Faculty of Medicine

Program Specification of Master in Urology 2022-2023

Department of Urology **Degree: Master degree of urology**

1- Basic Information:

1. **Program title:** Master of science in Urology (Msc of Urology)
2. **Final award:** Master Degree in Urology
3. **Program code: UR200**
4. **Program type:** Single
5. **Responsible department:** Urology Department
6. **Departments involved in the program:**
    1) Human Anatomy and embryology Department
    2) Histology and cell biology Department
    3) Medical Biochemistry Department
    4) Medical Physiology Department
    5) Microbiology and Medical Immunology Department
    6) Pathology Department
    7) Medical Pharmacology Department
    8) Forensic and Toxicology Department
    9) General surgery
    10) Urology department
7. **Program duration: 2 years**
8. **Number of program courses: 11**
9. **Coordinator: Ahmed M Fawzy**
10. **External evaluators: Alaa Ezzat**
11. **Program management team:**
    1) **Prof. Ahmed Anwar Zaki**
    2) **Prof. Mostafa Magdy**
    3) **Dr. Mohamed Hussein Kasem**

2- Professional information:

Program aims: it's a professional degree that enables candidate to specialize in the area of Urology and acquisition of this program should make the candidate acquire:

A. Basic scientific knowledge in the science of urology according to the international standards
B. Utilization of higher intellectual function in Urology science including remembering, comprehension, forethought, analysis, evaluation, elicitation and conclusion.
C. Specific skills necessary for proper diagnosis and management of patients including diagnostic, decision making and problem solving and operative skills related to the field of Urology and basics of Urology related research.
D. General skills necessary to effectively acquire, utilize and apply knowledge and practice related as a urologist and a scientific researcher and to play his role in helping the community and environment.

3-Intended Learning Outcomes (ILOs):

(a) Knowledge and understanding:

By the end of the study of master program in urology the candidate should be able to:

- A1 Discuss urologic related basic sciences including anatomical perspectives at different levels regarding crude anatomy, histology and even on molecular or biochemical level and how all these fits together to normally produce adequate physiologic function of urological tract and to get deviation from normality on pathological and pathophysiological levels and the causes of such abnormalities involving those with direct causation to urologic diseases like microorganism and parasites and establishment of proper diagnostic and treatment and intervention plan using different pharmacological and surgical options.
- A2 Define clinical parameters of a patient and the surrounding circumstances balancing this with available resources and boundaries of job descriptions towards optimized patient and community care.
- A3 Explain clinical and scientific information related to urology and make priorities to be involved in current research.

- A4 Explain different legislative basics controlling for medical practice and how it can be applied to urological clinical management
- A5 List different standards, criteria and norms of Quality assurance and accreditation program and how to apply to urology academic and clinical work.
- A6 Enumerate different types of research methods and how to be applied to urological practice according to different outcomes and exposures and the ethical guideline ruling the process of research.

(b) Intellectual skills

By the end of the study of master program in urology the candidate should be able to:

- B1 Interpret data acquired through clinical management for uro-genital problems.
- B2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems.
- B3 Plan a research study
- B4 Write and formulate a scientific study on a research problem.
- B5 Assess risk in professional practices in the field of urology
- B6 Plan to improve performance in the field of urology
- B7 Evaluate uro-genital problems and find solutions in different contexts and circumstances.
- B8 Create and innovate discussion of different urological problems in a scientific way.

3. Skills:

(c) Professional and practical skills

By the end of the study of master program in urology the candidate should be able to:

- C1 Master of the basic and modern professional skills in the area of urology.
- C2 Write and evaluate urological reports.
- C3 Assess different methods and tools existing in the area of urology
- C4 Apply different technological methods and tools existing in the area of urology
- C5 Plan for development of professional urological practice and enhance junior's performance.

- **(d) General and transferable skills**

By the end of the study of master program in urology the candidate should be able to:

- D1 Communicate effectively by all types of effective communication.
- D2 Use information technology to serve the development of professional practice
- D3 Transfer knowledge and assessing the performance of others.
- D4 Develop self-evaluation tools and continuous educating abilities.
- D5 Use different sources to obtain information and knowledge.
- D6 Work in a team, and team's leadership in various professional contexts.
- D7 Arrange scientific meetings and manage time efficiently.

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 (Master) 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 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

A) Program duration: (2 years).
B) **Program structure :**
Number of hours : 444 hours
Number of courses : 11 including

1) Anatomy and embryology Department
2) Histology and cell biology Department
3) Medical Biochemistry Department
4) Medical Physiology Department
5) Microbiology and Medical Immunology Department
6) Pathology Department
7) Medical Pharmacology Department
8) Forensic and Toxicology Department
9) General surgery
10) Surgical pathology in urology
11) Clinical urology

C) Levels of program in credit hours system: Not applicable

D. Program courses:

Program part	Structure		Courses		Assessment	Weeks of learning	Total learning hours	Distribution of learning hours (weekly basis)			Covered ILOs			
								Lect.	Practical	Clinical	**A**	**B**	**C**	**D**
First part	Basic science courses	Obligatory	**Anatomy & Embryology Course**		**37.5**		**33**	2٥ (1 hr/wk)	^(2 hr/wk)	-	A 1	B 5	C 1, 3	D1,2, 5
			Histology and Cell Biology Course		**37.5**		**70**	24 (1 hr/wk)	46 (2 hr/wk)	-	**A 1**	**B 1**	**C 3**	**D2,3, 6**
			Medical Biochemistry Course		**15**		**30**	30 (1.5 hr/wk)	-	-	A 1, 3	B 2	C 2	D2
			Medical Physiology Course		**30**		**48**	48 (2 hr/wk)		-	**A 1, 3**	**B 1, 2, 7**	**C 2**	**D4,6**
			Medical Pharmacology course		**12**		**22**	22 (2 hr/wk)	-	-	**A 1, 3**	**B 1, 2, 7**	**C 2**	**D3,4**

			Microbiology & Medical immunology Course		**37.5**		**45**	40 (2 hr/wk)	5(1hr/wk)	-	A 1	B 2	C 2	D2,4,6
			Pathology Course		**37.5**	**1 8**	**36**	24 (1 hr/wk)	12 (1hr/wk)	-	**A 1, 3**	**B 1, 2, 5, 7**	**C 2**	**D2,4,6**
			General surgery Course		**15 3**	**2 6**	**26**	13 (1 hr/wk)	13 (1 hr/wk)	-	**A 2, 3 4**	**B 2, 6**	**C 1, 2**	**D1,3,4**
			Medical ethics and malpractice		**40**	**1 8**	**45**	30 (2 hr/wk)	15 (1hr/wk)	-	**A 3, 4**	**B 6**	-	**D1,3,6,7**
	Residency training course (Phase I): Basic Urology training (Junior training)	[illegible]	**Emergency shifts …etc**		**Pass/ Fail**	**2 4**	**288**	**-**	**-**	**288 (12 hr/week) (1X 12hr-shifts weekly)**	**A 1, 2**	**B 1, 2, 5, 7**	**C 1, 2**	**D1,2,3,4,6,7**
		[illegible]	**e.g. Coding of medical data**		**Pass/ Fail**	**4 8**	**24 (1hr/week)**	**24(1 hr/weekly)**	**-**	**-**	**A 1, 2, 3, 4**	**B 1, 4, 6, 7, 8**	**C 1, 2**	**D1,2,3,4,7**

	Research thesis & publications	[illegible]	**Gap literature research & research proposal** **Scientific writing of intro, justification and review of literature** **Practical part of thesis and Data collection** **Scientific discussion, conclusion and recommendation**		**Pass/Fail**	**60**	**90 (1.5 hr/wk)**	**-**	**60 (1 hr/wk)**	**30 (0.5 hr/wk)**	**A 1, 3, 4**	**B 1, 3, 4, 8**	**C 2**	**D2,4, 6**
		[illegible]	**Local publication**		**Pass/Fail**	**60**	**30 (0.5 hr/wk)**	**-**	**30 (0.5 hr/wk)**	**-**	**A 3, ,4**	**B 3, 4**	**C 2**	**D2,4, 6**

Second part	**Compulsory courses of Urology**	**Surgical pathology in urology**		**175**	**20**	**20**	**272**	**136 (2 hr/wk)**	**136 (2 hr/wk)**		**A 1, 2**	**B 1**	**C 1, 2**	**D2**		
		Papers	**Clinical Urology**		**525**	**1440**	360 hours **(6 hr / wk)**		**-**	**-**	**A 1, 2, 4**	**B 1, 2, 3, 6, 7**	**C 1, 2 3, 4, 5**	**D1,3, 4,6,7**		
	Residency training program	**Specialized training (phase two): advanced urology senior training training**	**Clinical activities:**		**Pass/ fail**	**72**	**7344**		**24 hr /week**	**78hr/ week**	**A 1, 2**	**B 1, 2, 5, 7**	**C 1, 2, 3, 4, 5**	**D1,2, 3,4,5, 6,7**		
			Scientific activities		**Pass/ Fail**	**60**	**120**		**-**	**-**	**A 1, 2, 3, 4**	**B 1, 4, 6, 7, 8**	**C 1, 2, 3, 4, 5**	**D1,2, 3,4,7**		

7- Program Admission Requirements

Eligibility and application:

According the Faculty of Medicine, Minia University Bylaws for Post Graduate Programs (July 2009), applicants should have

- ✓ MBBCh or equivalent degree from medical schools abroad approved by the Ministry of Higher education
- ✓ Candidates graduated from Egyptian universities should "Good Rank" in their final year/cumulative years examination and grade "Good Rank "in general surgery course too.
- ✓ House officer training certificate
- ✓ English language (Toefl (> 450 point score) or equivalent degree)
- ✓ ICDL certificate
- ✓ Registration in Urology residency training program of Urology department, Minia Urology & Nephrology University Hospital, Minia University or equivalent urology residency training program in other registered hospital.
- ✓ At least, One year deputation to Urology department, Minia Urology & Nephrology University Hospital, Minia University for those registered at other hospitals for program completion

Admission to the program is open during November every year

8- Regulations for Progression and Program Completion

Start of the program: from October every year.

Duration of program is (2 years), starting from registration till completion.

Completion and end of the program

First (Basic) Part: 6 months

Nine courses as specified in the internal by law

- 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, which represent 30% of total marks (300 out of 1000 marks). a score of at least 60% in each curriculum marks is needed. Those who fail in one curriculum need to re-exam it only.

(Master Thesis): Start from registration and should be completed, and accepted at least after passing 6 months from protocol registration till at least two months before allowing to enter 2nd part

final exam.

- Accepting the thesis occurs after publishing one thesis – based paper in local or international journal and this is enough to pass this part.

<u>Second (Specialized) Part</u>: 18 months

Two program related specialized Courses.

- At least 18 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- For exam marks; the student to pass the second part exam which represent 70% of total marks (700 out of 1000 marks), a score of at least 60% in each curriculum marks. Those who fail in one course exam need to re-exam it only.

9. Teaching and learning methods:

Methods of Teaching & Learning	**Intended Learning Outcomes (ILOs)**
Lecture	A1, A2, A3, A4, A5, A6 B1, B2, B3, B4, B5, B6, B7, B8

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

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	Program ILOs Covered			
	A	B	C	D
1. Paper based Exams: • Short essay, MCQs, Complete, True or false and correct the wrong, Commentary, Problem solving	A1,2,3,4,5,6	B1,2,3,4,5,6,7,8	-	-
2. Oral Exams	A1,2,3,4,5,6	B1,2,3,4,5,6,7,8	-	D4,5

3. Practical/Clinical Exams	A1,2,3	B1,2,6,7,8	C1,2,3,4,5	-
4. Clinical activities	A1,2,4	B1,6,7,8	C1,3,4,5	D1,2,3,4,5,6,7
5. Scientific activities; Seminars, presentations, assignments	A1,2,3,4	B1,2,3,6,7,8	C1,3	D1,2,3,4,5,6,7
6. Research (Thesis)	A1,3,4	B1,3,4,8	C2	D1,2,3,4,5,6,7

Weighing of assessment

- **Marks: each course examination designed as 40% for written exam and the remaining 60% of clinical/oral exams. each course is assigned its marks according to relative weight of its contents/hours to the total program**

content. For course exam, marks will be distributed according to the relative weight of each content to the total content of the course (Blue print for each course). Marks and grade score:

1. Final Exam Part I: Urology related basic sciences *30% of exam results (300 out of 1000 marks)*

Exam type	Written exam			Oral exam			Clinical exam			Total degree
Courses	Onset	Duration\question papers	Percent (marks)	Onset	Duration\examiner (maximum 3 examiners)	Degrees	Onset	Duration\examiner (maximum 3 examiners)	Degrees	
Anatomy & Embryology	1st day of exam set	3-hour written examination in 3 papers (including short essay and multiple choice questions)	40 % (15)	5th to 8th days after completion of all written exam.	45 minutes oral exam for each.	60 % (22.5)				37.5
Histology			40 % (15)			60 % (22.5)				37.5
Biochemistry	2nd day of exa	2-hour written examination in 2 papers (including short essay	40 % (6)			60 % (9)				15
Physiology			40 % (12)		45 minutes oral	60 % (18)				30

Pharmacology	m set	and multiple choice questions)	40 % (12)		exam for each.	60 % (18)				30
Microbiology & immunology	3rd day of exam set	2-hour written examination in 2 papers (including short essay and multiple choice questions)	40 % (15)		45 minutes oral exam for each.	60 % (22.5)				37.5
Pathology			40 % (15)			60 % (22.5)				37.5
General Surgery:	4th day of exam set	2-hour written examination (including short essay and multiple choice questions)	50 %		1-hour oral exam	30 %	9th day	OSCE 2-hour clinical examination	20 %	165
								Total marks	100 %	300

2. Final Exam second Part*: 30% of exam results (300 out of 1000 marks)*

Exam type	Written exam	Oral exam	Clinical exam	Total	

Courses	Onset	Duration\question papers	Degrees	Onset	Duration\examiner (maximum 3 examiners)	Degrees	Onset	Duration\examiner (maximum 3 examiners)	Degrees	degree	Pass/fail
SURGICAL PATHOLOGY	1st day of exam set	3-hour written examination in 1 paper (including short essay and multiple choice questions)	70 (40 %)	4th day of exam set	Surgical pathology oral / practical exam.(one hour\2 examiners)	105 (60 %)				175 (100 %)	It is mandatory to pass the three papers of each course separately By getting ≥ 60 % of each written exam
CLINICAL UROLOGY	2nd day of exam set	3-hour written examination in 1 papers (including short essay and multiple choice questions)	105 (20 %)	5th day of exam set	Case scenario /uroradiology exam\1 hour	75	6th day of exam. set	One Long case\3 hours including discussion with the examiners.	75	525 (100 %)	

	3rd day of exam set	2-hour written examination in 1 papers (Problem solving & case scenario)	105 (20 %)		Operative instrument & endoscopes exam./ 1hour	75		Two short cases/two hours including discussion with the examiners	75		marks for each course.
							7th day	Operative theater exam./ 2 hour	15		

11. Methods of Program Evaluation:

Evaluator (By whom)	Method/tool	Sample
1. Senior students (Students of last year	Questionnaires	All the students
2. Graduates (Alumni)	Questionnaires	10 at least
3. Urology department council and assigned internal units	Meeting Questionnaires	10 at least

4. External & Internal evaluators and external examiners	Reports	1 at least
5. Quality Assurance Unit	Reports Questionnaires Site visits	
6. Exams results	Results analysis Report	All the students

Program Coordinators:

1) **lecturer. Ahmed M Fawzy**
2) **Prof. Ahmed Anwar Zaki**
3) **Prof. Mostafa Magdy tant**
4) **lecturer. Mohamed Hussein Kasem**
5) **Assistant lecturer . amr ibrahem metwally**
6) **Assistant lecturer . hossam mohamed mahmoud**
7) **Assistant lecturer . hesham hamada ragab**
8) **Assistant lecturer . Mohamed Khaled kamal**
9) **Assistant lecturer . islam Mahmoud mohamed**

Head of the Urology department:

Prof. Dr. Alayman Hussein Fathy

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

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

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

NAQAAE برامج الماجستير	**General Academic Reference Standards of Faculty Master (MSC) Programs, Faculty of Medicine Minia University**
	(Faculty Council decree No.6854, in its cession No.177 Dated: 18\5\2009).
١. مواصفات الخريج: خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:	**1. Graduate Attributes:** Graduate of master (MSC) program should be able to:
1.1إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. understanding and applying of basics of research method and research tools
2.1. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	2.1. Critically analyze, evaluate, and effectively communicate findings, theories, and methods
3.1. تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية.	3.1. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields.
4.1. إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.	4.1. Demonstrate awareness of community health needs related to the field of specialization by understanding the beneficial

	interaction with the society to improve quality of life
5.1. تحديد المشكلات المهنية وإيجاد حلولا لها.	5.1. Demonstrating proficiency, required to solve current complex problems in his scholarly field.
6.1. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	6.1. Master a variety of technical skills in his scholarly field and expert relevant equipment, technology, and software.
7.1. لتواصل بفاعلية والقدرة على قيادة فرق العمل.	7.1. Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.
8.1. اتخاذ القرار في سياقات مهنية مختلفة.	8.1. Take professional situational decisions and logically support them.
9.1. توظيف الموارد المتاحة بما يحقق أعلي استفادة و الحفاظ عليها	9.1. Optimal use of available resources to achieve research or best patient health care and ensure its maintenance.
10.1. إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات.	10.1. Demonstrate awareness of its role in community health development and
11.1. التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.	11.1. Exhibit ethical behavior that reflect commitment to the code of practice
12.1. تنمية ذاته أكاديميا ومهنيا و قادرا علي التعلم المستمر.	12.1. Demonstrate the ability to sustain a lifelong personal and professional growth.

٢.المعايير القياسية العامة: **NAQAAE General Academic Reference Standards "GARS" for Master Programs**	**2. ILOs of Faculty Academic Reference Standards (ARS) for Master Program**
٢,١. المعرفة والفهم: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	**2.1. Knowledge & Understanding:** Upon completion of **the Master Program** , the graduate should have sufficient knowledge and understanding of:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences
٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.
٢,١,٣. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization
٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors
٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field
٢,١,٦. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.
2.2.المهارات الذهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**2.2. Intellectual Skills:** Upon completion of the master program, the graduate should be able to:

2.2.1.تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2.حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems
2.2.3الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.
2.2.4.إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis
2.2.5.تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.
2.2.6.التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty
2.2.7.اتخاذ القرارات المهنية في سياقات مهنية متنوعة.	2.2.7. Take professional situational decisions and logically support them.
3.2.المهارات المهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**3.2. Professional Skills:** Upon completion of the master program, the graduate must be able to:
3.2.1.إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.

٣,٢,٢كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
٢,٣,٣تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research
4.2.المهارات العامة والمنتقلة **:** بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	4.2. **General and transferable skills** Upon completion of the master program, the graduate should be able to:
٤,٢,١. التواصل الفعال بأنواعه المختلفة	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.
٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.
4.2.**3**. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	4.2.3. Assess himself and identify personal learning needs
4.2.**4**. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).
4.3.**5**. وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5. Setting indicators for evaluating the performance of others
4.2.**6**. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system
4.2.**7**. إدارة الوقت بكفاءة	4.2.7. Manage time efficiently

٤,٢,٨.التعلم الذاتي والمستمر	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.

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

Annex II : Faculty ARS VS. Master PROGRAM of Urology

2. ILOs of Faculty Academic Reference Standards (ARS) for Master Program	**2. ILOs of Urology ARS for master program**
2.1. Knowledge & Understanding: Upon completion of **the Master Program** , the graduate should have sufficient knowledge and understanding of:	**2.1. Knowledge and Understanding** Upon completion of the Master Program in urology, the graduate should have been able to:
2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences	A1 Discuss urologic related basic sciences including anatomical perspectives at different levels regarding crude anatomy, histology and even on molecular or biochemical level and how all these fits together to normally produce adequate physiologic function of urological tract and to get deviation from normality on pathological and pathophysiological levels and the

	causes of such abnormalities involving those with direct causation to urologic diseases like microorganism and parasites and establishment of proper diagnostic and treatment and intervention plan using different pharmacological and surgical options
2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.	A2 Define clinical parameters of a patient and the surrounding circumstances balancing this with available resources and boundaries of job descriptions towards optimized patient and community care.
2.1.3. Scientific developments in the field of specialization	A3 Explain clinical and scientific information related to urology and make priorities to be involved in current research.
2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors	A4 Explain different legislative basics controlling for medical practice and how it can be applied to urological clinical management
2.1.5. Quality principles in the scholarly field	A5 List different standards, criteria and norms of Quality assurance and accreditation program and how to apply to urology academic and clinical work
2.1.6. Basis of research methodology and medical ethics.	A6 Enumerate different types of research methods and how to be

	applied to urological practice according to different outcomes and exposures and the ethical guideline ruling the process of research.
2.2. Intellectual Skills: Upon completion of the master program, the graduate should be able to:	**2.2. Intellectual Skills:** **Upon completion of the master program, the graduate should be able to:**
2.2.1. Use judgment skills for analytical and critical problem solving	B.1 Interpret data acquired through clinical management for uro-genital problems.
2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	B.2 Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems.
2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.	B.4 Write and formulate a scientific s research problem.
2.2.4. Effectively apply research methods and carrying out a medical research thesis	B.3 Plan a research study B.5 Assess risk in professional practices in the field of urology
2.2.5. Be aware of risk management principles, and patient safety.	B.6 Plan to improve performance in the field of urology
2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty	B.7 Evaluate uro-genital problems an solutions in different contexts and circumstances.

2.2.7. Take professional situational decisions and logically support them.	B.8 Create and innovate discussion of different urological problems in a scientific way.
3.2. Professional Skills: Upon completion of the master program, the graduate must be able to:	**3.2. Professional Skills:** Upon completion of the master program, the graduate must be able to:
3.2.1. Master the basic and some advanced professional skills in his scholarly field.	C1 Master of the basic and some advanced professional skills in the area of urology. C5 Plan for development of professional urological practice and enhance junior's performance.
3.2.2. Write and evaluate medical or scientific reports	C2 Write and evaluate urological reports.
3.2.3. Assess and evaluate technical tools during research	C3 Assess and evaluate technical tools during research C4 Apply different technological methods and tools existing in the area of urology
4.2. **General and transferable skills** Upon completion of the master program, the graduate should be able to:	4.2. **General and transferable skills** Upon completion of the master program, the graduate should be able to:
4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.	D1 Communicate effectively by all types of effective communication.

4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.	D2 Use information technology to serve the development of professional practice
4.2.3. Assess himself and identify personal learning needs	D3 Transfer knowledge and assessing the performance of others.
4.2.4. Use various sources for information (physical and digital sources).	D5 Use different sources to obtain information and knowledge.
4.2.5. Setting indicators for evaluating the performance of others	D4 Develop self-evaluation tools and continuous educating abilities.
4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system	D6 Work in a team, and team's leadership in various professional contexts.
4.2.7. Manage time efficiently	D7 Arrange scientific meetings and manage time efficiently.
4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.	D4 Develop self-evaluation tools and continuous educating abilities.

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

Head of the department signature:

Annex III : Matrix of Coverage of Master 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. Anatomy & Embryology	A1	B5	C1,3	D1,2,5
2. Histology and Cell Biology	A1	B1	C3	D2,3,6
3- Medical Biochemistry	A1,3	B2	C2	D 2
4- Medical Physiology	A1,3	B1,2,7	C2	D4,6
5- Medical pharmacology	A1,3	B1,2,7	C2	D3,4
6- Microbiology & Medical immunology	A1	B 2	C2	D٢,4,6

7- Pathology	**A1,3**	**B1,2,5,7**	**C2**	**D2,4,6**
8- General surgery	**A2,3,4**	**B2,6**	**C1,2**	**D1,3,4**
9- Medical ethics and malpractice	**A3,4**	**B6**	**-**	**D1,3,6,7**
10- Surgical pathology in urology	**A1,2**	**B1**	**C1,2**	**D2**
11- Clinical Urology	**A1,2,4,5,6**	**B1,2,3,6,7,8**	**C1,3**	**D1,3,4,6,7**

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

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**
Lectures	A1, A2, A3, A4, A5,6	B1, B2, B3, B4, B5, B6, B7, B8		
Clinical: • **Case presentation,**			C1, C2, C3,4,5	

• **Bedside clinical;**
  • Practical clinical examination in wards and outpatient clinic
  • Discussion of medical problems in clinical staff round				

• **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

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

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. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
1- Paper based Exams	A1,2,3,4,5,6	B1,2,3,4,5,6,7,8	-	-
2- Oral Exams	A1,2,3,4,5,6	B1,2,3,4,5,6,7,8	-	D4,5
3- Practical/Clinical Exams	A1,2,3	B1,2,6,7,8	C1,2,3,4,5	-
4- Clinical activities	A1,2,4	B1,6,7,8	C1,3	D1,2,3,4,5,6,7
5- Scientific activities; Seminars,	A1,2,3,4	B1,2,3,6,7,8	C1,3	D1,2,3,4,5,6,7

presentations, assignments				
6- Research (Thesis)	A1,3,4	B1,3,4,8	C2	D1,2,3,4,5,6,7

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

Course Specifications of Anatomy and Embryology in Master degree in urology

University: Minia

Faculty: Medicine

Department: Anatomy

1. Course Information		
• **Academic Year/level:** first part	• **Course Title:** Course Specifications of Anatomy and Embrylogy in Master degree in **urosurgery**	
• **Number of teaching hours:** - **Lectures:** Total of 25hours - **Practical/clinical**: Total of 8 hours		
2. Overall Aims of the course	*By the end of the course the student must be able to:* 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	A1. Mention the normal structure and function of the urinary and male genital systems on the macro levels. A2. Define early embryo development & normal growth and development of the urinary and male genital system A3. List the recent advances in the abnormal structure, function, growth and development of urinary and male genital system. A4. Define the anatomical basis of surface anatomy and radiologic anatomy
B- Intellectual Skills	B1. Interpret the knowledge for Professional problems solving. B2. Integrate data for research study and / or write a scientific study on a research problem. B3. Compare between diseases based on anatomical disruptions. B4. Assess basic knowledge of urogenital anatomy.
C- Professional and Practical Skills	C1. Perform the basic and modern surgical skills in the area of urology C2. Evaluate diseases and anomalies based on anatomical data.
D- General and transferable Skills	d1. Communicate effectively by all types of effective .communication d2. Use information technology to serve the development of .professional practice d3. Assess the candidate himself and identify personal .learning needs

	d4. Use different sources to obtain information and knowledge d5. Assess the performance of others.

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Anatomy of urinary system (kidney, ureter , urinary bladder, urethera)	5	2	7
Anatomy of male genital system (testis , epididymes ,vas , prostate ,seminal vesicles ,penis and scrotum)	4	1	5
Anatomy of the perineum and pelvis	2	1	3
Anatomy of superficial and deep perineal pouches and peritoneal spaces.	2	1	3
Blood and nerve supply of the pelvis	2	1	3
Embryology of urinary system	3	-	3
congenital anomalies of urinary tract	3	-	3
Embryology of male genital system and congenital anomalies	2	-	2
Revision	2	2	4
Total	25	8	34

5. Teaching and Learning Methods	1 - Lectures. 2 - Practical lessons. 3- Assignments for the students to empower and assess the general and transferable skills
6. Teaching and Learning Methods for students with limited Capacity	
7. Student Assessment	
A. Student Assessment Methods	1- Assignments for the students to empower and assess the general and transferable skills 2- Periodic written exam to assess Knowledge, understanding and Intellectual skills. 3- Periodic practical+ written examination to assess practical skills as well as Knowledge. 4- Final written exam to assess Knowledge, understanding and intellectual skills. 5- Final oral exam to assess understanding and intellectual skills. 6- Final practical exam to assess practical skills.

B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1… Periodic 1… Week: 10-13 Assessment 2 … Assignment…. Week: 15-16 Assessment 3….periodic. 2…. Week …18-20 Assessment 2 …Final practical exam Week: 26-28 Assessment 3…. Final written exam. Week …26-28 Assessment 4…..Final oral exam Week….26-28
C. Weighting of Each Method of Assessment	Final-term Examination 15 Oral Examination. 22.5 _____ Total 37.5

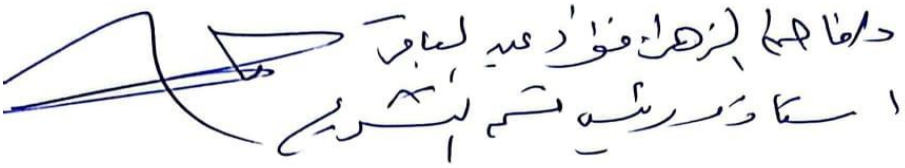
8. List of References:

- **Standring,S, Ellis, H., Healy, J.C., Johnson, D., and Williams, J.C., 2016. Gray's anatomy. 50th edition.**
- **Junqueira, L.C. and Carneiro, J., 2015. Basic histology. 10th edition.**
- **Moore K.L., and Agur A.M.R., 2016. Essential clinical anatomy. 14th edition.**

A. Course Notes/handouts	Lecture notes prepared by staff members in the department.
B. Essential Books	Gray's Anatomy.
C. Recommended Text Books	A colored Atlas of Human anatomy and Embryology.
D. Periodicals, websites	American J. of Anatomy Cochrane Library,Medline & Popline

Course Coordinator/s:
Prof. Dr. Al- Sayed Ali Mahran

Head of Department:
Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



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

3 / 2023

نموذج رقم (١١)

جامعة/أكاديمية : المنيا
كلية / معهد: الطب
قسم: التشريح

مسمى المقرر	التشريح
كود المقرر	AN200

A. 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
Anatomy of urinary system (kidney, ureter , urinary bladder, urethera)	1	1,2,3,4	1,2	1	1,3,5
Anatomy of male genital system (testis , epididymes ,vas , prostate ,seminal vesicles ,penis and scrotum)	2	2,3,4	2	2	2,4
Anatomy of the perineum and pelvis	3	3,4	2,3	1,2	3,4
Anatomy of superficial and deep perineal pouches and peritoneal spaces.	4	1,4	1,4	1,2	4,5
Blood and nerve supply of the pelvis	5	2,4	1,2	1	1,2,5
Embryology of urinary system	6	2,3	2	2	2,4
congenital anomalies of urinary tract	7	1,4	1,4	1,2	4,5

Embryology of male genital system and congenital anomalies	**8**	**2,4**	**1,2**	**1**	**1,2,5**
Revision	**9**	**1,2,4**	**1,2**	**1**	**1,3,5**

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	1,2	1	1,3,4,5
Practical	2,3	2	2	2,4
Clinical (Including grand rounds)	3,4	2,3	1,2	3,4
Presentation/seminar	1,4	1,4	1,2	4,5
Journal club	2,4	1,2	1	1,2,5
Thesis discussion	4	4	1	1,3,5
Training courses & workshops	3,4	1,4	1,2	2,4

A. 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	2,3,4	1,2	1	1,2,3,5
Practical exam	2,3	2	2	2,4
Clinical exam	3,4	2,3	1,2	3,4
Oral Exam	2,3	1,2,4	1,2	4,5
Assignment	2,4	1,2	1	1, 5

Blueprint of urology master Examination Paper”

1	Topic	Hours	Knowledge %	Intellectual%	% topic	No. of items per topic	Knowledge mark	Intellectual mark	Mark	Actual mark
	Anatomy of urinary system (kidney, ureter , urinary bladder, urethera)	2	60%	40%	7.8		2.4	1.5	1	1
2	Anatomy of male genital system (testis , epididymes ,vas , prostate ,seminal vesicles ,penis and scrotum)	2	60%	40%	7.8		2.4	1.5	1	1
3	Anatomy of female genital system (ovary ,fallopine tube, (uterus	2	60%	40%	7.8		2.4	1.5	1	1
4	Anatomy of the perineum and pelvis	2	50%	50%	7.8		1.9	1.9	1	1
5	Anatomy of reteroperitoneal space	2	50%	50%	7.8		1.9	1.9	1	1
6	Blood and nerve supply of the pelvis	2	75%	25%	7.8		2.85	.95	1	1

7	General emberiology part ١	4	66.6%	33.3%	15.64		5.06	2.5	2	2
8	Embryology of urinary system	2	50%	50%	7.8		1.9	1.9	1	1
9	congenital anomiles of urinary tract]	2	75%	25%	7.8		2.85	.95	2	2
10	Embryology of male genital system and congenital anomalies	2	66.6%	33.3%	7.8		2.5	1.26	1	1
11	Emberiology of female genital system and congenital anomlies	2	66.6%	33.3%	7.8		2.5	1.26	1	1
12	Anatomy of urinary system (kidney, ureter , urinary bladder, urethera)	2	75%	25%	7.8		2.85	.95	2	2
	Total	26					31.51	18.07	15	15

Faculty of Medicine
كلية الطب

Medical Biochemistry course specification for master degree in Urology (First part)

University: *Minia*
Faculty: *Medicine*
Department: Medical Biochemistry
Last date of approval 3\2023

		9. Course Information
Academic Year/level: First Part of Master Degree	• **Course Title**: First Part of Master Degree in Urology	• **Code**:
Number of teaching hours: **Lectures: 30 hours; 1.5 hours/week**		
10.Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-To understand all molecular basics and diseases. 3-To know different molecular techniques and their advanced applications. 4-To better understand and use the research tools including internet and differentlaboratory equipment. 5-To know retrieving the literature and	

	understanding the evidence-basedmedicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and abilities.
11.Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
E- Knowledge and Understanding	The student finishes the course; he will be able to achieve the following objectives: A1. Define various metabolic processes of carbohydrate, lipid and protein A2. Describe role of minerals and hormones and Vitamins in metabolism. A3. Discuss Various metabolic diseases and their diagnosis A4. List the role of enzymes in the chemical reactions in the body and its diagnostic importance. A5. Discuss types of gene therapy and its therapeutic effect. A.6. Describe the metabolism of hemoglobin and nucleic acids. A.7- Explain xenobiotics and their detoxification.
F- Intellectual Skills	B1-Interpret the skills for analysis of different diseases to reach a final diagnosis. B2-Solve problems associated with metabolic diseases. B3-Integrate metabolic pathways with diseases.
G- Professional and Practical Skills	After completing the course, the student should be able to C1. Organize groups, as a leader or as a colleague. C2. Practice willingly the presentation skills through the attendance and participation in scientific activities.
H- General and transferable Skills	After completing the course, the student should be able to D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning).

	D2. Prepare for medical progress by having advanced medical research studies

4- Course Contents			
Topic	**Lecture (hours)**	**Practical/Clinical (hours)**	**Total No. of hours**
1. Carbohydrate Metabolism	6	---	6
2. Lipid metabolism	6	---	6
3. Protein metabolism	3	---	3
4. Purines and pyrimidine Metabolism	1.5	---	1.5
5. Enzymes	1.5	---	1.5
6. Minerals	3	---	3
7. Hormones	1.5	---	1.5
8. Vitamins	3	---	3
9. Xenobiotics	1.5	---	1.5
10.Gene Therapy	1.5	---	1.5
11.Hemoglobin metabolism	1.5	---	1.5
Total	**30**	---	**30**
5-Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed		

6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity
7- Student Assessment	
A-Student Assessment Methods	**1- Written exam** to assess the capability of the student for assimilation and application of the knowledge included in the course. **2-Oral exam** to assess the student intellectual and communication skills regarding basic knowledge 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
B-Assessment Schedule (Timing of Each Method of Assessment)	***Assessment 1: one written exam*** *by the end of the course* **Assessment 2:** ***Oral exam,*** *after the written exam* **Formative only assessment:** log book.
C-Weighting of Each Method of Assessment	**Written examination:** 6 marks **Oral examination**: 9 marks **Total**: 15 marks
8- List of References	
A-Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.
B-Essential Books	-Harper's Biochemistry, Robert K. Murray, Daryl K. Granner, PeterA.Mayes, and VictorW. Rodwell (32th edition, 2022)
C- Recommended Text Books	a. Lubert Stryer, Biochemistry (9 th edition, 2019) b. Lehninger, Biochemistry (8th edition, 2021) c. Lippincott, Biochemistry (7th edition, 2017)

D-Periodicals, websites	To be determined and updated during the course work. **Websites:** 1-http://www.Medical Biochemistry.com. **Periodicals:** 1- International journal of biochemistry 2- Science Direct

Course Coordinator/s:

Dr. Ahmed Mohamed, Dr. Heba Marey

Head of Department:

Prof. Dr. Salama Rabie Abd El Rahiem

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

3 / 2023

مسمى المقرر	جزء اول ماجستير جراحة المسالك البولية والتناسلية
كود المقرر	

جامعة/أكاديمية : ..المنيا.....
كلية / معهد..... :الطب.....
قسم : **الكيمياء الحيويه**

A. 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
1. Carbohydrate Metabolism	**1**	**A1 A3 A4**	**B3**	**C2**	
2. Lipid metabolism	**2**	**A1 A3 A4**	**B2 B3**	**C2**	
3. Protein metabolism	**3**	**A1 A3 A4**	**B1 B2 B3**	**C1 C2**	
4. Purines and pyrimidine metabolism	**4**	**A3 A6**	**B1**	**C1**	
5. Enzymes	**5**	**A4**	**B2**		
6. Minerals	**6**	**A2 A3**	**B1**	**C1**	
7. Hormones	**7**	**A2 A3**	**B3**	**C2**	
8. vitamins	**8**	**A2 A3**	**B1**	**C2**	
9. Xenobiotics	**9**	**A7**	**B1 B3**		
10.Gene Therapy	**10**	**A5**	**B3**	**C1**	
11.Hemoglobin metabolism	**11**	**A3 A6**	**B2**	**C2**	

B.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	**A1 A2 A3 A4 A5 A6**	**B2 B3**		
Practical			**-**	**D1**
Presentation/seminar				**D1 D2**

C. 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	A1 A2 A3 A4 A5 A6 A7 A8	B1 B2 B3		
Oral Exam	A1 A2 A3 A4 A5 A6 A7	B2 B3		
Assignment				D1 D2

Blueprint of Medical Biochemistry Department

Blueprint of Examination Paper(6 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	No of items per topic	Knowledge		Intellectual		Marks	Actual mark
							No of Items	*Mark*	*No of Items*	*Mark*		
1	**Carbohydrate Metabolism**	6	70	30	**20**	2	1	0.6	1	0.6	**1.2**	**1**
2	**Lipid metabolism**	6	75	25	**20**	2	1	0.6	1	0.6	**1.2**	**1**
3	**Protein metabolism**	3	75	25	**10**	2	1	0.3	1	0.3	**0.6**	**0.5**
4	**Purines and pyrimidine Metabolism**	1.5	75	25	**5**	2	1	0.15	1	0.15	**0.3**	**0.5**
5	**Enzymes**	1.5	70	30	**5**	2	1	0.15	1	0.15	**0.3**	**0.5**
6	**Minerals**	3	80	20	**10**	2	1	0.3	1	0.3	**0.6**	**0.5**
7	**Hormones**	1.5	75	25	**5**	2	1	0.15	1	0.15	**0.3**	**0.5**
8	**Vitamins**	3	75	25	**10**	2	1	0.3	1	0.3	**0.6**	**0.5**
9	**Xenobiotics**	1.5	70	30	**5**	2	1	0.15	1	0.15	**0.3**	**0.75**
10	**Gene Therapy**	1.5	75	25	**5**	2	1	0.15	1	0.15	**0.3**	**0.75**
11	**Hemoglobin metabolism**	1.5	70	30	**5**	2	1	0.15	1	0.15	**0.3**	**0.5**
	Total	**30**			**100 %**						**6**	**6**

Course Specifications of General surgery for Master degree of Urology 1st part

(General Surgery)

University: Minia

Faculty: Medicine

Department: General Surgery

1. Course Information		
Academic Year/level: postgraduate students	**Course Title:** General surgery for Master degree of Urology	**Code**:
Number of teaching hours: 1/week for 6 months - *Lectures: Total of 13 hours -* *Clinical: Total of 13 hours* **-**		
1.Overall Aims of the course	By the end of the course the student must be able to have: 1. Knowledge essential for practice according to the national standards. 2. Skills necessary for proper management of patients including diagnostic, problem solving & decision making and operative skills. 3. Provision of ethical principles related to medical practice. 4. Active participation in community needs assessment and problems solving. 5. Maintenance of learning abilities necessary for continuous medical education. 6. Upgrading research interest and abilities.	
:3.Intended learning outcomes of course (ILOs) ***Upon completion of the course, the student should be able to:***		

A-Knowledge and Understanding	a.l Mention normal structure & function of human body on macro & micro levels. a.2 Define normal growth and development of human body. a.3 List abnormal structure, function, growth and development of human body. a 4. Discuss causation of general surgical diseases and problems. a.5. Define natural history of general surgical diseases.a.6. List clinical picture of general surgical diseases and problems. a.7. Enumerate diagnostic & laboratory techniques necessary to establish diagnosis of general surgical diseases and problems. a.8 Describe various therapeutic methods/alternatives used for general surgical diseases and problems. a.9. Discuss techniques of surgical operations. a. 10. Describe mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery. a. 11. Define scientific development in the field of general surgery. a.12. Mention principles, ethics & legal aspects of professional practice in the field of general surgery. a.13. Define the principles of quality assurance of professional practice in the field 6f general surgery. a.14. Discuss effect of professional practice on the environment and methods of environmental development & maintenance. a.15. Define basics & ethics of scientific research.
B-Intellectual Skills	By the end of the study of master program, the graduate should be able to: b. 1. Interpret data acquired through history taking to reach a provisional diagnosis for general surgical problems. b.2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for general surgical problems. b.3. Integrate knowledge for professional problem solving. b.4. Conduct research studies and/or write a scientific study on a research problem.

	b.5. Assess risk in professional practices in the field of general surgery. b.6. Plan to improve performance in the field of general surgery. b.7. Solve general surgical problems. b.8. Analyze reading of research & issues related to the general surgery.
C- Professional and Practical Skills	By the end of the study of master program, the graduate should be able to: c.l. Apply the basic & modern professional skills in the area of general surgery. c.2. Write and evaluate of medical reports. c.3. practice methods and use tools existing in the area of general surgery.
D-General and transferable Skills	By the end of the study of master program, the graduate should be able to: d.1. Communicate effectively by all types of effective communication. d.2. Use information technology to serve development of professional practice. d.3. Assess himself& identify of personal learning needs. d.4. Use different sources to obtain information & knowledge. d.5. Develop rules & indicators for assessing the performance of others. d.6. Work in a team and team's leadership in various professional contexts. d.7. Manage time effectively. d.8. Learn himself continuously.

4.Course Contents

Subject	Lectures	practical	Clinical

Parathyroid and lymphadenopathy	1 hour	__	1 hour
Basics of laparoscopy	1 hour	__	__
Surgically correctable hypertension	1 hour	__	___
Aneurysm and veins of the abdomen and LL	1 hour	1 hour	1 hour
Acute abdomen	1 hour	__	1 hour
DD of abdominal mass and retroperitoneal tumors	1 hours	___	1 hour
Intestinal obstruction and intestinal fistula	1 hour	1 hour	1 hour
Hernia, umbilicus and abdominal wall lesions	1 hour	__	1 hour
Abdominal incisions and burst abdomen	1 hour	__	1 hour
Colorectal lesions and anal conditions	1 hour	1 hour	1 hour
Testis and scrotal lesions	1 hour		1 hour
Adrenal gland	1 hour	___	___
Abdominal trauma and fracture pelvis	1 hour	___	1 hour
TOTAL	**13**	**3**	**10**

5.Teaching and Learning Methods	Lectures Clinical sessions Seminars
6.Teaching and Learning Methods for students with limited Capacity	Self-learning activities such as use of internet and multimedia.
7.**Student Assessment**	
1- Research: assignment.	- General transferable skills, intellectual skills
2- Written Exams: - Short essay. - MCQs. - Commentary. - Problem solving.	 - Knowledge - Knowledge, intellectual skills - intellectual skills. - General transferable skills, intellectual skills. - Practical skills, intellectual skills. - Practical skills, intellectual skills.

3- Practical Exams. 4- Clinical Exams. 5-OSCE. 6-Oral Exams. 7- Structured Oral Exams.	- Practical skills, intellectual skills. - Practical skills, intellectual skills - Knowledge. - Knowledge.
3- Weighing of Each Method of Assessment	Written exam:30 marks Oral Exam:22.5 marks Clinical exam: 22.5 marks Total: 75 marks
8.List of References	
A. Course Notes/handouts	Department Books, and notes on General Surgery by departmentof General Surgery, Faculty of medicine, Minia university
B. Essential Books	KASR ALAINY Introduction to Surgery, 9th edition, Faculty of Medicine, Cairo University, 2021
C. Recommended Text Books	Bailey & Love`s Short Practice of Surgery, 27th Edition - International Student`s Edition set volume 1 & 2. By Norman Williams - P Ronan O`Connell. 2022 Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice, 21st Edition, 2021. Courtney Townsend. Current Diagnosis and Treatment Surgery, 15th Edition, 2020, Gerard Doherty (Author), McGraw Hill / Medical MATARY TEXTBOOK OF CLINICAL SURGERY, 12th Edition, 2018
D. Periodicals, websites	To be determined and updated during the course work. **Websites:** https://www.medicalpracticewebsitedesign.com/general-surgery-website-portfolio.php

	https://radiologykey.com/surgical-radiography/ **Periodicals:** 3- International Journal of Surgey 4- British Journal of Surgery

Date of last update & approval by department council: 5/3/2023

Head of Department: Professor Dr. Amr Hamdy

Amr Hamdy

مسمى المقرر	ماجستير جراحة المسالك - جزء اول
كود المقرر	

جامعة/أكاديمية : ..المنيا

كلية / معهد..الطب.....

قسم : **الجراحة العامة**

A. 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
Parathyroid and lymphadenopathy	1	+	+	+	+
Basics of laparoscopy	2	+	+	+	+
Surgically correctable hypertension	3	+	+	+	+
Aneurysm and veins of the abdomen and LL	4	+	+	+	+
Acute abdomen	5	+	+	+	+
DD of abdominal mass and retroperitoneal tumors	6	+	+	+	+
Intestinal obstruction and intestinal fistula	7	+	+	+	+
Hernia, umbilicus and abdominal wall lesions	8	+	+	+	+
Abdominal incisions and burst abdomen	9	+	+	+	+

Colorectal lesions and anal conditions	10	+	+	+	+
Testis and scrotal lesions	11	+	+	+	+
Adrenal gland	12	+	+	+	+
Abdominal trauma and fracture pelvis	13	+	+	+	+

B.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	**x**	**x**		
Practical	x	x	X	

Presentation/seminar	x	x	X	x
Journal club	x	x	X	x
Thesis discussion	x	x	X	x
Training courses & workshops	x	x	X	
Other/s (Specify)				

C. 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	x	x		
Oral/Clinical Exam	x	x	X	
Assignment	x	x	X	x
Other/s(Specify)				

Blueprint of General Surgery for Master of Urology (Written Exam)

(30 Marks)

Topic	Hours	Knowledge%	Intellectual%	% of topic	Mark	Actual mark
Parathyroid and lymphadenopathy	1	70	30	7.7	2.3	2
Basics of laparoscopy	1	80	20	7.7	2.3	2
Surgically correctable hypertension	1	70	30	7.7	2.3	2
Aneurysm and veins of the abdomen and LL	1	70	30	7.7	2.3	2
Acute abdomen	1	70	30	7.7	2.3	2
DD of abdominal mass and retroperitoneal tumors	1	70	30	7.7	2.3	3
Intestinal obstruction and intestinal fistula	1	80	20	7.7	2.3	2
Hernia, umbilicus and abdominal wall lesions	1	70	30	7.7	2.3	2
Abdominal incisions and burst abdomen	1	70	30	7.7	2.3	2
Colorectal lesions and anal conditions	1	70	30	7.7	2.3	2
Testis and scrotal lesions	1	70	30	7.7	2.3	3
Adrenal gland	1	70	30	7.7	2.3	3
Abdominal trauma and fracture pelvis	1	80	20	7.7	2.3	3
Total	**13**			**100%**		**30**

Course Specifications of Histology for master's degree (1st part) in Urology

University: Minia

Faculty: Medicine

Department: Histology and Cell Biology

<table>
<tr><td colspan="3">12.Course Information</td></tr>
<tr><td>• Academic Year/level: : master's degree (1st part) in Urology</td><td>• Course Title: Histology and Cell Biology</td><td>• Code: UR200</td></tr>
<tr><td colspan="3">• Number of teaching hours: 70
- Lectures: Total of 24 hours; 1 hours/week
- Practical/clinical: Total of 46 hours; 2 hours/week</td></tr>
<tr><td colspan="2">13.Overall Aims of the course</td><td>By the end of the course the student must be able to:
1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain.
2. Provide master student with basic information about the structure and function of different tissues and organs affected in many medical diseases.
3. Maintain learning abilities necessary for continuous medical education.
4. Maintain research interest and abilities.</td></tr>
<tr><td colspan="3">14.Intended learning outcomes of course (ILOs):
Upon completion of the course, the student should be able to:</td></tr>
<tr><td colspan="2">I- Knowledge and Understanding</td><td>A1. Identify the histological structure of body tissues and organs.
A2. List and enumerate the structure and function of the different cells and organs.
A3. List the basic abnormalities that might affect the tissue in response to many diseases.
A4. Identify the ability of different tissue to regenerate in response to diseased condition.</td></tr>
<tr><td colspan="2">J- Intellectual Skills</td><td>B1. Interpret histological changes in diseases compared to the normal histology</td></tr>
<tr><td colspan="2">K- Professional and Practical Skills</td><td>C1. Practice and participate in scientific activities.
C2. Master the basic and modern medical skills in the area of specialty.
C3. Examine histological slides and identify the structure of</td></tr>
</table>

	different cells and organs.
L- General and transferable Skills	D1. Practice in groups, as a leader or as a colleague. D2. Use the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D3. Play role in the medical progress by having advanced medical information. D4. Be aware about the presentation skills through the attendance and participation in scientific activities.

15.Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Introduction	1	-	1
Connective tissue proper 1	1	2	3
Connective tissue proper 2	1	2	3
Connective tissue proper 3	1	2	3
Bone 1	1	2	3
Bone 2	1	2	3
Bone 3	1	2	3
cartilage 1	1	2	3
Cartilage 2	1	2	3
Cartilage 3	1	2	3
Blood 1	1	2	3
Blood 2	1	2	3
Cardiovascular system 1	1	2	3
Cardiovascular system 2	1	2	3
Cardiovascular system 3	1	2	3
Arteriovenous anastomosis	1	2	3
Lymphatic system 1	1	2	3
Lymphatic system 2	1	2	3
Lymphatic system 3	1	2	3
Immune system	1	2	3
Urinary system 1	1	2	3
Urinary system 2	1	2	3
Urinary system 3	1	2	3
Endocrine	1	2	3
Total	24	46	70

16.Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments and practical lessons. 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed
17.Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity
18.Student Assessment	
D. Student Assessment Methods	1-Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. 2-Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the cou topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
E. Assessment Schedule (Timing of Each Method of Assessment)	**Assessment 1:** one written exams by the end of the course. **Assessment 2:** Oral exam, after the written exam. **Formative only assessment:** simple research assignment, log book, slide box.
F. Weighting of Each Method of Assessment	**Written examination:** 15 **Oral examination**: 22.5 **Total**: 37.5
19.List of References	
E. Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.
F. Essential Books	1- Junqueira, Carneino and Kelly (2016): Basic Histology, Librairrie du liban and lang buruit, London, New York.. 2-Integrated Medical Sciences - The Essentials - S. Pereraet al (Wiley 2007). 3-Bloom and fawcett: Concise Histology. Fawcett.,

	4- Cell biology and histology. Gartner et al. 5-Lippincott Illustrated Reviews: Integrated Systems.
G. Recommended Text Books	1-Wheater's Functional Histology A Text and Colour Atlas. 7th Edition - April 3, 2023. - Human Histology, Stevens and Lowe. 2- Human Histology, Stevens and Lowe. 3-Oxford Handbook of Medical Sciences.
H. Periodicals, websites	To be determined and updated during the course work. **Websites** 1-http://www.histology-world.com. 2-http://histo.life.illinois.edu/histo/atlas/slides.php **Periodicals:** 1- Cytology and histology 2- Egyptian J of Histology 3- Egyptian J of Anatomy 4- Acta Anatomica 5- International J of Experimental Research 6-Cell and Tissue Research

Course Coordinator/s:

1-Assisstant prof. Soha Abel Kawy

2- Assistant Lecturer: Rasha Mohamed

Head of Department:

Prof. Dr. Seham Abd El-Raouf Abd El-Aleem

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

Seham Abd El-Raouf Abd El-Aleem

نموذج رقم (١١أ)

مسمى المقرر	جزء اول ماجستير مسالك بولية
كود المقرر	UR200

جامعة/أكاديمية : ..المنيا.....

كلية / معهد: .....**الطب**.....

قسم: .....الهستولوجي وبيولوجيا الخلية.....

A. 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	1	A1			
Connective tissue proper 1	2	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Connective tissue proper 2	3	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Connective tissue proper 3	4	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Bone 1	5	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Bone 2	6	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Bone 3	7	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
cartilage 1	8	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4

cartilage 2	9	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
cartilage 3	10	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood 1	11	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood 2	12	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system 1	13	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system 2	14	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system 3	15	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Arteriovenous anastomosis	16	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system 1	17	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system 2	18	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system 3	19	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Immune system	20	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Urinary system 1	21	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4

Urinary system 2	**22**	**A1,A2,A3,A4**	**B1**	**C1,C2,C3**	**D1,D2,D3,D4**
Urinary system 3	**23**	**A1,A2,A3,A4**	**B1**		
Endocrine	**24**	**A1,A2,A3,A4**	**B1**		

B. 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**
Lecture	**A1,A2,A3,A4**	**B1**		
Practical			**C1,C2,C3**	
Presentation/seminar **Training courses & workshops**	**A1,A2,A3,A4**	**B1**	**C1,C2,C3**	**D1,D2,D3,D4**

C. 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	A1,A2,A3,A4	B1	-	-
Oral Exam	A1,A2,A3,A4	B1	-	-

Blueprint of Histology and cell biology department for candidates of master degree “first part” examination paper (15 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	Marks
1	**Introduction**	1	100	-	4.16	.5
2	**Connective tissue proper**	3	80	20	12.5	2
3	**Bone**	3	80	20	12.5	2
4	**Cartilage**	3	80	20	12.5	2
5	**Blood**	2	80	20	8.3	1
6	**Cardiovascular system**	3	80	20	12.5	2
7	**Arteriovenous anastomosis**	1	80	20	4.16	.5
8	**Lymphatic system**	3	80	20	12.5	2
9	**Immune system**	1	80	20	4.16	.5
10	**Urinary system**	3	80	20	12.5	2
11	**Endocrine**	1	80	20	4.16	.5
	Total	24			100%	15

Course Specification of Medical Ethics
Master degree of Urology(2022-2023)

University: Minia

Faculty: Medicine

Program on which the course is given: Master degree of urology
Major or minor element of program: Medical ethics, ethics of medical research
Department offering the program: urology Department
Department offering the course: Forensic Medicine & Clinical Toxicology Department
Academic year / Level: First part

A. Basic Information		
• **Academic Year/level:** Post graduate; 1st Part MSC, urology	• **Course Title**: Course Specification of Medical Ethics (Master degree of urology)	• **Code**:
• *Number of teaching hours:* - *Lectures: Total of 30 hours; ٢ hour/week* - **Practical:** Total of 15 hours; 1 hour/week		
B- Professional Information		
1. Overall Aims of the course	By the end of the course the student should be able to identify the value of studying and practicing medicine, the duties of doctors towards their patients, colleagues and community, the ethics in medical consultations among colleagues and also able to explain respect the patient's confidentiality and secrets, recognize the role of health care providers in the community and describe medical errors, negligence and legal issues, ethics of medical research especially on human beings and finally able to explain ethics and evidence based medicine	
2. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A- Knowledge and Understanding	**A.1-** Identify the basic concept of learning and practicing medicine from the religious and human point of view. **A.2-** Identify the very beneficial impressive history of medicine; ethics related. **A.3-** Classify the main principles of medical ethics. **A.4-** Recognize an integrated approach to deal with patients, their families, community and medical staff in an ethical, legal and human manner.	

	A.5- Identify rules in low and regulations to deal with patients in practicing medicine. **A.6-** Explain the standard and accredited methods of clinical research especially on human beings.
B- Intellectual Skills	**B.1-** Design approach to patients in different situations; critical and noncritical ones. **B.2-** Develop adequate communication skills with patients, community and colleagues. **B3-** Conclude in medical researches on clear ethical basis. **B.4-** Use knowledge and learn according to standard basis worldwide. **B.5-** Apply and practice medicine according to concepts of evidence based medicine. **B.6-** Recognize common ethical dilemma and suggest a proper solution.
C- Professional and Practical Skills	**C.1-** Use a high professional approach with colleagues and patients. **C.2-** Modify steps of upgrading his/her educational, academic and clinical carriers. **C.3-** Use the standard guidelines in managing patients. **C.4-** Identify what is called as clinical governance and auditing his /her Performance.
D- General and transferable Skills	**D.1-** Identify how to respect his/herself and the profession. **D.2-** Develop adequate behavior and skill communications with community. **D.3-** Modify life and live like others sharing social and national affairs. **D.4-** Develop the capacity of helping people and share in upgrading their culture and education. **D.5-** Identify how to participate in the national and social affairs and responsibilities.

3- Course Contents

TOPIC	Lecture Hours	Practical Hours	Total hours
Medical Responsibility and Duties of the physician	2	1	3
Medicolegal aspect of cloning	2	1	3
Defensive Medicine	2	1	3
Diagnosis of death & Death Certificates	2	1	3
Consent in medical field	2	1	3
Medical malpractice	2	1	3
Medical syndicate	2	1	3
Professional secrecy	2	1	3
Physician disciplinary proceeding	2	1	3
Domestic Violence	2	1	3
Euthanasia (Mercy death)	2	1	3
Ethics in medical research	2	1	3
Medical reports	2	1	3
Rules of using addictive drugs among physicians	2	1	3
Medical certificates	2	1	3
Total	(30 hr.) ٢/W	(15 hr.) 1/W	(45 hr.) 3/W

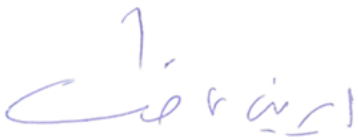
4- Teaching and Learning Methods	4.1 - Straight lectures; power point presentations 4.2 - Practical lessons 4.3 - Brain storming with the students 4.4 - Questions and Answers
5- Teaching and Learning Methods to students with limited Capacity	(Not applicable)
6- Student Assessment	
A. Student Assessment Methods	**TENDANCE CRITERIA**: by Faculty laws (log book) **ASSESSMENT TOOLS:** *Final Written exam: short essay to asses knowledge and understanding. problem solving to asses intellectual skills MCQ to assess knowledge and intellectual skills. *Oral exam; to asses knowledge and understanding. Also intellectual skills, attitude, and communication. *Practical exam: to assess practical and professional skills.
B. Assessment Schedule	• Final Written exam week: 24-28 • Oral exam week: 24-28 • Practical exam week: 24-28
C. Weighting of Assessment	• Final Written exam 40% (40 Marks) • Oral & Practical exams 60% (60 Marks) • Total 100% (100 Marks)
7- List of References	
A. Course Notes/handouts	Department book by staff members. Log Book.
B. Essential Books (text books)	Medical Ethics Manual, 2nd Edition John R. Williams, 2009. Medical Ethics, 2nd Edition, Michael Boylan, 2014.
C. Recommended Books	Text book of medical ethics, Erich H. Loewy, 1989
D. Periodicals	Journal of Medical Ethics Journal of Medical Ethics and History of Medicine
E. Web sites	https://en.wikipedia.org/wiki/Medical_ethics https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5074007/
8- Facilities required for teaching and learning	Classrooms for theoretical lectures and tutorials

Course Coordinators:

Prof. Dr. Morid Malak Hanna

Dr. Mennatallah Mahmoud Ahmed

Head of Department: Prof. Dr. Irene Atef Fawzy



Date of last update & approval by department council: 5/3/2023

Course Specification of Medical Ethics **Master degree of all clinical** **(First part))**	**مسمى المقرر**
	كود المقرر

جامعة/أكاديمية : .....المنيا.....

كلية / معهد: .....الطب البشرى.....

قسم: .....الطب الشرعى والسموم الأكلينكية.....

A. The Matrix of Coverage of Course IL by Contents

Contents	**Intended Learning Outcomes (ILOs)**			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Medical Responsibility and Duties of the physician	**A1,3**	**B4**	**C1**	**D1,2**
Medicolegal aspect of cloning	**A1,2**	**B3**	**-**	**-**
Defensive Medicine	**A4,5**	**B6**	**C3**	**D3**
Diagnosis of death & Death Certificates	**A1,2**	**B2**	**-**	**-**
Consent in medical field	**A2,5**	**-**	**-**	**-**
Medical malpractice	**A1,6**	**B5**	**C4**	**D5**
Medical syndicate	**A5,6**	**B3**	**-**	**-**
Professional secrecy	**A1,2,3**	**-**	**-**	**D4**
Physician disciplinary proceeding	**A2,4,5**	**B2**	**-**	**D1.2,3**
Domestic Violence	**A2,4,6**	**-**	**C2**	**-**
Euthanasia (Mercy death)	**A1,3,4**	**B1**	**-**	**-**

Ethics in medical research	**A1,2**	**-**	**-**	**-**
Medical reports	**A3,4**	**-**	**C1,2**	**D1.2**
Rules of using addictive drugs among physicians	**A1,4**	**B1,2**	**-**	**-**
Medical certificates	**A1,6**	**B3,5**	**C3**	**D1,4**

B. 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	A1,2,3,4,5,6	B1,2,3,4,5,6	-	-
Practical	-	-	C1,2,3,4	-
Presentation/seminar	-	-	-	D1,2,3,4,5
Journal club	-	-	-	-
Thesis discussion	-	-	-	-
Training courses & workshops	-	-	-	D1,2,3,4,5

C. 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	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-
Practical exam	-	-	C1,2,3,4,5	-
Oral Exam	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-

Blueprint of 1st master of Urology

Postgraduates" Medical Ethics Examination Paper (40 marks)

	Topic	Hours	Knowledge %	Intellectual%	% of topic	N of items Per topic	Knowledge		Intellectual		Marks	Actual Mark
							N of items	Mark	N of items	Mark		
1	**Medical Responsibility and Duties of the physician & Defensive Medicine**	4	75	25	**13.32**	1	1	**5.32**	1	**10**	**5.32**	**5**
2	**Medicolegal aspect of cloning**	2	75	25	**6.66**	1	1	**2.66**	---	**---**	**2.66**	**3**
3	**Diagnosis of death & Death Certificates**	2	75	25	**6.66**	1	1	**2.66**	---	**---**	**2.66**	**3**
4	**Consent in medical field & Medical malpractice**	4	70	30	**13.32**	1	1	**5.32**	1	**10**	**5.32**	**5**
5	**Medical syndicate &Professional secrecy**	4	75	25	**13.32**	1	1	**5.32**	---	**---**	**5.32**	**5**
6	**Physician disciplinary proceeding & Euthanasia (Mercy death)**	4	75	25	**13.32**	1	1	**5.32**	1	**10**	**5.32**	**5**
7	**Domestic Violence**	2	70	30	**6.66**	1	1	**2.66**	---	**---**	**2.66**	**3**
8	**Ethics in medical research**	2	80	20	**6.66**	1	1	**2.66**	---	**---**	**2.66**	**3**
9	**Medical reports & Medical certificates**	4	80	20	**13.32**	1	1	**5.42**	1	**10**	**5.42**	**5**
10	**Rules of using addictive drugs among physicians**	2	75	25	**6.76**	1	1	**2.66**	---	**---**	**2.66**	**3**
	Total	**30**			**100%**			**40**		**40**	**40**	**40**

Course Specifications of Medical Microbiology and Immunology for Urology master program (UR200)

University: Minia

Faculty: Medicine

Department: Medical Microbiology and Immunology

<table>
<tr><td colspan="3">2. Course Information</td></tr>
<tr><td>Academic Year/level:
postgraduate students</td><td>Course Title: Medical Microbiology and Immunology for Urology postgraduate students.</td><td>Code: UR200</td></tr>
<tr><td colspan="3">- Number of teaching hours:
- Lectures: Total of 40 hours; 2 hours/week
- Practical/clinical: Total of 5 hours; 1 hours/week</td></tr>
<tr><td>1.Overall Aims of the course</td><td colspan="2">By the end of the course the student must be able to:
1. Know the different types of pathogens, their structure and pathogenesis
1. Know the different methods for laboratory diagnosis and control of different infectious agents.
3. Know the different molecular microbiological techniques and their applications.
4. Know the basics of the host-parasite relationships and the role of the immune system in defending the body against different pathogens and its role in health and disease.
5. Know the principles of biosafety measures and aseptic precautions.</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>
</table>

A-Knowledge and Understanding	A1. Identify microbial morphology, structure, metabolism and physiology of medically significant microorganisms. A2. Discuss the basis of microbial genetics and biotechnology techniques and their applications. A3. Recognize the taxonomy and classification of different microorganisms. A4. Identify the natural habitat, source of infection and mode of transmission of the different classes of pathogens causing urinary tract infections. A5. Identify the different levels of host-parasite relationship and recognize the microbial virulence factors A6. Recognize the role of the immune system in the health and disease of the human being. A7. List the causes, sources, mode of transmission and treatment of nosocomial infections and know the different methods for infection control in operative rooms.
B-Intellectual Skills	B1. Analyze of different cases of infection to reach a final diagnosis and microbiological identification of the causative organism B2. Solve problems associated with different infections such as microbial resistance to antimicrobial agents, reach a final diagnosis of a certain pathological condition caused by an infectious organism.
D- Professional and Practical Skills	C1. Apply professional applications such as managing a microbiology laboratory. C2. Differentiate between different microbes at microbiology laboratory using basic techniques C3. Apply standards of infection control C4. Apply standard protocol in collection of pathological samples
D-General and transferable Skills	D1. Manipulate microbiological samples and reach a microbiological diagnosis of an infection. D2. Write protocols for identification of a given microorganism. D3. Communicate with colleagues and patients regarding a case caused by a microorganism. D4. Work in/with different groups. D5. Manage a microbiological laboratory.

4.Course Contents			
Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
1. Introduction and collection of pathological samples		1	1
2. Cleaning, sterilization and disinfection		1	1
3. Antimicrobial chemotherapy	2	1	3
4. Bacteremia, toxemia and toxic shock	2		2
5. Fever	2		2
6. Laboratory techniques used in epidemiology		1	1
7. Basic immunology 1	2		2
8. Basic immunology 2	2		2
9. Hypersensitivity reactions	2		2
10. Staphylococci	2		2
11. Mycobacterial infections	2		2
12. Enterobacteriacae	2		2
13. General virology	2		2
14. Viral Hepatitis	2		2
15. Human immunodeficiency	2		2
16. Covid-19	2		2
17. Bacterial, viral and fungal respiratory tract infections	2		2
18. Bacterial, viral and fungal GIT infections	2		2
19. Urinary tract infections	2		2
20. Blood-transmitted diseases	2		2
21. Vector-transmitted diseases	2		2
22. Nosocomial infections	2		2
23. Infection control and Occupational safety	2	1	3

Total	40	5	25
5.Teaching and Learning Methods	Lectures Practical sessions Seminars		
6.Teaching and Learning Methods for students with limited Capacity	Self-learning activities such as use of internet and multimedia.		
7.**Student Assessment**			
A.Student Assessment Methods	End of course written exam: A paper based exam **to assess** the student's comprehension and understanding of the class work Oral exam: to assess student's intellectual and communication abilities regarding basic knowledge and understanding of the course topics.		
B.Assessment Schedule (Timing of Each Method of Assessment)	End of course exam (written and oral exams) **Week** 23		
C.Weighting of Each Method of Assessment	Final written Examination: 15 marks Oral Examination:22.5 marks Total 37.5 marks		
8.List of References			
E. Course Notes/handouts	Department Books, and notes on Medical Microbiology and Immunology by microbiology department, Faculty of medicine, Minia university		
F. Essential Books	Jawetz, Melnick and Adelberg's Medical Microbiology 17th edition by Riedel. S (2019); McGraw-Hill Education Review of Medical Microbiology and Immunology 17th edition by warren levinson (2022); McGraw-Hill Education		
G. Recommended Text Books	Janeway's Immunobiology 9th edition by Kenneth Murphy and Casey Weaver, (2016); Garland Publishing Inc. NY, London.		
H. Periodicals, websites	TBD and updated during the course work		
Course Coordinator: Dr. Dalia Nabil			

Head of Department : Prof. Dr. Wafaa Khairy

A. Matrix between ILOs and course topics

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. Introduction and collection of pathological samples	A3 A5 A7	B1	C1,C4	D4 D5
2. Cleaning, sterilization and disinfection	A3 A5 A6	B1	C1,C3	D1 D3
3. Antimicrobial chemotherapy	A1 A5 A6	B1	C1	D1 D3
4. Bacteremia, toxemia and toxic shock	A1 A5 A7	B1 B2	C1	D1 D2 D3
5. Fever	A1	B1	C1	D1 D3 D5
6. Laboratory used in epidemiology	A1	B1	C1,C2	D1 D4
7. Basic immunology 1	A3 A7	B1	C1,C4	D3
8. Basic immunology 2	A1 A2 A4	B1	C1,C4	D1 D3 D4
9. Hypersensitivity reactions	A3 A4 A5	B1 B2	C2	D1
10. Staphylococci	A1,A6, A7	B1	C4	D1 D3 D4
11. Mycobacterial infections	A1 A5	B1 B2	C1, C4	D1 D3 D4

12. Enterobacteriaceae	**A3 A4**	**B1**	**C1**	**D5**
13. General virology	**A3 A4**	**B1**	**C1,C2**	**D3**
14. Viral Hepatitis	**A1 A3**	**B1 B2**	**C1, C4**	**D1 D3**
15. Human immunodeficiency	**A5 A6**	**B1**	**C1, C3**	**D1 D3 D4**
16. Covid-19	**A1,A1,A3**	**B1,B2**	**C1 C3**	**D1,D1,D3**
17. Bacterial, viral and fungal respiratory tract infections	**A4 A5 A6**	**B1**	**C1**	**D3 D4**
18. Bacterial, viral and fungal GIT infections	**A3 A4**	**B1**	**C 1 C4**	**D3 D4**
19. Urinary tract infection	**A1 A2 A3**	**B1**	**C1 C4**	**D4 D5**
20. Blood-transmitted diseases	**A1 A2 A4 A6**	**B1**	**C1 C4**	**D3 D5**
21. Vector-transmitted diseases	**A4 A5**	**B1**	**C1 C4**	**D3**
22. Nosocomial infections	**A1**	**B1**	**C1 C2 C4**	**D4 D5**
23. Infection control and Occupational safety	**A1 A2 A3**	**B1**	**C1 C4**	**D4**

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

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 A2 A3 A4 A5 A6 A7	B1		
Practical			C1 C2 C3 C4	D1 D2 D5
Presentation/seminar				D3 D4

C.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	A1 A2 A3 A4 A5 A6 A7	B1 B2		D1 D5
Oral Exam				D2 D3 D4 D5

Blueprint of Medical Microbiology and Immunology Exam paper for 1st part of Master of urology (UR200) (15 marks)

(List of course topics)	HOURS	Intended learning outcomes ILOS		N of item per topic	% of topic	Knowledge & Understanding		Intellectual Skills		Total mark	Actual mark
Contents		Knowledge & Understanding	Intellectual Skills			No of items	mark	No of items	mark		
1. General Microbiology	8	70%	30%	4	20	2	2	1	1	3	3
2. Immunology	6	70%	30%	3	15	2	1.5	1	0.75	2.25	2
3. Bacteriology	6	70%	30%	3	15	2	1.5	1	0.75	2.25	2.5
4. Virology	6	70%	30%	3	15	2	1.5	1	0.75	2.25	2
5. Applied Microbiology	10	70%	30%	5	25	4	2.5	2	1.25	3.75	4
6. Nosocomial Infection and Infection control	4	70%	30%	2	10	2	1	1	0.5	1.5	1.5
Total	40				100%					15	15

Course Specifications of Pathology for 1st Part of Master Degree in Urology

1.Course Information

Course Title: Pathology
Code: UR100
Academic Year/level: Postgraduate, Master degree (1st part).
Date of specification approval: 2022/2023

• **Number of teaching hours:**

- **Lectures:** Total of 24 hours; 1 hour/week
- **Practical/clinical:** Total of 12 hours., 1 hour/week

2. **Overall Aims of the course**

By the end of the course the student must be able to:

1. Explain theories, basics & recent advances in the field of pathology.
2. Appraise & interpret relevant basic information and correlate them with essential clinical data to reach a final diagnosis
3. Plan for the development of acquisition of skills of basic & modern pathological laboratory techniques as well as principals of pathology.
4. Demonstrate competency on dealing with various biopsies and reporting pathological features and correlate such information with the relevant provided clinical data.

3. **Intended learning outcomes of course (ILOs):**

Upon completion of the course, the student should be able to:

A- Knowledge and Understanding	A.1. Identify acute inflammation and its types as well as its pathological features and complications A.2.Discuss pathological features of chronic inflammation, and granuloma in relation to its morphological and etiological types A.3. Define tuberculosis, discuss methods of infection, the sites of primary and secondary infection, pathological features and its fate. A4. Define repair, fibrosis, and regeneration with examples, pathological processes, and Discuss bone healing and wound healing. A.5. Identify different forms of bacterial infections as bacteraemia, septicaemia, toxaemia and pyaemia. Mention their causes and effects on different organs A.6 Explain cellular response to injury, etiology and pathological features of reversible cell injury and irreversible cell injury

	A.7.Identify hemodynamic disorders as thrombosis, embolism, ischemia, infarction, hemorrhage, gangrene and edema and mention their causes and effects on different organs. A.8. Identify hypersensitivity reactions and pathogenesis of autoimmune diseases. A.9. Define each term with examples as hypertrophy, hyperplasia, agenesis, hypoplasia, aplasia and atrophy. Distinguish between the disorders of differentiation of the cells as dysplasia and metaplasia. A.10. Define neoplasia, classification of tumors, describe grading and staging of malignant tumors. Define metastasis, describe mechanism of spread, and Outline the main routes A.11. Define pyelonephritis, its etiology, types pathological features and complication. A.12. Discuss urinary calculi, its types, causes and complication. A.13. Define hydronephrosis, causes, , pathological features and complications. A.14. Identify benign and malignant kidney tumors, and pathological features. A.15. Discuss congenital anomalies of urinary bladder and inflammation of the urinary bladder, its types, causes and pathological features. A.16. Identify benign and malignant urinary bladder tumors, and pathological features.
B- Intellectual Skills	B.1.Predict the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes. B2. Interpret a pathology report and integrate gross and microscopic findings with the underlying etiology. B3. Integrate the obtained information to solve a problem in a case scenario to reach a provisional diagnosis
C- Professional and Practical Skills	C1- Write adequate pathological description concerning main features of gross appearance of a specimen. C2- Use the light microscope to examine and identify microscopic findings of some selected examples of studied diseases. C3- Handle and process tissue specimens sent for pathological examination. C4- Write a pathological request
D- General and transferable Skills	D1. Demonstrate efficient communication & interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, other health care professionals, and patients D.2. Use efficiently the information technology and select reliable sources of information to get essential information and updates regarding the different topics and techniques in surgical pathology.

	D.3. Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education D.4. Demonstrate the skills of effective time management

4.Course content

Topic	Lecture hours	Practical hours	ILOs
1. Acute inflammation	1	1	A1
2. Chronic inflammation and granuloma	1	1	A2
3- Granuloma	١	١	A3
4- Healing and repair	١	-	A4
5- Bacterial infection	١	-	A5
6-Cell injury	1	1	A6
7-Hemodynamic disorders	2	2	A7
8- Cellular adaptation	1	-	A8
9. Neoplasia	2	1	A9
10- pyelonephritis	2	1	A10
11- urinary calculi	2	1	A11
12- hydronephrosis	2	١	A12
13- Tumors of the kidney	2	1	A.13
14- congenital anomalites of the urinary bladder and cystitis	٢		A14
15-Tumors of the urinary bladder	2	1	A15
16-Hematuria	1		A16
Total	24	12	-

5. **Teaching and Learning Methods**

5.1. Lectures: Both face to face & on-line.
5.2. Practical sessions: Gross pathology and histopathology
5.3. Self-learning activities for the topics studied in lectures or related topics; including libraries, E-learning (practical photographs and questions of different topics available online for student's assessments) and consulting professors for gathering information.
5.4. Tutorial & regular weekly seminars, case presentation, training courses & workshops.

6. **Teaching and Learning Methods for students with limited Capacity**

Not applicable

7. Student Assessment	
A. Student Assessment Methods	**1. Written exam** to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills. **2. Oral exam** to assess the student intellectual and communication skills regarding basic knowledge 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.
B. Assessment Schedule (Timing of Each Method of Assessment)	**Assessment 1: 1 written exam** by the end of course. **Assessment 2: Oral exam,** after the written exam
C. Weighting of Each Method of Assessment	**Type of Assessment** **Degree** **Written** examination (15) **Oral** examination. (22.5) • **Total** (37.5)

8. **List of References**	
A. Course Notes/handouts	1 -General pathology course notes prepared by the department staff and printed material of recorded lectures. **2-** Lectures' Handouts
B. Essential Books	1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017). 2- Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).

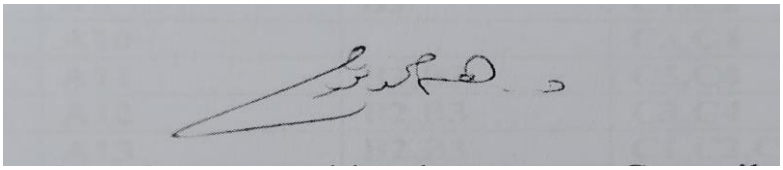
C. Recommended Text Books	1- Liang Jing & David Bostwick. Essentials of anatomic pathology (2011). 2- Diana W Molavi. The practice of surgical pathology; A beginners guide to the diagnostic process (2008).
D. Periodicals, websites	To be determined and updated during the course 1-American Journal of pathology 2-The Journal of pathology 3-Diagnostic Histopathology 4-Cancer 5- www.pubmed.com 6- www.pathmax.com

Course Coordinator/s:

Assistant Prof. Dr. Rehab kamal Mohammed

Head of Department

Prof. Dr. Heba Mohamed Tawfik



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

Course Specification Pathology **Master degree of Degree in Urology** **(First part))**	**مسمى المقرر**
UR100	**كود المقرر**

جامعة/أكاديمية : .....المنيا.....
كلية / معهد: .....الطب البشرى.....
قسم: .....الباثولوجي.....

D. The Matrix of Coverage of Course IL by Contents

content	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Acute inflammation	A1	B3	C1	D1,2
Chronic inflammation and granuloma	A2	-	C1	-
Granuloma	A3	B3	C1	D3
Healing and repair	A4	-	C1	-
Bacterial infection	A5	B3	C1	-
Cell injury	A6	B3	C1,C2	
Hemodynamic disorders	A7	B3	C1,C2	-
Cellular adaptation	A8	-	C1,C2	D1
Neoplasia	A9	B3	C1,C2	D2
pyelonephritis	A10		C3,C4	D3,D4
Urinary calculi	A11	B2,B3	C3,C4	D1,D3
hydronephrosis	A12	B2,B3	C3,C4	D2,D3
Tumors of the kidney	A13	B2,B3	C1,C2,C3,C4	D3
Congenital anomalies of urinary bladder and cystitis	A14	B3	C2,C3,C4	D4
Tumors of urinary bladder	A15	B3	C1,C2,C3	
Hematuria	A16	-	-	-

B.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	A1,2,3,4,5,6,7,8,9,10,11,12,13,14,15.16	B1,2,3	-	D1,2,3,4
Practical	-	-	C1,2,3,4	D3,4
Clinical (Including grand rounds)	-	-	-	-
Presentation/seminar	A11,12,13,14,15,	B1,2,3	C1,2,3,4	D1,2,3
Journal club	-	-	-	-
Thesis discussion	-	-	-	-
Training courses & workshops	A13,14,15	B1,2,3	C3,4	D3,4

C. 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	A1,2,3,4,5,6,7,8,9, 10,11,12,13,14,15. 16	B1 B2 B3		
Oral Exam	A1,2,3,4,5,6,7,8,9,1 0, 11,12,13,14,15.16	B2 B3		

Blueprint of Urology Department

Postgraduate Pathology Course for Master's degree (1st part) of Urology

Topic	Hours	Knowledge %	Intellectual%	Weight %	Actual Mark
1-Acute inflammation	1	75	25	4.1	0.5
2-Chronic inflammation	1	75	25	41	0.5
3-Granuloma	1	75	25	4.2	0.5
4-Repair& Healing	1	75	25	4.1	0.5
5-Bacterial infection6	1	75	25	4.1	0.5
6-Cell injury	1	75	25	4.1	0.5
7-Hemodynamic disorders	2	75	25	8.3	1.5
8-Cellular adaptation	1	75	25	4.1	0.5
9-Neoplasia	2	75	25	8.3	1.5
10- pyelonephritis	**2**	75	25	8.3	1.5
11- urinary calculi	**2**	75	25	8.3	1.5
12- hydronephrosis	**2**	75	25	8.3	1.5
13- Tumors of the kidney	**2**	75	25	8.3	1.5
14- congenital anomalites of the urinary bladder and cystitis	2	75	25	8.3	1
15-Tumors of the urinary bladder	2	75	25	8.3	1
And Hematuria	1	75	25	8.3	0.5
Total	**24**			100%	15

Pharmacology course specification for master degree in Urology (First part)

University: *Minia*
Faculty: *Medicine*
Department: Medical Pharmacology
Last date of approval 1/2023

20. Basic Information		
• **Academic Year/level:** First Part of Master Degree	• **Course Title**: First Part of Master Degree in **Urology**	• **Code**:
• *Number of teaching hours:* **Lectures: 22 hours; 2 Hours/week** **Practical: 0**		
21. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-Gain knowledge about all molecular basics and diseases.	
22. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A.Knowledge and Understanding	A1. Mention the basic biochemical and physiological activities, their disturbances and how to be corrected. A.2 Define general pharmacokinetics as well specific properties of different groups of drugs putting into consideration age, sex and genetic-	

	related variations that affect the response to drugs (pharmacogenetics). A.3 Recall general pharmacodynamics as well specific properties of different groups of drugs that include the drug's mechanism of action and pharmacological effects. A.4 List pharmacotherapeutics which reflects the role of drugs in prevention, diagnosis and treatment of diseases as well as prevention of conception. It includes also pathopharmacology of diseases and drugs, indications, contraindications, adverse reactions and drug interactions especially in high risk groups (extremes of age, pregnancy and lactation, liver kidney and cardiac diseases). Pharmaco-economics is included in this category. A.5 Memorize Systemic pharmacology which includes drugs acting on different body systems such as cardiovascular, autonomic, respiratory, gastrointestinal, endocrine, blood ,……. A.6 Identify the basic, and ethics of scientific research. A.7. List the principles of quality in professional practice in the field of therapeutics and applied pharmacology.
M- Intellectual Skills	B.1 Select drugs safely and efficiently knowing their limits and the potential risks B.2 Solve medical problems arising from use of drugs and the development of resistance or tolerance encouraging them to search for alternative approaches after revising the diagnosis.

	B.3 Integrate clinical and laboratory results in different management activities. B.4 Interpret data in front of a panel of experts. B.5 Formulate management plans and alternative decisions in different situations in the field of Pharmacology. B.6.Assess risk in research and experimentation using new drugs and/or chemicals. B.7. Plan for the development of performance in the field of therapeutics and pharmacological researches. B.8.Assess different clinical problems and formulate pharmacological researches to solve such problems. B.9. Combine knowledge for Professional problems' solving.
N- Professional and Practical Skills	C.1 Evaluate the need of his/her career to join the major advances in drug information C.2 Perform the basic lab skills essential to the course. C.3 Use information technology in some of the pharmacology related situations.
O- General and transferable Skills	After completing the course, the student should be able to D1- Perform practice-based improvement activities using a systemic methodology (share in audits and risk management activities and use logbooks).

	D3- Collect and verify data from different sources. D4- Analyze and interpret data. D5-Appraise evidence from scientific studies. D6- Use information technology to manage information, access on-line medical researches to support his/her own education.

4- Course Contents

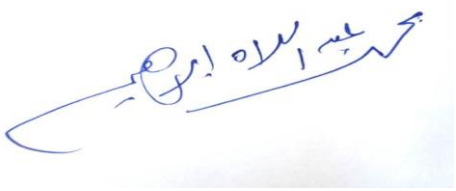
Topic	Lecture hours/week	Practical/ Clinical hours/week	Total No. of hours hours/week
Pharmacokinetic variables	3	-	3
Drug interactions and adverse drug reactions	2	-	2
Autonomic Pharmacology	3	-	3
Diuretics	2	-	2
Corticosteroids	1	-	1
Nonsteroidal anti-inflammatory drugs	2	-	2
Sedative hypnotic drugs	1	-	1
Chemotherapy	6	-	6
Urinary antiseptics	1	-	1
Treatment of Shock	1	-	1
Total	**22**		**22**

5-Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity
7- Student Assessment	
A-Student Assessment Methods	**1- Written exam** to assess the capability of the student for assimilation and application of the knowledge included in the course. **2-Oral exam** to assess the student intellectual and communication skills regarding basic knowledge 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
B-Assessment Schedule (Timing of Each Method of Assessment)	***Assessment 1: one written exam*** *by the end of the course* **Assessment 2:** ***Oral exam,*** *after the written exam* **Formative only assessment:** log book.

8-Weighting of Each Method of Assessment	**Written examination: 12 marks 40%** **Oral examination: 18 marks 60%** **Total: 30 marks 100%**
9- List of References	
I. Course Notes/handouts	Lecture notes prepared by the staff members in the department.
J. Essential Books	Lippincotts pharmacology 6th Edition (2015)
K- Recommended Text Books	- Goodman & Gilman, 14th edition - Katzung Basic and clinical pharmacology 15th edition -Rang and Dale's Pharmacology, Seventh Edition- H. P. Rang
K. Periodicals, websites	Pharmacological Reviews - Journal of Pharmacology and Experimental therapeutics - British journal of pharmacology - European journal of pharmacology - Pharmacological research **http://www.ncbi.nlm.nih.gov/pubmed/**

Course Coordinator:

Ass. Prof. Dr. Seham Abdelwakeel



Head of Department:

Professor Dr. Mohamed Abdellah Ibrahim

Date of <u>last update</u> & approval by department Council: 1 / 2023

مسمى المقرر	جزء اول ماجستير المسالك البولية
كود المقرر	

جامعة/أكاديمية : ..المنيا.....
كلية / معهد..... :الطب.....
قسم : **الفارماكولوجي**

A. 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
Pharmacokinetic variables	+	+	+		
Drug interactions and adverse drug reactions	+	+	+	+	
Autonomic Pharmacology	+	+	+	+	
Diuretics	+	+	+	+	
Corticosteroids	+	+	+		
Nonsteroidal anti-inflammatory drugs	+	+	+	+	
Sedative hypnotic drugs	+	+	+	+	
Chemotherapy	+	+	+	+	+
Urinary antiseptics	+	+	+	+	+
Treatment of Shock	+	+	+	+	+

B. 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	X	x		
Practical				
Presentation/seminar	X	X	X	
Journal club				
Thesis discussion				
Training courses & workshops		X	X	X

Other/s (Specify)				

C. 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	X	X	X	
Oral Exam	X	X		X
Assignment	X		X	X
Other/s(Specify)				

Blueprint of Urology MSC (Pharmacology Examination Paper)

12 Mark

	Topics	HOURS	Knowledge %	Intellectual %	% of topics	Mark	Actual mark
1	Pharmacokinetic variables	3	100	0	13.63	1.63	1.5
2	Drug interactions and adverse drug reactions	2	70	30	9	1.08	1
3	Autonomic Pharmacology	3	70	30	13.63	1.63	1.5
4	Diuretics	2	80	20	9	1.08	1
5	Corticosteroids	1	80	20	4.54	0.54	0.5
6	Nonsteroidal anti-inflammatory drugs	2	70	30	9	1.08	1
7	Sedative hypnotic drugs	1			4.54	0.54	0.5
8	Chemotherapy	6	60	40	27.27	3.27	3.5
9	Urinary antiseptics	1			4.54	0.54	1
10	Treatment of Shock	1	75	25	4.54	0.54	0.5
	Total	**22**			**100%**		**12**

Medical Physiology Course Specifications

For 1st Part Master (MSc) Degree in UROLOGY

University: *Minia*

Faculty: *Medicine*

Department: Medical Physiology.

Last date of approval 3/2023

23. Basic Information		
• **Academic Year/level:** First Part of M • aster Degree	• **Course Title**: Physiology course specifications for 1st part **MSc** degree of **Urology**	• **Code**:UR200
• *Number of teaching hours:* **Lectures: 48 hours; 2 Hours/week** **Practical: 0**		
24. Overall Aims of the course	***By the end of the course the student must be able to:*** Provide the postgraduate students with knowledge about the physiological principles underlying **Urology** diseases that aid in interpretation of symptoms, investigations and management.	
25. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A.Knowledge and Understanding	**A1. Describe the Physiology of Blood:** **1.1.** General constituents of blood & their functions.	

	1.2. Clinical conditions resulting from abnormalities of blood components. **A2. Explain the Physiology of Cardiovascular system:** **2.1.** Arterial blood pressure (ABP). **2.2.** Hemorrhage & Shock. **A3. Explain the Physiology of Autonomic Nervous System:** **3.1.** Distribution & functions of sympathetic and parasympathetic. **3.2.** Chemical transmission in ANS. **A4. Describe the Physiology of Central Nervous System:** **4.1.** Pain sensation; types, effects and control mechanisms. **A5. Discuss the Physiology of Respiratory System:** **5.1.** Acid-base balance. **5.2.** Control of respiration, Hypoxia & Cyanosis. **A6. Identify the Physiologic principles of Endocrine System:** **6.1.** Calcium homeostasis. **6.2.** Glucose Homeostasis **A7. Discuss Regulation of body temperature & fever in metabolism**. **A8. Discuss in details the Physiology of Renal System (Specialty):** **8.1.** Functional Organization of the kidney and renal blood flow. **8.2.** Mechanism of urine formation I: (Glomerular filtration). **8.3.** Mechanism of urine formation II: (Reabsorption and secretion). **8.4.** Renal concentration and dilution of urine. **8.5.** Functions of early and late distal tubule and collecting ducts. **8.6.** Hormonal mechanisms that regulate tubular function. **8.7.** Tubular load, tubular transport maximum (Tm) and gradient time transport. **8.8.** Micturition reflexes, higher control & abnormalities.

B- Intellectual Skills	*By the end of the course, the student should be able to:* **B1.** Develop the skills for demonstrating different functions of the body systems related to Urology to diagnose deviation from normality as detected disease state. **B2.** Assess the problems associated with different factors, which affect the normal function of different body systems related to Urology.
C- Practical Skills:	**Practical hours: -**
D- General and Transferable Skills:	*By the end of the course, the student should be able to:* **D1.** Adopt the principles of lifelong learning. **D2.** Prepare and present clearly and effectively a scientific topic in a tutorial, a staff meeting or the yearly scientific day. **D3.** Work efficiently within a team, honor and respect his colleagues.

4- Course Contents

Topic:	**No. of Lectures**	**Total no. of hours**
1. Blood: • General constituents of blood & their functions. • Clinical conditions resulting from abnormalities of blood components.	**2**	**4**
2. Cardiovascular system: • Arterial blood pressure. • Haemorrhage & Shock.	**2**	**4**
3. Autonomic Nervous System: • Distribution & functions of sympathetic and parasympathetic. • Chemical transmission in ANS.	**2**	**4**
4. Central Nervous System: • Pain sensation.	**1**	**2**
5. Respiratory System:		

• Acid-base balance. • Mechanism of respiration, hypoxia and cyanosis.	**2**	**4**
6. Endocrine System: • Calcium homeostasis. • Glucose Homeostasis.	**2**	**4**
7. Metabolism: • Regulation of body temperature & fever.	**1**	**2**
8. Physiology of Renal system (Specialty Topics): • Functional Organization of the kidney and renal blood flow. • Mechanism of urine formation I: (Glomerular filtration). • Mechanism of urine formation II: (Reabsorption and secretion). • Renal concentration and dilution of urine. • Functions of early and late distal tubule and collecting ducts. • Hormonal mechanisms that regulate tubular function. • Tubular load, tubular transport maximum (Tm) and gradient time transport. • Micturition reflexes, higher control & abnormalities.	**8**	**24**
Total	**20**	**48**
5-Teaching and Learning Methods	1. Lectures (2hr/wk.) throughout the academic year interchangeable with recorded lectures. 2. Self-learning activities such as use of internet and multimedia.	

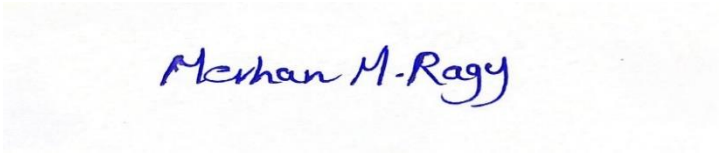
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity
7- Student Assessment	
A-Student Assessment Methods	1. **Written exam** to assess the student's knowledge in the form of short essay questions and /or MCQs. 2. **Oral exam** to assess student's knowledge, intellectual and general skills as well as assessing the verbal communication abilities. 3. **Log book.**
B-Assessment Schedule (Timing of Each Method of Assessment)	• **Assessment 1:** Final written exam (1 hr). • **Assessment 2:** Final oral exam.
8-Weighting of Each Method of Assessment	• **Final written exam** **12** marks (40%) • **Final oral exam** **18** marks (60%) • **Total** **30** marks (100%)
9- List of References	
L. Department books and notes.	Prepared by Medical Physiology Department staff members, Faculty of Medicine, Minia University.
M. Essential Books	Ganong review of medical physiology. Guyton text book of medical physiology.

N.	Periodicals, websites	

Course Coordinator,
Prof.Dr. Hanaa Mohamed Ibrahim
Prof. of Medical Physiology
Faculty of Medicine, Minia University

Head of Department
Prof. Dr. Merhan Mamdouh Ragy
Prof. of Medical Physiology
Faculty of Medicine, Minia University

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



Physiology course specifications for **1st Part MSc degree in Urology**	مسمى المقرر
UR200	كود المقرر

A. Matrix of Coverage of Course ILOs by Contents

Contents	**Intended Learning Outcomes ILOs**																								
	A. Knowledge & Understanding																				**B. Intellectual skills**		**D. General & Transferable Skills**		
	A 1.1	**A 1.2**	**A 2.1**	**A 2.2**	**A 3.1**	**A 3.2**	**A 4.1**	**A 5.1**	**A 5.2**	**A 6.1**	**A 6.2**	**A 7.1**	**A 8.1**	**A 8.2**	**A 8.3**	**A 8.4**	**A 8.5**	**A 8.6**	**A 8.7**	**A 8.8**	**B 1**	**B 2**	**D 1**	**D 2**	**D 3**
1. Physiology of Blood	X	X																			X	X	X	X	X
2. Cardiovascular system (CVS)			X	X																	X	X	X	X	X
3. Autonomic Nervous System					X	X															X	X	X	X	X
4. Central Nervous System							X														X	X	X	X	X
5. Respiratory System								X	X												X	X	X	X	X
6. Endocrine System										X	X										X	X	X	X	X
7. Metabolism												X									X	X	X	X	X
8. Renal System (Specialty)													X	X	X	X	X	X	X	X	X	X	X	X	X

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

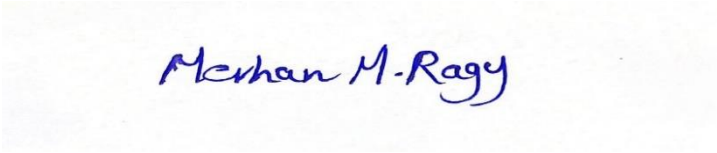
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lectures	X	X	-	X
Self-learning activities	X	X	-	X

C. 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	X	X	-	-
Oral Exam	X	X	-	X
Log Book	X	X	-	X

Head of Department,
Prof. Dr. Merhan Mamdouh Ragy
Prof. & Head of Medical Physiology Department
Faculty of Medicine, Minia University

Course Coordinator,
Prof.Dr. Hanaa Mohamed Ibrahim
Prof. of Medical Physiology
Faculty of Medicine, Minia University



Blueprint of Urology MSC Physiology Examination paper

Postgraduate Physiology Course for Master's degree (1st part) of Urology (Code: UR200) (12 marks)

Topic	Hours	Knowledge %	Intellectual %	Weight %	Total Marks	Actual Mark
ILOS A1 Physiology of Blood: General constituents of the blood and their functions.Clinical conditions resulting from abnormalities of blood components	4	75	25	8.3%	0.996	1
ILOS A2 Physiology of Cardiovascular system: Arterial blood pressure & Hemorrhage and Shock.	4	75	25	8.3%	0.996	1
ILOS A 3 and 4 Physiology of Autonomic Nervous system and Central Nervous System (CNS): Distribution & functions of sympathetic and parasympathetic, Chemical transmission in ANS. Pain sensation; types, effects and control mechanisms.**ILOS**	6	75	25	12.5%	1.5	2
ILOS A5, 6, and 7: **Physiology of Respiratory System:**Acid-base balance & Oxygen transport, hypoxia, and cyanosis. **Metabolism:** Regulation of body temperature. **Physiolog of Endocrine System:** Calcium homeostasis and Glucose Homeostasis	10	75	25	21%	2.52	2
ILOS A6 Physiology of the Kidney (Specialty): Functional Organization of the kidney and renal blood. Mechanism of urine formation I:(Glomerular filtration). Mechanism of urine formationII: (Reabsorption and secretion). *Renal concentration and dilution of urine*. The functions of early and late distal tubule and collecting ducts. The hormonal mechanisms that regulate tubular function.	24	75	25	50%	6	6

Tubular load, tubular transport maximum (Tm) and gradient time transport.						
Total	48	75	25	100%	12	12

Course Specification of Surgical pathology in Master degree in Urology

Faculty: Medicine

Department: Urology Department

1- Course Information		
Academic Year/level: 2nd part	**Course Title: Surgical pathology**	**Code**: UR 200
• **Number of teaching hours:** - **Lectures:** 2 hours/week = 136 hours - **Practical :** 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. Discuss basis of general and systemic pathology. a2. Identify etiology, pathogenesis and pathologic manifestation of diseases of urinary system & male genital system. a3. Explain gross and histopathology with the clinical basis of diseases of urinary system & male genital system. a4. Identify information about the fate and complications and prognosis of different diseases of urinary system & male genital system. a5. Discuss 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. Solve pathological problems in urology. b3. Interpret Data.	
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. Differentiate between 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	d1. Communicate effectively by all types of effective .communication d2. Use information technology to serve the .development of professional practice d3. Assess the candidate himself and identify personal .learning needs d4. Use different sources to obtain information and knowledge d5. Assess the performance of others.

E- Course Contents

Topic	No. of hours	Lecture	Tutorial/Practical
General Pathology:			
1.1 .Inflammation, wound healing & repair.	32	16	16
1.2 .Cell response to injury.	32	16	16
1.3 .Disturbances of circulation; hemorrhage & septic shock.	28	14	14
1.4 .Bacterial infection and tuberculosis.	30	15	15
1.5 .Parasitic diseases and mycotic diseases	30	15	15
1.6 .Disturbances of cellular growth.	30	15	15
1.7 .General pathology of tumors.	30	15	15
1.8 .Genetic diseases.	30	15	15
1.9 .Diagnostic cytology	30	15	15
Total	272	136	136

F- Teaching and Learning Methods	4.1- Lectures 4.2. Practical: Gross and histopathology (Jars & slides).
G- Teaching and Learning Methods for students with limited Capacity	Not applicable
H- **Student Assessment**	
G. Student Assessment Methods	٥,١Written examination to assess knowledge & understanding. 5.2. Practical exam on slides and jars .٥3. Oral examination to assess understanding & attitude. ٥,٤. Observation of attendance and absenteeism as bylaws.
H. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam Assessment 2: Oral / practical exam Assessment 3: Attendance and absenteeism as bylaws
I. Weighting of Each Method of Assessment	Final Written Examination: 70 Oral Examination: 105 Total: 175
I- List of References	
O. Course Notes/handouts	Principles of General and Special Pathology; Adami, John George, and Albert George Nicholls. The Principles of Pathology: Systemic Pathology. Vol. 2. Lea & Febiger, 1911.
P. Essential Books	Muir's text book of pathology; Herrington CS, editor. Muir's Textbook of Pathology. CRC Press; 2020 Feb 5. • Robbins pathologic basis of diseases; Robbins SL, Cotran RS. Pathologic basis of disease. Saunders; 1979.
Q. Recommended Text Books	•Stocker JT, Dehner LP, editors. Pediatric pathology. Lippincott Williams & Wilkins; 2001. • Sternberg SS, Mills SE, Carter D, editors. Sternberg's diagnostic surgical pathology. Lippincott Williams & Wilkins; 2004..
R. Periodicals, websites	American Journal - Open Journal of Pathology

	Human Pathology | Journal | ScienceDirect.com by Elsevier

Course Coordinator/s: Dr. Ahmed M. Fawzy
Head of Department:
Prof. Dr. Alayman Hussein Fathy

Date of <u>last update</u> & approval by department Council:
12/ 3 / 2023

Matrix of Coverage of Course ILOs By Contents

	Intended Learning Outcomes (ILOs)			
	A	**B**	**C**	**D**
1.1. Inflammation, wound healing & repair.	**1-3-4-5-6**			**1-2**
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			**3-5**
1.6. Disturbances of cellular growth.	1-3-4-5-6	**1-2-3**	**1-2-3**	
1.7. General pathology of tumors.	**1-3-4-5-6**	**1-2-3**	**1-2-3**	**4-5**
1.8. Genetic diseases.	**1-3**	**1-2-3**	**1-2-3**	**3-5**
1.9. Diagnostic cytology	**1-3-4**	**1-2-3**	**1-2-3**	**3-5**

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A	B	C	D
Lecture	1-2-3-4-5-6	1-2-3		
Practical			1-2-3	

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A	**B**	**C**	**D**
Written exam	**1-2-3-4-5-6**	**1-2-3**		
Practical exam			**1-2-3**	
Oral Exam	**1-2-3-4-5-6**	**1-2-3**		

Weighted distribution of examination marks for the course (Blueprint) of surgical pathology written exam.

	Topics	Hours	Knowledge %	Intellectual %	% of topics	Mark	Actual mark
1	.1.1 Inflammation, wound healing .& repair	4	80	20	20%	14	14
2	Cell .1.2 response to .injury	2	70	30	10%	7	7
3	.1.3 Disturbances of circulation; hemorrhage & .septic shock	2	60	40	10%	7	7
4	Bacterial .1.4 infection and .tuberculosis	2	80	20	10%	7	7
5	Parasitic .1.5 diseases and mycotic diseases	2	70	30	10%	7	7
6	.1.6 Disturbances of .cellular growth	2	70	30	10%	7	7
7	General .1.7 pathology of .tumors	2	80	20	10%	7	7
8	Genetic .1.8 .diseases	2	90	10	10%	7	7
9	Diagnostic .1.9 cytology	2	90	10	10%	7	7
10	Total	20			100%	70	70

University: Minia

Faculty: Medicine

Department: Urology

26.Course Information		
• **Academic Year/level:** second part	• **Course Title: Course Specification of Surgical urology in Master degree in urology**	• **Code**: UR 200
• **Number of teaching hours:** - **Lectures:** Total of 360 hours **(6 hr / wk) = 60 week (1.5 academic years)** - **Clinical training:** o **Scientific activities 120 total hours (2 hr/week) for 60 weeks (1.5 academic years)** o **Clinical activities (**7344 total hours (102 hr/week) for 72 weeks (1.5 continuous years of residency		
27.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 etiology, pathology and management of the urological diseases*	
28.Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
P- Knowledge and Understanding	a1. Identify the natural history of Genito-urinary problems. a2. Discuss the various diagnostic and laboratory techniques necessary to establish diagnosis of various Genito-urinary illnesses that need surgical intervention. a.3. Discuss techniques of surgical operations. a. 4 Describe mechanism of action, advantages, disadvantages, side effects and complications of laparoscopic surgery. a. 5. Define scientific development in the field of urology. a.6. Mention principles, ethics & legal aspects of professional practice in the field of urology. a.7. Define the principles of quality assurance of professional practice in the field 6f urology. a.8. Discuss effect of professional practice on the environment and methods of environmental development & maintenance.	
B- Intellectual Skills	By the end of the study of master program, the graduate should be able to: b. 1. Interpret data acquired through history taking to reach a provisional diagnosis for Urological problems. b.2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for urological problems. b.3. Integrate knowledge for professional problem solving. b.4. Conduct research studies and/or write a scientific study on a research problem. 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. Solve general surgical problems. b.8. Analyze reading of research & issues related to urology.	
C- Professional and Practical Skills	c1. Perform physical examination of patients for Genito-urinary problems and use tools existing in the area of urology. c.2 Apply the basic & modern professional skills in the area of urology. c.3. Write and evaluate of medical reports.	
D- General and transferable Skills	d.1. Communicate effectively by all types of effective communication. d.2. Use information technology to serve development of professional practice. d.3. Assess himself& identify of personal learning needs. d.4. Use different sources to obtain information & knowledge. d.5. Develop rules & indicators for assessing the performance of others. d.6. Work in a team and team's leadership in various professional contexts. d.7. Manage time effectively. d.8. Learn himself continuously.	

29.Course Contents			
Clinical Urology course	*		

Topic	Total no. of hours	Clinical Hours	No. of lectures
Surgical anatomy of the retroperitoneum, kidneys and ureter.	9	-	3
Anatomy of lower urinary tract and male genitalia	9	-	3
Urological assessment and investigations and urine analysis	9	-	3
Instrumentation and endoscopy	9	-	3
Urinary tract imaging and intervention	9	-	3
Etiology ,pathogenesis and management of renal failure	9	-	3
Urinary tract obstruction.	9	-	3
Renovascular hypertension and other renal vascular disease	9	-	3
Renovascular surgery	9	-	3
Infections and inflammations of the genitourinary tract	9	-	3
Prostatitis and related disorders	9	-	3
Interstitial cystitis and related disorders	9	-	3
Sexually transmitted diseases.	9	-	3
Parasitic diseases of genitourinary tract.	9	-	3
Fungal infections of genitourinary tract	9	-	3
Genitourinary tuberculosis	9	-	3
Urinary incontinence and voiding dysfunction.	9	-	3
Geriatric incontinence and voiding dysfunction.	9	-	3
Vaginal reconstructive surgery for incontinence	9	-	3
Erectile dysfunction : evaluation and management	9	-	3
Male infertility , reproductive function and dysfunction	9	-	3
Benign prostatic hyperplasia	9	--	3
Normal and anomalous development of urinary tract	9	-	3
Urinary tract infections in children and infants	9	-	3
Exstrophy – epispadias complex	9	-	3
Vesicoureteral reflux.	9	-	3
Hypospadias, posterior Ureteral valve	9	-	3
Congenital anomalies of testis and scrotum.	9	-	3
Enuresis	9	--	3
Renal tumors	9	-	3
Bladder cancer	9	-	3
Neoplasms of testis	9	-	3
Tumors of penis	9	-	3
Cancer prostate and radical prostatectomy	9	-	3
Urinary lithiasis	9	-	3
Endourologic and laparoscopy	9	-	3
Genitourinary trauma	9	-	3
Surgery of kidney and ureter	9	-	3
Bladder surgery ,augmentation cystoplasty, continent diversion	9	-	3
Surgery of testicular neoplasm	9	-	3
Total	360	-	120

II- CLINICAL training program:	**Weeks of training**	**Total numbers of hours**	**Teaching/lectures**	**practice**	**Clinical**
A: Scientific activities	**120 total hours (2 hr/week) for 60 weeks (1.5 academic years (3 semesters)**				
Coding of medical data,	20	40	-	40	-
Data registration ,	10	20	-	20	-
Data collection,	8	16	-	16	-
Morbidity & mortality meeting,	6	12	-	-	12
Guideline reading,	5	10	10	-	-
Case presentation,	4	8	-	-	8
Seminars	4	8	8	-	-
Journal club,	2	4	-	4	-
Scientific thesis/paper discussion,	1	2	-	2	-
Totals	60	120	18	82	20
Clinical activities	7344 total hours (102 hr/week) for 72 weeks (1.5 continuous years of residency				

Emergency department management	**72**	**1728**	**-**	**-**	**288 (24 hr/week) (1X 12hr-shifts weekly)**
Urology inpatient management	**72**	**1728**	**-**	**-**	**288 (24 hr/week) (1X 12hr-shifts weekly)**
Urology outpatient clinic management (6 hour daily clinic)	**72**	**1296**	**-**	**-**	**576 (18hr/week)**
Periprocedural management eg. Wound care, Catheter, PCN, SWL…etc)	**72**	**1296**	**-**	**288 (12 hr/weekly)**	**144 (6hr/week)**
Perioperative management (Op list, emergency operation)	**72**	**1296**	**-**	**144 (12 hr/weekly)**	**144 (6hr/week)**

30.Teaching and Learning Methods	4.1- Lectures 4.2- Clinical lessons 4.3- Assignments of residency training program 4.4- Validation of master thesis
31.Teaching and Learning Methods for students with limited Capacity	Not applicable
32.Student Assessment	
J. Student Assessment Methods	*5.1- Research assignment: to assess general transferable skills, intellectual skills.* *5.2- Written exams:* *• Short essay: to assess knowledge.* *• Problem solving: to assess general transferable skills, intellectual skills.* *5.3- Clinical exams: to assess practical skills, intellectual skills.* *5.4- OSCE: to assess practical skills, intellectual skills.* *5.5- Oral Exams: to assess knowledge.* *5.6- Structured oral exams: to assess knowledge*
K. Assessment Schedule (Timing of Each Method of Assessment)	Assessment by the end of the course Written Exam Oral exam Clinical exam Operative exam
L. Weighting of Each Method of Assessment	Written Examination 210 Clinical Examination 165 Oral Examination 150 Total 525
33.List of References	
S. Course Notes/handouts	Lectures notes prepared by staff members in the department.
T. Essential Books	*Smith AD. Smith's textbook of endourology. PMPH-USA; 2007.* *Ljungberg B, Albiges L, Abu-Ghanem Y, Bedke J, Capitanio U, Dabestani S, Fernández-Pello S, Giles RH, Hofmann F, Hora M, Klatte T. European Association of Urology guidelines on renal cell carcinoma: the 2022 update. European urology. 2022 Mar 26.* *AUA and NICE guidelines on surgical and minimally invasive treatment of benign prostate hyperplasia: a critical appraisal of the guidelines using the AGREE-II tool. Urologia Internationalis. 2022;106(1):1-0.*
U. Recommended Text Books	*Partin AW, Wein AJ, Kavoussi LR, Peters CA, Dmochowski RR. Campbell Walsh Wein Urology, E-Book. Elsevier Health Sciences; 2020 Jan 21.*
V. Periodicals, websites	International Journal of urology American Journal of urology

Course Coordinator/s:

Dr.

Ahmed M Fawzy

Head of Department:
Prof. Dr.
Alayman Hussein Fathy

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

12/3/2023

Matrix of Coverage of Course ILOs By Contents

Contents	Intended Learning Outcomes (ILOs)			
	A	**B**	**C**	**D**
Surgical anatomy.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Anatomy of lower urinary tract	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Urological assessment and investigations	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Instrumentation and endoscopy	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Urinary tract imaging and intervention	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Renal failure	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Urinary tract obstruction.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**-c2-c3**	**d1-d2-d3-d4-**
Renovascular hypertension	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Renovascular surgery	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Infections and inflammations of the UT.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1-c2-c3**	**d1-d2-d3-d4--d8**
Prostatitis and related disorders	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Interstitial cystitis and related disorders	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Sexually transmitted diseases.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	
Parasitic diseases of genitourinary tract.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c3**	**d1-d2-d3-d4-**
Fungal infections of genitourinary tract	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	**d2-d3-d4**

Genitourinary tuberculosis	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1-c2-c3**	
Urinary incontinence.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c2-c3-**	**- d1-d2-d3-d4-d5-d6-d7-d8**
Geriatric incontinence.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d7-d8**
Surgery for incontinence	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	**-d5-d6-d7-d8**
Erectile dysfunction :	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d7-d8**
Male infertility , reproductive function	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Benign prostatic hyperplasia	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c2-c3-**	**d1-d2-d3-d4-d5-d6-d7-d8**
Development of urinary tract	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Urinary tract infections in children	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	**- - -d5-d6-d7-d8**
Exstrophy – epispadias complex	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Vesicoureteral reflux.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Hypospadias, posterior Ureteral valve	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**-c1**	**-d2-d3-d4- -d7-d8**
Congenital anomalies of testis.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Enuresis	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	**d3-d4-d5-d6-**
Renal tumors	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Bladder cancer	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Neoplasms of testis	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Tumors of penis	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		

Cancer prostate and prostatectomy	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c2-c3**	**- -d4-d5-d6-d7**
Urinary lithiasis	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Endourologic and laparoscopy	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**-c1-c2-c3**	**d1-d2**
Genitourinary trauma	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1**	
Surgery of kidney and ureter	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**
Bladder surgery , cystoplasty.	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**	**c1-c3**	**d1-d2-d3-d4-d5-d6**
Surgery of testicular neoplasm	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		**d5-d6-d7-d8**

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

Methods of Teaching& Learning	Intended Learning Outcomes (ILOs)			
	A	**B**	**C**	**D**
Lecture	a1-a2-a3-a4-a5-a6- a7-a8	**B1-b2-b3-b4-b5-b6-b7-b8**		
Clinical (Including grand rounds)			1-2-3	
Presentation/seminar				1-2-3-**4-5-6-7-8**
Journal club				1-2-3-**4-5-6-7-8**
Thesis discussion				1-2-3-**4-5-6-7-8**
Training courses & workshops				1-2-3-**4-5-6-7-8**

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A	**B**	**C**	**D**
Written exam	**1:8**	**1:8**		
Clinical exam			1-2-3	
Oral Exam	**1:8**	**1:8**		

Blueprint of clinical urology course program

Weighted distribution of examination marks for the course (Blueprint) of surgical urology written exam.

	Topics	Hours	Knowledge %	Intellectual %	% of topics	Mark	Actual mark
1	Surgical anatomy of the retroperitoneum, kidneys and ureter.	9	80	20	3.3%	6.9	7
2	Anatomy of lower urinary tract and male genitalia	9	70	30	3.3%	6.9	7
3	Urological assessment and investigations and urine analysis	9	60	40	3.3%	6.9	7
4	Instrumentation and endoscopy	9	80	20	3.3%	6.9	7
5	Urinary tract imaging and intervention	9	70	30	3.3%	6.9	7
6	Etiology ,pathogenesis and management of renal failure	9	70	30	3.3%	6.9	7
7	Urinary tract obstruction.	9	80	20	3.3%	6.9	7
8	Renovascular hypertension and other renal vascular disease	9	90	10	3.3%	6.9	7
9	Renovascular surgery	9	90	10	3.3%	6.9	7
10	Infections and inflammations of the genitourinary tract	9	80	20	3.3%	6.9	7
11	Prostatitis and related disorders	9	70	30	1.7%	3.6	3.5
12	Interstitial cystitis and related disorders	9	60	40	1.7%	3.6	3.5
13	Sexually transmitted diseases.	9	80	20	3.3%	6.9	7
14	Parasitic diseases of genitourinary tract.	9	70	30	1.7%	3.6	3.5
15	Fungal infections of genitourinary tract	9	70	30	1.7%	3.6	3.5
16	Genitourinary tuberculosis	9	80	20	1.7%	3.6	3.5
17	Urinary incontinence and voiding dysfunction.	9	90	10	3.3%	6.9	7

18	Geriatric incontinence and voiding dysfunction.	9	90	10	3.3%	6.9	7
19	Vaginal reconstructive surgery for incontinence	9	80	20	3.3%	6.9	7
20	Erectile dysfunction : evaluation and management	9	70	30	1.7%	3.6	3.5
21	Male infertility , reproductive function and dysfunction	9	60	40	1.7%	3.6	3.5
22	Benign prostatic hyperplasia	9	80	20	3.3%	6.9	7
23	Normal and anomalous development of urinary tract	9	70	30	1.7%	3.6	3.5
24	Urinary tract infections in children and infants	9	70	30	1.7%	3.6	3.5
25	Exstrophy – epispadias complex	9	80	20	3.3%	6.9	7
26	Vesicoureteral reflux.	9	90	10	3.3%	6.9	7
27	Hypospadias, posterior Ureteral valve	9	90	10	3.3%	6.9	7
28	Congenital anomalies of testis and scrotum.	9	80	20	3.3%	6.9	7
29	Enuresis	9	70	30	1.7%	3.6	3.5
30	Renal tumors	9	60	40	1.7%	3.6	3.5
31	Bladder cancer	9	80	20	1.7%	3.6	3.5
32	Neoplasms of testis	9	70	30	1.7%	3.6	3.5
33	Tumors of penis	9	70	30	1.7%	3.6	3.5
34	Cancer prostate and radical prostatectomy	9	80	20	1.7%	3.6	3.5
35	Urinary lithiasis	9	90	10	1.7%	3.6	3.5
36	Endourologic and laparoscopy	9	90	10	1.7%	3.6	3.5
37	Genitourinary trauma	9	80	20	1.7%	3.6	3.5
38	Surgery of kidney and ureter	9	70	30	3.3%	6.9	7
39	Bladder surgery ,augmentation cystoplasty, continent diversion	9	60	40	1.7%	3.6	3.5
40	Surgery of testicular neoplasm	9	80	20	1.7%	3.6	3.5
	Total s	360			100	210	210