Master (MSc) Degree Program and Courses Specifications for General Surgery

(According to currently applied bylaws)

General Surgery Department

Faculty of medicine

Minia University

2023

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Section I:

PROGRAMME INFORMATION

Department of General Surgery

Degree: Master degree (MSc) of General Surgery (GS200)

University: Minia

Faculty: Medicine

Department: General Surgery

Last date of approval: 5/3/2023

A. Basic Information:

- 1. Programme title: Master degree of General Surgery
- 2. Final award: Master degree (MSc) of General Surgery
- **3. Programme type:** <u>single</u> double multiple
- 4. Responsible department: Department of General Surgery
- 5. **Departments involved in the programme:** Department of General Surgery
- 6. Programme duration: 2 years
- 7. Number of programme courses: 7
- 8. Head of Department: Prof. Dr. Amr Hamdy
- 9. Coordinator: Dr. Yasser Ali Kamal
- 10. External evaluator: Prof. Dr. Alaa Ahmed Radwan
- 11. **Programme management team:** Dr. Abdel-rahman Gamal Saleh, Dr. Mohamed Jamal El-sherif

B. Professional information:

1. Programme aims:

Graduate of Master degree of General Surgery, the candidate should be able to:

1- Appraise and utilize scientific knowledge that essential for the practice of General Surgery.

2- Demonstrate satisfactory level of clinical skills and bedside care skills as well as clinical experience and competence in the area of General Surgery.

3- Demonstrate the basics of scientific medical research necessary to understand the published scientific research and get their own research.

4- Acquire provision of sound principles that enable candidates to start their professional careers as specialists of General Surgery.

2. Intended Learning Outcomes (ILOs):

(a) Knowledge and understanding:

By the end of the study of **Master degree of General Surgery** the candidate should be able to:

- a.1 Explain the essential facts and principles of relevant basic sciences including Pathology, Anatomy, Histology and Physiology, pharmacology biochemistrya, and medical ethics related to General Surgery.
- a.2 Recognize essential facts of clinically supportive sciences including General Surgery.
- a.3 Identify etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to General Surgery.
- a.4 Identify the basic ethical and medicolegal principles that should be applied in practice and are relevant to the General Surgery.
- a.5 Identify the basics and standards of quality assurance to ensure good clinical care practice in the field of General Surgery.
- a.6 Identify the ethical and scientific principles of medical research in General Surgery.
- a.7 Explain the impact of common health problems in the field of General Surgery on the society and how good clinical practice improves these problems.
- a.8 Idetify recent advances techiques and procedurs n the practice of General Surgery

(b) Intellectual skills

By the end of the **Master degree of General Surgery** the candidate should be able to:

b.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the General Surgery.

b.2 Solve problems of common clinical situations related to General Surgery using an investigatory and analytic thinking approach.

b.3 Design a research study or review on common clinical problems relevant to the field of General Surgery.

b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery.

b.5 Assess risk in professional practices in the field of General Surgery.

b.6 Plan for the development of performance in the field of General Surgery.

b.7 Combine knowledge for professional problems' solving.

b.8 Assess common ethical dilemma and its proper sollution

* Skills:

(c) Professional and practical skills

By the end of the study of **Master degree of General Surgery** the candidate should be able to:

- c.1 Carry out patient management plans (clinical diagnosis, investigations, and modality of treatment) for common conditions related to General Surgery.
- c.2 Use information technology to support patient care decisions and patient education in common clinical situations related to General Surgery.
- c.3 Perform competently non invasive and invasive procedures considered essential for the General Surgery.
- c.4 Provide health care services aimed at preventing health problems related to General Surgery.
- c.5 Provide patient-focused care in common conditions related to General Surgery, while working with health care professionals, including those from other disciplines.
- c.6 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.
- c.7 Orgaize a proper medical report

(d) General and transferable skills

By the end of the study of **Master degree of General Surgery** the candidate should be able to:

- d.1 Perform practice-based improvement activities using a systematic methodology
- d.2 Perform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education.
- d.3 Maintain therapeutic and ethically sound relationship with patients.
- d.4 Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
- d.5 Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.
- d.6 Practice cost-effective health care and resource allocation that does not compromise quality of care.
- d.7 Assist patients in dealing with system complexities.
- d.8 Be aware of the importance of life-long self-learning and show a strong commitment to it.
- d.9 Organize material from different scientific sources including library, electronic and online resources.
- d.10 Dealing effectively with unethical behavior of other members of healthcare team.

3. Programme Academic Reference Standards:

3a- Minia faculty of medicine 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 Degree No.6854, in its cession No.177 Dated :18\5\2009).

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

المعايير القياسية العامة:	ILOS of the Master	remarks
NAOAAE Conorol Acadomic Deference	degree of General	
NAQAAE General Academic Reference	Surgery programme-	
Standards GARS for WID Frograms	faculty of medicine-	
	Minia University	
المعرفة والفهم: 1.		
 النظريات والأساسيات والحديث من المعارف في مجال 	a.1, a.2, a.3.a.8	
التخصص والمجالات ذات العلاقة		
	<i>.</i>	
ب- اساسيات و منهجيات و احارقيات البحث العلمي و أدوانه ١١ • • : ان	a.6	
ج- المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال	a.4	
التخصص		
د- مبادئ و أساسيات الحودة في الممارسة المعنية في محال	a 5	1000/
التخصص التحقي المعادية على المعادية المعالية التخصص	u.5	100%
ه- المعارف المتعلقة بآثار ممارسته المهنية على البيئة	a.7	
وطرق تنمية البيئة وصيانتها		
: ٢. المهارات الذهنية		
internation in the second s		
ا. تحليل وتقييم المعلومات في مجال التحصص والقياس ماريا الا تتبال الله	b.1, b.2, b.4	
عليها والإستنباط ملها		
ب. حل المشاكل المتخصصة استنادا على المعطيات	b.2, b.4, b.7, b.8	
المتاحة		
المعالم المنات المنتقشة ومتارية المسلم	h 2	
ج. إجراء دراسات بخليه تصليف إلى المعارف	0.5	
د. صياغة أوراق علمية	b.3	100%
ذ تقدم المخاطر في الممارسات الممندية.	h 5	
ر. تغییم المخاطر في المعار شات المهیب	0.5	
س. التخطيط لتطوير الأداء في مجال التخصص	b.6	
م اتخاذ القرار التي الم مزرقة في سراقات م مزرقة مختلفة	h 2 h /	
و. الحاد العرارات المهياء في سپات مهيد م	0.2, 0.4	
ي. الابتكار/ الإبداع/ الحوار والنقاش المبني على البر اهين	b.7	
والأدلة		
مهارات المهنية: .3.		

إتقان المهارات المهنية الأساسية والحديثة في مجال أ- التخصص	c.1, c.3	
ب كتابة وتقييم التقارير المهنية	c.6, c.7	100%
ج تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص	c.4	
د. استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية	c. ^Y	-
 ه التخطيط لتطوير الممارسة المهنية وتنمية أداء الأخرين 	c.°	•
: المهارات العامة والمنتقلة.4		
أ التواصل الفعال بأنواعه المختلفة	d.4, d.5	•
ب استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية	d.1, d.2	
ج. تعليم الآخرين وتقييم أداءهم	d.3, d.7	
د. التقييم الذاتي والتعلم المستمر	d.8	-
ه. استخدام المصادر المختلفة للحصول على المعلومات و المعارف	d.1, d.9	100%
و . العمل في فريق وقيادة فرق العمل	d.5, d.10	
. إدارة اللقاءات العلمية والقدرة علي إدارة الوقت.ي	d.6	

3b- Then, Department of General Surgery has developed the academic standards (ARS) for Master degree (MSc) of General Surgery.

3c- Program External References: None

4. Programme structure:

Programme duration: 7semester (3.5 years).

	Hour/wee	k	
Subject	Lectures	Practical	Clinical
First part			
Surgical Anatomy and Histology	3	4	

Physiology and Biochemistry	3	4	
Surgical Pathology	2	2	
Microbiology	2	1	
Pharmacology	2	1	
Medical ethics	2	-	
Second part			
General surgery & its special branches	12	4	

5. Programme courses

Course Title	Total No. No. of hours		ours /week		Program ILOs
	of hours	Lect.	Practical	Tutorial	Covered
FIRST PART (Level	of course)				
Surgical Anatomy					a.1, a.2, a.3, b.1, b.2,
and Histology:	65	48	17		c.1, c.2
Anatomy					
Histology					
Physiology and					a.1, a.2, a.3, b.1, b.2,
Biochemistry:	58.5	46.5	12		c.1, c.2
Physiology					
Biochemistry					
Surgical Pathology:	68	46	22		a.1, a.2, a.3, b.1, b.2, c.1, c.2
Microbiology:	45	40	5		a.1, a.2, a.3, b.1, b.2, c.1, c.2
Pharmacology:	42	33	12		a.1, a.2, a.3, b.1, b.2, c.1, c.2
Mediacl ethics	36	36	-		a4, b8, c7

Training programs	continuou	S		a.1, a.2, a.3, b.1, b.2,
and workshops, field				c.1, c.2
visits, seminars&				
other scientific				
SECOND PART (Lev	vel of cour	se):		
General Surgery	720	540	180	a.2, a.3, a.4, a.5, a.6,
and its branches				a.7, a.8, b.1, b.2, b.3,
				b.4, b.5, b.6, b.7, b.8,
				c.1,c.2, c.3, c.4,
				c.5,c.6, c.7, d.1, d.2,
				d.3, d.4, d.5, d.6, d.7,
				d.8, d.9, d.10
				a.2, a.3, a.4, a.5, a.6,
				a.7, a.8, b.1, b.2, b.3,
Training programs				b.4, b.5, b.6, b.7, b.8,
and workshops, field				c.1,c.2, c.3, c.4,
visits, seminars&				c.5,c.6, c.7, d.1, d.2,
other scientific	continuou	S		d.3, d.4, d.5, d.6, d.7,
activities				d.8, d.9, d.10

6. <u>Programme admission requirements:</u>

A-Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or

2. Equivalent degree from medical schools abroad approved by the Ministry of Higher education.

B- Follows postgraduate regulatory rules of postgraduate studies of Minia Faculty of medicine.

7- <u>Regulations for progression and programme completion</u>

Duration of program is 4 semesters (2 years), from registration till the end of the second part; divided to:

First Part: (≥6 months=1 semester):

• All 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 May — 2nd in October.

• For the student to pass the first part exam, a score of at least 60% in each curriculum is needed. Those who fail in one curriculum need to re-exam it only.

<u>Second Part</u>: (≥18months=3 semesters):

- Program related specialized Courses.
- The student should pass the 1st part before he/she can ask for examination in the 2nd part, not more than 4 times. For both parts, fulfillment of the of log book (Attendance, effective discussion in seminars, performance in practical lab and other activities).

Third Part (Thesis/essay):

- Master thesis subject should be officially registered after registration for the Master degree and should be completed, defended and accepted after passing the second part final examination, not before 6 months from registering the subject.
- One research in national journal should be published from the Master thesis and accepted at least one onth before aking for the second part exam.
- The duration of registered Master degree should not be more than 4 years till agreement of the Department council (after taking opinion of supervisors) and Faculty council.

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. Stakeholders	Meeting Questionnaires	10 at least
4. External & Internal evaluators and external examiners	Reports	1 at least
5. Quality Assurance Unit	Reports Questionnaires Site visits	

8- Evaluation of programme intended learning outcomes:

6. Exams results	Results analysis Report	All the students
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9 -Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	 a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills
 2. Written Exams: Short essay MCQs Problem solving 	a. Knowledge & understandingb. Intellectual skills
 3. Practical/Clinical Exams: Case sheet Case discussion OSCE Imaging slides 	 a. Knowledge & understanding b. Intellectual skills c. Professional & practical skills
4. Seminars, presentations, assignments	 a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills a. knowledge & understanding
5. Oral Exams	b. Intellectual skills

c.	General & transferable skills

Last update and approval: 5/3/2023

Head of the General Surgery department:

Prof. Dr. Amr Hamdy

Ame Hamdy

Section II:

SPECIFICATION OF COURSES

Course (1) Surgical Anatomy and Histology

Course Specifications of Anatomy and Embryology in Master degree of General Surgery

University: Minia

Faculty: Medicine

Department: Anatomy

1. Course Information

- Academic Course Title: Course Specifications of Anatomy and Year/level: first part Embrylogy in Master degree in surgery
- Number of teaching hours:
- Lectures: Total of 24 hours
- **Practical/clinical**: Total of 9 hours

2.	Overall Aims of	By the end of the course the student must be able to:
	the course	to have the have the professional knowledge anatomy and embryology of internal body systems.

3. Intended learning outcomes of course (ILOs):

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

	A1. Mention the normal structure and function of the body
A- Knowledge	systems on the macro levels.
and Understandi	A2. Understand early embryo development & normal growth
ng	and development of the different body systems.
	A3. List the recent advances in the abnormal structure,
	function, growth and development of, GIT, cardiovascular,

	respiratory and urinary system.			
	A4. Demonstrate the anatomical basis of surface anatomy and radiologic anatomy			
	B1. Link between knowledge for Professional problems solving.			
	B2. Conduct research study and / or write a scientific study on a research problem.			
B- Intellectual	B3. Diagnosis of diseases based on anatomical disruptions.			
Skills	B4. Establish goals to improve performance in the field of surgery			
	C1. Master the basic and modern medical skills in the area of			
C- Professional and	internal medicine.			
Practical Skills	C2. Description of diseases and anomalies based on anatomical data.			
	d1. Communicate effectively by all types of effective communication.			
D. Concrel and	d2. Use information technology to serve the development of professional practice.			
transferable Skills	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				
Торіс	LecturePractical/CliniTotal No. of hours			

Tonia	Locturo	Practical/Clini	Total No. of
Topic	Lecture	cal	hours

	hours/week	hours/week	hours/week
Anatomy of GIT system (alimentary tract and digestive organs)	4	2	6
Normal and abnormal development of the digestive tract, liver and pancreas.	4	2	6
Surgical anatomy of abdomen, pelvis, abdominal planes and hernia.	2	1	3
Anatomy and development of peritoneum and peritoneal spaces.	2	1	3
Abdominal wall anatomy and development, inguinal canal and femoral sheath.	2	1	3
Urinary system anatomy and development.	3	-	3
Autonomic supply and lymphatic drainage of abdominal and pelvic organs.	3	-	3
Anatomy of perineal pouches and ischeorectal fossa.	2	-	2
Revision	2	2	4
Total	24	9	33
	1 - Lectures.		
	2 - Practical	lessons.	
5. Teaching and Learning Methods	3- Assignmen assess the gen	nts for the students neral and	to empower and
	transferable s	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	Assessment 1 Periodic 1 Week: 10-13
(Timing of Each Method of Assessment)	Assessment 2 Assignment Week: 15-16
	Assessment 3periodic. 2 Week18-20
	Assessment 2 Final practical exam Week: 26-28
	Assessment 3 Final written exam. Week26-28
	Assessment 4Final oral exam Week26-28
C. Weighting of Fach	Periodic Examinations 20 % including:
Method of Assessment	Assignment: 5%
	Assignment. 370

Periodic 1: 5%Periodic. 2: 10%Final-term Examination 50%Oral Examination. 20%Practical Examination 10 %

Total 100%

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:

Dr. Abdel- Hamid Abobakr

Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Date of last update & approval by department Council: 2023

التشريح	مسمى المقرر
GS 200	كود المقرر

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

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course	Week No.	Intended Learning Outcomes (ILOs)			
topics)		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	В	С	D
Anatomy of GIT system (alimentary tract and digestive organs)	1	1,2,3,4	1,2	1	1,3,5
Normal and abnormal development of the digestive tract, liver and pancreas.	2	2,3	2	2	2,4
Surgical anatomy of abdomen, pelvis, abdominal planes and hernia.	3	3,4	2,3	1,2	3,4
Anatomy and development of peritoneum and peritoneal spaces.	4	1,4	1,4	1,2	4,5
Abdominal wall anatomy and development, inguinal canal and femoral sheath.	5	2,4	1,2	1	1,2,5
Urinary system anatomy and development.	6	2,3	2	2	2,4
Autonomic supply and lymphatic drainage of abdominal and	7	1,4	1,4	1,2	4,5

pelvic organs.					
Anatomy of perineal pouches and ischeorectal fossa.	8	2,4	1,2	1	1,2,5
Revision	9	1,2,4	1,2	1	1,3,5

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

	Intended Learning Outcomes (ILOs)				
s of Teaching ing	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
Methoo & Learn	A	В	С	D	
Lecture	1,2,3,4	1,2	1	1,3,5	
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	

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

	Intended Learning Outcomes (ILOs)			
s of Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Methoc	A	В	C	D
Written exam	1,2,3,4	1,2	1	1,3,5
Practical exam	2,3	2	2	2,4
Clinical exam	3,4	2,3	1,2	3,4
Oral Exam	1,2,3,4	1,2,4	1,2	4,5
Assignment	2,4	1,2	1	1,2,5

نموذج رقم (۱۲)

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

University: Minia

Faculty: Medicine

Department: Histology and cell biology department.

9. Course Information			
Academic Year/level: master's degree (1st part) in general surgery	Course Title: Histology and cell biology	• Code:	
Number of teaching hours: 7 Lectures: Total of 24 hours . 7 Practical: Total of 46 hours	70 Ih/week 2h\week		
10. Overall Aims of the course	 By the end of the course the student must be able to: Provide the postgraduate students with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. Provide master students with basic information about the structure and function of different tissues and organs affected in many diseases. Maintenance of learning abilities necessary for continuous medical education. Maintenance of research interest and competences. 		
11. Intended learning ou Upon completion of the cour	tcomes of course (ILOs): se, the student should be able t	0:	
E- Knowledge and Understandi ng	 A1. Define the histological structorgans A2. List the structure and functorgans. A3. List the basic abnormalities a result of diseases A4. To identify the ability of different following the treatment of diseases 	cture of body tissues and ion of the different cells and that might affect the tissue as ferent tissue to regenerate eased condition.	

F- Intellectual	B1. Interpret histological changes in diseases compared to					
Skills	the normal histology					
	C1. Teamwork, practicing and participation in scientific					
G- Professional	activities.					
and Practical	C2. Ma	ster the basic a	and modern medical	skills in the area of		
Skills	specialty.					
	C3. Exa	C3. Examine histological slides and identify the structure of				
	differer	nt cells and org	gans.			
	D1. Pra	ctice in groups	s, as a leader or as a	colleague.		
	D2. Use	e the advanced	biomedical informa	ition to remain		
	current	with advance	s in knowledge and p	bractice (self-		
H- General and	learning	g).				
transferable	D3. Play	y role in the m	edical progress by n	aving advanced		
SKIIIS	medica	i information.	ha muaaantatian akill			
	D4. Be	aware about the	ne presentation skill	s through the		
	attenua	ance and partic		activities.		
12 Course Contents						
		Locturo				
Topic		hours/wee	Practical/Clinical	Total No. of		
		k	hours/week	hours/topic		
Introduction		1	-	1		
Epithelial tissue1		1	2	3		
p				-		
Epithelial tissue2		1	2	3		
Epithelial tissue3		1	2	3		
Connective tissue.1		1	2	3		
Connective tissue2		1	2	3		
Muscular tissue1		1	2	3		
Muscular tissue2		1	2	3		
Muscular tissue3		1	2	3		
Nervous tissue1		1	2	3		
Nervous tissue2		1	2	3		
Nervous tissue3		1	2	3		
Blood & haemopoietic1		1	2	3		
Blood & haemopoietic2		1	2	3		
Blood & haemopoietic3		1	2	3		
Cardiovascular system1		1	2	3		
Cardiovascular system2		1	2	3		
Lymphatic & immune system 1		1	2	3		
Lymphatic & immune system2 1 2 3			3			
Endocrine system:1		1	2	3		
Endocrine system:2		1	2	3		

Endocrine system:3	1	2	3				
Digestive system1	1	2	3				
Digestive system?	1	2	3				
Total	24 46 70						
Teaching and Learning Methods							
	•						
.5	•	Assignments	and practical activities.				
		U					
	٠	Attending an	d participating in scientific				
	conf	erences and wo	rkshops to acquire the				
	gene	eral and transfer	able skills needed				
	_						
6. Teaching and Learning Met	hods for stu	idents with limi	ed Capacity				
7. Student Assessment							
A. Student Assessment	•	Written exan	n to assess capability of				
Methods	stud	ents to assimilat	e and applicate knowledge				
	inclu	ded in the cour	Se.				
	٠	Oral exam to assess the student					
	intel	intellectual and communication abilities					
	rega	regarding basic knowledge and understanding of					
	the	the course topics, and to help the teaching staff					
	to evaluate the percentage of achievement of						
	the intended learning outcome of the course.						
B. Assessment Schedule	Assessm	nent 1: written e	exams by the end of the				
(Timing of Each Method of	course.						
Assessment)	Assessm	Assessment 2: Oral exam, after the written exam.					
	Formati	Formative only assessment: simple research					
	assignm	ent, logbook, sli	de box.				
C. Weighting of Each Method	Written	exam 20 4					
of Assessment	Urai exa	m 30 60	1000/				
	TOLA	II 50	100%				
8. List of References							
A. Course Notes/handouts	Notes of	f department an	d practical notebook				
B. Essential Books	1. E	Basic histology, J	unqueira et al.				
	2. E	Bloom and Fawc	ett: Concise Histology.				
	3. F	awcett., Cell bio	logy and histology. Gartner				
	e	et al.					
	4. Lippincott Illustrated review: integrated						

	systems			
	5. Oxford Handbook of Medical sciences			
C. Recommended Textbooks	11. Wheater's Functional Histology A Text and Colour			
	Atlas. 7th Edition - April 3, 2023.			
	2. Stevens & Lowe's Human Histology (Fourth			
	Edition) Book. 4 th Edition. 2015.			
	,			
D Periodicals websites	Web Sites: To be determined and undate during			
D. Tenodicais, Websites	the course work			
	1 http://www.bistology-world.com			
	2 http://histo_life_illingis_edu/histo/atlas/slides.nhn			
	Periodicals:			
	1. Journal of molecular 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: Reham Abo El-Leil

Head of Department:

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

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

نموذج رقم (۱۱۱)



A. Matrix of Coverage of Course ILOs By Contents

	Week	Intended Learning Outcomes (ILOs)				
Contents (List of course topics)	No.	A. Knowledge & Understanding	B. Intellectual Skills	C. Profession al & Practical skills	D. General & Transferable Skills	
		Α	В	С	D	
Introduction	1	A1				
Epithelial tissue1	2	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Epithelial tissue2	3	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Epithelial tissue3	4	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Connective tissue.1	5	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Connective tissue2	6	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Muscular tissue1	7	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Muscular tissue2	8	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Muscular tissue3	9	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Nervous tissue1	10	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	

Nervous tissue2	11	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Nervous tissue3	12	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood & haemopoietic1	13	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood & haemopoietic2	14	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood & haemopoietic3	15	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system1 	16	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system2	17	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic & immune system 1	18	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic & immune system2	19	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Endocrine system:1	20	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Endocrine system:2	21	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Endocrine system:3	22	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Digestive system1	23	A1,A2,A3,A4	B1		
Digestive system2	24	A1,A2,A3,A4	B1		

	Intended Learning Outcomes (ILOs)				
Methods of Teaching					
& Learning	A. Knowledge &	В.	C. Professional	D. General &	
	Understanding	Intellectual	& Practical	Transferable	
		Skills	skills	Skills	
Lecture	A1,A2,A3,A4	B1			
Practical			C1,C2,C3		
Presentation/seminar	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4	
Training courses & workshops					

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

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

	Intended Learning Outcomes (ILOs)					
Methods of Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General &Transferable Skills		
	А	В	C	D		
Written exam	A1,A2,A3,A4	B1	-	-		
Oral Exam	A1,A2,A3,A4	B1	-	-		

	Торіс	Hours	Knowledge %	Intellectual %	% of topic	Marks
		-				
1	Introduction	1	100	-	4.16	-
	Epithelium	3	80	20	12.5	2.5
2	Connective tissue proper	2	80	20	8.3	2
3	Muscle	3	80	20	12.5	2,5
4	Nervous	3	80	20	12.5	2.5
5	Blood	3	80	20	12.5	2.5
6	Cardiovascular system	2	80	20	12.5	2
8	Lymphatic system	2	80	20	8.3	2
10	Endocrine	2	80	20	8.3	2
11	Digestive	2	80	20	8.3	2
	Total	24			100%	20

Blueprint of Histology and cell biology department for candidates of master degree "first part" examination paper (20 marks)

Course (7) Physiology and Biochemistry

Medical Physiology Course Specifications

For 1st Part Master (MSc) Degree in GENERAL SURGERY (GS 200)

University: Minia

Faculty: Medicine

Faculty offering the program: Faculty of Medicine.

Department offering the course: Medical Physiology Department.

Program(s), on which the course in given: MSc Degree in GENERAL SURGERY.

Major or minor element of program(s): Medical Physiology.

Academic year/level: 1st part MSc degree in GENERAL SURGERY.

Date of last update & approval: 2022-2023

Basic Information

Title: Physiology course specifications for 1st part MSC degree of GENERAL SURGERY

Code:GS200Credit Hours: Not applicable

Lectures: 16.5 hours (1.5 hours / week)

Tutorial/Practical: Not applicable

Professional information

1) OVERALL AIM OF COURSE:

The aim of the course are to provide the postgraduate students with knowledge about the physiological principles underlying the specialty of **GENERAL SURGERY** that aid in interpretation of symptoms, investigations and management of related disorders.

INTENDED LEARNING OUTCOMES OF COURSE (ILOS)

A. Knowledge and Understanding:

By the end of the course, the student should be able to:

A1. Describe the Physiology of (Blood);

- **1.1.** General composition & functions of blood components.
- **1.2.** Erythropoiesis (mechanism, factors affecting & disorders).
- **1.3.** WBCs & Blood defense.
- **1.4.** Blood platelets, Hemostasis & common disorders.

A2. Discuss the Physiology of Autonomic Nervous System (ANS);

- **2.1.** Distribution; function and common disorders of ANS.
- **2.2.** Chemical transmission in ANS.

A3. Describe the Physiology of Central Nervous System (CNS);

3.1. Physiology of Pain (definition, types, body reactions & control).

A4. Discuss the Physiology of Cardiovascular System (CVS);

4.1. Arterial blood pressure (APB); Hemorrhage & Shock.

A5. Recognize the Physiological basis of Metabolism;

5.1 Body temperature regulation & fever.

A6. Recognize the Physiology of Respiratory System;

6.1. Control of Respiration; Hypoxia & Cyanosis.

A7. Discuss the Physiology of Gastrointestinal (GIT) System;

- **7.1.** Gastrointestinal secretions
- **7.2.** Gastrointestinal hormones
- 7.3. Gastrointestinal motility
- 7.4. Stomach & Pancreas
- 7.5. Liver; Gall bladder; Bile & Jaundice
- 7.6. Disorders related to gastrointestinal system

A8. Discuss the Physiology of Endocrinal System;

8.1. Thyroid gland.

8.2. Parathyroid gland & calcium homeostasis.

8.3. Adrenal gland.

8.4. Islets of Langerhans of pancreas & glucose homeostasis.

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 general surgery 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 general surgery.

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.
Curriculum structure & contents:

Topic:	No. of	Total no.
<u>1. Physiology of Blood:</u>	Lectures	of hours
• General composition & functions of blood components.	2	4
• Erythropoiesis & anaemia.		
• WBCs & Blood defence.		
• Blood platelets, Haemostasis & common disorders.		
2. Physiology of ANS:		
• Distribution; function and common disorders of ANS.	1	2
• Chemical transmission in ANS.		
3. Physiology of Central Nervous System (CNS):		
• Physiology of Pain; definition, types, body reactions & control.	1	2
4. Physiology of Cardiovascular System (CVS):		
• Arterial blood pressure (APB); Haemorrhage & Shock.		
5. Physiological basis of Metabolism:	1	2
• Body temperature regulation & fever.		
6. Respiratory system:	1	2
• Control of Respiration; Hypoxia & Cyanosis.		
7. Gastrointestinal system:		
Gastrointestinal secretions	1	2
Gastrointestinal hormones		
Gastrointestinal motility		
• Stomach & Pancreas		
• Liver; Gall bladder; Bile & Jaundice	5	0
Disorders related to gastrointestinal system		

8. Endocrine system:		
• Thyroid gland		
• Parathyroid gland & calcium homeostasis	2	4
• Adrenal gland.		
• Islets of Langerhans of pancreas & glucose homeostasis		
Total	12	24

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.

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.

Assessment Schedule:

- Assessment 1: Final written exam (1 hour).
- Assessment 2: Final oral exam.

Weighting of assessment:

- Final written exam 16 marks (40%)
- Final oral exam 24 marks (60%)
- **Total** 40 marks (100%)

LIST OF REFERENCES:

1. Department books and notes.

Prepared by Medical Physiology Department staff members, Faculty of Medicine, Minia University.

- 2. Essential books (Text Books):
 - Ganong review of medical physiology.
 - Guyton text book of medical physiology.
- 3. Periodicals, Web sites... etc.

FACILITIES REQUIRED FOR TEACHING AND LEARNING:

- 1. Classrooms with data show for lectures.
- 2. Computers and internet facilities.

Course Coordinator,	Head of Medical Physiology Department,
Prof. Dr. Walaa Hassan Nazmy	Prof. Dr. Merhan Mamdouh Ragy
Prof. of Medical Physiology	Prof. & Head of Medical Physiology Department
Faculty of Medicine, Minia University	Faculty of Medicine, Minia University

جامعة: المنيا

كلية : الطب البشري

قسم: الفسيولوجيا الطبية

Physiology course specifications for 1st Part MSc degree in General Surgery	مسمى المقرر
GS200	كود المقرر

A. Matrix of Coverage of Course ILOs by Contents

	Inte	ended	l Leai	rning	Outc	omes	ILO	5																	
Contents	A. Knowledge & Understanding									B. Intellect ual skills		D. General & Transfera ble Skills		ra ls											
	A 1. 1	A 1. 2	A 1. 3	A 1. 4	A 2. 1	A 2. 2	A 3. 1	A 4. 1	A 5. 1	A 6. 1	A 7. 1	A 7. 2	A 7. 3	A 7. 4	A 7. 5	A 7. 6	A 8. 1	A 8. 2	A 8. 3	A 8. 4	В 1	В 2	D 1	D 2	D 3
1. Physiology of Blood	х	х	х	х																	х	х	х	Х	х
2. Autonomic Nervous System					x	x															х	x	x	x	x
3. Central Nervous System							х														x	x	x	х	х
4. Cardiovasc ular System								х													х	х	x	x	х
5.Physiology of Metabolis m									x												Х	Х	x	X	x
6. Respirator y System										Х											Х	Х	х	х	х
7. Gastrointe stinal (GIT) System											х	x	x	x	x	x					Х	Х	X	X	x
8. Endocrine System																	х	х	х	х	Х	Х	х	Х	x

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

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

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

	Intended Learn	ing Outcomes (ILOs)						
Methods of Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills				
	Α	В	С	D				
Written exam	X	Х	-	-				
Oral Exam	X	Х	-	X				
Log Book	X	Х	-	X				

Course Coordinator,Head of Medical FProf. Dr. Walaa Hassan NazmyProf. Dr. MerhanProf. of Medical PhysiologyProf. & Head of MedicalFaculty of Medicine, Minia UniversityFaculty of Medicine, Minia UniversityDate of Last update & approval 2022-2023

Head of Medical Physiology Department, Prof. Dr. Merhan Mamdouh Ragy Prof. & Head of Medical Physiology Department

Faculty of Medicine, Minia University 2023

<u>Medical Biochemistry course specification for master degree in General</u> <u>Surgery (First part)</u>

University: Minia

Faculty: Medicine

Department: Medical Biochemistry

Last date of approval 3\2023

1. Course Information	1. Course Information						
Academic Year/level: First Part of Master Degree	• Course Title: First Part of Master Degree in General Surgery	Code:					
• Number of teaching hours: Lectures: 30 hours; 1.5 hours/week Practical: 16 hours; 2 hours / 2 week							
2. 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 different laboratory equipment. 5-To know retrieving the literature and understanding the evidence-based medicine 6-Maintain learning abilities necessary for continuous medical education. 						
3. Intended learning of <i>Upon completion of the cour</i>	utcomes of course (ILOs): se, the student should be able to	:					
A- Knowledge and Understandi ng	 The student finishes the course; following objectives: A1. Illustrate various metabolic lipid and protein A2. Describe role of minerals a metabolism. A3. Interpret Various metabolic A4. List the role of enzymes in body and its diagnostic importa A5. Discuss types of gene thera A.6. Describe the metabolism of acids. 	he will be able to achieve the processes of carbohydrate, and hormones and Vitamins in c diseases and their diagnosis the chemical reactions in the nce. apy and its therapeutic effect. of hemoglobin and nucleic					

		A.7- Explain xenobiotics and their detoxification.							
		A8	- Explain principles,	methodologies, to	ools and ethics of				
		D 1	Dovelop the skills f	or analysis of diff	pront disassas to				
		DI.	-Develop tile skills i ch a final diagnosis	or analysis of unit	erent diseases to				
	R. Intellectual	R2	Develop the ability	to solve problems	associated with				
	Skills	me	tabolic diseases	to solve problems	associated with				
	SMII S	B3	3-Develop the ability to integrate metabolic pathways with						
		dise	eases.	to megate metac					
_	C- Professional	Aft	After completing the course, the student should be able to						
	and	C1.	Organize groups, as	s a leader or as a c	olleague.				
	Practical	C2.	Practice willingly t	he presentation ski	ills through the				
	Skills	atte	endance and participation	ation in scientific	activities.				
		Aft	er completing the co	ourse, the student s	should be able to				
	D- General and	D1	. Be aware of the adv	vanced biomedical	l information to				
	transferable	ren	ain current with adv	ances in knowled	ge and practice (self-				
	Skills		Drepare for medica	I progress by bayi	ng advanced medical				
		D2 rese	arch studies	i piogress by navi	ng auvanceu meulear				
4- Course	Contents	105							
i course									
			Lootuno	Practical/Clini					
Tonic			Lecture	cal	Total No. of hours				
Topic	Topic		hours	_					
				hours					
1. Car	rbohydrate		6		10				
Met	tabolism			4	10				
2. Lip	id metabolism		6	2	8				
3. Pro	tein metabolism		3	2	5				
				_	-				
4. Pur	rines and pyrimid	ine							
			1.5		1.5				
Metadonsi	n								
5. Enz	zymes		1.5	2	3.5				
		2		2					
6. Minerals		3		3					
7. Hoi	7. Hormones		1.5	2	3.5				
8. Vita	amins		3		3				
9. Ger	ne Therapy		1.5	2	3.5				
10. Xer	nobiotics		1.5		1.5				

11. Hemoglobin	1.5	2	3.5				
metabolism			5.5				
Total	30	16	46				
		10					
	1-Lectures & discu	issions.					
	2-Assignments						
5-Teaching and Learning	5						
Methods	3-Attending and pa	articipating in scien	ntific conferences				
	skills needed	acquire the general	and transferable				
	skiiis needed						
6-Teaching and Learning	Additional lectures	s, adjusting time ar	nd place of lectures				
Methods for students with	according to their s	schedule and capac	city				
limited Capacity							
7- Student Assessment							
A-Student Assessment	1- Written exam	to assess the capat	oility of				
Methods	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	Assessment 1: one written exam by the end of the course						
(Timing of Each Method of Assessment)	Assessment 2: Oral exam, after the written exam						
	Formative only assessment: log book.						
C-Weighting of Each Method	Written examinat	ion: 8 marl	KS				
of Assessment	Oral examination : 12 marks						
	Total	20	rlzo				
		20 ma	1K5				
8- List of References							
A-Course Notes/handouts	Lectures notes are	prepared in the for	rm of a book				
	authorized by the c	lepartment.					

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. Heba Marey

Head of Department:

Prof. Dr. Salama Rabie Abd El Rahiem

1/1/2

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

3 / 2023

جزء اول ماجستير الجراحة	مسمى المقرر
GS 200	كود المقرر

جامعة/أكاديمية : ..المنيا....

كلية / معهد..... :الطب.....

قسم : ا**لكيمياء الحيويه**

A. Matrix of Coverage of Course ILOs By Contents

Contents	Week No.	Intended Learning Outcomes (ILOs)									
(List of course topics)		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills						
		Α	В	С	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							
 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. Gene Therapy	9	A5	B1 B3		
10. Xenobiotics	10	A7	B3	C1	
11. Hemoglobin metabolism	11	A3 A6	B2	C2	

Methods of Teaching	Intended Learnin	g Outcomes (IL	Os)	
& Learning				
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	Α	В	С	D
Lecture	A1 A2 A3 A4 A5 A6	B2 B3		
Practical			C1 C2	
Presentation/seminar				D1 D2
Journal club				D1 D2
Training courses & workshops				D1 D2
Other/s (Specify)		B3 B1	C1 C2	D1 D2

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

Methods of Assessment	Intended Learning Outcomes (ILOs)									
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills						
	Α	В	С	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	C1 C2							
Assignment				D1 D2						
Other/s(Specify)		B1 B2	C2	D2						

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

Blueprint of Medical Biochemistry Department Blueprint of Examination Paper

(8 marks)

		Hour	Kno	Intell	%	No of	Kno dge	wle	Intellectual		Ma rks	Actua l mark
	Торіс	s	ge %	ectual %	topi c	per topic	No of Ite ms	Ma rk	No of Items	Mark		
1	Carboh ydrate metabol ism	6	70	30	20	2	1	0.8	1	0.8	1.6	1.5
2	Lipid metabol ism	6	75	25	20	2	1	0.8	1	0.8	1.6	1.5
3	Protein metabol ism	3	75	25	10	2	1	0.4	1	0.4	0.8	1
4	Purine and pyrimid ine metabol ism	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
5	Enzyme s	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
6	vitamin s	3	80	20	10	2	1	0.4	1	0.4	0.8	0.5
7	hormon es	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
8	Mineral s	3	75	25	10	2	1	0.4	1	0.4	0.8	0.5
9	Xenobio tic	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
10	Gene Therap y	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
11	Hemogl obin metabol ism	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
	Total	30			100 %						8	8

Course (3) Pathology

Course Specifications of Pathology 1st Part of Master Program of General Surgery

2022-2023

University: Minia

Faculty: Medicine

Department responsible for offering the course: Pathology

Program on which the course is given: MSC of General Surgery

4. Course Information									
• Academic Year/level: 1st part of MSC in General surgery	• Course Title: Pathology.	• Code: GS 200							
 Number of teaching Lectures: Total of 46 Practical/clinical: Total 	 Number of teaching hours: Lectures: Total of 46 hours; 2 hour/week Practical/clinical: Total of 22 hrs., 2 hour/week 								
5. Overall Aims of the course	 By the end of the course the sture Explain theories, basics of surgical pathology. Appraise & interpret relectorrelate them with essentiate them with essentiate diagnosis Demonstrate competence biopsies and interpreting correlate such information of the study of the start of th	<i>dent must be able to:</i> & recent advances in the field levant basic information and ential clinical data to reach a cy on dealing with various g pathological reports and on with the relevant provided							

	clinical data.							
	 Learn the basic issues related to safety and maintain available resources. 							
	5. Communicate efficiently with senior staff, colleagues in the same & other departments as well as lab technical staff, other health care professionals, students, and patients.							
	6. Use efficiently the information technology including data entry & analysis to enhance data management and to achieve improvement of the professional practice							
	7. Manage time efficiently and learn to priorities tasks							
	8. Show the skills of continuous & self-learning.							
6. Intended learning outcomes of course (ILOs):								
Upon completion of the cour	rse, the student should be able to:							
	A1. Explain theories, basics & recent advances principally: natural history, etiology (especially those related to the environment), pathogenesis, pathological changes, structural and functional changes, clinical manifestations, fate and complications of common and important diseases in different body systems mainly GIT, lymphopoietic, hepatobiliary, endocrine and breast							
E- Knowledge and understandi	A2. Outline the basics of genetics, immunopathology, environmental & nutritional issues in different common & important diseases.							
ng	A3. Identify the mutual effects of the environment & the professional practice and the impact of such practice on the welfare of the society							
	A4. Identify the basic medico-legal principles that should be applied in the practice of autopsy							
	A5. Outline the standards of quality assurance to ensure good practice as a profession.							

F- Intellectual Skills	B1. Con of surgi list of d investig B2. Eva arise du situatio	rrelate & evalua ical specimens lifferential diag gations to reach aluate and contr uring the profess ons like handling	ate the gross and mid with available clinic nosis for further adv the correct diagnos rol efficiently potent sional practice in va g and processing of	croscopic features cal data to provide a vanced is. tial risks that may rious clinical specimens			
G- Professional and Practical Skills	C1. Der gross fe supplyi C2. Ens biopsie quality C3. Ap availab specime	features of different biopsies & surgical specimens and ying all essential clinical data nsure proper preservation of surgical specimens and ies and select the suitable preservatives with stickiness to y & safety procedures. pply relevant issues related to safety and ensure keeping ble resources while dealing with biopsies and surgical nens and all essential materials and equipment.					
H- General and transferable Skills	 D1. Demonstrate efficient communication & interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, students, lab technical staff, 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 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 						
7. Course Contents							
Topic GENERAL & Systemic		Lecture 2hours/wee k	Practical/Clinic al 2hours/week	Total No. of hours hours/week			
Shillin a bystemic							

PATHOLOGY					
1. Cell injury and cell death	4	2			
2. Inflammation	4	2			
3. Bacterial infection	2	-			
4. Immunopathology	2	-			
5. Granulomas	4	2			
6. Repair	2	2			
7. Circulatory disturbances	4	2			
8. Disturbances of cell growth and adaptation	2	2			
9. Neoplasia	4	2			
10. Lymphopoietic system	4	2			
11. Diseases of the GIT & hepatobiliary system	6	2			
12. Endocrine diseases	4	2			
13. Diseases of the breast	4	2			
Total	46	22			
	°.1. Lectures:	Both face to face &	c on-line ones.		
9. Teaching and Learning Methods	5.2. Practical lessons: Gross pathology and interpretation of pathology reports5.3. Self-directed learning (SDL)5.4. Journal club, Case presentation, Seminars.				
10. Teaching and Learning Methods for students with limited Capacity	Not applicable	2			

11. Student Assessment						
D. Student Assessment Methods	 Written exam to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills. 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. 					
E. Assessment Schedule (Timing of Each Method of Assessment)	 Assessment 1: written exam by the end of course. Assessment 2: Oral exam, after the written exam. 					
F. Weighting of Each Method of Assessment	Type of Assessment Written examination 	Marks % (40%)				
	Oral examination.	Y2.5 (60 %)				
	Total	37.5 (100%)				
12. List of References						
E. Course Notes/handouts	 1- General pathology course notes prepared by the department staff and 2- Lectures' Handouts & printed material of recorded ones. 					
F. Essential Books	1- Goldblum, John R., e	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).
G. Recommended Text Books	 Liang Jing & David Bostwick. Essentials of anatomic pathology (2011).
	2 Diana W Malayi The prestice of surgical
	2- Diana w Molavi. The practice of surgical
	pathology; A beginners guide to the
	diagnostic process (2008).
H. 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- <u>www.pubmed.com</u>
	6- <u>www.pathmax.com</u>

Course Coordinator/s:

> Assistant Prof. Dr. Manal Ismail Abd-Elghany

Head of Department:

Prof. Dr. Heba Mohamed Tawfik.

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

نموذج رقم (۱۱۱)



قسم:الباثولوجي....

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A.Matrix of Coverage of Course ILOs By Course Contents & activities

Contents	Intended Learning Outcomes (ILOs)													
	A. Knowledge & understanding		B. Intellect ual Skills		C. Profession al & Practical skills		D. General & Transferable Skills							
	A 1	A 2	A 3	A 4	A 5	B1	B2	C 1	C 2	C 3	D 1	D 2	D 3	D 4
I. GENERAL & SYST	EM	IC P	ATI	HOL	OG'	Y TO	PICS							
1. Introduction & Inflammation	X				X	X	X				X			
2. Cell injury and cell death	X				X	X	X				X			
3. Inflammation	x				x	x	x				x			
4. Bacterial infection	X				X	X	X				X			
5. Immunopathol ogy	X				X	x	x				X			
Granulomas	X				x	x	x				X			

6. Repair	X				X	x	X				X			
7. Circulatory disturbances	X				x	X	X				X			
8. Disturbances of cell growth and adaptation	X				X	X	X				X			
9. Neoplasia	X				X	X	X				X			
10. Lymphopoietic system	X	X	X	X	x	X	X				X			
11. Diseases of the GIT & hepatobiliary system	X	X	X	X	X	X	X				X			
12. Endocrine diseases	X	X	X	X	X	X	X				X			
13. Diseases of the breast	X	X	X	X	X	X	X				X			
III. Scientific activities (Journal club, Case presentation, Seminars).	X	X	X	X	X	x	x	X	X	X	X	X	X	X

g	Intended Learning Outcomes (ILOs)						
Methods of Teachi & Learning	A. Knowledge & understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills			
Lecture	х	Х					
Practical			х				
Presentation/seminar			x	X			
Journal club	x	X		X			

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

	Intended Learning Outcomes (ILOs)						
ment							
ess	A. Knowledge &	B.	C. Professional &	D. General &			
Ass	understanding	Intellectual	Practical skills	Transferable			
s of		Skills		Skills			
pou							
Metł							
Written	X	x					
exam							
Oral	Х	Х		Х			
Exam							

Course (4): Microbiology

Course Specifications of Medical Microbiology and Immunology for General surgery master program (GS200)

University: Minia

Faculty: Medicine

Department: Medical Microbiology and Immunology

1. Course Information						
Academic Year/level: postgraduate students	Course Title: Medical Microbiology and Immunology for General surgery postgraduate students.	Code: GS200				
- Number of teaching hours:						
- Lectures: Total of 40	hours; 2 hours/week					
- Practical /clinical: To	tal of 5 hours; 1 hours/week					
1.Overall Aims of the	By the end of the course the stu	dent must be able to:				
course	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.				
3.Intended learning outcom	es of course (ILOs):				
Upon completion of the course, the student should be able to:					
	A1. Know microbial morphology, structure, metabolism and physiology of medically significant microorganisms				
	A2. Understand the basis of microbial genetics and biotechnology techniques and their applications.				
	A3. Recognize the taxonomy and classification of different microorganisms.				
A-Knowledge and Understanding	A4. Identify the natural habitat, source of infection and mode of transmission of the different classes of pathogens causing postoperative 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. Know the causes, sources, mode of transmission and treatment of nosocomial infections and know the different methods for infection control in operative rooms.				
	B1. analyze of different cases of infection to reach a final diagnosis and microbiological identification of the causative organism				
B-Intellectual Skills	B1. Develop the ability to 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.				
C- Professional and Practical Skills	C1. Apply professional applications such as managing a microbiology laboratory.				
	C2. Identify different microbes at microbiology laboratory				

	using basic techniques
	C3. Apply standards of infection control
	C4. Apply standard protocol in collection of pathological samples
	D1. Manipulate microbiological samples and reach a microbiological diagnosis of an infection
	incrobiological diagnosis of an infection.
	D1. Write protocols for identification of a given microorganism.
D-General and transferable Skills	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

Торіс		Lecture hours/week	Practical/Clinica l 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. Streptococci	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. Bacterial, viral and fungal CNS 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
	Lectures	1	1
5.Teaching and Learning Methods	Practical sess	ions	
	Seminars		

6.Teaching and Learning Methods	Self-learning activities such as use of internet and
for students with limited Capacity	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	End of course exam (written, oral exams)
Each Method of Assessment)	Week 23
C.Weighting of Each Method of	Final written Examination:20 marks
Assessment	Oral Examination: 30 marks
	Total 50 marks
8.List of References	
A. Course Notes/handouts	Department Books, and notes on Medical
	Microbiology and Immunology by microbiology
	department, Faculty of medicine, Minia university
B. Essential Books	Jawetz, Melnick and Adelberg's Medical
	Microbiology 17th edition by Riedel. S (2019);
	McGraw-Hill Education
	Review of Medical Microbiology and Immunology
	Education
C. Recommended Text Books	Janeway's Immunobiology 9th edition by Kenneth
	Murphy and Casey Weaver, (2016); Garland
	Publishing Inc. NY, London.
D. Periodicals websites	TBD and undated during the course work
L. I CHOURCALS, WEDSILLS	122 and updated during the course work

A. Matrix between ILOs an	d course topics			
Contents	Intended Learn	ing Outcomes (I	LOs)	
(List of course topics)	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	А	В	С	D
1. Introduction and collection of pathological samples	A3 A5 A7	B1	C1,C5	D4 D5
2. Cleaning, sterilization and disinfection	A3 A5 A6	B1	C1,C4	D1 D3
3. Antimicrobial chemotherapy	A1 A5 A6	B1	C1	D1 D3
4. Bacteremia, toxemia and toxic shock	A1 A5 A7	B1 B1	C1, C1	D1 D1 D3
5. Fever	A1	B1	C1	D1 D3 D5
6. Laboratory used in epidemiology	A1	B1	C1,C1	D1 D4
7. Basic immunology 1	A3 A7	B1	C1,C4,C6	D3
8. Basic immunology 2	A1 A2 A4	B1	C1,C4,C6	D1 D3 D4
9. Hypersensitivity reactions	A3 A4 A5	B1 B2	C2	D1
10. Staphylococci	A1,A6, A7	B1	C4,C6	D1 D3 D4
11. Mycobacterial	A1 A5	B1 B2	C1, C5	D1 D3 D4

infections				
12. Streotococci	A3 A4	B1	C1	D5
13. General virology	A3 A4	B1	C1,C5	D3
14. Viral Hepatitis	A1 A3	B1 B2	C1, C4	D1 D3
15. Human immunodeficiency	A5 A6	B1	C1, 5	D1 D3 D4
16. Covid-19	A1,A1,A3	B1,B1	C1, C6,C5	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	C1,C5,C4	D3 D4
19. Bacterial, viral and fungal CNS infections	A1 A2 A3	B1	C1,C5,C4	D4 D5
20. Blood-transmitted diseases	A1 A2 A4 A6	B1	C1, C5,C4	D3 D5
21. Vector-transmitted diseases	A4 A5	B1	C1, C5,C4	D3
22. Nosocomial infections	A2	B1	C1,C1,C4	D4 D5
23. Infection control and Occupational safety	A1 A2 A3	B1	C1,C4,C6	D4

B.Matrix of Coverage of	B.Matrix of Coverage of Course ILOs by Methods of Teaching					
<u>ವ</u>	Intended Learnin	g Outcomes (l	LOs)			
ods of Teachin arning	A. Knowledge Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills		
Meth & Le	Α	В	С	D		
Lecture	A1 A2 A3 A4 A5 A6 A7	B1	C1	D1		
Practical	A1	B1 B2	C1 C2 C3 C4	D1 D2 D5		
Presentation/seminar	A1 A3 A4 A5	B1 B2	C1	D3 D4		

C.Matrix of Coverage of Course ILOs by Methods of Assessment				
Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge	B .	С.	D. General &
	&	Intellectual	Professional	Transferable
	Understanding	Skills	& Practical	Skills
			skills	
	Α	В	С	D
Written exam	A1 A2 A3 A4	B1	C1	D1 D5
	A5 A6 A7			
Oral Exam	A1 A5 A6	B1 B2	C1 C2 C3 C4	D2 D3 D4 D5

Course (5): Pharmacology

Pharmacology course specification for master degree in General Surgery (First

part)

University: Minia

Faculty: Medicine

Department: Pharmacology

8. Basic Information			
• Academic Year/level: First Part of Master Degree	• Course Title: First Part of Master Degree in General Surgery	• Code: GS200	
• Number of teaching hours: Lectures: 33 hours; 2 hours/week Practical: 12 hours; 1 hour/week			

9. Overall Aims of the course		
	By the end of course the student should 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. Understand all molecular basics and	
	diseases.	
	3. Describe different molecular techniques	
	and their advanced applications.	
	4. Understand and use the research tools	
	acuinment	
	5 Retrieve the literature and understanding	
	the evidence-based medicine	
	6. Maintain learning abilities necessary for	
	continuous medical education.	
	7. Maintain research interest andabilities.	
10.Intended learning outcomes of cou	rse (ILOs):	
Upon completion of the course, the student	should be able to:	
	a.1 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	
	(nharmacogenetics)	
	(phaimacogenetics).	
	a.3 Recall general pharmacodynamics as well	
	specific properties of different groups of drugs that	
A.Knowledge and Understanding	include the drug's mechanism of action and	
	pharmacological effects.	
	a.4 List pharmacotherapeutics which reflects the	
	of diagonal of well of provention of concertion. 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 Define 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. 	
	b.1 Develop the skills in selecting and using drugs safely and efficiently knowing their limits and the potential risks	
	b.2 Develop the ability to 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 Participate in clinical or laboratory risk management activities as a part of clinical governance.	
B Intellectual Skills	b.4 Present and defend his/her data in front of a panel of experts.	
B. Intellectual Skills	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.	

	By the end of the study of master program in Pharmacology the candidate should be able to: 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. Professional and Practical Skills	c.3 Develop plans for performing experiments related to pharmacology.	
	c.4 Use information technology in some of the pharmacology related situations.	
	c.5 Band better understanding of the normal structure and function.	
	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).	
D.General and transferable Skills	d2. Collect and verify data from different sources.	
	d3. Analyze and interpret data.	
	d.4 Appraise evidence from scientific studies.	
	d.5 Use information technology to manage information, access on-line medical researches to support his/her own education.	

Last date of approval /1/2023

4- Course Contents					
Торіс	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week		
1. Pharmacokinetic	3	-	3		
variables					
--	---	---	---		
2. Autonomic Pharmacology	3	2	0		
3. Drug interaction and adverse drug reaction	2	2	٤		
4. Pharmacology of the cardiovascular system and Diuretics	3	2	0		
5. Drugs affecting blood diseases	2	-	۲		
6. Pharmacology of GIT	2	-	٢		
7. Corticosteroids	1	2	٣		
8. Drugs used in diabetes	2	-	۲		
9. Nonsteroidal anti- inflammatory drugs and treatment of gout	2	2	4		
10. Sedative hypnotic drugs	2	-	۲		
11. Chemotherapy	6	-	٦		
12. General and local anesthetic drugs	3	2	0		
13. Skeletal muscle relaxants	2	-	۲		
14. Treatment of	2	-	٢		

shock						
Total	33	12	42			
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	7- Student Assessment					
A-Student Assessment Methods	1- Written exam	to assess the capabili	ty 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					
	3- Practical exam to assess the student's ability to identify different methods of identification of different drug actions and interactions.					
B-Assessment Schedule (Timing of Each Method of	Assessment 1: one written exam by the end of the course					

Assessment)	Assessment 2: Oral exam, after the written exam					
	Assessment 3: Practical exam					
	Formative only assessment: log book.					
8-Weighting of Each Method	Written examination: 16 marks 40%					
of Assessment	Oral/ Practical examination: 24 marks 60%					
	Total: 40 marks 100%					
9- List of References						
I. Course Notes/handouts	Lecture notes prepared by the staff members in the department.					
J. Essential Books	- Principles of pharmacology the pathophysiologic basis of drug therapy					
K. Recommended Text	- Goodman & Gilman					
Books	- Katzung					
L. Periodicals,	Pharmacological Reviews					
websites	- 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/s:

Dr. Ass. Prof. Dr. Seham Abdelwakeel

Head of Department:

Professor Dr. Mohamed Abdellah Ibrahim

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

//2023

جزء اول ماجستير جراحة علمة	مسمى المقرر
GS 200	كود المقرر

جامعة/أكاديمية : ..المنيا...... كلية / معهد...... قسم : الفارماكولوجى

Contents	We ek No.	Intended Learning Outcomes (ILOs)			
(List of course topics)		A. Knowledge & Understan ding	B. Intellect ual Skills	C. Professio nal & Practical skills	D. General & Transfer able Skills
		Α	В	С	D
1. Pharmacokinetic variables	1	+	+		
2. Autonomic Pharmacology	۲	+	+	+	
3. Drug interaction and adverse drug reaction	٣	+	+	+	
4. Pharmacology of the cardiovascular system and Diuretics	٤	+	+	+	+
5. Drugs affecting blood diseases	0	+	+	+	
6. Pharmacology of GIT	٦	+	+	+	

A. Matrix of Coverage of Course ILOs By Contents

7. Corticosteroids	٧	+	+	+	
8. Drugs used in diabetes	٨	+	+	+	+
9. Nonsteroidal anti- inflammatory drugs and treatment of gout	٩	+	+	+	+
10. Sedative hypnotic drugs	۱.	+	+	+	+
11. Chemotherapy	11- 13	+	+	+	
12. General and local anesthetic drugs	١٤	+	+	+	
13. Skeletal muscle relaxants	10	+	+	+	+
14. Treatment of shock	١٦	+	+	+	+

Methods of Teaching	Intended Learni	ng Outcomes ((ILOs)				
& Learning							
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills			
	Α	В	С	D			
Lecture	X	х					
Practical	х	Х	х	х			
Presentation/seminar	х	х	х				
Journal club	х	х					
Thesis discussion		х	х	Х			
Training courses & workshops		х	Х	Х			
Other/s (Specify)							

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

Methods of Assessment	Intended Learning Outcomes (ILOs)							
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills				
	Α	В	С	D				
Written exam	Х	Х	Х					
Oral Exam	Х	Х		Х				
Assignment	Х		Х	Х				
Other/s(Specify)								

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

Blueprint of General surgery MSC (Pharmacology Examination Paper)

16 Mark

	Topics	H	Knowledge	Intellectual	% of	Mark	Actual
			%0	%0	topics		mark
		R					
		S					
1	Pharmacokinetic variables	3	100	0	8.57	1.32	1
2	Autonomic Pharmacology	3	70	30	8.57	1.32	1
3	Drug interaction and adverse drug reaction	2	70	30	5.71	0.9	1
4	Pharmacology of the cardiovascular system and Diuretics	3	70	30	8.57	1.32	1.5
5	Drugs affecting blood diseases	2	70	30	5.71	0.9	1
6	Pharmacology of GIT	2	80	20	5.71	0.9	1
7	Corticosteroids	1	80	20	2.85	0.45	0.5
8	Drugs used in diabetes	2	100	0	2.85	0.9	1
9	Nonsteroidal anti- inflammatory drugs and treatment of gout	2	70	30	5.71	0.9	1
10	Sedative hypnotic drugs	2	80	20	5.71	0.9	1
11	Chemotherapy	6	60	40	17.14	2.74	2.5
12	General and local anesthetic drugs	3	80	20	8.57	1.32	1.5
13	Skeletal muscle relaxants	2	100	0	5.71	0.9	1
14	Treatment of shock	2	75	25	5.71	0.9	1
	Total	33			100%		١٦

Course (6): Medical Ethics

Course Specification of Medical Ethics

Master degree of General Surgery (2022-2023)

University: Minia

Faculty: Medicine

Program on which the course is given: Master degree of General Surgery

Major or minor element of program: Medical ethics, ethics of medical research

Department offering the program: General Surgery Department

Department offering the course: Forensic Medicine & Clinical Toxicology Department

Academic year / Level: First part

Date of specification approval: Last date of approval: 7/11/2021

A. Basic Information						
• Academic Year/level: Post graduate; 1 st Part MSC, General Surgery	• Course Title: Course Specification of Medical Ethics (Master degree of General Surgery)	• Code:				
Number of teaching horizontal	urs:					
- Lectures: Total of 36 ho	ours; ^Y hour/week					
B- Professional Information						
1. Overall Aims of the	By the end of the course the student	t should be able to				
course	identify the value of studying and p	racticing				
	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. 				

TOPIC	Lecture	Practical	Total
	Hours	hours	hours

D.5- Identify how to participate in the national and social affairs and responsibilities.

3- Course Contents

Medical Responsibility and Dutie	es of the	2		2
physician				
	4 1 - Straight lectu	res: power	point present:	2 attons
4- Teaching and Learning	4 2 - Brain stormi	he with the	students	
Methods	4.2 Drum storm	estions and	A newers	2
Withhous			1115 W C1 5	
Diagnosis of ucatil & Death Certi	ficates	2		2
Consent in medical field		2		2
		2		
Medical malpractice		2		2
Madiaalagal importance of Organ	trangelantation	2		2
Medicolegal importance of Organ	i transplantation	2		2
Operative presentions and Diago	osis of dooth	2		2
Operative precautions and Diagn	iosis of ucatif	2		2
Medical syndicate		2		2
Wieurean Syntheate		2		2
Professional secrecy		2		2
Female circumcision		2		2
Physician disciplinary proceeding	5	2		2
	-			
Domestic Violence		2		2
Euthanasia (Mercy death)		2		2
Ethics in medical research		2		2
		-		-
Medical reports		2		2
Deles of a single different and a second	· · · · · · · · · · · · · · · · ·	2		2
Rules of using addictive drugs an	nong physicians	2		2
Modical cortificatos		2		2
wicultar cer inicates		2		<i>L</i>
Total		(36 hr)		(36 hr)
		(30 m.) Y/W/	_	/33/7
		'/ VV		/ •• •
		1	1	

5- Teaching and Learning Methods to students with limited Capacity	(Not applicable)				
6- Student Assessment					
A. Student Assessment Methods	TENDANCE CRITERIA : by Fa	culty laws (log book)			
Memous	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 con	nmunication.			
B. Assessment Schedule	Final Written examOral exam				
C. Weighting of Assessment	 Final Written exam Oral exam Total 	80% (100 Marks) 20% (25 Marks) 100% (125 Marks)			
7- List of References		´´			
A. Course Notes/handouts	Department book by staff member Log Book.	ŝ.			
B. Essential Books (text books)	Medical Ethics Manual, 2nd Editi 2009. Medical Ethics, 2nd Edition, Mich	on John R. Williams, nael Boylan, 2014.			
C. Recommended Books	Text book of medical ethics, Eric	h 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				
8. Facilities required for	<u>nups://www.ncbl.nlm.nln.gov/pm</u> Classrooms for theoretical lecture	c/articles/PIVIC50/400//			
teaching and learning					
Course Coordinator: Dr. Morid M	Malak Hanna				

Head of Department:

Prof. Dr. Irene Atef Fawzy

Course Specification of Medical Ethics Master degree of General Surgery (First part))	مسمى المقرر	جامعة/أكاديمية :المنيا كلية / معهد:الطب البشرى قسم:الطب الشرعى والسموم الأكلينكية
GS200	كود المقرر	

A. The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)				
	A. Knowledge	B. Intellectual	C. Professional	D. General &	
	&	Skills	& Practical	Transferable	
	Understanding		skills	Skills	
	Α	В	С	D	
Medical	A1,3	B4	C1	D1,2	
Responsibility and					
Duties of the					
physician					
Medicolegal	A1,2	B3	-	-	
aspect of cloning					
Defensive	A4,5	B6	C3	D3	
Medicine					
Diagnosis of death	A1,2	B2	-	-	
& Death					
Certificates					
Consent in	A2,5	-	-	-	
medical field					
Medical	A1,6	B5	C4	D5	
malpractice					
Medicolegal	A5,6	B3	-	-	

importance of				
Organ				
transplantation				
Operative	A1,2,3	-	-	D4
precautions and				
Diagnosis of death				
Medical syndicate	A2,4,5	B2	-	D1.2,3
Professional	A2,4,6	-	C2	-
secrecy				
Female	A1,3,4	B1	-	-
circumcision				
Physician	A1,2	-	-	-
disciplinary				
proceeding				
Domestic Violence	A3,4	-	C1,2	D1.2
Euthanasia	A1,4	B1,2	-	-
(Mercy death)				
Ethics in medical	A1,6	B3,5	C3	D1,4
research				
Medical reports	A1,5	-	-	-
Rules of using	A2,6	-	C4	-
addictive drugs				
among physicians				
Medical	A1,4	B1,2	-	-
certificates				

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

	Intended Learning Outcomes (ILOs)					
s of Teaching ning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills		
Method & Lear	Α	В	С	D		
Lecture	A1,2,3,4,5,6	B1,2,3,4,5,6	C1,2,3,4	D1,2,3,4,5		
Practical						
Clinical (Including grand rounds)						
Presentation/seminar	A1,2,3	B1,2,3	C1	D1,2		
Journal club						
Thesis discussion						
Training courses & workshops	A1	B1-2-3	C1	D1,2		

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

	Intended Learning Ou	itcomes (ILOs)		
nent				
ls of Assessr	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Methoo	Α	В	С	D
Written exam	A1,2,3,4,4,5,6	B1,2,3,4,5		
Practical exam				
Clinical exam				
Oral Exam	A1,2,3,4,4,5,6	B1,2,3,4,5	C1	D1,2
Assignment				
Structured oral exams				

Blueprint of 1st master of general surgery

Postgraduates" Medical Ethics Examination Paper (40 marks)

	Торіс	Hours	Knowledge %	Intellectual%	% of topic	N of items Por	Know	ledge	Intelle	ectual	Marks	Actual Mark
						topic	N of items	Mark	N of items	Mark		
1	Medical Responsibility and Duties of the physician & Defensive Medicine	4	75	25	11.1	1	1	4.44	1	20	4.44	4
2	Medicolegal aspect of cloning	2	75	25	5.55	1	1	2.22			2.22	3
3	Diagnosis of death & Death Certificates	2	70	30	5.55	1	1	2.26			2.26	3
4	Consent in medical field & Medical malpractice	4	80	20	11.1	1	1	4.44	1	20	4.44	4
5	Medicolegal importance of Organ transplantation & Female circumcision	4	75	25	11.1	1	1	4.44			4.44	4
6	Operative precautions and Diagnosis of death	2	70	30	5.55	1	1	2.22			2.22	2

Second Part

Course (7): General Surgery

General Surgery, course specification for Master degree in General Surgery (Second part)

University: Minia

Faculty: Medicine

Department: General Surgery

Last date of approval: 3 /2023

11.Course Information				
• Academic Year/level: Second Part of Master Degree	• Course Title: Second Part of Master Degree in General Surgery	• Code : GS200		
• Number of teaching Lectures: 540 hours: 12 hour	hours: s/week: 45 weeks (1.5 teaching)	vears)		
Practical: 180 hours; 4 hour	s/week; 45 weeks (1.5 teaching y	vears)		
Total: 720 hours;16hours/we	ek; 45 weeks (1.5 teaching years)		
12. Overall Aims of the course	of By the end of the course the student must be able to: Acquire the basic Knowledge and surgical skills necessary for General Surgery in clinical reasoning, diagnosis and management of diseases including Shock-Multiple Injured Patients-Neck swelling.			
13.Intended learning of <i>Upon completion of the cour</i>	utcomes of course (ILOs): se, the student should be able to	:		
	The student finishes the course;	he will be able to:		
	a.1 Define the principles of basics of General Surgery, acid			
I- Knowledge	base balance and mangement of multiple injred patients			
and	and b.2 Identify the facts and principles of the relevant basic and			
Understandi	clinically supportive sciences related to General Surgery			
ng	b.3 Describe the basic ethical an	nd medicolegal principles		
	revenant to the General Surgery	7		
	b.4 Identify the basics of quality	y assurance to ensure good		

	clinical care in General Surgery
	b.5 Recognize the ethical and scientific principles of medical
	he State the impact of common health problems in the field
	of Conorol Surgery on the society
	The student finishes the course: he will be able to:
	h 1 Correlate the facts of relevant basic and clinically
	supportive sciences with clinical reasoning, diagnosis and
	supportive sciences with chine a reasoning, diagnosis and management of common diseases related to General Surgery
I. Intellectual	h 2 Demonstrate an investigatory and analytic thinking
Skills	(problem solving) approaches to common clinical situations
SKIIIS	related to General Surgery
	h 3 Design and present cases seminars in common problem
	b 4 Formulate management plans and alternative decisions in
	different situations in the field of the General Surgery
	After completing the course, the student should be able to:
	c 1 Obtain proper history and examine patients in caring and
	respectful behaviors
	c.2 Order non invasive/invasive diagnostic procedures:
	Basal laboratory investigation and X- ray skull-neck-
	abdomen- chest- upper & lower limbs
	c.3 Interpret non invasive/invasive diagnostic procedures:
	Basal laboratory investigation and X- ray skull-neck-
	abdomen- chest- upper & lower limbs
	c.4 Perform non invasive/invasive therapeutic procedures
	inclding operation for multiple injured patients
V. Des fansional	c.5 Prescribe non invasive and invasive therapeutic
K- Protessional	procedures including treatment of shock and surgical infection
allu Dreaticel	c.6 Carry out patient management plans for common
r ractical Skille	conditions related to General Surgery including: Acid- base
SKIIIS	balance, shock, Hemorrhage, Surgical infection, and Multiple
	Injured patient
	c.7 Use information technology to support patient care
	decisions and patient education in common clinical situations
	related to Procedure presentation
	c.8 Provide health care services aimed at preventing health
	problems related to Procedure presentation like: Shock,
	Hemorrhage, and Surgical infection
	c.9 Provide patient-focused care in common conditions related
	to General Surgery, while working with health care
	protessionals, including those from other disciplines

L- General and transferable Skills	After completing the course, the student should be able to: d.1 Perform practice-based improvement activities using a systematic methodology(audit, logbook) d.2 Appraises evidence from scientific studies(journal club) d.3 Conduct epidemiological Studies and surveys d.4 Perform data management including data entry and analysis
	d.5 Facilitate learning of junior students and other health care professionals

4- Course Contents

Торіс	Lecture hours/week	Practical/Clini cal hours/week	Total No. of hours hours/week
12. Shock and hemorrhage	40	-	40
13. Surgical infection	18	-	18
14. Fluid, electrolyte, and acid base balance	18	-	18
15. Lymphatic system	18	15	33
16. Abdominal wall, Hernia, Testis & Scrotum	18	15	33
17. Breast	56	15	71
18. Neck surgery & Thyroid gland	56	15	71
19. Trauma & Multiple injured patients	40	15	55
20. G.I.T system, Peritoneum & Mesentry	70	15	85
21. Pancreas and Biliary system	40	15	55
22. Vascular surgery	40	15	55
23. Chest surgery	18	15	33

24. Pediatric surgery	40	15	55
25. Neurosurgery	18	15	33
26. Plastic surgery	40	15	55
Total	540	180	720
5-Teaching and Learning Methods	 Lectures Clinical/practical rounds: Bedside tutorial Case presentation Group discussion Problem solving Operative room tutorial Seminars Training courses workshops Conference attendance Journal club 		
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. The exam involves:		

	Short essay		
	• MCQs		
	Problem solving		
	2- Oral/Clinical 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. The exam involves:		
	• Case sheet		
	Case discussion		
	• OSCE		
	Imaging slides		
B-Assessment Schedule	Assessment 1: one written exam by the end of the course		
(Timing of Each Method of Assessment)	Assessment 2: Oral/Clinical exam, after the written exam		
	Formative only assessment: log book.		
C-Weighting of Each Method	Written examination: 40%; 280 Mark		
of Assessment	Oral/Clinical examination : 60%; 420 Mark		
	Total : 100 %; 700 Mark		
8- List of References			
A-Course Notes/handouts	Course notes and Staff members print out of lectures and/or CD copies		
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, 21 st 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 Periodicals:
	3- International Journal of Surgey
	4- British Journal of Surgery

Course Coordinator/s:

Dr. Yasser Ali Kamal,

Dr. Abdel-rahman Gamal Saleh,

Dr. Mohamed Jamal El-sherif

Head of Department:

Prof. Dr. Amr Hamdy

Ame Hamdy

Council:

Date of last update & approval by department

5 / 3 / 2023

جزء ثاني ماجستير الجراحة	مسمى المقرر
GS 200	كود المقرر

جامعة/أكاديمية : ..المنيا....

كلية / معهد..الطب.....

قسم : الجراحة العامة

Contents	Week No.	Intended Learning Outcomes (ILOs)			
(List of course topics)		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		Α	В	С	D
Shock and hemorrhage		+	+		
Surgical infection		+	+		
Fluid, electrolyte,an d acid base balance		+	+		
Lymphatic system		+	+	+	+

A. Matrix of Coverage of Course ILOs By Contents

Abdominal wall, Hernia, Testis & Scrotum	+	+	+	+
Breast	+	+	+	+
Neck surgery & Thyroid gland	+	+	+	+
Trauma & Multiple injured patients	+	+	+	+
G.I.T system, Peritoneum & Mesentry	+	+	+	+
Pancreas and Biliary system	+	+	+	+
Vascular surgery	+	+	+	+
Chest surgery	+	+	+	+
Pediatric surgery	+	+	+	+
Neurosurgery	+	+	+	+
Plastic surgery	+	+	+	+

Methods of Teaching	Intended Learning Outcomes (ILOs)				
& Learning					
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
	Α	В	С	D	
Lecture	X	X			
Practical	Х	х	х		
Presentation/seminar	Х	х	х	Х	
Journal club	Х	х	Х	Х	
Thesis discussion	Х	х	Х	Х	
Training courses & workshops	x	х	Х		
Other/s (Specify)					

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

C. Matrix of Coverage of	of Course ILOs by	Methods of Assessment
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Methods of Assessment	Intended Learning Outcomes (ILOs)				
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
	Α	В	С	D	
Written exam	Х	х			
Oral/Clinical Exam	X	х	X		
Assignment	X	X	X	X	
Other/s(Specify)					

Blueprint of General Surgery course for Master 2nd part Examination Paper

Торіс	Hours	Knowledge%	Intellectual%	% of	Mark	Actual
				topic		mark
First Paper:						
Shock and		80	20			
hemorrhage	40			7.41	20.74	20.00
Surgical infection	20	80	20	3.70	10.37	10.00
Fluid.	_	80	20			
electrolyte.and acid			-			
base balance	20			3.70	10.37	10.00
Lymphatic system	20	80	20	3.70	10.37	10.00
Abdominal wall,		70	30			
Hernia, Testis &						
Scrotum	20			3.70	10.37	10.00
Breast	56	60	40	10.37	29.04	30.00
Neck surgery &		60	40			
Thyroid gland	56			10.37	29.04	30.00
Trauma & Multiple		60	40			
injured patients	40			7.41	20.74	20.00
Second Paper:						
G.I.T system,		60	40			
Peritoneum &						
Mesentry	70			12.96	36.30	40.00
Pancreas and Biliary		60	40			
system	40			7.41	20.74	20.00
Vascular surgery	40	60	40	7.41	20.74	20.00
Chest surgery	19	70	30	3.52	9.85	10.00
Pediatric surgery	40	70	30	7.41	20.74	20.00
Neurosurgery	19	70	30	3.52	9.85	10.00
Plastic surgery	40	70	30	7.41	20.74	20.00
Total	540			100%		280

Section III:



Program Correlations

مصفوفة توافق المعايير القومية القياسية العامة لبرامج الماجستير مع المعايير الأكاديمية المعتمدة من كلية الطب – جامعة المنيا لدرجة الماجستير في الجراحة العامة

Annex (1): Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

NAQAAE	Faculty
برامج الماجستير	Master (MSC) Program
٢ . المعايير القياسية العامة:	2. Faculty Academic Reference Standards (ARS) for
NAQAAE General Academic Reference Standards "GARS" for Master Programs	Master Program
٢,١. المعرفة والفهم:	2.1. Knowledge & Understanding:
بانتهاء دراسة برنامج الماجستير	Upon completion of the Master Program
يجب أن يكون الخريج قادرا علي بكل من: الفهم والدراية	in General Surgery, the graduate should have sufficient
	knowledge and understanding of.
٢,١,١ للنظريات والأساسيات	2.1.1. Understand the scientific basis and modern
والحديث من المعارف في مجال	knowledge in the field of specialization and related
التخصص والمجالات ذات العلاقة	medical sciences
٢,١,٢ التأثير المتبادل بين الممارسة	2.1.2. The mutual influence of professional practice on
المهنية وانعكاسها علي البيئة	work environment, working conditions, and job
	characteristics.
٢,١,٣. التطورات العلمية في مجال	2.1.3. Scientific developments in the field of

التخصص	specialization
٢,١,٤ المبادئ الأخلاقية والقانونية	2.1.4. Recognize basics of medico-legal aspects of
للممارسة المهنية في مجال التخصص	practice, malpractice and avoid common medical errors
٢,١,٥. مبادئ وأساسيات الجودة في	2.1.5. Quality principles in the scholarly field
الممارسة المهنية في مجال التخصص	
٢,١,٦ أساسيات وأخلاقيات البحث	2.1.6. Basis of research methodology and medical
العلمي	ethics.
المهارات الذهنية: 2.2.	2.2. Intellectual Skills:
بانتهاء دراسة برنامج الماجستير	Linon completion of the master program of General
يجب أن يكون الخريج فادرا على:	Surgery, the graduate should be able to:
تحليل وتقييم المعلومات في 2.2.1	2.2.1. Use judgment skills for analytical and critical
مجال التخصص والقياس عليها لحل	problem solving
المشاكل	
حل المشاكل المتخصصة مع 2.2.2	2.2.2. Capable of integrating knowledge and dealing
عدم توافر بعض المعطيات	with complex subjects to solve problems
الربط بين المعارف المختلفة 2.2.3	2.2.3. Be capable of integrating research results and/or
لحل المشاكل المهنية	results of history, physical and laboratory test findings
	to solve a research or a clinical problem.
إجراء دراسة بحثية و/أو كتابة .2.2.4	2.2.4. Effectively apply research methods and carrying
دراسة علمية منهجية حول مشكلة	out a medical research thesis
بحثية	
تقييم المخاطر في الممارسات .2.2.5	2.2.5. Be aware of risk management principles, and
المهنية في مجال التخصص	patient safety.
التخطيط لتطوير الأداء في .2.2.6	2.2.6. Establish goals, commitments, and strategies for
مجال التخصص	improved professional performance in the field of
	specialty
اتخاذ القرارات المهنية في .2.2.7	2.2.7. Take professional situational decisions and
سياقات مهنية متنوعة.	logically support them.
المهارات المهنية .3.2	3.2. Professional Skills:
بانتهاء دراسة برنامج الماجستير	Upon completion of the master program of General

يجب أن يكون الخريج قادرا على	Surgery, the graduate must be able to:
إتقان المهارات المهنية .3.2.1	3.2.1. Master the basic and some advanced professional
الأساسية والحديثة في مجال	skills in his scholarly field.
التخصص.	
٣,٢,٢ كتابة و تقييم النقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
٣,٣,٣ تقييم الطرق والأدوات القائمة	3.2.3. Assess and evaluate technical tools during
في مجال التخصص	research
:المهارات العامة والمنتقلة 4.2.	4.2. General and transferable skills
بانتهاء دراسة برنامج الماجستير	Upon completion of the master program of General
يجب أن يكون الخريج قادرا على	Surgery, the graduate should be able to:
٤,٢,١ التواصل الفعال بأنواعه	4.2.1. Communicate effectively using a written medical
المختلفة	record, electronic medical record, or other digital
	technology.
٤,٢,٢ استخدام تكنولوجيا المعلومات	4.2.2. Use of information technology (computer to
بما يخدم الممارسة المهنية	create, process, store, secure and exchange electronic
	data) in the field of medical practice.
. لتقييم الذاتي وتحديد احتياجاته 4.2.3	4.2.3. Assess himself and identify personal learning
التعلمية الشخصية	needs
. استخدام المصادر المختلفة 4.2.4	4.2.4. Use various sources for information (physical and
للحصول على المعلومات والمعارف	digital sources).
. وضع قواعد ومؤشرات تقييم 4.3.5	4.2.5. Setting indicators for evaluating the performance
أداء الأخرين	of others
. العمل في فريق، وقيادة فرق 4.2.6	4.2.6. Work in a team, and Apply leadership skills to
في سياقات مهنية مختلفة	enhance team functioning, the learning environment,
	and/or the health care delivery system
. إدارة الوقت بكفاءة 4.2.7	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.

Annex (2): Comparison between Faculty Academic Reference Standards (ARS) and ILOs of Program of Master degree (MSc) in General Surgery

Faculty	ILOs of Program of Master degree (MSc) in
Master (MSC) Program	General Surgery
2. Faculty Academic Reference	
Standards (ARS) for Master	
Program	
2.1. Knowledge & Understanding:	A. Knowledge & Understanding:
Upon completion of the Master	
Program	
in General Surgery, the graduate	
should have sufficient knowledge	
and understanding of:	
2.1.1. Understand the scientific	a.1 Explain the essential facts and principles of
basis and modern knowledge in the	relevant basic sciences including Pathology,
field of specialization and related	Anatomy, Histology and Physiology,
medical sciences	pharmacology biochemistry, and medical ethics
	related to General Surgery.
	a.2 Recognize essential facts of clinically supportive sciences including General Surgery. a.3 Identify etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to General Surgery.
2.1.2. The mutual influence of	a.7 Explain the impact of common health
professional practice on work	problems in the field of General Surgery on the
environment, working conditions,	these problems
and job characteristics.	actor problems.
2.1.3. Scientific developments in the	a.8 Idetify recent advances in the field of General
field of specialization	Surgery
2.1.4. Recognize basics of medico-	a.4 Identify the basic ethical and medicolegal
legal aspects of practice,	principles that should be applied in practice and

malpractice and avoid common	are relevant to the General Surgery
medical errors	
2.1.5. Quality principles in the scholarly field2.1.6. Basis of research methodology and medical ethics.	a.5 Identify the basics and standards of quality assurance to ensure good clinical care practice in the field of General Surgery.a.6 Identify the ethical and scientific principles of medical research in General Surgery.
2.2. Intellectual Skills:	B. Intellectual Skills:
Upon completion of the master program of General Surgery, the graduate should be able to:	
2.2.1. Use judgment skills for analytical and critical problem solving	b.2 Solve problems of common clinical situations related to General Surgery using an investigatory and analytic thinking approach.
2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery
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.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases of the General Surgery. b.7 Combine knowledge for professional problems' solving.
2.2.4. Effectively apply research methods and carrying out a medical research thesis	b.3 Design a research study or review on common clinical problems relevant to the field of General Surgery
2.2.5. Be aware of risk management principles, and patient safety.	b.5 Assess risk in professional practices in the field of General Surgery.
2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty	b.6 Plan for the development of performance in the field of General Surgery.
2.2.7. Take professional situational	b.4 Formulate management plans and alternative
--------------------------------------	---
decisions and logically support	decisions in different situations in the field of the
them.	General Surgery
	b.8 Assess common ethical dilemma and its
	proper sollution
3.2. Professional Skills:	C. Professional Skills:
Upon completion of the master	
program of General Surgery, the	
graduate must be able to:	
	a 1. Community and instant and a second allow a fallering
3.2.1. Master the basic and some	diagnosis investigations and modelity of
scholarly field	treatment) for common conditions related to
scholarly held.	General Surgery
	General Surgery.
	c.3 Perform competently non invasive and
	invasive procedures considered essential for the
	General Surgery.
	c.4 Provide health care services aimed at
	preventing health problems related to General
	Surgery.
	c.5 Provide patient-focused care in common
	conditions related to General Surgery, while
	these from other disciplines
	those from other disciplines.
3.2.2. Write and evaluate medical or	c.6 Write competently all forms of patient charts
scientific reports	and sheets including reports evaluating these
	charts and sheets.
	c.7 Orgaize a proper medical report.
3.2.3. Assess and evaluate technical	c.2 Use information technology to support
tools during research	patient care decisions and patient education in
	common clinical situations related to General

4.2. General and transferable skills	D. General and transferable skills
Upon completion of the master program of General Surgery, the graduate should be able to:	
4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.	d.3 Maintain therapeutic and ethically sound relationship with patientsd.5 Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.
4.2.2. Use of information technology (coputer to create, process, store, secure and exchange electronic data) in the field of medical practice.	 d.2 Perform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education. d.9 Organize material from different scientific sources including library, electronic and online resources.
4.2.3. Assess himself and identify personal learning needs	 d.1 Perform practice-based improvement activities using a systematic methodology d.8 Be aware of the importance of life-long self-learning and show a strong commitment to it.
4.2.4. Use various sources for information (physical and digital sources).	d.9 Organize material from different scientific sources including library, electronic and online resources.
4.2.5. Setting indicators for evaluating the performance of others	d.10 Dealing effectively with unethical behavior of other members of healthcare team.
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	d.4 Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.

	d.7 Assist patients in dealing with system complexities.
4.2.7. Manage time efficiently	d.6 Practice cost-effective health care and resource allocation that does not compromise quality of care.
4.2.8. Demonstrate skills of self- learning and lifelong learning needs of medical profession.	d.8 Be aware of the importance of life-long self- learning and show a strong commitment to it.

University: MINIA

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Faculty(s): MEDICINE

Department: General Surgery

Program: Master degree (MSc) in General Surgery (GS200)

Matrix of Coverage of Course ILOs By Contents

Courses:		Program Intended Learning Outcomes (ILOs)																														
(List of			Knov	vledg	e &	.A			B. Intellectual					C. Professional & Practical								D. General & Transferable Skills										
courses in		τ	J nde i	rstan	ding									S	kills	skills							s									
first and					2																											
second																																
parts)																																
	a.	a.	a.	a.	a.	a.	a.	b.	b.	b.	b.	b.	b.	b.	b.	c.	c.	c.	c.	c.	c.	c.	d.									
	1	۲	٣	£	٥	٦	۷	1	2	3	4	5	6	7	8	1	2	3	4	5	٦	۷	1	2	3	4	5	6	7	8	9	10
Surgical	x	X	X					X	X							X	X															
Anatomy																																
and																																
Histology																																
Physiolog	х	х	х					х	х							х	х															
y and																																
Biochemi																																
stry																																
Surgical	х	х	х					х	х							х	х															
Pathology																																
Microbiol	х	х	х					х	х							х	х															
ogy																																
Pharmac	Х	Х	Х					x	X							X	X															
ology																																
Medical				Х											X							X										
ethics																																
General	х	X	X	Х	X	X	х	X	х	X	X	X	Х	Х	X	х	х	х	Х	X	Х	X	Х	х	X	х	X	X	Х	X	X	Х
Surgery																																
and its																																
branches																																

Section IV:

PROGRAM REPORT

Programme Report of Master degree in General Surgery

.

نموذج رقم (۱^۰)

تقرير عن برنامج درسي

Program report

For academic year 2022 /2023

University/Academy: Minia

Faculty/ institute: Medicine

Department: Surgery

A-BASIC INFORMATION

1-Program title:	Master Degree (MSc) in General Surgery
اسم البرنامج	(GS200)
2-Speciality:	General Surgery
التخصص	
3-No of program's years:	2 years
عدد السنوات الدراسية	
4- No of courses	^v courses include:
عدد المقررات	1. Surgical Anatomy and Histology
	2. Physiology and Biochemistry
	3. Surgical Pathology
	4. Microbiology
	5. Pharmacology
	6. Medical ethics
	7. General surgery
5- Roles that regulate formation of	Depending on the department council and
examiners committees: annex	faculty rules and according to the specialties
أسس تشكيل لجان الممتحنين	
6-External examiners' system:	Available $()$ not available $()$
نظام الممتحنين الخارجيين	

B- PROFESSIONAL INFORMATION

7-Statistics إحصائيات	
-No of Students joined the program	2020: 2
عدد الطلاب الملتحقين بالبرنامج	2021: 2
	2022: 1
- Success rate in the program (%)	100 %
(%) معدل النجاح في البرنامج	
-Ratio of students attending the program	Increasing $()$ Constant ()
this year (in relation to those of last 3 years)	Decreasing ()
اتجاه الالتحاق بالبرنامج (منسوبة الى الأعداد الملتحقة	
بالبرنامج خلال آخر ۳ سنوات)	
-Final Exam results	Passed 100 %
نتائج الامتحان النهائي	
-Distribution of success grades (%)	Excellent () Very good (4) good (1)
توزيع تقديرات النجاح (%)	Pass ()

8- Academic standards	
المعايير الأكاديمية	
- Academic reference standards (ARS): المعايير الأكاديمية المرجعية	 Minia faculty of medicine 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 No. 182, decree No. 7163 dated: 14/9/2009. faculty Council decree No.7528, in its cession No.191, dated: 15\3\2010
	•Then, General Surgery department has
	developed the academic standards (ARS) for
	Master (MSc) program in General Surgery
- Knowledge & Understanding:	By the end of the study of Master program
المعلومات والمفاهيم	in General Surgery the candidate should
	be able to:
	a.9 Explain the essential facts and
	principles of relevant basic sciences
	including Pathology, Anatomy,
	Histology and Physiology,
	pharmacology and biochemistry
	related to General Surgery.
	a.10
	ecognize essential facts of clinically
	supportive sciences including
	General Surgery.

	a 11
	dentify etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of the common
	diseases and situations related to General Surgery.
	a.12
	medicolegal principles that should be applied in practice and are relevant to the General Surgery.
	a.13
	dentify the basics and standards of quality assurance to ensure good clinical care practice in the field of General Surgery.
	a.14
	dentify the ethical and scientific
	General Surgery.
	a.15
	xplain the impact of common health
	problems in the field of General
	Surgery on the society and how good
	problems.
	a.16
	dentify recent advances techiques
	and procedurs in the practice of
- Intellectual skills	By the end of the program the candidate
المهارات العقلية	should be able to:
	b.1 Correlate the facts of relevant basic and
	clinically supportive sciences with clinical
	reasoning, diagnosis and management of
	common diseases of the General Surgery.
	situations related to General Surgery using an
	investigatory and analytic thinking approach.
	b.3 Design a research study or review on
	common clinical problems relevant to the
	Held OI General Surgery.
	alternative decisions in different situations in
	the field of the General Surgery.
	b.5 Assess risk in professional practices in the

	field of General Surgery.
	b.6 Plan for the development of performance
	in the field of General Surgery.
	b.7 Combine knowledge for professional
	problems' solving.
	b 8 Assess common ethical dilemma and its
	proper sollution
-Professional & practical/clinical skills:	By the end of the program the candidate
المعارات المعنية والعماية	should be able to.
	c 8 Carry out nationt management
	nlans (clinical diagnosis
	investigations and modality of
	treatment) for common
	conditions related to General
	Surgery
	c 9 Use information technology to
	support patient care decisions
	and patient education in
	common clinical situations
	related to General Surgery
	c 10
	erform competently non
	invasive and invasive
	procedures considered
	essential for the General
	Surgery
	c 11
	rovide health care services
	aimed at preventing health
	problems related to General
	Surgery
	c 12
	rovide natient-focused care in
	common conditions related to
	General Surgery while
	working with health care
	professionals including those
	from other disciplines
	c 13
	rite competently all forms of
	natient charts and sheets
	including reports evaluating
	these charts and sheets
	ragize a proper medical report
Ganaral & transforable skiller	By the end of the program the student
-General & transferable skills:	by the end of the program the student

المهارات العامة والمنقولة	should have the ability to:
	d.11
	erform practice-based improvement activities using a systematic
	a 12
	erform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education.
	d.13
	aintain therapeutic and ethically sound relationship with patients.
	d.14
	emonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices
	d 15
	ommunicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.
	a.10
	resource allocation that does not
	d.17
	ssist patients in dealing with system complexities.
	0.18 e aware of the importance of life-
	long self-learning and show a strong commitment to it.
	d.19
	rganize material from different scientific sources including library, electronic and online resources.
	d.20
	ealing effectively with unethical
	behavior of other members of healthcare team.

- Students' support system (students with limited capabilities & those with outstanding performance): طرق دعم الطلاب (ذوي القدرات المحدودة والمتميزين)	 Special sessions to explain any difficult part for students to understand Different schedule according to their ability (putting time tables that not overlaps their teaching schedule) Rewarding students who provide good seminars
-External reference standards for the program (Benchmark): معايير القياس المرجعية للبرنامج	 Minia faculty of medicine adopted the standards provided by "Accreditation council for graduate Medical Education" (http: acgme.org). (Date and NO. of <u>faculty council</u> approval). Comparison between ARS of Master program in Minia faculty of medicine & External benchmarks.
-Program handbook: دليل البرنامج	Available ($$) Not available ()
-Program review process: نظام المراجعة الدورية للبرنامج	Available ($$) Not available () Annual () More than one year ()
- Achievement of program intended learning outcomes(ILOs) by academic program framework (by courses): مدى توافق الهيكل الأكاديمي للبرنامج مع المستهدف	The matrix of program ILOs vs courses
من التعليم	

9-Students assessments to measure achievement of program intended learning outcomes (ILOs)						
-Assessment tools/methods:	1. Research (Thesis)					
أدوات التقويم	2. Written Exams:					
	Short essay					
	MCQs					
	Problem solving					

	3.Practical Exams		
	4. Oral Exams		
	5.Seminars, presentations, assignments		
	6.log book		
-Timetable/schedule:	<u>First Part</u> : (≥6 months=1 semester):		
المواعيد	• At least six months after		
	registration should pass before		
	enrolling for the first part		
	examination.		
	• The exam is set twice a year in May		
	and in October.		
	• For the student to pass the first part		
	exam, a score of at least 60% in		
	each curriculum is needed.		
	<u>Second Part</u> : $(\geq 18 \text{months} = 3 \text{ semesters})$:		
	• The student should pass the 1st part		
	before he/she can ask for		
	examination in the 2nd part, not		
	more than 4 times.		
	• Fulfilment of the requirements in		
	each course is a prerequisite for		
	candidates to be assessed and		
	undertake part 1 and part 2 exams;		
	as following:		
	Gase presentation		
	Case presentation Seminars		
	 Seminars Thesis discussion 		
	I nests discussion Workshops		
	Workshops Conformation attendance		
	Conference attendance Lournal alub		
	• Journal Club • Two sets of exems: first in Max		
	• I wo sets of exams: first in May—		
	• At least 60 % of the written exam is		
	needed to be admitted to the oral		
	and practical exams		
	Thesis/essay:		
	Master thesis subject should be		
	officially registered after		
	registration for the Master degree		
	and should be completed, defended		
	and accepted after passing the		
	second part final examination, not		
	before 6 months from registering		
	the subject.		

	 One research in national journal should be published from the Master thesis and accepted at least oneonth before aking for the second part exam. The duration of registered Master degree should not be more than 4 years till agreement of the Department council (after taking opinion of supervisors) and Faculty council.
-External evaluator comments: (if present) ملاحظات المراجع الخارجي (إن وجدت)	

10-Educational resources:

Ratio of teaching staff to student numbers نسبه اعضاء هيئه التدريس على راس العمل الى الطلاب	Sufficient
- Suitability of staff members specialties as well as distribution of teaching loads for program's needs مدى ملائمة تخصصات أعضاء هيئة التدريس وتوزيع الأعباء عليهم طبقا لاحتياجات البرنامج	Suitable () Suitable to some extent ($$) Non- Suitable () (why?)
-Library:	Suitable () Suitable to some extent (√)
المكتبة	Non- Suitable () (why?)
-Laboratories/clinical places:	Suitable () Suitable to some extent ($$)
أماكن التدريب الاكلينيكي/المعامل	Non- Suitable () (why?)
-Computers/computer labs:	Suitable () Suitable to some extent (√)
الحاسب الآلي	Non- Suitable () (why?)

-Collaboration with other organizations for	Collaboration with department of General	
offering students training opportunities: مدى التعاون مع جهات الأعمال في توفير فرص التدريب للطلاب	Srgery at: Assuit university Ain shams university Mansoura University for Gastrointestinal Surgery and liver transplantation	
-Other program requirements: أي متطلبات أخرى للبرنامج	TOEFL FLDP & ICTP courses and certificates.	

11-Quality management & development system

ادارة الجودة والتطوير

- The follow up system for areas of	Effective ()		
Weakness:	Effective to some extent $()$		
نظام المتابعة لجوانب القصور	Not effective () (Why?)		
Implementation of faculty and university bylaws:	Suitable () Suitable to some extent ($$) Non- Suitable () (why?)		
إجراءات تطبيق لوائح وقوانين الكلية والجامعة			
	•		
-Effectiveness of internal evaluation/audit process in program development: مدى فاعلية نظام المراجعة الداخلية في تطوير البرنامج	Good		
-External evaluators' comments on			
program ILOs and assessment standards:			
ملاحظات المراجعين الخارجيين فيما يخص مخرجات			
البرنامج ومعايير القياس			

12- Program development suggestions:

مقترحات تطوير البرنامج

-Program structure (courses / hours):	more practical hours
هيكل البرنامج (المقررات / الساعات)	including more subspecialities

-New courses:		
مقررات جديدة		
-Training and skills:	More training on minimally invasive	
التدريب والمهارات	surgical procedures and Simulation-based	
	training for complex procedures	
- Health sector/stockholders' suggestions	Thesis that help in solving community	
for program development:	health problem	
مقترحات قطاع الأعمال والجهات المعنية لتطوير		
البرنامج		
-Person in charge:	All staff members	
المسئول عن التنفيذ		
-Time of execution	Some suggestion related to faculty by laws	
توقيت التنفيذ	need time	
	Others by the end of 2023	

***** Action Plan:

Actions	Completion Date	Responsible
Required		Person
According to	According to committees' schedule	All staff
instructions of		members of
postgraduate		Histology
office		biology
		department
Setting up	By 2024	
collaborations		
specialized		
institutes		
which		
accommodate		
facilities		
More	By 2024	
seminars and		
work shops		
1		

Program Coordinator:

- 1. Dr. Yasser Ali Kamal
- 2. Dr. Abdel-rahman Gamal Saleh
- 3. Dr. Mohamed Jamal El-sherif

Date of program specifications 1st approval by <u>department council</u>: / /

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

Head of Department: Professor Dr. Amr Hamdy

Amer Hamdy

Section V:

OTHER REQUIREMENTS