionally the skills needed for Quality improvement, lifelong learning, and continuous medical education including the ability to identify and address personal strength and weakness, self-assess knowledge and performance, and develop a self-improvement plan.**

21. Intended Learning outcomes of the course (CLOs): Upon completion of the course, the student will be able to achieve the following intended learning outcomes:

1. The students will have the knowledge and understanding of the basic urinary tract anatomy, embryology, and physiology as well as the theoretical principles and clinical aspects of urologic conditions.
2. Students should be able to conduct a thorough assessment of the urinary tract through history-taking, clinical examination, and the ability to identify abnormalities.
3. Students will have a comprehensive knowledge of common disorders affecting the urinary system.
4. Students should exhibit competence in selecting appropriate management modalities for various urologic conditions.
5. Students will develop the capacity to make informed clinical decisions based on a comprehensive understanding of patient history, examination findings, and diagnostic results.
6. Students should be able to conduct urologic examinations, procedures, and a few basic diagnostic tests, demonstrating competence in applying theoretical knowledge in a clinical setting.
7. Students will have enhanced counselling and communication skills to effectively interact with patients, families, and healthcare colleagues regarding urologic conditions, fostering clear and empathetic communication.
8. Students will possess the ability to critically evaluate and apply current evidence-based practices in the diagnosis and treatment of urological diseases.

22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program):

Program ILOs / ILOs of the course	CLO (1)	CLO (2)	CLO (3)	CLO (4)	CLO (5)	CLO (6)	CLO (7)	CLO (8)
PLO (1)	✓							
PLO (2)		✓						
PLO (3)			✓					
PLO (4)				✓				
PLO (5)					✓			
PLO (6)						✓		
PLO (7)							✓	
PLO (8)								✓

23. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome (SLO)	Descriptors **	Learning Types (Face to Face/Blended/ Fully Online)	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
1	1.1	**Urological presentations and investigations**	**Learn about the presenting symptoms of urologic conditions.** **Learn about some specific skills in examining the urinary tract and male external genitalia.** **Learn about the various investigations used in urology.** **Additionally, they should appreciate the importance of multidisciplinary collaboration in providing comprehensive patient care.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.2	**Anatomy, physiology and embryology of the genitourinary tract**	**Recall and get in depth understanding of the basic anatomy, embryology and physiology of the genitourinary tract.** **Learn about the importance of the basic knowledge in understanding the clinical conditions of the genitourinary tract.**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*

	1.3	**Genitourinary trauma**	**Understand the mechanism of genitourinary injuries.** **Learn how to identify genitourinary injuries clinically.** **Learn about the proper investigations and radiological studies for each injury.** **Learn about the proper management of the different types of genitourinary injuries.** **Additionally, they should appreciate the importance of team work in providing comprehensive patient care in trauma cases.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.4	**Testicular tumors**	**Understand the epidemiology and risk factors for testicular tumors.** **Learn the presenting symptoms and the signs of testicular tumors.** **Learn about the proper investigations for patients with testicular tumors.** **Learn about the management options for testicular tumors.** **Additionally, they should appreciate the importance of multidisciplinary team work in providing comprehensive patient care in testicular tumor cases.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.5	**Renal transplantation**	**Understand the indications for renal transplantation.** **Understand the criteria for the donors and recipients and the different types of donors.** **Understand and learn about the possible complications of renal transplantation.** **Understand the surgical principles of renal transplant.**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.6	**Prostate cancer**	**Understand the epidemiology and risk factors for prostate cancer.** **Learn the presenting symptoms and the signs of prostate cancer.** **Learn about the proper investigations for patients with prostate cancer.** **Learn about the management options for prostate cancer.** **Additionally, they should appreciate the importance of multidisciplinary team work in providing comprehensive patient care in prostate cancer cases.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*

	1.7	**Male infertility**	**Learn about the causes of male infertility.** **Learn about the proper clinical approach for male infertility.** **Understand the principles of surgical management of male infertility**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.8	**Anatomy of penis. Physiology of erection and impotence**	**Recall and get in depth understanding of the basic anatomy and physiology of the penis.** **Understand the physiology of erection.** **Learn about the causes of erectile dysfunction.** **Learn about the investigations and management options for erectile dysfunction.** **Understand the principles of surgical management of impotence.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	1.9	**Pediatric urology**	**Recall and get in depth understanding of the basic embryology of the genitourinary tract.** **Understand the various urological conditions in pediatrics.** **Understand the principles of surgical management of various congenital anomalies of the genitourinary tract.**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
2	2.1	**Urinary tract infections**	**Identify and classify the different classifications of urinary tract infection.** **Understand the causes and risk factors for urinary tract infection.** **Learn the presenting symptoms of urinary tract infection.** **Learn the diagnostic investigations for urinary tract infection.** **Understand the management options for urinary tract infection.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.2	**Benign prostatic hyperplasia (BPH)**	**Become aware of the pathophysiology of BPH.** **Identify the symptoms and signs of BPH.** **Learn how to differentiate between BPH and prostate cancer.** **Learn about the medical management of BPH.** **Understand the principles of surgical options for the management of BPH.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.3	**Bladder tumors**	**Understand the epidemiology and risk**	K S	Online	Teams	Synchronous	Written exam	*

			factors for bladder tumors. **Learn the presenting symptoms and the signs of bladder tumors.** **Learn about the proper investigations for patients with bladder tumors.** **Learn about the management options for bladder tumors.** **Additionally, they should appreciate the importance of multidisciplinary team work in providing comprehensive patient care in bladder tumor cases.**	C			Lecturing	OSCE exam Attendance Evaluation	
	2.4	**Renal tumors**	**Understand the epidemiology and risk factors for renal tumors.** **Learn the presenting symptoms and the signs of renal tumors.** **Learn about the proper investigations for patients with renal tumors.** **Learn about the management options for renal tumors.** **Additionally, they should appreciate the importance of multidisciplinary team work in providing comprehensive patient care in renal tumor cases.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.5	**Benign scrotal pathologies**	**Learn about the differential diagnosis for benign scrotal swelling.** **Be able to differentiate between the different benign scrotal pathologies.** **Understand the principles of surgical management of benign scrotal pathologies.**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.6	**Hematuria**	**Understand the clinical significance of hematuria.** **Learn about the proper clinical approach for hematuria.** **Learn about the differential diagnosis of hematuria.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.7	**Urinary stone disease**	**Learn about the epidemiology and risk factors for urinary stone disease.** **Understand the presenting symptoms of urinary stone disease.** **Understand the complications of urinary stone disease.** **Understand the principles of surgical management of urinary stone disease.**	K S C	Face to face		Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*
	2.8	**Urinary incontinence**	**Learn about the different types of urinary incontinence.** **Understand the pathophysiology of the**	K S C	Online	teams	Synchronous Lecturing	Written exam OSCE exam	*

			different types of urinary incontinence. **Learn about the management options of urinary incontinence.**					Attendance Evaluation	
	2.9	**Neurogenic bladder and urodynamics**	**Understand the pathophysiology of neurogenic bladder.** **Learn about and understand the urodynamic study** **Learn about the management options for the different types of neurogenic bladder.**	K S C	Online	Teams	Synchronous Lecturing	Written exam OSCE exam Attendance Evaluation	*

** **K: Knowledge, S: Skills, C: Competency**

*** Smith & Tanagho's General Urology, 18th edition. Lecture note urology. The European Association of Urology (EAU) Guidelines. Campbell Walsh Wein Urology.**

24. Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Descriptors**	Period (Week)	Platform
Sub surgery OSCE	30	**Urological presentations and investigations, Anatomy, physiology and embryology of the genitourinary tract, Genitourinary trauma, Testicular tumors, Renal transplantation, Prostate cancer, Male infertility, Anatomy of penis. Physiology of erection and impotence, Pediatric urology, Urinary tract infections, Benign prostatic hyperplasia (BPH), Bladder tumors, Renal tumors, Benign scrotal pathologies, Hematuria, Urinary stone disease, Urinary incontinence, Neurogenic bladder and urodynamics.**	1.1,1.2,1.3,1.4,1.5,1.6,1.7,1.8,1.9,2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9.	K S C	Part of the end of sub surgery course exam	Computer or Paper-based exam
Evaluation including attendance	20	**Urological presentations and investigations, Anatomy, physiology and embryology of the genitourinary tract, Genitourinary trauma, Testicular tumors, Renal transplantation, Prostate cancer, Male infertility, Anatomy of penis. Physiology of erection and impotence, Pediatric urology, Urinary tract infections, Benign prostatic hyperplasia (BPH), Bladder tumors, Renal tumors, Benign scrotal pathologies, Hematuria, Urinary stone disease, Urinary incontinence, Neurogenic bladder and urodynamics.**	1.1,1.2,1.3,1.4,1.5,1.6,1.7,1.8,1.9,2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9.	K S C	At the end of the 2 weeks urology rotation	-
End of year MCQ exam as part of sub	50	**Urological presentations and investigations, Anatomy, physiology and embryology of the genitourinary tract, Genitourinary**	1.1,1.2,1.3,1.4,1.5,1.6,1.7,1.8,1.9,2.1,2.2,2.3,2.4,2.5,2.6,2.7,2.	K S	At the end of each academic	Computer or paper-

surgery exam		**trauma, Testicular tumors, Renal transplantation, Prostate cancer, Male infertility, Anatomy of penis. Physiology of erection and impotence, Pediatric urology, Urinary tract infections, Benign prostatic hyperplasia (BPH), Bladder tumors, Renal tumors, Benign scrotal pathologies, Hematuria, Urinary stone disease, Urinary incontinence, Neurogenic bladder and urodynamics.**	8,2.9.	C	year (usually in June)	based exam
** **K: Knowledge, S: Skills, C: Competency**						

25. Course Requirements

- ✓ Class room Lectures.
- ✓ Seminar room.
- ✓ Internet connection and lecturing tools (Zoom/ Teams. Etc).
- ✓ Outpatient clinics.
- ✓ Inpatient wards.
- ✓ Urology surgery theatres.
- ✓ Urodynamic testing rooms.

26. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- ✓ Morning and evening class room/ online lectures.
- ✓ Interactive activities and case discussions.
- ✓ Inpatient teaching rounds.
- ✓ Outpatient clinics.
- ✓ Seminar discussions.
- ✓ Observation of urologic common surgeries.
- ✓ Attendance of urodynamic studies.

27. Course Policies:

A- Attendance policies:

Attendance will be monitored by the course coordinator. Attendance policies will be announced at the beginning of the course.

Lecture attendance is obligatory. The hand-out and recommended textbook are not comprehensive and additional material will be covered in lectures. Students are responsible for all material covered in lectures and material covered in e-learning discussions**.** Students are not allowed to attend final exam if they exceed the permitted percentage set in the UJ's regulations.

B- Absences from exams and handing in assignments on time:

Will be managed according to the University of Jordan regulations. Refer to http://registration.ju.edu.jo/Documents/daleel.pdf

The student will be allowed to set for a make-up exam (usually essay) if he/she did not attend the exam due to an

acceptable excuse and the excuse was presented in due time as set in the UJ's regulations**.** If he/she did not attend an exam without an acceptable excuse the student's mark for that exam will be zero.

C- Health and safety procedures:

Faculty members and students must at all times, conform to Health and Safety rules and procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this course and also integrity in your behavior in and out of the classroom. Students violate this policy would be subjected to disciplinary action according to University of Jordan disciplinary policies.

Cheating is considered an unacceptable behavior in exams and a reason for unsuccessful course result. Please refer for your Student Guide book for detailed regulations.

E- Grading policy:

Percentage marks are converted to letters.

Grade-point average, Rules are preset by the Faculty and Department Councils.

F- **Available university services that support achievement in the course:**

Availability of comfortable lecture halls, data show, internet service and E learning website https://elearning.ju.edu.jo/ .

Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Moodle e-learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of medicine. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

27. References:

A. Required book (s), assigned reading and audio-visuals:

1. Smith & Tanagho's General Urology, 18th edition.
2. Lecture note urology.
3. The European Association of Urology (EAU) Guidelines.
4. Campbell Walsh Wein Urology.

B. Recommended books, materials, and media:

Web based resources: Up To Date

28. Additional information:

None

Name of Course Coordinator: Dr Adel Alrabadi **Date**: 30/12/2023 **Signature:**

Head of Department: Dr Mutasem Alrabie Signature:

Head of Curriculum Committee/Faculty: Dr Yaser Rayyan - Signature:

Dean: Dr Yaser Rayyan Signature: