كلية الطب
Faculty of Medicine

MINIA UNIVERSITY

Doctorate (MD) Program & Courses' Specifications of UROLOGY

نموذج رقم (١٣)

Program Specification for Doctorate Degree (MD) in UROLOGY

(2022-2023)

University: MINIA

Faculty(s): MEDICINE

Department: UROLOGY

1- Basic Information:

1. Program title: Doctorate Degree (MD) in Urology

(**CODE**: UR100)

2. Final award: Doctorate Degree (MD) in Urology

3. Program type: single.

4. Responsible department: Urology

5. Departments involved in the program: Urology, Public Health and Preventive medicine.

6. Program duration: 3.5 Years.

7. Number of program courses: 5

8. Coordinator:

9. External evaluators:

10. Program management team: All staff members of urology department

2- Program aims:

Graduate of Doctorate Degree in UROLOGY, the candidate should be able to:

1. Resent scientific knowledge essential for the mastery of practice of urology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients including diagnostic, decision making and problem solving and operative skills.
3. Ethical principles related to medical practice.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

3- Intended Learning Outcomes:

3.1. (a) Knowledge and understanding:

By the end of the study of doctorate program in UROLOGY the candidate should be able to:

A.1 Mention the recent advances in the normal structure and function of the human uro-genital system on the macro and micro levels.
A.2 Mention recent advances in the normal growth and development of the human uro -genital system.
A.3 List the recent advances in the abnormal structure, function, growth and development of human uro-genital system
A.4 Define recent advances in the natural history of uro-genital diseases.
A.5 Define recent advances in the causation of uro-genital diseases and their pathogenesis.
A.6 List the clinical picture and differential diagnosis of uro-genital illnesses.
A.7 Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of uro-genital illnesses.
A.8 Describe recent advances in the various therapeutic methods/alternatives used for uro-genital diseases.
A.9 Enumerate recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different drugs for erectile dysfunction
A.10 Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of urology
A.11 Mention the principles and fundamentals of quality assurance of professional practice in the field of urology
A.12 Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.

3.2. (**b) Intellectual skills**

By the end of the doctorate program in UROLOGY the candidate should be able to:

B.1 Interpret data acquired through history taking to reach a provisional diagnosis for uro-genital problems.
B.2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems.
B.3 Conduct research studies, that adds to knowledge.
B.4 Formulate scientific papers in the area of urology
B.5 Define risk in professional practices in the field of urology
B.6 Plan to improve performance in the field of urology
B.7 Interpret uro-genital problems and find solutions.
B.8 Innovate nontraditional solutions to uro-genital problems.
B.9 Mange scientific discussion based on scientific evidences and proofs.
B.10 Criticize researches related to urology.

3.3. Skills:

3.3.1 (c) Professional and practical skills

By the end of the study of doctoral program in UROLOGY the candidate should be able to:

C.1 Master the basic and modern professional clinical and surgical skills in the area of urology
C.2 Write and evaluation of medical reports.
C.3 Evaluate and develop of methods and tools existing in the area of urology
C.4 Perform endoscopic and imaging evaluation of urology
C.5 Train junior staff though continuous medical education
C.6 Perform new methods, tools and ways of professional practice.

3.3.2. (d) General and transferable skills

By the end of the study of doctoral program in UROLOGY the candidate should be able to:

D.1 Present reports in seminars effectively.
D.2 Use appropriate computer program packages
D.3 Teach others and evaluating their performance.
D.4 Assess himself and identify his personal learning needs.
D.5 Use of different sources for information and knowledge.
D.6 Work coherently and successfully as apart of team and team's leadership.
D.7 Mange scientific meetings administration according to the available time.

4- Program Academic Reference Standards

Faculty of Medicine, Minia University adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty Council decree No.6854, in its cession No.177 Dated: 18\5\2009.

-Faculty of Medicine, Minia University has developed the academic standards (ARS) for (MD) program and approved in faculty Council decree No.7528, in its cession No.191, dated: 15\3\2010), and these standards (Faculty ARS) have been updated and approved in faculty Council No.52\2 dated :20\2\2023. {Annex 1}.

Then Urology department has adopted these standards and developed the intended learning outcomes (ILOS) for Master (MD) program in Urology and the Date of program specifications 1st approval by department council:

13\5\2013 and the last date of program specification approval by department council:

6\3\2023 (Annex 2)

5. Program External References

- not applicable

6 - Curriculum Structure and Contents

6. A. Program duration: (3.5 years).

6. B. Program structure:

- No of hours/week:
  - Lecture: 2 hrs./w
  - Practical: 2 hrs. /w
  - Clinical: 2.hrs/w
  - Total hours/week: 6 hrs./w
- Basic sciences (compulsory) courses: No; 4 Percentage 80%
- Basic sciences (optional) courses: No;0 Percentage %0
- Specific courses related to the specialty: No:1 Percentage 20%
- Other courses: No:0 Percentage %0
- Training programs and workshops, field visits, seminars & other scientific activities: Distributed along the whole program.

6. C. Levels of program in credit hours system: Not applicable

6. D. Program courses:

Number of courses: 5

N.B. {Courses' specifications are present in Annex 4} & {Correlations of Program ILOs with courses are present in Annex 5}.

Course Title	Total No. of hours	No. of hours /week			Program ILOs Covered
		Lect.	Practical	tutorial	
FIRST PART (Level of course):					
Use of Computer in medicine	4	2	2		**A11, B3-5-8-9, C2-6, D2-4**
Medical statistics and Research Methodology	4	2	2		**A10-12, B3-4-6-7-9-10 C3-6, D2-5-6**
Surgical anatomy	4	2	2		**A1-2-3, B3-4, C5, D3**

Surgical Pathology		4	2	2		**A1-3-4-5-6, B2-5, C5, D3-5**
Training programs and workshops, field visits, seminars& other scientific activities		Continuous				
SECOND PART (Level of course):						
1. Surgical urology		6	2	2	2	**A1-2-3-4-5-6-7-8-9 B1-2-4-6-7-8-9 C1-3-4-5, D1-3-7**
Training programs and workshops, field visits, seminars& other scientific activities		Continuous				

7- Program Admission Requirements

I. General Requirement

−Candidates should have either:

1. MBBCh Degree from any Egyptian Faculty of Medicine or

2. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.

- Master Degree in urology
- Regulatory rules of postgraduate studies of Minia Faculty of Medicine.

II. Specific Requirements:

- Candidates graduated from Egyptian Universities should have at least

"Good Rank" in their final year /cumulative examination, and grade

"Good Rank" in general surgery Course too.

- Master Degree in urology with at least "Good Rank".
- Candidate should know how to speak & write English well.
- Candidate should have computer skills.

8- Regulations for Progression and Program Completion

Duration of program is (3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (≥6 months):

• Program-related basic science and ILOs & Research Methodology, Biostatistics and computer & SPSS.

• At least six months after registration should pass before the student can ask for examination in the 1st part.

• Two sets of exams: 1st in April — 2nd in October.

• For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.

• Those who fail in one curriculum need to re-exam it only.

Second Part: (≥24 months):

• Program related specialized science of urology Courses and ILOs.

At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.

• Fulfillment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:

• Two sets of exams: 1st in April— 2nd in October.

• At least 60% of the written exam is needed to be admitted to the oral and practical exams.

• 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

Thesis/essay (24-48 months):

Thesis protocol registration is accepted after passing 18 months from registration of MD degree and one year from passing first part exam

Thesis work could start after registration and should be completed, defended and accepted after passing the second part final examination, and after passing pf at least 24 months (2 years) after documentation of the subject of the thesis

Accepting the thesis occurs after publishing 2 thesis based papers in both local and international journals then thesis discussion and this is enough to pass this part.

9. Teaching and learning methods

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)
Lecture	A1, A2, A3, A4, A5, A6, A7, A8, A9,A10, A11, A12 B1, B2, B3, B4, B5, B6, B7, B8, B9, B10

Clinical:
• Case presentation,
• Bedside clinical**;**
  • Practical clinical examination in wards and outpatient clinic
  • Discussion of medical problems
in clinical staff round
	C1, C2, C3, C4, C5, C6

Presentations Journal club **Thesis discussion attendance Training courses Workshops** **Seminars** **Morbidity and mortality conference Other scientific activities requested by the department**	D1, D2, D3, D4, D5, D6, D7

10-Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	A1,A2, A3, A4, A5, A6, A7, A8, A9, B3, B4, B5, B6, B7, B8, B9, B10 C 2 D2,5,6
2. Paper based Exams: • Short essay • MCQs • Complete • True or false and correct the wrong • Commentary • Problem solving	A1, A2, A3, A4, A5, A6, A7,A8, A9,A10, A11,A12 B1, B2, B3, B4, B5, B6, B7, B8, B9, B10
3. Practical/Clinical Exams	C1, C2, C3, C4, C5, C6
4. Seminars, presentations, assignments	D1,D2,D3,D4,D5,D6,D7
5. Oral Exams	A1, A2, A3, A4, A5, A6, A7,A8, A9,A10,A11,A12 B1, B2, B3, B4, B5, B6, B7, B8, B9, B10

Weighing of assessment

	Written	Oral	practical	OSCE	Total
Biostatistics Computer	**60**	**20**	**20**	**-**	**100**
Research Methodology	**60**	**20**	**20**	**-**	**100**
Surgical anatomy	**60**	**20**	**20**	**-**	**100**
Surgical Pathology	**60**	**20**	**20**	**-**	**100**
Surgical urology Curriculum	**60**	**20**	**10**	**10**	**100**

11. Methods of Program Evaluation:

Evaluator (By whom)	**Method/tool**	**Sample**
1. Senior students (Students of last year	Questionnaires	10
2. Graduates (Alumni)	Questionnaires	10
3. Stakeholders	Meeting Questionnaires	2
4. External & Internal evaluators and external examiners	Reports	1
5. Quality Assurance Unit	Reports Questionnaires Site visits	

- **Program Coordinators:**
  Dr Ahmed hakim abdelgawad
- **Head of Department**:
  Prof. Dr. AlAyman Hussein Fathy

Date of program specifications 1st approval by <u>department council</u> 5/2013.

Date of <u>last update</u> & approval by <u>department council</u>: 3\2023

Annex I: Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

برامج الد كتوراه **NAQAAE**	**Faculty** **Doctorate (MD) Program**
1. مواصفات الخريج **:** خريج برنامج الدكتوراه في أي تخصص يجب أن يكون قادرا على **:**	**1. Graduate attributes:** Graduate of doctorate (MD) program in any specialty should be able to:
1.1. إتقان أساسيات ومنهجيات البحث العلمي .	1.1. Mastery of basic research skills and types of study design.
2.1. العمل المستمر علي الإضافة للمعارف في مجال التخصص.	1.2. Contribute to development, application, and translation of new medical knowledge in his scholarly field through research.
3.1. تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة .	1.3. use analytical and critical skills in observing, collecting and interpreting data.
4.1.دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها .	1.4. Integrate biomedical sciences with clinical information to explore scientific basis of medical practice for improvement of management of diseases.
5.1. إظهار وعيا عميقا بالمشاكل الجارية والنظريات الحديثة في مجال التخصص .	1.5. Demonstrate an awareness of current health problems and recent theories in his scholarly field

6.1. تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها .	1.6. Identify and create solutions for occupational problems and medical malpractice conditions.
7.1. إتقان نطاقا واسعا من المهارات المهنية في مجال التخصص	1.7. perform a wide range of professional skills in his scholarly field.

8.1. التوجه نحو تطوير طرق و أدوات و أساليب جديدة للمزاولة المهنية .	1.8. Develop and improve new methods and approaches in the professional medical practice of the specific field.
9.1. استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية	1.9. Use information technology to improve his professional medical practice including online medical information manage information and researches.
10.1. التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة .	1.10. communicate effectively as a member or leader of health care group or other professional group and gain leadership skills.
11.1. اتخاذ القرار في ظل المعلومات المتاحة .	1.11. Make informed decisions based on available data (e.g. patient information, up to date scientific evidence and clinical judgement).
12.1. توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على إيجاد موارد جديدة .	1.12. Effective management, development & improvement of available resources and have the competency to get new resources.
13.1. الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة .	1.13. Be aware of his community needs related to his field and have the ability to improve & maintain health care and carryout system-based improvement.
14.1. التصرف ب ما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة .	1.14. Demonstrate ethical behavior, moral reasoning, honesty, integrity, dependability, and commitment to service and health equity.

1.15.الالتزام بالتنمية الذاتية المستمرة ونقل علمه و خبراته للآخرين .	1.15. Critically reflect on one's own performance to set learning and improving goals and sharing his knowledge.

2.المعايير القياسية العامة: **NAQAAE General Academic Reference Standards "GARS" for MD Programs**	**2. Faculty Academic Reference Standards (ARS) for MD Program**
2.1.المعرفة والفهم: بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	**2.1. Knowledge and understanding:** Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Theories, basics and updated knowledge in his scholarly field and related basic sciences.
2.1.2.أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	2.1.2. Basic, methods and ethics of medical research.
2.1.3.المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1. 3. Ethical and medicolegal principles of medical practice.
2.1.4.مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1. 4. Identify Principles and fundamental of quality in professional medical practice.

2.1.5. المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.
2.2.المهارات الذهنية: بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	**2.2. Intellectual skills:** Upon completion of the doctorate program (MD), the graduate must be able to:

2.2.1.تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها	2.2.1 Analysis and evaluation of information to correlate and deduce from it.
2.2.2. حل المشاكل المتخصصة استنادا على المعطيات المتاحة	2.2.2. Problem solving skills based on analysis of available data for common health problems related to his scholarly field.
2.2.3. إجراء دراسات بحثية تضيف إلى المعارف	2.2.3. Carryout research projects related to his scholarly field.
2.2.4. صياغة أوراق علمية	2.2.4. Write and publish scientific papers.
2.2.5. تقييم المخاطر في الممارسات المهنية	2.2.5. Assess risk in professional medical practice.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments and strategies for improved productivity and performance.
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية مختلفة	2.2.7. Making professional decisions in different professional contexts.

2.2.8. الابتكار/ الإبداع	2.2.8. Demonstrate intellectual curiosity necessary for scientific discovery and innovation through active participation in research.
2.2.9. الحوار والنقاش المبني على البراهين والأدلة	2.2.9. Using Evidence-based strategies to during discussion or teaching others.
2.3. مهارات المهنية : بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على :	**2.3. Professional skills:** Upon completion of the doctorate program (MD), the graduate must be able to:
٢,٣,١. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	2.3.1. Master the basic as well as modern professional practical and/or clinical skills.

2 .2.3. كتابة وتقييم التقارير المهنية	2.3.2. Write and evaluate professional reports.
2 .3.3. تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص	2.3.3. Evaluate and improve the methods and tools in the specific field
2.3.4. استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية	2.3.4. use of technological means to serve Professional practice
5.3.2. التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين .	2.3.5. Planning for the development of professional practice and improve of the performance of others
2.4.المهارات العامة والمنتقلة **:** بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على :	**2.4. General and transferable skills** Upon completion of the doctorate program (MD), the graduate must be able to:
2.4.1. التواصل الفعال بأنواعه المختلفة	2.4.1. Communicate (in writing and orally) effectively and respectfully with peers, faculty, colleagues, and other members of

	the health care team, understanding the role of consultations and referrals.
2.4.2. استخدام تكنولوجيا المعلومات ب ما يخدم تطوير الممارسة المهنية	2.4.2. Use of information technology to serve Professional Practice Development.
2.4.3. تعليم الآخرين وتقييم أداءهم	2.4.3. Demonstrate effective teaching and evaluating others.
4.2.4.. التقييم الذاتي والتعلم المستمر.	2.4.4. Self-assessment and continuous learning.
2.4.5. استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	2.4.5. use physical information resources (print, analog), online (electronic, digital,) text, audio-video, book and journal to address medical questions and knowledge to sustain professional growth
2.4.6. العمل في فريق وقيادة فرق العمل	2.4.6. Work as a member in larger teams and as well as a team leader knows how to develop "teaming strategy" to plan how people will act and work together.
2.4. 7.. إدارة اللقاءات العلمية والقدرة علي إدارة الوقت	2.4.7. Manage of scientific meetings and the ability to manage Time effectively.

Date of the last approval by department council: 3-2023
Head of the department signature:

Annex II : Faculty ARS VS. MD PROGRAM of Urology

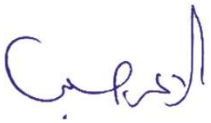
2. Faculty Academic Reference Standards (ARS)	2. Intended Learning Outcomes (ILOs) of MD Program in urology
2.1.Knowledge and Understanding Upon completion of the doctorate Program (MD) in urology, the graduate should have sufficient knowledge and understanding of:	**2.1.Knowledge and Understanding** Upon completion of the doctorate Program (MD) in urology, the graduate should have been able to:
2.1.1. Theories, basics and updated knowledge in scholar field and related basic sciences	A.1. Mention the recent advances in the normal structure and function of the human uro-genital system on the macro and micro levels. A.2 Mention recent advances in the normal growth and development of the human uro -genital system. A.3 List the recent advances in the abnormal structure, function, growth and development of human uro-genital system
2.1.2. Basic, methods and ethics of medical research.	A.10 Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of urology
2.1. 3. Ethical and medicolegal principles of medical practice	A.12 Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.
2.1. 4. Principles and basics of quality in professional practice	A.11 Mention the principles and fundamentals of quality assurance of professional practice in the field of urology
2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health	A.4 Define recent advances in the natural history of uro-genital diseases. A.5 Define recent advances in the causation of uro-genital diseases and their pathogenesis. A.6 List the clinical picture and differential diagnosis of uro-genital illnesses. A.7 Enumerate recent advances in the common diagnostic and laboratory

	techniques necessary to establish diagnosis of uro-genital illnesses. A.8 Describe recent advances in the various therapeutic methods/alternatives used for uro-genital diseases. A.9 Enumerate recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different drugs for erectile dysfunction
2.2.Intellectual skills Upon completion of the doctorate program (MD), the graduate must be able to:	**2.2. Intellectual skills** Upon completion of the doctorate program (MD) in urology, the graduate must be able to:
2.2.1 Analysis and evaluation of data and correlation of relevant basic and other science to solve problems.	b.1. Interpret data acquired through history taking to reach a provisional diagnosis for uro-genital problems.
2.2.2. Problem solving skills based on analysis of available data for common health problems.	b.2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems
2.2.3. Carryout research studies .	b.3. Conduct research studies, that adds to knowledge.
2.2.4. Writing scientific papers.	b.4 Formulate scientific papers in the area of urology b.10 Criticize researches related to urology.
2.2.5. Risk evaluation in professional medical practice	b.5. Define risk in professional practices in the field of urology
2.2.6. Planning for performance & professional improvement	b.6. Plan to improve performance in the field of urology
2.2.7. Professional Decision making in various professional situations	b.7. Interpret uro-genital problems and find solutions.
2.2.8. Creation and innovation	b.8. Innovate nontraditional solutions to uro-genital problems.
2.2.9. Evidence-based discussion	b.9. Mange scientific discussion based on scientific evidences and proofs.
2.3.Professional skills Upon completion of the doctorate program (MD) , the graduate must be able to:	**3.2. Skills:** **3.2.1. Professional & Practical skills** Upon completion of the doctorate program (MD) in urology, the graduate must be able to:

2.3.1. Master the essential as well as recent professional practical and/or clinical skills	c.1. Master the basic and modern professional clinical and surgical skills in the area of urology
2.3.2. Write and evaluate reports .	c.2. Write and evaluation of medical reports
2.3.3. Evaluate and improve the methods and tools	c.3. Evaluate and develop of methods and tools existing in the area of urology
2.3.4. Use efficiently the different technological tools to help the professional practice	c.4. Perform endoscopic and imaging evaluation of urology
2.3.5. Plan for development of professional practice and master skills of performance advancement of others	C.5 Train junior staff though continuous medical education C.6 Perform new methods, tools and ways of professional practice.
2.4.General & Transferable Skills Upon completion of the doctorate program (MD), the graduate must be able to:	**3.2.2. General & Transferable Skills** Upon completion of the doctorate program (MD) in urology, the graduate must be able to:
2.4.1. Demonstrate effective communication skills in all its forms	d.1. Present reports in seminars effectively
2.4.2. Use competently information technology (IT) to improve the professional medical practice	d.2. Use appropriate computer program packages
2.4.3. Demonstrate skills of teaching and evaluating others	d.3. Teach others and evaluating their performance.
2.4.4. Demonstrate skills of self-evaluation and continuous medical education	d.4. Assess himself and identify his personal learning needs.
2.4.5. Use competently all information resources to get relevant knowledge and information	d.5. Use of different sources for information and knowledge.
2.4.6. Demonstrate skills of leadership as well as working as a team member	d.6. Work coherently and successfully as apart of team and team's leadership.
2.4.7. Demonstrate competencies of leading scientific meetings and skills of effective time management	d.7. Mange scientific meetings administration according to the available time

Date of the last approval by department council: 3-2023

Head of the department signature:



Annex III : Matrix of Coverage of MD Program ILOs By Courses

Courses (List of courses in 1st and 2nd parts)	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
1. Use of computer in medicine	A11	B3-5-8-9	C2,6	D2,4
2. Medical statistics and Research Methodology	A10,12	B3,4,6,7,9,10	C3,6	D2,5,6
Surgical anatomy	A 1, 2,3	B 3,4	C 5	D 3

Surgical Pathology	**A1-3-4-5-6**	**B2,5**	**C 5**	**D 3,5**
Surgical urology	**A1-2-3-4-5-6-7-8-9**	**B1-2-4-6-7-8-9**	**C1-3-4-5**	**D1-3-7**

Date of the last approval by department council: 3-2023
Head of the department signature:

Annex IV : Matrix of Coverage of Program ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,2,3,4,5,6,7,8,9,10,11,12	B1,2,3,4,5,6,7,8,9,10		
Clinical			C1,2,3,4,5,6	
Presentation				D1,2,3,4,5,6,7
Journal club				D1,2,3,4,5,6,7
Thesis discussion				D1,2,3,4,5,6,7
Training courses & workshops				D1,2,3,4,5,6,7
Seminar				D1,2,3,4,5,6,7

Date of the last approval by department council: 3-2023
Head of the department signature:

Annex V : Matrix of Coverage of Program ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge& Understanding	**B. IntellectualSkills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	A1,2,3,4,5,6,7,8 ,9,10,11,12	B1,2,3,4,5,6,7, 8,9,10		
Clinical exam			C1,2,3,4,5,6	
Oral Exam	A1,2,3,4,5,6,7,8 ,9,10,11,12	B1,2,3,4,5,6,7, 8,9,10		D4, D5
Assignments				D1,2,3,4,5,6,7
Other: group discussion, seminars, presentations,				D1,2,3,4,5,6,7

Date of the last approval by department council: 3-2023

Head of the department signature:

Course specification of :

"Use of Computer in Medicine"

in MD degree

University: Minia

Faculty: Medicine

Department offering the course: Public health and preventive medicine department

Department offering the programme: Urology department

Programme(s) on which the course is given: First part MD for all postgraduates

Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level: **First part MD**	Course Title: **Use of Computer in Medicine**	Code: **CM 100**
• **Number of teaching hours:** - **Lectures:** 20 hours - **Practical/clinical:** 10 hours - **Total:** 30 hours		
2. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Recognize knowledge about the software and their applications in Medicine 2. Gain skills necessary for using and managing heath care information systems	
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A. Knowledge and understanding	A.1. Define each part of computer hardware and its function A.2. Discuss various computer applications in medicine - for instruction, information managing, and computer based medical record, etc. A.3. Define telemedicine and its importance	

	A.4. Recognize importance of health information technology in improvement of healthcare A.5. Describe electronic medical records and obstacles facing it A.6. Identify the concept of big data analysis
B. Intellectual Skills	B.1. Criticize adoption of telemedicine B.2. Discover factors constraining adoption of telemedicine
C. Professional and Practical Skills	C.1. Design framework for understanding of health information system performance
D. General and transferable Skills	D.1. Utilize computers in conducting research D.2. Appraise adoption of telemedicine D.3. Discover skills to carry out the process of improving health information system performance

4. Course Contents

Topic	**No. of hours**	**Lecture**	**Tutorial/ Practical**
Use of Computer in Medicine			
General concepts Introduction to Microsoft PowerPoint	6	4	2
Health Information Systems (HIS)	6	4	2
Telemedicine	6	4	2
Software Used in the Health Care	6	4	2
Big Data Analysis in Health	6	4	2
Total	**30**	**20**	**10**

5. Teaching and Learning Methods

Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online

Online learning materials are available at Minia University site

- Lectures: Face to face lectures, Pre-recorded video lectures
- Practical lessons

	▪ Assignment ▪ Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	• Outstanding student rewarded certificate of appreciation due to high level of achievement • Limited students divided into small group to make learning more effective
7. Student Assessment	
A. Student Assessment Methods	7.1- **Research assignment:** to assess general transferable skills, intellectual skills. 7.2- **Written exams:** • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. 7.3- **Practical Exams:** to assess practical skills, intellectual skills. 7.4- **Oral Exams:** Oral exams to assess knowledge and understanding, attitude, communication 7.5- **Structured oral exams:** to assess knowledge.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
C. Weighting of Each Method of Assessment	Final Written Examination 100% Oral Examination 100% Practical Examination 100% Total 100%
8. List of References	
A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition
C. Recommended Textbooks	Data Management and Analytics for Medicine and Healthcare: Begoli, Edmon, Fusheng Wang, and Gang Luo. Springer, 2017.
D. Periodicals, websites	- National Institutes of Health: http://www.nih.gov

	- American Medical Informatics Association: http://www.amia.org/

- **Course Coordinators:**

  ➢ **Coordinators:**

  1) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

  ٢)**Assistant coordinator: Assistant lecture Shaza Fadel**

- **Head of Department**:

  Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

نموذج رقم (١١)

أكاديمية :المنيا/جامعة

معهد: الطب / كلية

الوقائي قسم: الصحة العامة والطب

Use of Computer in Medicine	**مسمى المقرر**
CM 100	**كود المقرر**

Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Week No.**	**Intended Learning Outcomes (ILOs)**			
		A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
		A	**B**	**C**	**D**
Use of Computer in Medicine					
General concepts Introduction to Microsoft PowerPoint		A.1, A.2,			D.1

Health Information Systems (HIS)		A.4, A.5		C1	D.3
Telemedicine		A.3	B.1, .2		D.2
Software Used in the Health Care		A.5, A.6			D.1
Big Data Analysis in Health		A.6			

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Lecture	A.1 to A.6	B.1,		
Practical			C1	
Assignment	A.4	B.2		D1.D.2,D3

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written paper based exam	A.1, to A.6	B.1		
Practical computer exam (For SPSS, PowerPoint)			C1	D.1
Oral Exam	A.4, A..6	B.2	C.1	D.2, D.3

Course Coordinators:

2) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

٢)Assistant coordinator: Assistant lecture Shaza Fadel

- **Head of Department**:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

Course specification of:

"Medical Statistics and Research Methodology"

In MD degree

University: Minia

Faculty: Medicine

Department offering the course: Public health and preventive medicine department

Department offering the programme: Urology department

Programme(s) on which the course is given: First part MD for all postgraduates

Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level: **First part MD**	Course Title: **Medical Statistics and Research Methodology**	Code: **CM 100**
Number of teaching hours: - **Lectures:** 30 hours - **Practical/clinical:** 15 hours - **Total:** 45 hours		
2. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision making skills. 2. Apply ethical principles of scientific research with good awareness about patient´s rights.	

	3. Use precisely the research methodology in researches 4. Influence the students to adopt an analytical thinking for evidence-based medicine 5. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data 6. To use precisely computer programs SPSS, Epi Info and Excel in data analysis
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A. Knowledge and understanding	A.1. Define terms of research methodology . A.2. Describe the spectrum of research methodology . A.3. Explain tie strategies and design of research . A.4. Describe the study design, uses, and limitations . A.5. Explain evidence-based Medicine A.6. Define causation and association . A.7. Tell the principles and fundamentals of ethics. A.8. Describe the different sampling strategies A.9. Summarize the advantages and disadvantages of different sampling strategies

	A.10. Summarize different methods of samples size calculation A.11. Recognize the sources and the recent methods in data collection and analysis. A.12. Identify the types of variables A.13. Identify types of tabular and graphic presentation of data A.14. Describe the normal curves and its uses A.15. Identify the characters of normal distribution curve A.16. Identify measures of central tendency and measures of dispersion A.17. Explain regression analysis, its use and differentiate its types A.18. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests A.19. Explain the usefulness of screening tests
B. Intellectual Skills	B.l. Apply research methods to different community health problems. B.2. Apply appropriate research strategies for use . B.3. Select appropriate research methods . B.4. Teach and advocate appropriately in the research

	design. B.5. Describe the normal curves B.6. Describe and summarize data B.7. Select the proper test of significance for a specific data. B.8. Interpret selected tests of significance and the inferences obtained from such tests
C. Professional and Practical Skills	C.1. Plan a research proposal for community diagnosis. C.2. Design questionnaires. C.3. Conduct research. C.4. Judge association and causation. C.5. Criticize for bias and confounding factors C.6. Design data entry file C.7. Validate data entry C.8. Manage data files C.9. Construct tables and graphs C.10. Calculate different samples sizes C.11. Calculate measures of central tendency and measures of dispersion C.12. Calculate sensitivity, specificity, and predictive values
D. General and transferable Skills	D.l. Lead a research team to conduct a specific study .

	D.2. Take part and work coherently with his associates to in research. D.3. Write scientific papers. D.4. Appraise scientific evidence D.5. Analyze and interpret data D.6. Use standard computer programs for statistical analysis effectively

4. Course Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Research methods			
Introduction : - Introduction to research. - Terminology and Rationale - Originality		3	
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		4	
- Sources of Errors in Medical Research **- Bias and confounding and its Control.**		3	
- Validity and reliability		2	
- The questionnaire design		2	
- Writing the Research Paper or Manuscript		2	2

- Protocol Writing			
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
Statistics			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		**30**	**15**
5. Teaching and Learning Methods	**Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online** **Online learning materials are available at Minia University site**		

	▪ Lectures: Face to face lectures, Pre-recorded video lectures ▪ Practical lessons ▪ Assignment ▪ Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	• Outstanding student rewarded certificate of appreciation due to high level of achievement • Limited students divided into small group to make learning more effective
7. Student Assessment	
D. Student Assessment Methods	7.1- **Research assignment:** to assess general transferable skills, intellectual skills. 7.2- **Written exams:** • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. 7.3- **Practical Exams:** to assess practical skills, intellectual skills.

	7.4- **Oral Exams:** Oral exams to assess knowledge and understanding, attitude, communication 7.5- **Structured oral exams:** to assess knowledge.
E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
F. Weighting of Each Method of Assessment	- Final Written Examination 100% - Oral Examination 100% - Practical Examination 100% - Total 100%
8- List of References	
A. Course Notes/handouts	- Department notes, lectures and handouts
B. Essential Books	- The Lancet Handbook of Essential Concepts in Clinical Research
C. Recommended Textbooks	***Research methods:*** - **Introducing Research Methodology**; A Beginner's Guide to Doing a Research Project

	- **Understanding Clinical Research**, Renato Lopes and Robert Harrington; ISBN-10: 0071746781 | ISBN-13: 978-0071746786 - **Users' guides to the medical literature: a manual for evidence-based clinical practice:** Guyatt, G., D. Rennie, M. Meade and D. Cook (2002), AMA press Chicago. - **Research Methods in Community Medicine:** Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition Joseph Abramson, Z. H. Abramson ***Computer:*** - Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage. - Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd EditionEveritt, Brian S. - Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021.

	- Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley & Sons, 2019. - Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd , ed., Philadelphia
D. Periodicals, websites	- https://phrp.nihtraining.com/users/login.php - http://www.jhsph.edu/ - Journal of Biomedical Education - https://lagunita.stanford.edu/courses/Medicine/MedStats-SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEqqUjLjk8TCR7lzPdnpGqwin06L-GjFq32a62w3j6R5s9c

- **Course Coordinators:**

  ➢ **Coordinators: Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud**

  Assistant Coordinator: Assis .lecturer Shaza Fadel

  Head of Department: **Professor Dr. Nashwa Nabil Kamal**

Date of last update & approval by department council: 6 / 3 / 2023

نموذج (١١)

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الصحة العامة والطب الوقائي

Medical Statistics and Research Methodology	**مسمى المقرر**
CM 100	**كود المقرر**

Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Week No.**	**Intended Learning Outcomes (ILOs)**			
		A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
		A	**B**	**C**	**D**
Introduction : - Introduction to research. - Terminology and Rationale - Originality		A.1, A.2,			
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		A.3, A.4,	B.l, B.2, B.3, B.4,	C.1,	
- Sources of Errors in Medical Research **- Bias and confounding and its Control.**			B.3,	C.5	

- Validity and reliability					
- The questionnaire design				C.2,	
- Writing the Research Paper or Manuscript **- Protocol Writing**			B.3,	C.3,	D.1, D.2, D.3
- Critic technique for the literature review					
- Association and causation		A.6,		C.4,	
- Evidence -based approach in medical practice		A.5,			
- Ethics of medical research		A.7			
Statistics					
Sampling		A.8, A.9, A.11			D.4
Introduction to Sample Size Calculation		A.10		C.10	D.4
Data presentation		A.13, A.14	B.6	C.9	D.4
Tests of significance		A.15, A16	B.5	C.11	D.4
Introduction to SPSS		A.12	B.6	C.6, C7, C8	D.5, D.6
Proportion test		A.11	B.7, B8		D.5, D.6
Chi-square test		A.11	B.7, B8		D.5, D.6
Student T test, Paired T test		A.11	B.7, B8		D.5, D.6
ANOVA test		A.11	B.7, B8		D.5, D.6
Correlation (simple and multiple)		A.11	B.7, B8		D.5, D.6
Regression		A.17	B.7, B8		D.5, D.6
Screening		A.18, A.19	B.7, B8	C.12	D.4

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Lecture	A.1, A.2, A.3, A.4, A.5, A.6, A.7 , A.8,A9,A10,A11,A12,A13 A.14, A.15, A.16,A17, A.18	B.1, B.2, B.3, B.4, B5,B.6, B.7, B.8		
Practical			C1, C.3, C4, C.5, C.6, C.7, C.8. C.9, C.10, C11,C.12	
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8, C.9, C.10, C.12	D.1, D.2., D.4, D.5, D.6

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written paper based exam	A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.14, A.15, A16, A18	B.3, B.5,		
Practical exam (Statistical exam)			C.1, C.2, C.5, C.6, C.7,C.8, C.9, C.10, C.11, C.12	
Oral exam	A.10, A11, A.12, A13, A.15, A.16, A.17, A18	B.1, B.2, B.6, B.7, B.8		D.1, D.2, D.5, D.6

- **Course Coordinators:**

➢ **Coordinators:**

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

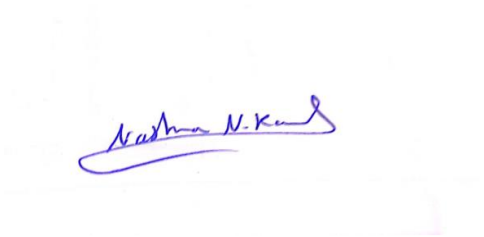
Assistant Coordinator: Assis .lecturer Shaza Fadel

Head of Department:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6 / 3 / 2023



Test blueprint for Uses of computer in Medicine course

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (Percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Use of Computer in Medicine							
General concepts Introduction to Microsoft PowerPoint	4	20%	6	4	2	30%	30%
Health Information Systems (HIS)	4	20%	4	4		20%	15%
Telemedicine	4	20%	6	2	4	25%	30%
Software Used in the Health Care	4	20%	5	4	1	20%	15%
Big Data Analysis in Health	4	20%	1	1		5%	10%
Total	20	100%	20			100%	100%

Test blueprint for Medical statistics and Research methodology course

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Research							
Introduction: - Introduction to research. - Terminology and Rationale - Originality	3	10%	5	4	1	7%	5%
- Study design	4	13.3%	8	3	5	17%	17%
- Sources of Errors in Medical Research - Bias and confounding and its Control.	3	10%	4	2	2	13%	10%
- Validity and reliability	2	6.67%	3	2	1	7%	5%
- The questionnaire design	2	6.67%	3	1	2	5%	5%
- Writing the Research Paper or Manuscript - Protocol Writing	2	6.67%	4	1	3	13%	10%
- Critic technique for the literature review	2	6.67%	2	1	1	7%	5%
- Association and causation	1	3.33%	3	2	1	7%	8%
- Evidence -based approach in medical practice	2	6.67%	1	1		3%	5%
- Ethics of medical research	2	6.67%	2	2		3%	6%
Statistics							
Sampling	1	3.33%	2	1	1	4%	4%

Introduction to Sample Size Calculation	1	3.33%	1	1		2%	2%
Data presentation	1	3.33%	3	2	1	5%	4%
Tests of significance	2	6.67%	2	1	1	8%	8%
Introduction to SPSS	1	3.33%	1	1		3%	3%
Screening	1	3.33%	2	1	1	3%	3%
Total	**30**	**100%**					**100%**

3-Course Specifications of Human Anatomy and Embryology in MD degree in urologyUniversity: Minia

Faculty: Medicine

Department: Urology Department

1- Course Information		
• **Academic Year/level:** first part	• **Course Title:** **Human Anatomy and Embryology**	• **Code**: UR 100
• **Number of teaching hours:** - **Lectures:** Total of 20 hours;1 hours/week - **Practical/clinical:** Total of 10 hours; 2 hours/week		
2- Overall Aims of the course	*By the end of the course the student should be able to have the have the professional knowledge anatomy and embryology of urinary and male genital systems*	
3- Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A- Knowledge and Understanding	a.1 Mention the recent advances in the normal structure and function of the human uro-genital system on the macro level a.2 List recent advances in the normal growth and development of the human uro -genital system. a.3 List the recent advances in the abnormal structure, function, growth and development of human uro-genital system a.4 Discuss basis of anatomy of abdomen, pelvis and retroperitoneal space.	
B- Intellectual Skills	b.1 Formulate scientific papers in the area of urology b.2 Conduct research studies, that adds to knowledge.	
C- Professional and Practical Skills	c.1 Train junior staff though continuous medical education	
D- General and transferable Skills	d. 1 Appreciate the importance of lifelong learning and show a strong commitment to it. d.2 Teach others and evaluating their performance.	

E- Course Contents			
Topic	No. of hours	Lecture	Tutorial/Practical
Introduction	2	٢	٠
Surgical anatomy (descriptive, functional and applied) of urinary system	٣	٢	١
Development of urinary system	٣	٢	١
congenital anomalies of urinary tract	٢	١	١
Morbid anatomy in urological trauma (renal, ureteral, urethral injury)	2	١	١
Pelvic anatomy in male and female)health, disease (	2	٢	٠
Surgical anatomy for renal exploration	2	1	1
Testis microcirculation	2	٢	٠
Penile vascular anatomy for impotence	2	١	١
ureteral anatomy in relation to pelvic surgery and its vascular supply	2	1	1
anatomy of anterior wall and hernia repair	2	1	1
anatomy of posterior abdominal wall	2	٢	٠
Revision	4	2	2
Total	30	20	10
F- Teaching and Learning Methods	4.1- Lectures 4.2- Practical lessons 4.3- Assignment 4.4 attending and participating in scientific conferences, workshop		
G- Teaching and Learning Methods for students with limited Capacity			
H- **Student Assessment**			

A. Student Assessment Methods	*5.1final written exam to assess Knowledge, .understanding and intellectual skills* *final oral exams to assess understanding and 52 .intellectual skills* *5.3 final practical exam to assess practical skills.*
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 21-22 Assessment 2: Oral exam week: 22-23 Assessment 3: Practical exam week: 23-24
C. Weighting of Each Method of Assessment	Final Written Examination 60 **%** Oral Examination 20 **%** Practical Examination 20% Total 100%
I- List of References	
A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	Grays Anatomy
C. Recommended Text Books	A colored Atlas of Human anatomy and Embryology.
D. Periodicals, websites	American journal of Anatomy and Embryology

- **Program Coordinators:**
  Dr Ahmed hakim abdelgawad
- **Head of Department**:
  Prof. Dr. AlAyman Hussein Fathy

Date of last update & approval by department Council:

3 / 2020

نموذج رقم (١١أ)

مسمى المقرر	Anatomy and Embryology course
كود المقرر	UR 100

جامعة/أكاديمية : .....المنيا.....

كلية / معهد: .....الطب البشري.....

قسم: .....جراحه المسالك البولية.....

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Introduction	1-2-3	1-2	1	1-2

Surgical anatomy (descriptive, functional and applied) of urinary system	**1-2**	**1-2**	**1**	**1-2**
Development of urinary system	**1-2**	**1-2**	**1**	
congenital anomalies of urinary tract	**1-2**	**1-2**		**1-2**
Morbid anatomy in urological trauma (renal, ureteral, urethral injury)	**1-2**	**1-2**	**1**	**1-2**
Pelvic anatomy in male and female (health, disease)	**1-2**	**1-2**	**1**	**1-2**
Surgical anatomy for renal exploration	**1-2**	**1-2**	**1**	**1-2**

Testis microcirculation	**1-2**	**1-2**		
Penile vascular anatomy for impotence	**1-2**	**1-2**		**1-2**
ureteral anatomy in relation to pelvic surgery and its vascular supply	**1-2**	**1-2**	**1**	
anatomy of anterior wall and hernia repair	**1-2**	**1-2**	**1**	**1-2**
anatomy of posterior abdominal wall	**1-2**	**1-2**	**1**	**1-2**
Revision	**1-2-3-4**	**3-4**	**1**	**1-2**
Total	**30**			

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	1-2-3-4			
Practical		1-2	1	
Assignment				1-2

B. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	1-2-3-4	1-2		
Practical exam			1	
Oral Exam	1-2-3-4	1-2		

Blueprint of Anatomy and Embryology course (MD Examination paper)						
Contents (List of course topics)	**Hours**	**% of Topic**	**Knowledge %**	**Intellectual %**	**Mark**	**Actual Mark**
1- Introduction	٢	**6.٥%**	١٠٠	٠	٣	٣
2- Surgical anatomy (descriptive, functional and applied) of urinary system	٣	١١%	٧٠	٣٠	٦	٦
3- Development of urinary system	٣	١١%	**7٠**	٣٠	٦	٦

4- congenital anomalies of urinary tract	٢	٦,٥%	٨٠	٢٠	٣	٣.
5- Morbid anatomy in urological trauma (renal, ureteral, urethral injury)	٢	٦,٥%	٧٠	٣٠	٣	٣
6- Pelvic anatomy in male and female)health, disease (	٢	٪٦,٥	٨٠	٢٠	٤	٤
7- Surgical anatomy for renal exploration	**2**	٦,٥%	**٧0**	**٣0**	٣	٣
8- Testis microcirculation	٢	٦,٥%	٨٠	٢٠	٣	٣
9- Penile vascular anatomy for impotence	٢	٦,٥%	٧٠	٣٠	٣	٣

10- ureteral anatomy in relation to pelvic surgery and its vascular supply	٢	٦,٥%	٥٠	٥٠	٣	٣
11- anatomy of anterior wall and hernia repair	٢	٦,٥%	٦٠	٤٥	٤	٤
12- anatomy of posterior abdominal wall	٢	٦,٥%	٨٠	٢٠	٣	٣
١٣- Revision	٤	١٣%	١٠٥	0	٦	٦
Total	٣٠	**100%**			٥٠	٥٠

4 - Course Specification of Pathology in MD degree in urology

Faculty: Medicine

Department: **Urology Department**

1- Course Information		
• **Academic Year/level:** first part	• **Course Title:** **Pathology**	• **Code**: UR 100
• **Number of teaching hours:** - **Lectures:** Total of 35 hours;1 hours/week - **Practical/clinical:** Total of 10 hours; 2 hours/week		
2- Overall Aims of the course	*By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of urological diseases.*	
3- Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A- Knowledge and Understanding	a1. Identify basis of general and systemic pathology. a2. Illustrate etiology, pathogenesis and pathologic manifestation of diseases of urinary system & male genital system. a3. Correlate gross and histopathology with the clinical basis of diseases of urinary system & male genital system. a4. List the fate and complications and prognosis of different diseases of urinary system & male genital system. a5. Mention core knowledge of processes affecting urological system, with an emphasis on understanding mechanisms of disease especially urinary system & male genital system. a6. Define and discuss the main disease categories that may affect the body (General pathology; wound healing, fluid balance, septic shock & blood transfusion).	
B- Intellectual Skills	b1. Interpret in a professional manner a pathology report in urology. b2. Able to solve pathological problems in urology. b3. Data interpretation.	

C- Professional and Practical Skills	c1. Identify the macroscopic and microscopic criteria of the altered structure (Pathology) of the body and its major organs and systems that are seen in various diseases. c2. Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, and degenerative) and mechanisms of diseases and the way through which they operate in the body (pathogenesis). c3. Train junior staff though continuous medical education
D- General and transferable Skills	d. 1 Appreciate the importance of lifelong learning and show a strong commitment to it. d.2 Teach others and evaluating their performance.

E- Course Contents

Topic	No. of hours	Lecture	Tutorial/Practical
1 -General Pathology:			
1.1 .Inflammation, wound healing & repair .	٢	2	
1.2 .Cell response to injury .	١	1	
1.3 .Disturbances of circulation; hemorrhage	٢	2	
& septic shock .	٢	1	
1.4 .Bacterial infection and tuberculosis .	١	1	1
1.5 .Parasitic diseases and mycotic diseases	١	1	
1.6 .Disturbances of cellular growth .	١	1	
1.7 .General pathology of tumors .	١	1	
1.8 .Genetic diseases .	١	1	
1.9 .Diagnostic cytology			
2 -Kidney & urinary passages:	٢		
2.1 .Congenital anomalies of kidney &	١	2	
ureter.	٢	1	
2.2 .Diseases of renal tubules .	٢	1	1
2.3 .Diseases of interstitial renal tissue	٢	1	1
)pyelonephritis & pronephros's .(	٢	1	1
2.4 .Hydronephrosis.	١	1	1
2.5 .Renal calculi .	١	1	
2.6 .Tumors of the kidney .	٢	1	
2.7 .Bladder diverticula .	٢	1	1
2.8 .Cystitis & urolithiasis .	٢	1	1
2.9 .Tumors of the urinary bladder .		2	
2.10 .Hematuria & pyrea .			
2.11 .Renal failure & uremia .			
3 -Male genital system:	٢		
3.1 .Congenital anomalies of MGS .	٢	2	1

3.2 .Prostatitis & gonorrhea. 3.3 .Benign prostatic hyperplasia . 3.4 .Testicular tumors 3.5 .Tumors of the prostate . 3.6 .Hydrocele, varicocele & varicocele . 3.7 .Tumors of the penis . 3.8. Male infertility.	٢ ٢ ٢ ٢ ١ ١	2 1 1 1 2 1 1	1 1
Total	45	35	10
F- Teaching and Learning Methods	4.1- Lectures 4.2. Gross and histopathology (Jars & slides).		
G- Teaching and Learning Methods for students with limited Capacity			
H- **Student Assessment**			
D. Student Assessment Methods	٥،١ Written examination to assess knowledge & understanding. ٥،٢ Practical examination on slides & jars to assess intellectual skills. ٥،٣ Oral examination to assess understanding & attitude. ٥،٤ Observation of attendance and absenteeism.		
E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam Assessment 2: Oral exam Assessment 3: Attendance and absenteeism		
F. Weighting of Each Method of Assessment	Final Written Examination 60 **%** Oral Examination 20 **%**		

	Practical Examination & attendance and absenteeism % 20% Total 100%
I- List of References	
E. Course Notes/handouts	Principles of General and Special Pathology; Gamal Nada.
F. Essential Books	Muir's text book of pathology. • Robbins pathologic basis of diseases
G. Recommended Text Books	•Rosi &Ackerman text book of pathology. • Sternberg text book of pathology.
H. Periodicals, websites	American journal of pathology Human pathology Web Sites: http://www.ncbi.nlm.nih.gov/pubmed

- **Program Coordinators:**
  Dr Ahmed hakim abdelgawad
- **Head of Department**:
  Prof. Dr. AlAyman Hussein Fathy

Date of last update & approval by department Council:
3 / 2020

نموذج رقم (١١أ)

مسمى المقرر	Pathology
كود المقرر	UR 100

جامعة/أكاديمية : .....المنيا.....

كلية / معهد: .....الطب البشري.....

قسم: .....جراحه المسالك البولية.....

C. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
1.1. Inflammation, wound healing & repair.	**1-3-4-5-6**			

1.2. Cell response to injury.	1-3-4-5-6	**2-3**		
1.3. Hemorrhage & septic shock.	1-3-4-5-6	**2-3**		
1.4. Bacterial infection and tuberculosis.	1-3-4-5-6			
1.5. Parasitic diseases and mycotic diseases	1-3-4-5-6			**1-2**
1.6. Disturbances of cellular growth.	1-3-4-5-6	**2-3**	**1,2,3**	
1.7. General pathology of tumors.	**1-3-4-5-6**	**1**	**1,2,3**	**1-2**
1.8. Genetic diseases.	**1-3**	**2-3**	**1,2,3**	**1-2**
1.9. Diagnostic cytology	**1-3-4**	**2-3**	**1,2,3**	**1-2**
٢،١Congenital anomalies of kidney & ureter.	**1-3-4-5-6**	**2-3**	**1,2,3**	

2.2. Diseases of renal tubules.	**1-2-3**	**1-2-3**		
2.3. Diseases of interstitial renal tissue (Pyelonephritis & pronephros's).	**1-3-4-6**	**1-2-3**	**1-2-3**	**1-2**
2.4. Hydronephrosis.	**1-3-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.5. Renal calculi.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.6. Tumors of the kidney.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.7. Bladder diverticula.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.8. Cystitis & urolithiasis.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.9. Tumors of the urinary bladder.	**5-6**	**1-2-3**	**1-2-3**	**1-2**
2.10. Hematuria & pyre.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
2.11. Renal failure & uremia.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**

3.1. Congenital anomalies of MGS.	**1-3-4-5-6**			**1-2**
3.2. Prostatitis & gonorrhea.	**1**	**1-2-3**	**1-2-3**	**1-2**
3.3. Benign prostatic hyperplasia.	**4-5-6**	**1-2-3**	**1-2-3**	**1-2**
3.4. Testicular tumors	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
3.5. Tumors of the prostate.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
3.6. Hydrocele, varicocele & varicocele.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**1-2**
3.7. Tumors of the penis.	**1-3-4-**	**1-2-3**	**1-2-3**	**1-2**
3.8. Male infertility.	**1-3**	**1-2-3**	**1-2-3**	**1-2**
Total	**45**			

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	1-2-3-4-5-6	1-2-3		
Practical			1-2	
Assignment				1-2

D. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	1-2-3-4-5-6	1-2-3		
Practical exam			1-2	
Oral Exam	1-2-3-4-5-6	1-2-3		

Blueprint of Pathology course (MD Examination paper)						
Contents (List of course topics)	**Hours**	**% of Topic**	**Knowledge %**	**Intellectual %**	**Mark**	**Actual Mark**
1 -General Pathology:		**26.5%**			**13**	**13**
1.1 .Inflammation, wound healing & repair .	٢		70	30	**2**	**2**
1.2 .Cell response to injury .	١		70	30	**1**	**1**
1.3 .Disturbances of circulation; hemorrhage & septic shock .	٢		80	20	**2**	**2**
1.4 .Bacterial infection and tuberculosis .	٢		50	50	**2**	**2**
	١		80	20	**1**	**1**

1.5 .Parasitic diseases and mycotic diseases	١		80	20	**1**	**1**
1.6 .Disturbances of cellular growth .	١		70	30	**1**	**1**
1.7 .General pathology of tumors .	١		80	20	**1**	**1**
1.8 .Genetic diseases .	١		70	30	**2**	**2**
1.9 .Diagnostic cytology						
2 -Kidney & urinary passages:		**42%**			**21**	**21**
2.1 .Congenital anomalies of kidney & ureter.	٢		70	30	**2**	**2**
2.2 .Diseases of renal tubules .	١		80	20	**2**	**2**
2.3 .Diseases of interstitial renal tissue)pyelonephritis & pronephros's .(	٢		60	40	**2**	**2**
2.4 .Hydronephrosis.	٢		80	20	**2**	**2**
2.5 .Renal calculi .	٢		80	20	**2**	**2**
2.6 .Tumors of the kidney .	٢		70	30	**2**	**2**
2.7 .Bladder diverticula .	١		80	20	**1**	**1**
	١		70	30	**1**	**1**

2.8 .Cystitis & urolithiasis .	٢		60	4٠	**2**	**2**
2.9 .Tumors of the urinary bladder .	٢		70	30	**3**	**3**
2.10 .Hematuria & pyrea .	**2**		60	40	**2**	**2**
2.11 .Renal failure & uremia						
3 -Male genital system:		**31.5%**			**16**	**16**
3.1 .Congenital anomalies of MGS .	2		**70**	**30**	**2**	**2**
3.2 .Prostatitis & gonorrhea.	٢		**60**	**40**	**2**	**2**
3.3 .Benign prostatic hyperplasia .	٢		**80**	**20**	**2**	**2**
3.4 .Testicular tumors	٢		**70**	**30**	**2**	**2**
3.5 .Tumors of the prostate .	٢		**60**	**40**	**2**	**2**
3.6 .Hydrocele, varicocele & varicocele .	٢		**80**	**20**	**3**	**3**
3.7 .Tumors of the penis .	١		**60**	**40**	**1**	**1**
3.8. Male infertility.	١		**70**	**30**	**2**	**2**
Total	**45**	**100%**			٥٠	٥٠

5-Course Specifications of surgical urology in MD degree in urology

Faculty: Medicine

Department: Urology Department

<table>
<tr><td colspan="3">1- Course Information</td></tr>
<tr><td>• Academic Year/level: second part</td><td>• Course Title:
surgical urology</td><td>• Code: UR 100</td></tr>
<tr><td colspan="3">• Number of teaching hours:
- Lectures: Total of 15 hours;1 hours/week
- Practical/clinical: Total of 30 hours; 2 hours/week</td></tr>
<tr><td>2- Overall Aims of the course</td><td colspan="2">The end of the course the student should be able to have the have the professional knowledge anatomy and embryology of urinary system</td></tr>
<tr><td colspan="3">3- Intended learning outcomes of course (ILOs):
Upon completion of the course, the student should be able to:</td></tr>
<tr><td>A- Knowledge and Understanding</td><td colspan="2">Upon completion of the doctorate program (MD) in Urology the graduate must be able to:
A. 1 Mention the recent advances in the normal structure and function of the human uro-genital system on the macro and micro levels.
A.2 Identify recent advances in the normal growth and development of the human uro -genital system.
A.3 List the recent advances in the abnormal structure, function, growth and development of human uro-genital system
A.4 List the recent advances in the natural history of uro-genital diseases.
A.5 List recent advances in the causation of uro-genital diseases and their pathogenesis.
A.6 List the clinical picture and differential diagnosis of uro-genital illnesses.</td></tr>
</table>

	A. 7 Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of uro-genital illnesses. A.8 Describe recent advances in the various therapeutic methods/alternatives used for uro-genital diseases. A.9 Describe recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different drugs for erectile dysfunction A. 10 Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of urology A. 11 Identify the principles and fundamentals of quality assurance of professional practice in the field of urology A. 12 Define the effect of professional practice on the environment and the methods of environmental development and maintenance.
B- Intellectual Skills	Upon completion of the doctorate program (MD) in Urology the graduate must be able to: B. 1 Interpret data acquired through history taking to reach a provisional diagnosis for urn-genital problems. B.3 Conduct research studies, that adds to knowledge. B.4 Formulate scientific papers in the area of urology B.5 Assess risk in professional practices in the field of urology B.6 Plan to improve performance in the field of urology B. 7 Interpret uro-genital problems and find solutions. B.8 Innovate nontraditional solutions to uro-genital problems. B.9 Mange scientific discussion based on scientific evidences and proofs. B. 10 Criticize researches related to urology
C- Professional and Practical Skills	Upon completion of the doctorate program (MD) in Urology the graduate must be able to : C. 1 Master the basic and modern professional clinical and surgical skills in the area of urology C.2 Write and evaluation of medical reports.

	C.3 Evaluate and develop of methods and tools existing in the area of urology C.4 perform endoscopic and imaging evaluation of urology C.5 Train junior staff though continuous medical education C.6 Perform new methods, tools and ways of professional practice
D- General and transferable Skills	Upon completion of the doctorate program (MD) in Urology the graduate must be able to : D. 1 Present reports in seminars effectively. D.2 Use appropriate computer program packages D.3 Teach others and evaluating their performance. D.4 Assess himself and identify his personal learning needs. D.5 use of different sources for information and knowledge. D.6 Work coherently and successfully as apart of team and team's leadership. D. 7 Mange scientific meetings administration according to the available time

4- Course Contents

Topic	Lecture hours	Practical hours	ILOS
1-Urological manifestations and investigations	1	-	A6, A7, B1, C1, D1, D5, D7
2-Specific genito-urinary infections	1	-	A5, A6, A7,B1, C1, D1, D5, D7
3-Congentinal anomalies of kidney and ureter	1	1	A1, A2, A3, B3, B4, C1, D1, D5, D7
4-Nonspecific UTIs	1	-	A5, A6, A7, B3, B4, C1, D1, D5, D7
5-Congenital anomalies of testes and genitalia	1	1	A1, A2, A3, B3, B4, C1, D1, D5, D7
6-Upper and lower UT obstruction and renal failure	1	-	A6, A7, A8, B3, B4, C1, D1, D5, D7
7-Stones	2	1	A6, A7, A8, B3, B4, C1, D1, D5, D7

8-Urological emergency	1	1	A6, A7, A8, B3, B4, C1, D1, D5, D7
9-Infertility	1	1	A6, A7, A8, B3, B4, C1, D1, D5, D7
10-Erectile dysfunction	1	1	A9, B3, B4, C1, D1, D5, D7
11-Urological trauma	1	-	A6, A7, A8, B3, B4,C1, C5, D1, D5, D7
12-Renal tumors	1	1	A6, A7, A8, B3, B4, C1, C4, C5, D1, D5, D7
13-Urinary bladder cancer	1	1	A6, A7, A8, B3, B4, C1, C4, C5, D1, D5, D7
14-Prostatic cancer	1	1	A6, A7, A8, B3, B4, C1, C4, C5, D1, D5, D7
15-Testicular tumors	1	1	A6, A7, A8, B3, B4, C1, C4, C5, D1, D5, D7
Total	16	10	

II- **CLINICAL** (25 Hrs.):
1 .History taking, conducting clinical examination, diagnosing & suggesting investigations in different urological patients and discussing these cases with staff members in study.
2 .Sharing in pre-operative preparation of urology patients.
3 .Observing post-operative patients in the department of urology & sharing in their management.
4 .Studying surgical instruments, jars, suture materials & x-rays.
III- **SURGICAL** (25 Hrs.);
The candidates should share in surgical lists in the department of urology as assistants & surgeons, and be trained on performing abdominal incisions, closing the abdominal wound, doing some operations

E- Teaching and Learning Methods	4.1- Lectures. 4.2- Practical lessons: Operative rounds – Outpatient clinic – case discussion 4.3- Assignments for the students to empower and assess the general and transferable skills

F- Teaching and Learning Methods for students with limited Capacity	
G- **Student Assessment**	
A. Assessment tools/methods أدوات التقييم	**1.** **Written exam** to assess the acquired knowledge & understanding in urology as well as intellectual skills and essential professional skills. **2.** **Oral exam** to assess the student intellectual and communication skills regarding basic urology and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course. **3.** **Practical exam :** to test the candidates on the basis of their performance in urological cases evaluation and assessment and ability to apply the theoretical knowledge to the actual practical state. **4.** **OSCE exam** : multipurpose evaluative tool that can be utilized to evaluate candidates in a clinical setting. It is comprised of several "stations" in the form of : - models - x-ray and CT KUB films - data show pictures - surgical instruments - urological endoscopes and catheters The candidates are expected to perform a variety of clinical tasks within a specified time period .The OSCE is used to evaluate ability to obtain/interpret data, problem-solve, communicate, and handle unpredictable patient behavior.
B. Timetable/schedule: المواعيد	**Assessment 1: written paper based exam** by the end of course. **Assessment 2: Oral exam,** after the written exam. **Assessment 3: Practical exam :**after the oral exam **Assessment 4 : OSCE exam** : after the practical exam.
C. Weighting of Each Method of Assessment درجات	**Type of Assessment** **Degree** **Written** paper based examination (60 %) **Oral** examination. (20%) **Practical exam** (10 %) OSCE (10 %)

D. External evaluator comments: (if present) ملاحظات المراجع الخارجي (إن وجدت)	**Focused on urological issues and avoid redundant curriculum**
H- List of References : Campbell Walch urology 11th edition **I- Smith endourology 4th edition**	
I. Course Notes/handouts	Staff lectures
J. Essential Books	Campbell Walch urology 11th edition
K. Recommended Text Books	•A colored Atlas of Human anatomy and Embryology.
L. Periodicals, websites	American journal of urology

- **Program Coordinators:**
  Dr Ahmed hakim abdelgawad
- **Head of Department**:
  Prof. Dr. AlAyman Hussein Fathy

Date of <u>last update</u> & approval by department Council:

3 / 2020

نموذج رقم (١١أ)

مسمى المقرر	Surgical urology
كود المقرر	UR 100

جامعة/أكاديمية : .....المنيا.....

كلية / معهد: .....الطب البشري.....

قسم: .....جراحه المسالك البولية.....

E. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
1-Urological manifestations and investigations	1-2-3-4-5-6-7-8-9-10-11-12	1-2-3-4-5-6-7-8-9-10	1-2-3-4-5-6	1-2-3-4-5-6-7

2-Specific genito-urinary infections	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
3-Congentinal anomalies of kidney and ureter	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
4-Nonspecific UTIs	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
5-Congenital anomalies of testes and genitalia	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
6-Upper and lower UT obstruction and renal failure	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**

7-Stones	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
8-Urological emergency	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
9-Infertility	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
10-Erectile dysfunction	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
11-Urological trauma	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
12-Renal tumors	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
13-Urinary bladder cancer	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**

14-Prostatic cancer	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
15-Testicular tumors	**1-2-3-4-5-6-7-8-9-10-11-12**	**1-2-3-4-5-6-7-8-9-10**	**1-2-3-4-5-6**	**1-2-3-4-5-6-7**
Total	**100**			

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	1-2-3-4-5-6-7-8-9-10-11-12	1-2-3-4-5-6-7-8-9-10		
Practical			1-2-3-4-5-6	
Assignment				1-2-3-4-5-6-7

F. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	1-2-3-4-5-6-7-8-9-10-11-12	1-2-3-4-5-6-7-8-9-10		
Practical exam			1-2-3-4-5-6	
Oral Exam	1-2-3-4-5-6-7-8-9-10-11-12	1-2-3-4-5-6-7-8-9-10		

II- Blueprint of surgical urology (MD Examination paper)

Contents (List of course topics)	Hours	% of Topic	Knowledge %	Intellectual %	Mark	Actual Mark
1-Urological manifestations and investigations	1	6%	70	30	7	7
2-Specific genito-urinary infections	1	6%	80	20	6	6

3-Congentinal anomalies of kidney and ureter	**1**	**6%**	**75**	**25**	**7**	**7**
4-Nonspecific UTIs	**1**	**6%**	**70**	**30**	**7**	**7**
5-Congenital anomalies of testes and genitalia	**1**	**6%**	**65**	**35**	**6**	**6**
6-Upper and lower UT obstruction and renal failure	**1**	**6%**	**70**	**30**	**6**	**6**
7-Stones	**2**	**16%**	**70**	**30**	**7**	**7**
8-Urological emergency	**1**	**6%**	**80**	**20**	**6**	**6**
9-Infertility	**1**	**6%**	**75**	**25**	**7**	**7**

10-Erectile dysfunction	**1**	**6%**	**70**	**30**	**7**	**7**
11-Urological trauma	**1**	**6%**	**80**	**20**	**6**	**6**
12-Renal tumors	**1**	**6%**	**75**	**25**	**7**	**7**
13-Urinary bladder cancer	**1**	**6%**	**70**	**30**	**7**	**7**
14-Prostatic cancer	**1**	**6%**	**80**	**20**	**7**	**7**
15-Testicular tumors	**1**	**6%**	**70**	**30**	**7**	**7**
Total	**16**	**100%**			**100**	**100**