

**MD 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: MD degree (of General Surgery (GS200))

University: Minia

Faculty: Medicine

Department: General Surgery

Last date of approval: 5/3 /2023

A. Basic Information:

- 1. Programme title:** MD degree of General Surgery
- 2. Final award:** MD degree of General Surgery
- 3. Programme type:** single double multiple
- 4. Responsible department:** Department of General Surgery
- 5. Departments involved in the programme:** Department of General Surgery
- 6. Programme duration:** 3.5 years
- 7. Number of programme courses:** 5
- 8. Head of Department:** Prof. Dr. Amr Hamdy
- 9. Coordinator:** Dr. Yasser Ali Kamal
- 10. External evaluator:** Prof. Dr. Hesham Ali Ryad
- 11. Programme management team:** Dr. Abdel-rahman Gamal Saleh, Dr. Mohamed Jamal El-sherif

B. Professional information:

1. Programme aims:

Graduate of MD 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 consultant of General Surgery.

2. Intended Learning Outcomes (ILOs):

(a) Knowledge and understanding:

By the end of the study of **MD 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 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 Identify recent advances techniques and procedures in the practice of General Surgery

(b) Intellectual skills

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

- c.1 Provide 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 **MD 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 session 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 degree of General Surgery programme- faculty of medicine- Minia University	remarks
NAQAAE General Academic Reference Standards “GARS” for MD Programs		

المعرفة والفهم: 1.		
أ- النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	a.1, a.2, a.3.a.8	100%
ب- أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	a.6	
ج- المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	a.4	
د- مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	a.5	
هـ- المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	a.7	
: 2. المهارات الذهنية		
أ. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها	b.1, b.2, b.4	100%
ب. حل المشاكل المتخصصة استنادا على المعطيات المتاحة	b.2, b.4, b.7, b.8	
ج. إجراء دراسات بحثية تضيف إلى المعارف	b.3	
د. صياغة أوراق علمية	b.3	
ز. تقييم المخاطر في الممارسات المهنية	b.5	
س. التخطيط لتطوير الأداء في مجال التخصص	b.6	
و. اتخاذ القرارات المهنية في سياقات مهنية مختلفة	b.2, b.4	
ي. الابتكار/ الإبداع / الحوار والنقاش المبني على البراهين والأدلة	b.7	
مهارات المهنية: 3.		
إتقان المهارات المهنية الأساسية والحديثة في مجال أ- التخصص	c.1, c.3	100%
ب.- كتابة وتقييم التقارير المهنية	c.6, c.7	
ج.- تقييم وتطوير الطرق والأدوات القائمة في مجال	c.4	

التخصص		
د. استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية	c.2	
ه. التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين	c.5	
4. المهارات العامة والمنتقلة:		
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 والمعارف	d.1, d.9	100%
و. العمل في فريق وقيادة فرق العمل	d.5, d.10	
ز. إدارة اللقاءات العلمية والقدرة على إدارة الوقت.	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).

Subject	Hour/week		
	Lectures	Practical	Clinical
First part			
Surgical Anatomy	3	4	
Surgical Pathology	2	2	
Second part			
General surgery	96	30	

5. Programme courses

Course Title	Total No. of hours	No. of hours /week			Program ILOs Covered
		Lect.	Practical	Tutorial	
FIRST PART (Level of course):					
Surgical Anatomy	65	48	17		a.1, a.2, a.3, b.1, b.2, c.1, c.2
Surgical Pathology:	68	46	22		a.1, a.2, a.3, b.1, b.2, c.1, c.2
Training programs and workshops, field visits, seminars & other scientific	continuous				a.1, a.2, a.3, b.1, b.2, c.1, c.2
SECOND PART (Level of course):					
General & GIT Surgery	600	96	30		a.2, a.3, a.4, a.5, a.6, 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
Training programs and workshops, field visits, seminars & other scientific activities	continuous				a.2, a.3, a.4, a.5, a.6, 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

6. Programme admission requirements:

I- General requirements:

A-Candidates should have either:

1. MBBCh Degree from any Egyptian Faculties of Medicine or
2. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.

B- Master Degree in general surgery

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

II. Specific Requirements:

A- Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final year examination.

B- Master Degree in general surgery with at least “Good Rank”.

C- Candidate should know how to speak & write English well.

D- Candidate should know have computer skills.

7- Regulations for progression and programme completion

Duration of program is 7 semesters (3.5 years), from registration till the end of the second part; divided to:

First Part: (≥6 months=1 semester):

- a. Program-related essential basic courses including: Use of computer in medicine; Medical Statistics and Research methods; Surgical anatomy; and Surgical Pathology
- b. At least six months after registration should pass before the student can ask for examination in the 1st part.
- c. Two sets of exams: 1st in April — 2nd in October.
- d. For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.
- e. Those who fail in one course need to re-exam it only.

Second Part: (≥24 months=4 semesters):

- a. Program related specialized science of general surgery courses and ILOs. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- b. The candidate should pass the written exam (at least 60% score) to be admitted to the oral and practical exams.
- c. Four times of oral and practical exams are allowed before the student has to reattend the written exam.

Third Part: (24-48 months=4-8 semesters):

- a. MD thesis subject should be officially registered maximally one and half years from applying to the MD degree.

b. Discussion and acceptance of the thesis should not be set before 24 months from registering the MD subject and maximally after 4 years.

c. Thesis and at two published research papers from the thesis (one in National journal and another one in international journal) are required before discussion.

8. Evaluation of programme intended learning outcomes:

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	
6. Exams results	Results analysis Report	All the students

9 -Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	<ul style="list-style-type: none"> a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills

<p>2. Written Exams:</p> <ul style="list-style-type: none"> • Short essay • MCQs • Problem solving 	<ul style="list-style-type: none"> a. Knowledge & understanding b. Intellectual skills
<p>3. Practical/Clinical Exams:</p> <ul style="list-style-type: none"> • Case sheet • Case discussion • OSCE • Imaging slides 	<ul style="list-style-type: none"> a. Knowledge & understanding b. Intellectual skills c. Professional & practical skills
<p>4. Seminars, presentations, assignments</p>	<ul style="list-style-type: none"> a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills
<p>5. Oral Exams</p>	<ul style="list-style-type: none"> a. knowledge & understanding b. Intellectual skills c. General & transferable skills

Last update and approval: 5/3/2023

Head of the General Surgery department:

Prof. Dr. Amr Hamdy



Section II:

PROGRAMME CORRELATIONS

Program Correlations

مصفوفة توافق المعايير القومية القياسية العامة لبرامج الدكتوراه مع المعايير الأكاديمية المعتمدة من كلية الطب – جامعة المنيا لدرجة الدكتوراه 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 برامج الدكتوراه	Faculty MD Program
2. المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for	2. Faculty Academic Reference Standards (ARS) for Master Program

Master Programs	
2.1. المعرفة والفهم: بانتهاج دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي بكل من: الفهم والدراية	2.1. Knowledge & Understanding: Upon completion of the MD Program in....., the graduate should have sufficient knowledge and understanding of:
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences
2.1.2. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.
2.1.3. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization
2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors
2.1.5. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.
2.2. المهارات الذهنية: بانتهاج دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي:	2.2. Intellectual Skills: Upon completion of the MD program of....., the graduate should be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems
2.2.3. الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.

2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة	2.2.7. Take professional situational decisions and logically support them.
3.2. المهارات المهنية: بانتهاؤ دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على	3.2. Professional Skills: Upon completion of the MD program of....., the graduate must be able to:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.
3.2.2 كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
2.3.3 تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research
4.2. المهارات العامة والمنتقلة: بانتهاؤ دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على	4.2. General and transferable skills Upon completion of the MD program of....., the graduate should be able to:
4.2.1. التواصل الفعال بأنواعه المختلفة	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.
4.2.2 استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.
4.2.3 . لتقييم الذاتي وتحديد احتياجاته التعليمية الشخصية	4.2.3. Assess himself and identify personal learning needs
4.2.4 . استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).

4.3.5 . وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5. Setting indicators for evaluating the performance of others
4.2.6 . العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system
4.2.7 . إدارة الوقت بكفاءة	4.2.7. Manage time efficiently
4.2.8. التعلم الذاتي والمستمر	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.

Annex (2): Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS), Faculty Academic Reference Standards (ARS) and Program of Master degree (MSc) in General Surgery

NAQAAE برامج الدكتوراه	Faculty MD Program	ILOs of Program of MD degree in General Surgery
2.المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for Master Programs	2. Faculty Academic Reference Standards (ARS) for Master Program	
2.1. المعرفة والفهم: بانتهاج دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا بكل من: علي الفهم والدراسة	2.1. Knowledge & Understanding: Upon completion of the MD Program in....., the graduate should have sufficient knowledge and understanding of:	
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and	a.1 Explain the essential facts and principles of relevant basic

	related medical sciences	<p>sciences including Pathology, Anatomy, Histology and Physiology, pharmacology biochemistry, and medical ethics related to General Surgery.</p> <p>a.2 Recognize essential facts of clinically supportive sciences including General Surgery.</p> <p>a.3 Identify etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to General Surgery.</p>
2.1.2. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.	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.
2.1.3. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization	a.8 Identify recent advances in the field of General Surgery
2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors	a.4 Identify the basic ethical and medicolegal principles that should be applied in practice and are relevant to the General Surgery
2.1.5. مبادئ وأساسيات الجودة	2.1.5. Quality principles in	a.5 Identify the basics and

في الممارسة المهنية في مجال التخصص	the scholarly field	standards of quality assurance to ensure good clinical care practice in the field of General Surgery.
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.	a.6 Identify the ethical and scientific principles of medical research in General Surgery.
المهارات الذهنية: 2.2. بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	2.2. Intellectual Skills: Upon completion of the MD program of....., the graduate should be able to:	
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving	b.2 Solve problems of common clinical situations related to General Surgery using an investigatory and analytic thinking approach.
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery
2.2.3. الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.	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. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis	b.3 Design a research study or review on common clinical problems relevant to the field of General Surgery
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	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. التخطيط لتطوير الأداء في مجال التخصص	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. اتخاذ القرارات المهنية في سياقات مهنية متنوعة	2.2.7. Take professional situational decisions and logically support them.	b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery b.8 Assess common ethical dilemma and its proper solution
3.2. المهارات المهنية: بانتهاج دراسة برنامج الدكتوراه: يجب أن يكون الخريج قادرا على	3.2. Professional Skills: Upon completion of the MD program of....., the graduate must be able to:	
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.	c.1 Carry out patient management plans (clinical diagnosis, investigations, and modality of treatment) for common conditions related to General Surgery. c.3 Perform competently

		<p>non invasive and invasive procedures considered essential for the General Surgery.</p> <p>c.4 Provide health care services aimed at preventing health problems related to General Surgery.</p> <p>c.5 Provide patient-focused care in common conditions related to General Surgery, while working with health care professionals, including those from other disciplines.</p>
3.2.2 كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports	<p>c.6 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets</p> <p>c.7 Organize a proper medical report</p>
2.3.3 تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research	c.2 Use information technology to support patient care decisions and patient education in common clinical situations related to General Surgery.
4.2. المهارات العامة والمنتقلة: بانتهاج دراسة برنامج الدكتوراه: يجب أن يكون الخريج قادرا على	<p>4.2. General and transferable skills</p> <p>Upon completion of the MD program of....., the graduate should be able</p>	

	to:	
4.2.1. التواصل الفعال بأنواعه المختلفة	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 patients d.5 Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.
4.2.2. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.	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. لتقييم الذاتي وتحديد احتياجاته التعليمية الشخصية	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. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	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.

<p>4.3.5 . وضع قواعد ومؤشرات تقييم أداء الآخرين</p>	<p>4.2.5. Setting indicators for evaluating the performance of others</p>	<p>d.10 Dealing effectively with unethical behavior of other members of healthcare team.</p>
<p>4.2.6 . العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة</p>	<p>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</p>	<p>d.4 Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.</p> <p>d.7 Assist patients in dealing with system complexities.</p>
<p>4.2.7 . إدارة الوقت بكفاءة</p>	<p>4.2.7. Manage time efficiently</p>	<p>d.6 Practice cost-effective health care and resource allocation that does not compromise quality of care.</p>
<p>4.2.8.التعلم الذاتي والمستمر</p>	<p>4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.</p>	<p>d.8 Be aware of the importance of life-long self-learning and show a strong commitment to it.</p>

University: MINIA

Faculty(s): MEDICINE

Department: General Surgery

Program: MD degree in General Surgery (GS200)

Matrix of Coverage of Course ILOs By Contents

Courses: (List of courses in first and second parts)	Program Intended Learning Outcomes (ILOs)																																
	A. Knowledge & Understanding							B. Intellectual Skills								C. Professional & Practical skills							D. General & Transferable Skills										
	a1	a2	a3	a4	a5	a6	a7	b1	b2	b3	b4	b5	b6	b7	b8	c1	c2	c3	c4	c5	c6	c7	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10	
Surgical Anatomy	x	x	x					x	x							x	x																
Surgical Pathology	x	x	x					x	x						x	x																	
General &	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

GIT Surgery																																			
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Section III:

Specification of Courses

Course (1)
Course specification of :
“Use of Computer in Medicine”
in MD degree

University: Minia

Faculty: Medicine

Department offering the course: Public health and preventive medicine department

Department offering the programme: Department of Surgery

Programme(s) on which the course is given: First part MD for General Surgery

Academic year/ Level: First part of MD

1. Course Information

Academic Year/level: First part MD	Course Title: Use of Computer in Medicine	Code: GS100
<ul style="list-style-type: none"> • Number of teaching hours: <ul style="list-style-type: none"> - Lectures: 20 hours - Practical/clinical: 10 hours - Total: 30 hours 		
2. Overall Aims of the course	<p><i>By the end of the course the student must be able to:</i></p> <ol style="list-style-type: none"> 1. Recognize knowledge about the software and their applications in Medicine 2. Gain skills necessary for using and managing health care information systems 	
<p>3. Intended learning outcomes of course (ILOs):</p> <p><i>Upon completion of the course, the student should be able to:</i></p>		
A. Knowledge and understanding	<p>A.1. Define each part of computer hardware and its function</p> <p>A.2. Have a basic understanding of various computer applications in medicine - for instruction, information managing, and computer based medical record, etc.</p> <p>A.3. Define telemedicine and its importance</p> <p>A.4. Recognize importance of health information technology in improvement of healthcare</p> <p>A.5. Describe electronic medical records and obstacles facing it</p> <p>A.6. Identify the concept of big data analysis</p>	
B. Intellectual Skills	<p>B.1. Criticize adoption of telemedicine</p> <p>B.2. Discover factors constraining adoption of telemedicine</p>	
C. Professional and Practical Skills	<p>C.1. Design framework for understanding of health information system performance</p>	

D. General and transferable Skills	<p>D.1. Utilize computers in conducting research</p> <p>D.2. Appraise adoption of telemedicine</p> <p>D.3. Discover skills to carry out the process of improving health information system performance</p>		
4. Course Contents			
Topic	No. of hours	Lecture	Tutorial/ Practical
Use of Computer in Medicine			
General concepts Introduction to Microsoft PowerPoint	6	4	2
Health Information Systems (HIS)	6	4	2
Telemedicine	6	4	2
Software Used in the Health Care	6	4	2
Big Data Analysis in Health	6	4	2
Total	30	20	10
5. Teaching and Learning Methods	<p>Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online</p> <p>Online learning materials are available at Minia University site</p> <ul style="list-style-type: none"> ▪ Lectures: Face to face lectures, Pre-recorded video lectures ▪ Practical lessons ▪ Assignment ▪ Online quizzes 		
6. Teaching and Learning Methods for	<ul style="list-style-type: none"> • Outstanding student rewarded certificate of appreciation due to high level of 		

students with limited Capacity	achievement • Limited students divided into small group to make learning more effective
7. Student Assessment	
A. Student Assessment Methods	<p>7.1- Research assignment: to assess general transferable skills, intellectual skills.</p> <p>7.2- Written exams:</p> <ul style="list-style-type: none"> • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. <p>7.3- Practical Exams: to assess practical skills, intellectual skills.</p> <p>7.4- Oral Exams: Oral exams to assess knowledge and understanding, attitude, communication</p> <p>7.5- Structured oral exams: to assess knowledge.</p>
B. Assessment Schedule (Timing of Each Method of Assessment)	<p>Assessment 1: Final written exam week: 24-28</p> <p>Assessment 2: Oral exam week: 24-28</p> <p>Assessment 3: Practical exam week: 24-28</p>
C. Weighting of Each Method of Assessment	<p>Final Written Examination 100%</p> <p>Oral Examination 100%</p> <p>Practical Examination 100%</p> <p>Total 100%</p>
8. List of References	
A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition

C. Recommended Textbooks	Data Management and Analytics for Medicine and Healthcare: Begoli, Edmon, Fusheng Wang, and Gang Luo. Springer, 2017.
D. Periodicals, websites	<ul style="list-style-type: none"> - National Institutes of Health: http://www.nih.gov - American Medical Informatics Association: http://www.amia.org/

○ **Course Coordinators:**

➤ **Coordinators:**

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

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

○ **Head of Department:**

Professor Dr. Nashwa Nabil Kamal

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

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



نموذج رقم (11)

جامعة/ أكاديمية :المنيا

كلية / معهد: الطب

قسم: الصحة العامة والطب الوقائي

MD degree of General Surgery	مسمى المقرر
GS 100	كود المقرر

A.Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professiona l & Practical skills	D. General & Transferable Skills
		A	B	C	D
Use of Computer in Medicine					
General concepts Introduction to Microsoft PowerPoint		A.1, A.2,			D.1
Health Information Systems (HIS)		A.4, A.5		C1	D.3
Telemedicine		A.3	B.1, .2		D.2
Software Used in the Health Care		A.5, A.6			D.1
Big Data Analysis in Health		A.6			

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

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

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

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

○ Course Coordinators:

➤ Coordinators:

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

2)Assistant coordinator: Assistant lecture Shaza Fadel

○ Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

A handwritten signature in blue ink, reading "Nashwa N. Kamal", is written over a faint, light blue rectangular stamp. The signature is cursive and includes a long horizontal flourish at the end.

Test blueprint for Uses of computer in Medicine course

for 1st part MD General Surgery- Code: G S100

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

Course (2)

Course specification of:

“Medical Statistics and Research Methodology”

In MD degree

University: Minia

Faculty: Medicine

Department offering the course: Public health and preventive medicine department

Department offering the programme: Department of Surgery **Programme(s) on which the course is given:** First part MD for Cardiothoracic Surgery

Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level: First part MD	Course Title: Medical Statistics and Research Methodology	Code: GS100
Number of teaching hours: <ul style="list-style-type: none">- Lectures: 30 hours- Practical/clinical: 15 hours- Total: 45 hours		
2. Overall Aims of the course	<i>By the end of the course the student must be able to:</i> <ol style="list-style-type: none">1. Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision making skills.2. Apply ethical principles of scientific research with good awareness about patient’s rights.3. Use precisely the research methodology in	

	<p>researches</p> <ol style="list-style-type: none"> 4. Influence the students to adopt an analytical thinking for evidence-based medicine 5. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data 6. To use precisely computer programs SPSS, Epi Info and Excel in data analysis
<p>3. Intended learning outcomes of course (ILOs):</p> <p><i>Upon completion of the course, the student should be able to:</i></p>	
<p>A. Knowledge and understanding</p>	<ol style="list-style-type: none"> A.1. Define terms of research methodology . A.2. Describe the spectrum of research methodology . A.3. Explain the strategies and design of research . A.4. Describe the study design, uses, and limitations . A.5. Explain evidence-based Medicine A.6. Define causation and association . A.7. Tell the principles and fundamentals of ethics. A.8. Describe the different sampling strategies A.9. Summarize the advantages and disadvantages of different sampling strategies A.10. Summarize different methods of sample size calculation A.11. Recognize the sources and the recent methods in data collection and analysis. A.12. Identify the types of variables A.13. Identify types of tabular and graphic presentation of data A.14. Describe the normal curves and its uses

	<p>A.15. Identify the characters of normal distribution curve</p> <p>A.16. Identify measures of central tendency and measures of dispersion</p> <p>A.17. Explain regression analysis, its use and differentiate its types</p> <p>A.18. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests</p> <p>A.19. Explain the usefulness of screening tests</p>
<p>B. Intellectual Skills</p>	<p>B.1. Apply research methods to different community health problems.</p> <p>B.2. Apply appropriate research strategies for use .</p> <p>B.3. Select appropriate research methods .</p> <p>B.4. Teach and advocate appropriately in the research design.</p> <p>B.5. Describe the normal curves</p> <p>B.6. Describe and summarize data</p> <p>B.7. Select the proper test of significance for a specific data.</p> <p>B.8. Interpret selected tests of significance and the inferences obtained from such tests</p>
<p>C. Professional and Practical Skills</p>	<p>C.1. Plan a research proposal for community diagnosis.</p> <p>C.2. Design questionnaires.</p> <p>C.3. Conduct research.</p> <p>C.4. Judge association and causation.</p> <p>C.5. Criticize for bias and confounding factors</p> <p>C.6. Design data entry file</p> <p>C.7. Validate data entry</p> <p>C.8. Manage data files</p> <p>C.9. Construct tables and graphs</p>

	C.10. Calculate different samples sizes		
	C.11. Calculate measures of central tendency and measures of dispersion		
	C.12. Calculate sensitivity, specificity, and predictive values		
D. General and transferable Skills	D.1. Lead a research team to conduct a specific study .		
	D.2. Take part and work coherently with his associates to in research.		
	D.3. Write scientific papers.		
	D.4. Appraise scientific evidence		
	D.5. Analyze and interpret data		
	D.6. Use standard computer programs for statistical analysis effectively		
4. Course Contents			
Topic	No. of hours	Lecture	Tutorial/ Practical
<i>Research methods</i>			
<u>Introduction :</u> - Introduction to research. - Terminology and Rationale - Originality		3	
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		4	
- Sources of Errors in Medical Research		3	

- Bias and confounding and its Control.			
- Validity and reliability		2	
- The questionnaire design		2	
- Writing the Research Paper or Manuscript - Protocol Writing		2	2
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
Statistics			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		30	15
5. Teaching and Learning Methods	Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction		

	<p>activities with the online learning. 60% of study method is offline and 40% of study is online</p> <p>Online learning materials are available at Minia University site</p> <ul style="list-style-type: none"> ▪ Lectures: Face to face lectures, Pre-recorded video lectures ▪ Practical lessons ▪ Assignment ▪ Online quizzes
<p>6. Teaching and Learning Methods for students with limited Capacity</p>	<ul style="list-style-type: none"> • Outstanding student rewarded certificate of appreciation due to high level of achievement • Limited students divided into small group to make learning more effective
<p>7. Student Assessment</p>	
<p>D. Student Assessment Methods</p>	<p>7.1- Research assignment: to assess general transferable skills, intellectual skills.</p> <p>7.2- Written exams:</p> <ul style="list-style-type: none"> • Short essay: to assess knowledge. • Commentary: to assess intellectual skills. <p>7.3- Practical Exams: to assess practical skills, intellectual skills.</p> <p>7.4- Oral Exams: Oral exams to assess knowledge and understanding, attitude, communication</p> <p>7.5- Structured oral exams: to assess knowledge.</p>

E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
F. Weighting of Each Method of Assessment	<ul style="list-style-type: none"> - Final Written Examination 100% - Oral Examination 100% - Practical Examination 100% - Total 100%
8- List of References	
A. Course Notes/handouts	<ul style="list-style-type: none"> - Department notes, lectures and handouts
B. Essential Books	<ul style="list-style-type: none"> - The Lancet Handbook of Essential Concepts in Clinical Research
C. Recommended Textbooks	<p><u>Research methods:</u></p> <ul style="list-style-type: none"> - Introducing Research Methodology; A Beginner's Guide to Doing a Research Project - Understanding Clinical Research, Renato Lopes and Robert Harrington; ISBN-10: 0071746781 ISBN-13: 978-0071746786 - Users' guides to the medical literature: a manual for evidence-based clinical practice: Guyatt, G., D. Rennie, M. Meade and D. Cook (2002), AMA press Chicago. - Research Methods in Community Medicine: Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition

	<p>Joseph Abramson, Z. H. Abramson</p> <p><u>Computer:</u></p> <ul style="list-style-type: none"> - Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage. - Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd Edition Everitt, Brian S. - Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021. - Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley & Sons, 2019. - Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd , ed., Philadelphia
<p>D. Periodicals, websites</p>	<ul style="list-style-type: none"> - https://phrp.nihtraining.com/users/login.php - http://www.jhsph.edu/ - Journal of Biomedical Education - https://lagunita.stanford.edu/courses/Medicine/MedStats-SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEqgUjLjk8TCR7lzPdnpgqwin06L-GiFq32a62w3i6R5s9c

○ **Course Coordinators:**

➤ **Coordinators:**

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

Assistant Coordinator: Assis .lecturer Shaza Fadel

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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



نموذج رقم (11)

MD of Geeral Surgery	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب
GS 100	كود المقرر	قسم: الصحة العامة والطب الوقائي

A.Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
<p>Introduction :</p> <ul style="list-style-type: none"> - Introduction to research. - Terminology and Rationale - Originality 		A.1, A.2,			
<p>- Study design :</p> <ul style="list-style-type: none"> -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk 		A.3, A.4,	B.1, B.2, B.3, B.4,	C.1,	

-Case-control study, Odd's ratio sampling					
-Experimental study and clinical trials					
- Sources of Errors in Medical Research			B.3,	C.5	
- Bias and confounding and its Control.					
- Validity and reliability					
- The questionnaire design				C.2,	
- Writing the Research Paper or Manuscript			B.3,	C.3,	D.1, D.2, D.3
- Protocol Writing					
- Critic technique for the literature review					
- Association and causation		A.6,		C.4,	
- Evidence -based approach in medical practice		A.5,			
- Ethics of medical research		A.7			
<u>Statistics</u>					
Sampling		A.8, A.9, A.11			D.4

Introduction to Sample Size Calculation		A.10		C.10	D.4
Data presentation		A.13, A.14	B.6	C.9	D.4
Tests of significance		A.15, A.16	B.5	C.11	D.4
Introduction to SPSS		A.12	B.6	C.6, C7, C8	D.5, D.6
Proportion test		A.11	B.7, B8		D.5, D.6
Chi-square test		A.11	B.7, B8		D.5, D.6
Student T test, Paired T test		A.11	B.7, B8		D.5, D.6
ANOVA test		A.11	B.7, B8		D.5, D.6
Correlation (simple and multiple)		A.11	B.7, B8		D.5, D.6
Regression		A.17	B.7, B8		D.5, D.6
Screening		A.18, A.19	B.7, B8	C.12	D.4

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A.1, A.2, A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.10, A.11, A.12, A.13, A.14, A.15, A.16, A.17, A.18	B.1, B.2, B.3, B.4, B.5, B.6, B.7, B.8		
Practical			C1, C.3, C4, C.5, C.6, C.7, C.8. C.9, C.10, C11, C.12	
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8, C.9, C.10, C.12	D.1, D.2., D.4, D.5, D.6

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

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

○ Course Coordinators:

➤ Coordinators: Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

Assistant Coordinator: Assis .lecturer Shaza Fadel

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

**Test blueprint for Research methodology course
for 1st part MD General Surgery- Code:CS100**

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks	Modified marks
				Knowledge	Intellectual		
Research							
<u>Introduction:</u> - Introduction to research. - Terminology and Rationale - Originality	3	10%	5	4	1	7	5
- Study design	4	13.3%	8	3	5	17	17
- Sources of Errors in Medical Research - Bias and confounding and its Control.	3	10%	4	2	2	13	10
- Validity and reliability	2	6.67%	3	2	1	7	5
- The questionnaire design	2	6.67%	3	1	2	5	5
- Writing the Research	2	6.67%	4	1	3	13	10

Paper or Manuscript - Protocol Writing							
- Critic technique for the literature review	2	6.67%	2	1	1	7	5
- Association and causation	1	3.33%	3	2	1	7	8
- Evidence - based approach in medical practice	2	6.67%	1	1		3	5
- Ethics of medical research	2	6.67%	2	2		3	6
Statistics							
Sampling	1	3.33%	2	1	1	4	4
Introduction to Sample Size Calculation	1	3.33%	1	1		2	2
Data presentation	1	3.33%	3	2	1	5	4
Tests of significance	2	6.67%	2	1	1	8	8
Introduction to SPSS	1	3.33%	1	1		3	3

Screening	1	3.33%	2	1	1	3	3
Total	30	100%					100

Course (3) Surgical Anatomy

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

University: Minia

Faculty: Medicine

Department: General surgery departement

1. Course Information

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

2. Overall Aims of the course

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

to have the have the professional knowledge anatomy and embryology of internal body systems.

3. Intended learning outcomes of course (ILOs):

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

A- Knowledge and Understanding

A1. Mention the normal structure and function of the body systems on the macro levels.

A2. Understand early embryo development & normal growth and development of the different body systems.

A3. List the recent advances in the abnormal structure, function, growth and development of, GIT, cardiovascular,

<p>B- Intellectual Skills</p>	<p>respiratory and urinary system.</p> <p>A4. Demonstrate the anatomical basis of surface anatomy and radiologic anatomy</p> <p>B1. Link between knowledge for Professional problems solving.</p> <p>B2. Conduct research study and / or write a scientific study on a research problem.</p> <p>B3. Diagnosis of diseases based on anatomical disruptions.</p> <p>B4. Establish goals to improve performance in the field of surgery</p>
<p>C- Professional and Practical Skills</p> <p>D- General and transferable Skills</p>	<p>C1. Master the basic and modern medical skills in the area of internal medicine.</p> <p>C2. Description of diseases and anomalies based on anatomical data.</p> <p>d1. Communicate effectively by all types of effective communication.</p> <p>d2. Use information technology to serve the development of professional practice.</p> <p>d3. Assess the candidate himself and identify personal learning needs.</p> <p>d4. Use different sources to obtain information and knowledge</p> <p>d5. Assess the performance of others</p>

4. Course Contents

Topic	Lecture hours/week	Practical/Clini cal hours/week	Total No. of hours 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 ischiorectal fossa.	2	-	2
Revision	2	2	4
Total	24	9	33

5. Teaching and Learning Methods

- 1 - Lectures.
- 2 - Practical lessons.
- 3- Assignments for the students to empower and assess the general and

transferable skills

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

7. Student Assessment

**A. Student Assessment
Methods**

1- Assignments for the students to empower and assess the general and

transferable skills

2- Periodic written exam to assess Knowledge, understanding and

Intellectual skills.

3- Periodic practical+ written examination to assess practical skills as well

as Knowledge.

4- Final written exam to assess Knowledge, understanding and intellectual

skills.

5- Final oral exam to assess understanding and intellectual skills.

6- Final practical exam to assess practical skills.

**B. Assessment Schedule
(Timing of Each**

Assessment 1... Periodic 1... Week: 10-13

Assessment 2 ... Assignment.... Week: 15-16

Method of Assessment) Assessment 3....periodic. 2.... Week ...18-20
 Assessment 2 ...Final practical exam Week: 26-28
 Assessment 3.... Final written exam. Week ...26-28
 Assessment 4.....Final oral exam Week....26-28

C. Weighting of Each Method of Assessment Periodic Examinations 20 % including:
 Assignment: 5%
 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

Head of Department:

Prof. Dr. Amr hamdy helmy

Date of last update & approval by department Council: 2023

التشريح	مسمى المقرر
GS 200	كود المقرر

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الجراحة العامة

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
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 pelvic organs.	7	1,4	1,4	1,2	4,5
Anatomy of perineal pouches and ischioanal 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

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

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

Course (4) Surgical Pathology

Course Specifications of Pathology 1st Part of MD Program of General Surgery 2022-2023

University: Minia

Faculty: Medicine

Department responsible for offering the course: General surgery departement

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

9. Course Information		
<ul style="list-style-type: none"> • Academic Year/level: 1st part of MD in General surgery 	<ul style="list-style-type: none"> • Course Title: Pathology. 	<ul style="list-style-type: none"> • Code: GS 200
<ul style="list-style-type: none"> • Number of teaching hours: - Lectures: Total of 46 hours; 2 hour/week - Practical/clinical: Total of 22 hrs., 2 hour/week 		
10. Overall Aims of the course	<p><i>By the end of the course the student must be able to:</i></p> <ol style="list-style-type: none"> 1. Explain theories, basics & recent advances in the field of surgical pathology. 2. Appraise & interpret relevant basic information and correlate them with essential clinical data to reach a final diagnosis 3. Demonstrate competency on dealing with various biopsies and interpreting pathological reports and 	

	<p>correlate such information with the relevant provided clinical data.</p> <ol style="list-style-type: none"> 4. 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.
<p align="center">11.Intended learning outcomes of course (ILOs):</p> <p><i>Upon completion of the course, the student should be able to:</i></p>	
<p align="center">E- Knowledge and understanding</p>	<p>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</p> <p>A2. Outline the basics of genetics, immunopathology, environmental & nutritional issues in different common & important diseases.</p> <p>A3. Identify the mutual effects of the environment & the professional practice and the impact of such practice on the welfare of the society</p> <p>A4. Identify the basic medico-legal principles that should be applied in the practice of autopsy</p> <p>A5. Outline the standards of quality assurance to ensure good</p>

	practice as a profession.		
F- Intellectual Skills	<p>B1. Correlate & evaluate the gross and microscopic features of surgical specimens with available clinical data to provide a list of differential diagnosis for further advanced investigations to reach the correct diagnosis.</p> <p>B2. Evaluate and control efficiently potential risks that may arise during the professional practice in various clinical situations like handling and processing of specimens</p>		
G- Professional and Practical Skills	<p>C1. Demonstrate competency on dealing with and reporting gross features of different biopsies & surgical specimens and supplying all essential clinical data</p> <p>C2. Ensure proper preservation of surgical specimens and biopsies and select the suitable preservatives with stickiness to quality & safety procedures.</p> <p>C3. Apply relevant issues related to safety and ensure keeping available resources while dealing with biopsies and surgical specimens and all essential materials and equipment.</p>		
H- General and transferable Skills	<p>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</p> <p>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.</p> <p>D.3. Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education</p> <p>D.4. Demonstrate the skills of effective time management.</p>		
12.Course Contents			
Topic	Lecture 2hours/week	Practical/Clinical	Total No. of hours

	k	2hours/week	hours/week
GENERAL & Systemic 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	
9. Teaching and Learning Methods	5.1. Lectures: Both face to face & on-line ones. 5.2. Practical lessons: Gross pathology and interpretation of pathology reports 5.3. Self-directed learning (SDL) 5.4. Journal club, Case presentation, Seminars.		

10. Teaching and Learning Methods for students with limited Capacity	Not applicable													
11. Student Assessment														
D. Student Assessment Methods	<p>1. Written exam to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills.</p> <p>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.</p>													
E. Assessment Schedule (Timing of Each Method of Assessment)	<ul style="list-style-type: none"> • Assessment 1: written exam by the end of course. • Assessment 2: Oral exam, after the written exam. 													
F. Weighting of Each Method of Assessment	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type of Assessment</th> <th style="text-align: right;">Marks</th> <th style="text-align: right;">%</th> </tr> </thead> <tbody> <tr> <td>• Written examination</td> <td style="text-align: right;">15</td> <td style="text-align: right;">(40 %)</td> </tr> <tr> <td>• Oral examination.</td> <td style="text-align: right;">22.5</td> <td style="text-align: right;">(60 %)</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">37.5</td> <td style="text-align: right;">(100%)</td> </tr> </tbody> </table>		Type of Assessment	Marks	%	• Written examination	15	(40 %)	• Oral examination.	22.5	(60 %)	Total	37.5	(100%)
Type of Assessment	Marks	%												
• Written examination	15	(40 %)												
• Oral examination.	22.5	(60 %)												
Total	37.5	(100%)												
12. List of References														

E. Course Notes/handouts	<p>1- General pathology course notes prepared by the department staff and</p> <p>2- Lectures' Handouts & printed material of recorded ones.</p>
F. Essential Books	<p>1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017).</p> <p>2- Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).</p>
G. Recommended Text Books	<p>1- Liang Jing & David Bostwick. Essentials of anatomic pathology (2011).</p> <p>2- Diana W Molavi. The practice of surgical pathology; A beginners guide to the diagnostic process (2008).</p>
H. Periodicals, websites	<p>To be determined and updated during the course</p> <p>1-American Journal of pathology</p> <p>2-The Journal of pathology</p> <p>3-Diagnostic Histopathology</p> <p>4-Cancer</p> <p>5-www.pubmed.com</p> <p>6-www.pathmax.com</p>

Head of Department:

Prof. Dr. Amr hamdy helmy

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

نموذج رقم (11أ)

Pathology	مسمى المقرر
GS 200	كود البرنامج

جامعة/أكاديمية :جامعة المنيا.....

كلية / معهد:كلية الطب.....

برنامج: دكتوراه الجراحة العامة

قسم:الجراحة العامة.....

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

Contents	Intended Learning Outcomes (ILOs)													
	A. Knowledge & understanding					B. Intellectual Skills		C. Professional & 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 & SYSTEMIC PATHOLOGY TOPICS														
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. Immunopathology	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

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

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

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Written exam	x	x		
Oral Exam	x	x		x

Second Part

Course (5): General Surgery

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

University: Minia

Faculty: Medicine

Department: General Surgery

Last date of approval: 3 /2023

13.Course Information		
<ul style="list-style-type: none">Academic Year/level: Second Part of Master Degree	<ul style="list-style-type: none">Course Title: Second Part of MD Degree in General Surgery	<ul style="list-style-type: none">Code: GS200
<ul style="list-style-type: none">Number of teaching hours: Lectures: 600 hours; 12 hours/week; 45 weeks (1.5 teaching years) Practical: 480 hours; 4 hours/week; 45 weeks (1.5 teaching years) Total: 1080 hours;16hours/week; 45 weeks (3 teaching years)		
14.Overall Aims of the course	<i>By the end of the course the student must be able to:</i> 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.	

15. Intended learning outcomes of course (ILOs):	
<i>Upon completion of the course, the student should be able to:</i>	
I- Knowledge and Understanding	<p><i>The student finishes the course; he will be able to:</i></p> <p>a.1 Define the principles of basics of General Surgery, acid base balance and management of multiple injured patients</p> <p>b.2 Identify the facts and principles of the relevant basic and clinically supportive sciences related to General Surgery</p> <p>b.3 Describe the basic ethical and medicolegal principles relevant to the General Surgery</p> <p>b.4 Identify the basics of quality assurance to ensure good clinical care in General Surgery</p> <p>b.5 Recognize the ethical and scientific principles of medical research</p> <p>b.6 State the impact of common health problems in the field of General Surgery on the society</p>
J- Intellectual Skills	<p><i>The student finishes the course; he will be able to:</i></p> <p>b.1 Correlate the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to General Surgery</p> <p>b.2 Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to General Surgery</p> <p>b.3 Design and present cases, seminars in common problem</p> <p>b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery</p>
K- Professional and Practical Skills	<p><i>After completing the course, the student should be able to:</i></p> <p>c.1 Obtain proper history and examine patients in caring and respectful behaviors</p> <p>c.2 Order non invasive/invasive diagnostic procedures: Basal laboratory investigation and X- ray skull-neck-</p>

	<p>abdomen- chest- upper & lower limbs</p> <p>c.3 Interpret non invasive/invasive diagnostic procedures: Basal laboratory investigation and X- ray skull-neck- abdomen- chest- upper & lower limbs</p> <p>c.4 Perform non invasive/invasive therapeutic procedures including operation for multiple injured patients</p> <p>c.5 Prescribe non invasive and invasive therapeutic procedures including treatment of shock and surgical infection</p> <p>c.6 Carry out patient management plans for common conditions related to General Surgery including: Acid- base balance, shock, Hemorrhage, Surgical infection, and Multiple Injured patient</p> <p>c.7 Use information technology to support patient care decisions and patient education in common clinical situations related to Procedure presentation</p> <p>c.8 Provide health care services aimed at preventing health problems related to Procedure presentation like: Shock, Hemorrhage, and Surgical infection</p> <p>c.9 Provide patient-focused care in common conditions related to General Surgery, while working with health care professionals, including those from other disciplines</p>
<p>L- General and transferable Skills</p>	<p><i>After completing the course, the student should be able to:</i></p> <p>d.1 Perform practice-based improvement activities using a systematic methodology(audit, logbook)</p> <p>d.2 Appraises evidence from scientific studies(journal club)</p> <p>d.3 Conduct epidemiological Studies and surveys</p> <p>d.4 Perform data management including data entry and analysis</p> <p>d.5 Facilitate learning of junior students and other health care professionals</p>

4- Course Contents		
Topic	Lecture hours	Practical/Clinical hours
1. HEAD and neck and thyroid diseases	36	48
2. Breast & chest wall & axilla	36	48
3. Abdominal wall ,hernia & testis	31	48
4. Upper GIT	48	48
5. Lower GIT	48	48
6. Appendix and peritoneum	31	48
7. Anorectal diseases	31	48
8. Biliary and pancreas system	31	48
9. Liver & spleen	31	48
10. Abdominal masses& acute abdomen	31	48
11. Advanced trauma	31	--
12. Shock & blood transfusion	31	--
13. Care of surgical patients	31	--
14. Surgical nutrition	31	--
15. Electrolyte imbalance	31	--
16. Oncosurgery	31	--

17. Principles of vascular intervention	30	--
18. Principles of peadiatric surgery	30	---
5-Teaching and Learning Methods	<ol style="list-style-type: none"> 1. Lectures 2. Clinical/practical rounds: <ul style="list-style-type: none"> • Bedside tutorial • Case presentation • Group discussion • Problem solving • Operative room tutorial 3. Seminars 4. Training courses 5. workshops 6. Conference attendance 7. 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.	

	<p>The exam involves:</p> <ul style="list-style-type: none"> • Short essay • MCQs • Problem solving <p>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:</p> <ul style="list-style-type: none"> • Case sheet • Case discussion • OSCE • Imaging slides
<p>B-Assessment Schedule (Timing of Each Method of Assessment)</p>	<p><i>Assessment 1: one written exam by the end of the course</i></p> <p><i>Assessment 2: Oral/Clinical exam, after the written exam</i></p> <p>Formative only assessment: log book.</p>
<p>C-Weighting of Each Method of Assessment</p>	<p>Written examination: 40%; 280 Mark</p> <p>Oral/Clinical examination: 60%; 420 Mark</p> <p>Total: 100 %; 700 Mark</p>

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	<p>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</p> <p>Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice, 21st Edition, 2021. Courtney Townsend.</p> <p>Current Diagnosis and Treatment Surgery, 15th Edition, 2020, Gerard Doherty (Author), McGraw Hill / Medical</p> <p>MATARY TEXTBOOK OF CLINICAL SURGERY, 12th Edition, 2018</p>
D-Periodicals, websites	<p>To be determined and updated during the course work.</p> <p>Websites:</p> <p>https://www.medicalpracticewebsite-design.com/general-surgery-website-portfolio.php</p> <p>Periodicals:</p> <p>1- International Journal of Surgey</p>

	2- British Journal of Surgery
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Course Coordinator/s:

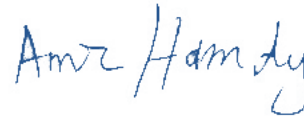
Dr. Yasser Ali Kamal,

Dr. Abdel-rahman Gamal Saleh,

Dr. Mohamed Jamal El-sherif

Head of Department:

Prof. Dr. Amr Hamdy



Date of last update & approval by department

Council:

5 / 3 / 2023

مسمى المقرر	جزء ثاني ماجستير الجراحة
كود المقرر	GS 200

جامعة/أكاديمية : ..المنيا.....

كلية / معهد..الطب.....

قسم : الجراحة العامة

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Thyroid , head & neck		+	+		
Breast disease , chest wall & axilla		+	+		
Abdominal wall , hernia & testis		+	+		
Upper GIT		+	+	+	+
LOWER GIT		+	+	+	+
Appendix		+	+	+	+

Anorectum		+	+	+	+
Biliary and pancreas		+	+	+	+
Liver & spleen		+	+	+	+
Abdominal masses		+	+	+	+
Advanced trauma		+	+	+	+
Shock and blood transfusion		+	+	+	+
Care of surgical patient		+	+	+	+
Surgical nutrition		+	+	+	+
Electrolyte imbalance		+	+	+	+
Oncosurgery		+	+	+	+
Principles of vascular intervention		+	+	+	+
Principles of pediatric surgery		+	+	+	+

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

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

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

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

**Blueprint of General Surgery course for MD 2nd part Examination
Paper (300 Marks)**

Topic	Hours	Knowledge%	Intellectual%	% of topic	Mark	Actual mark
Head & neck , thyroid diseases	36	80	20	6.00	18	20
Breast , chest wall & axilla	36	80	20	6.00	18	20
Abdominal wall, hesrnia & testis	31	80	20	5.17	15.5	15
Upper GIT	48	80	20	8.00	24	25
Lower GIT	48	70	30	8.00	24	25
Appendix & peritoneum	31	60	40	5.17	15.5	15
Anorectum	31	60	40	5.17	15.5	15
Biliary and pancreas	31	60	40	5.17	15.5	15
Liver and spleen	31	60	40	5.17	15.5	15
Abdominal masses and acute abdomen	31	60	40	5.17	15.5	15
Advanced trauma	31	60	40	5.17	15.5	15
Shock and blood transfusion	31	70	30	5.17	15.5	15
Care of surgical patient	31	70	30	5.17	15.5	15
Surgical nutrition	31	70	30	5.17	15.5	15
Electrolyte imbalance	31	70	30	5.17	15.5	15
Principles of oncosurgery	31	70	30	5.17	15.5	15
Principles of vascular intervention	30	70	30	5.00	15	15
Principles of pediatric surgery	30	70	30	5.00	15	15
Total	600			100%		300

Course Reports

تقرير مقرر دراسي

Course report of MD degree of General Surgery

“Medical Statistics and Research Methodology”

April 2022

University: Minia

Faculty: Medicine

Department: Public health and preventive medicine

A-Basic Information

1. Course Title and Code: Medical Statistics and Research Methodology, code

2. Specialty : MD degree of General Surgery

3. Level/year (1st or 2nd part): 1st part

4. Number of courses: 1 course

5. Adopted system for selection & formation of examiners' committee:

Available Not available

6. System of external evaluation of the exam:

Available Not available

7. Number & Names of teaching staff members:

- **Dr. Mahmoud EL Sherif**
- **Dr .Refaat Raaof**

- Dr .Eman Mohamed
- Dr. Nashwa Nabil
- Dr. Mona Abo zaid
- Dr. Amany Edward
- Dr.Emad Girgis
- Dr.khaled Eldosoki
- Dr.Tarek Abd Elrahman
- Dr. Omnia Kamal
- Dr. Ayman Soliman
- Dr. Marwa Gamal
- Dr.Shimaa Anwar
- DR .Ebtesam Ismael
- Dr. Eman Ramadan

B- Professional Information

1- Statistical Information:

- No. of students attended/joined the course	No.	5	%	100
- No. of students completed the course & attended the exam	No.	5	%	100

- Results:

Passed: No: % Failed: No: %

- Success percentages & distribution according to the grades of passed students:
- Success percentages : 100%
- Distribution :

Excellent	No:	<input type="text"/>	%	<input type="text"/>	Very good:	No:	<input type="text"/>	%	<input type="text"/>
Good	No:	<input type="text"/>	%	<input type="text"/>	Pass:	No:	<input checked="" type="checkbox"/>	%	100

2- Course Teaching:

- Course topics taught

Topic	No. of hours	Lecture	Tutorial/ Practical
<i>Research methods</i>			
<u>Introduction :</u> - Introduction to research. - Terminology and Rationale - Originality		3	
- Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		4	
- Sources of Errors in Medical Research - Bias and confounding and its Control.		3	

- Validity and reliability		2	
- The questionnaire design		2	
- Writing the Research Paper or Manuscript - Protocol Writing		2	2
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
<i>Statistics</i>			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		30	15

- Total percentage of the essential course topics that actually covered: **100 %**
70%

- **Obligation/commitment of the teaching staff to the specified course content:**

>85% 60-84 % <60%

- **The extent to which the exam covered the course topics:**

>85% 60-84 % <60%

- **Teaching and Learning Methods:**

Lectures	<input checked="" type="checkbox"/>
Practical/laboratory training	<input checked="" type="checkbox"/>
Assignment	<input checked="" type="checkbox"/>
Online quiz	<input checked="" type="checkbox"/>

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	100	100

Oral examination	100	100
Practical/ Laboratory examination	100	100
Total	100	100

4- Facilities available for Teaching:

- Scientific references:

Available Available to some extent Unavailable

- Assistant aids/tools:

Available Available to some extent Unavailable

- Other materials, supplies and requirements:

Available Available to some extent Unavailable

5- Administrative & regulatory Constraints:

No Yes

6 – Results of student feedback as a result of course evaluation:

المقرر له اهداف واضحة (100%)

المقرر يحفز علي التغيير(100%)

مفيد في التطبيق العملي(100%)

يوفي امثلة علمية(100%)

اكسبني مهارات تفيد في تكوين شخصيتي(100%)

7- External evaluator/s comments:

البرنامج مستوفي البيانات الأساسية ومطابق للمعايير الأكاديمية والقياسية ويحتوي علي أهداف واضحة والمخرجات توافق الأهداف للتعلم

8- Completed actions related to course development in the last year:

Improving the technical tools and adequate infrastructure

9- Non-completed actions related to course development in the last year:

10- Action plan for the next academic year:

- Fields/areas of course development

Actions Required	Completion Date	Responsible Person
More seminars , More workshops	2023	All staff members
Further practical assessment		All staff members
More developing for computer laboratory	2024	Head of department
Variations in exam tools	2023	All staff members
More videos , teaching tools	2023	All staff members

○ Course Coordinators:

➤ Coordinators:

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

➤ **Assistant coordinator: Dr Maggi Mofeed**

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

نموذج رقم (16)
تقرير مقرر دراسي

Course report of MD degree of General Surgery
“Medical Statistics and Research Methodology”

October 2022

University: Minia

Faculty: Medicine

Department: Public health and preventive medicine

A-Basic Information

1. Course Title and Code: Medical Statistics and Research Methodology, code

2. Specialty : MD degree of General Surgery

3. Level/year (1st or 2nd part): 1st part

4. Number of courses: 1 course

5. Adopted system for selection & formation of examiners' committee:

Available

Not available

6. System of external evaluation of the exam:

Available

Not available

7. Number & Names of teaching staff members:

- Dr. Mahmoud EL Sherif
- Dr .Refaat Raaof
- Dr .Eman Mohamed
- Dr. Nashwa Nabil

- Dr. Mona Abo zaid
- Dr. Amany Edward
- Dr.Emad Girgis
- Dr.khaled Eldosoki
- Dr.Tarek Abd Elrahman
- Dr. Omnia Kamal
- Dr. Marwa Gamal
- Dr.Shimaa Anwar
- DR .Ebtesam Ismael
- Dr. Eman Ramadan

B- Professional Information

2- Statistical Information:

- No. of students attended/joined the course	No.	4	%	100
- No. of students completed the course & attended the exam	No.	4	%	100

- Results:

Passed:	No:	1	%	100	Failed:	No:	0	%	0
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- Success percentages & distribution according to the grades of passed students:

- Success percentages : 100%

- Distribution :

Excellent	No:	<input type="text"/>	%	<input type="text"/>	Very good:	No:	<input type="text"/>	%	<input type="text"/>
Good	No:	<input type="text"/>	%	<input type="text"/>	Pass:	No:	√	%	100

2- Course Teaching:

- Course topics taught

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

- The questionnaire design		2	
- Writing the Research Paper or Manuscript		2	2
- Protocol Writing			
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
<i>Statistics</i>			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		30	15

- Total percentage of the essential course topics that actually covered: 100 %

70%

- Obligation/commitment of the teaching staff to the specified course content:

>85% 60-84 % <60%

- The extent to which the exam covered the course topics:

>85% 60-84 % <60%

- Teaching and Learning Methods:

Lectures	√
Practical/laboratory training	√
Assignment	√
Online quiz	√

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	100	100
Oral examination	100	100
Practical/ Laboratory examination	100	100
Total	100	100

4- Facilities available for Teaching:

- Scientific references:

Available Available to some extent Unavailable

- Assistant aids/tools:

Available Available to some extent Unavailable

- Other materials, supplies and requirements:

Available Available to some extent Unavailable

5- Administrative & regulatory Constraints:

No Yes

6 – Results of student feedback as a result of course evaluation:

المقرر له اهداف واضحة (100%)

المقرر يحفز علي التغيير (100%)

مفيد في التطبيق العملي (100%)

يوفي امثلة علمية (100%)

اكسبني مهارات تفيد في تكوين شخصيتي (100%)

7- External evaluator/s comments:

البرنامج مستوفي البيانات الأساسية ومطابق للمعايير الأكاديمية والقياسية ويحتوي علي أهداف واضحة والمخرجات توافق الأهداف للتعلم

8- Completed actions related to course development in the last year:

Improving the technical tools and adequate infrastructure

9- Non-completed actions related to course development in the last year:

10- Action plan for the next academic year:

- Fields/areas of course development

Actions Required	Completion Date	Responsible Person
More seminars , More workshops	2023	All staff members
Further practical assessment		All staff members
More developing for computer laboratory	2024	Head of department
Variations in exam tools	2023	All staff members
More videos , teaching tools	2023	All staff members

○ Course Coordinators:

➤ Coordinators:

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

➤ Assistant coordinator: Dr Maggi Mofeed

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

نموذج رقم (16)
تقرير مقرر دراسي

Course report of MD degree of General Surgery

“Use of Computer in Medicine”

April 2022

University: Minia

Faculty: Medicine

Department: Public health and preventive medicine

A-Basic Information

1. Course Title and Code: Medical Statistics and Research Methodology, code

2. Specialty : MD degree of General Surgery

3. Level/year (1st or 2nd part): 1st part

4. Number of courses: 1 course

5. Adopted system for selection & formation of examiners' committee:

Available Not available

6. System of external evaluation of the exam:

Available Not available

7. Number & Names of teaching staff members:

- Dr. Mona Abo zaid
- Dr. Amany Edward
- Dr.Emad Girgis

- Dr.khaled Eldosoki
- Dr.Tarek Abd Elrahman
- Dr. Omnia Kamal
- Dr. Marwa Gamal
- Dr. Eman Ramadan

B- Professional Information

8. Statistical Information:

- No. of students attended/joined the course	No.	5	%	100
- No. of students completed the course & attended the exam	No.	5	%	100

- Results:

Passed:	No:	1	%	100	Failed:	No:	0	%	0
---------	-----	---	---	-----	---------	-----	---	---	---

- Success percentages & distribution according to the grades of passed students:

- Success percentages : 100%

- Distribution :

Excellent	No:		%		Very good:	No:		%	
Good	No:		%		Pass:	No:	√	%	100

2- Course Teaching:

- Course topics taught

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

- Total percentage of the essential course topics that actually covered: **100 %**

70%

- **Obligation/commitment of the teaching staff to the specified course content:**

>85% 60-84 % <60%

- **The extent to which the exam covered the course topics:**

>85% 60-84 % <60%

- Teaching and Learning Methods:

Lectures	√
Practical/laboratory training	√
Assignment	√
Online quiz	√

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	100	100
Oral examination	100	100
Practical/ Laboratory examination	100	100
Total	100	100

4- Facilities available for Teaching:

- Scientific references:

Available Available to some extent Unavailable

- Assistant aids/tools:

Available Available to some extent Unavailable

- **Other materials, supplies and requirements:**

Available

Available to
some extent

Unavailable

5- Administrative & regulatory Constraints:

No

Yes

6- Results of student feedback as a result of course evaluation:

المقرر له اهداف واضحة (100%)

المقرر يحفز علي التغيير (100%)

مفيد في التطبيق العملي (100%)

يوفي امثلة علمية (100%)

اكسبني مهارات تفيد في تكوين شخصيتي (100%)

7- External evaluator/s comments:

البرنامج مستوفي البيانات الأساسية ومطابق للمعايير الأكاديمية والقياسية ويحتوي علي أهداف واضحة والمخرجات توافق الأهداف للتعلم

8- Completed actions related to course development in the last year:

Improving the technical tools and adequate infrastructure

9- Non-completed actions related to course development in the last year:

10- Action plan for the next academic year:

- **Fields/areas of course development**

Actions Required	Completion Date	Responsible Person
More seminars , More workshops	2023	All staff members
Further practical assessment		All staff members
More developing for computer laboratory	2024	Head of department
Variations in exam tools	2023	All staff members
More videos , teaching tools	2023	All staff members

○ **Course Coordinators:**

➤ **Coordinators:**

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

➤ **Assistant coordinator: Dr Maggi Mofeed**

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

نموذج رقم (16)
تقرير مقرر دراسي

Course report of MD degree of General Surgery

“Use of Computer in Medicine”

October 2022

University: Minia

Faculty: Medicine

Department: Public health and preventive medicine

A-Basic Information

1. Course Title and Code: Medical Statistics and Research Methodology, code

2. Specialty : MD degree of General Surgery

3. Level/year (1st or 2nd part): 1st part

4. Number of courses: 1 course

5. Adopted system for selection & formation of examiners' committee:

Available Not available

6. System of external evaluation of the exam:

Available Not available

7. Number & Names of teaching staff members:

- Dr. Mona Abo zaid
- Dr. Amany Edward

- Dr.Emad Girgis
- Dr.khaled Eldosoki
- Dr.Tarek Abd Elrahman
- Dr. Omnia Kamal
- Dr. Marwa Gamal

B- Professional Information

8. Statistical Information:

- No. of students attended/joined the course	No.	4	%	100
- No. of students completed the course & attended the exam	No.	4	%	100

- Results:

Passed:	No:	1	%	100	Failed:	No:	0	%	0
---------	-----	---	---	-----	---------	-----	---	---	---

- Success percentages & distribution according to the grades of passed students:

- Success percentages : 100%

- Distribution :

Excellent	No:		%		Very good:	No:		%	
Good	No:		%		Pass:	No:	√	%	100

2- Course Teaching:

- **Course topics taught**

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

- **Total percentage of the essential course topics that actually covered: 100 %**

70%

- **Obligation/commitment of the teaching staff to the specified course content:**

>85%

60-84 %

<60%

- **The extent to which the exam covered the course topics:**

>85%

60-84 %

<60%

- Teaching and Learning Methods:

Lectures	√
Practical/laboratory training	√
Assignment	√
Online quiz	√

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	100	100
Oral examination	100	100
Practical/ Laboratory examination	100	100
Total	100	100

4- Facilities available for Teaching:

- Scientific references:

Available Available to some extent Unavailable

- Assistant aids/tools:

Available Available to some extent Unavailable

- **Other materials, supplies and requirements:**

Available

Available to
some extent

Unavailable

5- Administrative & regulatory Constraints:

No

Yes

- Results of student feedback as a result of course evaluation:

المقرر له اهداف واضحة(100%)

المقرر يحفز علي التغيير(100%)

مفيد في التطبيق العملي(100%)

يوفي امثلة علمية(100%)

اكسبني مهارات تفيد في تكوين شخصيتي(100%)

7- External evaluator/s comments:

البرنامج مستوفي البيانات الأساسية ومطابق للمعايير الأكاديمية والقياسية ويحتوي علي أهداف واضحة والمخرجات توافقي الأهداف للتعلم

8- Completed actions related to course development in the last year:

Improving the technical tools and adequate infrastructure

9- Non-completed actions related to course development in the last year:

10- Action plan for the next academic year:

- **Fields/areas of course development**

Actions Required	Completion Date	Responsible Person
More seminars , More workshops	2023	All staff members
Further practical assessment		All staff members
More developing for computer laboratory	2024	Head of department
Variations in exam tools	2023	All staff members
More videos , teaching tools	2023	All staff members

○ **Course Coordinators:**

➤ **Coordinators:**

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

Assistant coordinator: Dr Maggi Mofeed

Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

Section V

Program Report

نموذج رقم (15)

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: اسم البرنامج	MD Degree in General Surgery (GS100)
2-Speciality: التخصص	General Surgery
3-No of program's years: عدد السنوات الدراسية	3.5 years
4- No of courses عدد المقررات	5 courses include: 1.Use of computer in medicine 2. Medical Statistics and Research Methodology 3. Surgical Anatomy 4. Surgical Pathology

	5. General & GIT surgery
5- Roles that regulate formation of examiners committees: annex أسس تشكيل لجان الممتحنين	Depending on the department council and faculty rules and according to the specialties
6-External examiners' system: نظام الممتحنين الخارجيين	Available (<input checked="" type="checkbox"/>) not available (<input type="checkbox"/>)

B- PROFESSIONAL INFORMATION

7-Statistics إحصائيات	
-No of Students joined the program عدد الطلاب الملتحقين بالبرنامج	2020: 0 2021: 1 2022: 0
- Success rate in the program (%) معدل النجاح في البرنامج (%)	100 %
-Ratio of students attending the program this year (in relation to those of last 3 years) اتجاه الالتحاق بالبرنامج (منسوبة الى الأعداد الملتحقة بالبرنامج خلال آخر 3 سنوات)	Increasing (<input checked="" type="checkbox"/>) Constant (<input type="checkbox"/>) Decreasing (<input type="checkbox"/>)
-Final Exam results نتائج الامتحان النهائي	Passed 100 %
-Distribution of success grades (%) توزيع تقديرات النجاح (%)	Excellent (<input type="checkbox"/>) Very good (<input type="checkbox"/>) good (<input type="checkbox"/>) Pass (<input type="checkbox"/>)

8- Academic standards المعايير الأكاديمية	
- Academic reference standards (ARS): المعايير الأكاديمية المرجعية	<ul style="list-style-type: none"> • Minia faculty of medicine adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAEE) for all postgraduate programs. (Faculty Council No. 182, decree No. 7163 dated:14/9/2009. • faculty Council decree No.7528, in its session 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: المعلومات والمفاهيم	<p>By the end of the study of MD program in General Surgery the candidate should be able to:</p> <p>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.</p> <p>a.10 recognize essential facts of clinically supportive sciences including General Surgery.</p> <p>a.11 identify etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of the common diseases and situations related to</p>

	<p>General Surgery.</p> <p>a.12 identify the basic ethical and medicolegal principles that should be applied in practice and are relevant to the General Surgery.</p> <p>a.13 identify the basics and standards of quality assurance to ensure good clinical care practice in the field of General Surgery.</p> <p>a.14 identify the ethical and scientific principles of medical research in General Surgery.</p> <p>a.15 explain the impact of common health problems in the field of General Surgery on the society and how good clinical practice improves these problems.</p> <p>a.16 identify recent advances techniques and procedursin the practice of General Surgery</p>
<p>- Intellectual skills</p> <p>المهارات العقلية</p>	<p>By the end of the program the candidate should be able to:</p> <p>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.</p> <p>b.2 Solve problems of common clinical situations related to General Surgery using an investigatory and analytic thinking approach.</p>

	<p>b.3 Design a research study or review on common clinical problems relevant to the field of General Surgery.</p> <p>b.4 Formulate management plans and alternative decisions in different situations in the field of the General Surgery.</p> <p>b.5 Assess risk in professional practices in the field of General Surgery.</p> <p>b.6 Plan for the development of performance in the field of General Surgery.</p> <p>b.7 Have knowledge for professional problems' solving.</p> <p>b.8 Assess common ethical dilemma and its proper sollution.</p>
<p>-Professional & practical/clinical skills: المهارات المهنية والعملية</p>	<p>By the end of the program the candidate should be able to:</p> <p>c.8 Carry out patient management plans (clinical diagnosis, investigations, and modality of treatment) for common conditions related to General Surgery.</p> <p>c.9 Use information technology to support patient care decisions and patient education in common clinical situations related to General Surgery.</p> <p>c.10 perform competently non invasive and invasive procedures considered essential for the General Surgery.</p> <p>c.11</p>

	<p>provide health care services aimed at preventing health problems related to General Surgery.</p> <p>c.12 provide patient-focused care in common conditions related to General Surgery, while working with health care professionals, including those from other disciplines.</p> <p>c.13 write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.</p> <p>c.14 organize a proper medical report.</p>
<p>-General & transferable skills: المهارات العامة والمنقولة</p>	<p>By the end of the program the student should have the ability to:</p> <p>d.11 perform practice-based improvement activities using a systematic methodology</p> <p>d.12 perform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education.</p> <p>d.13 maintain therapeutic and ethically sound relationship with patients.</p> <p>d.14</p>

	<p>emonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.</p> <p>d.15 ommunicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.</p> <p>d.16 ractice cost-effective health care and resource allocation that does not compromise quality of care.</p> <p>d.17 ssist patients in dealing with system complexities.</p> <p>d.18 e aware of the importance of life-long self-learning and show a strong commitment to it.</p> <p>d.19 rganize material from different scientific sources including library, electronic and online resources.</p> <p>d.20 ealing effectively with unethical behavior of other members of healthcare team.</p>
<p>- Students' support system (students with limited capabilities & those with outstanding performance): طرق دعم الطلاب (ذوي القدرات المحدودة والتميزين)</p>	<ul style="list-style-type: none"> • Special sessions to explain any difficult part for students to understand • Different schedule according to their ability (putting time tables that not

	<p>overlaps their teaching schedule)</p> <ul style="list-style-type: none"> Rewarding students who provide good seminars
<p>-External reference standards for the program (Benchmark): معايير القياس المرجعية للبرنامج</p>	<ul style="list-style-type: none"> 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.
<p>-Program handbook: دليل البرنامج</p>	<p>Available (<input checked="" type="checkbox"/>) Not available (<input type="checkbox"/>)</p>
<p>-Program review process: نظام المراجعة الدورية للبرنامج</p>	<p>Available (<input checked="" type="checkbox"/>) Not available (<input type="checkbox"/>) Annual (<input type="checkbox"/>) More than one year (<input type="checkbox"/>)</p>
<p>- Achievement of program intended learning outcomes(ILOs) by academic program framework (by courses): مدى توافق الهيكل الأكاديمي للبرنامج مع المستهدف من التعليم</p>	<p>The matrix of program ILOs vs courses</p>
<p>-Administrative and regulatory constrains: المعوقات الإدارية والتنظيمية</p>	<ul style="list-style-type: none"> Cost and inavailability of Simulation-based education to allow training on complex procedures Surgical trainees on rotating shifts are often not able to attend scheduled learning opportunities such as lectures, and tutorials Lack of resources

9-Students assessments to measure achievement of program intended learning outcomes (ILOs)	
<p>-Assessment tools/methods:</p> <p>أدوات التقويم</p>	<ol style="list-style-type: none"> 1. Research (Thesis) 2. Written Exams: <ul style="list-style-type: none"> Short essay MCQs Problem solving 3. Practical Exams 4. Oral Exams 5. Seminars, presentations, assignments 6. log book
<p>-Timetable/schedule:</p> <p>المواعيد</p>	<p>Duration of program is 7 semesters (3.5 years), from registration till the end of the second part; divided to:</p> <p>First Part: (≥ 6 months=1 semester):</p> <ol style="list-style-type: none"> a. Program-related essential basic courses including: Use of computer in medicine; Medical Statistics and Research methods; Surgical anatomy; and Surgical Pathology b. At least six months after registration should pass before the student can ask for examination in the 1st part. c. Two sets of exams: 1st in April — 2nd in October. d. For the student to pass the first part exam, a score of at least 60% in each curriculum is needed. e. Those who fail in one course need to re-exam it only. <p>Second Part: (≥ 24 months=4 semesters):</p> <ol style="list-style-type: none"> a. Program related specialized science of general surgery courses and ILOs. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.

	<p>b. The candidate should pass the written exam (at least 60% score) to be admitted to the oral and practical exams.</p> <p>c. Four times of oral and practical exams are allowed before the student has to reattend the written exam.</p> <p>Third Part: (24-48 months=4-8 semesters):</p> <p>a. MD thesis subject should be officially registered maximally one and half years from applying to the MD degree.</p> <p>b. Discussion and acceptance of the thesis should not be set before 24 months from registering the MD subject and maximally after 4 years.</p> <p>c. Thesis and at two published research papers from the thesis (one in National journal and another one in international journal) are required before discussion.</p>
<p>-External evaluator comments: (if present)</p> <p>ملاحظات المراجع الخارجي (إن وجدت)</p>	

10-Educational resources:

<p>Ratio of teaching staff to student numbers</p> <p>نسبة اعضاء هيئة التدريس على راس العمل الى الطلاب</p>	Sufficient
<p>- Suitability of staff members specialties as well as distribution of teaching loads for program's needs</p> <p>مدى ملائمة تخصصات أعضاء هيئة التدريس وتوزيع الأعباء عليهم طبقا لاحتياجات البرنامج</p>	<p>Suitable () Suitable to some extent (✓)</p> <p>Non- Suitable () (why?)</p> <p>.....</p> <p>.....</p> <p>.....</p>
<p>-Library:</p> <p>المكتبة</p>	<p>Suitable () Suitable to some extent (✓)</p> <p>Non- Suitable () (why?)</p>

	<p>.....</p> <p>.....</p> <p>.....</p>
<p>-Laboratories/clinical places:</p> <p>أماكن التدريب الاكلينيكي/المعامل</p>	<p>Suitable () Suitable to some extent (√)</p> <p>Non- Suitable () (why?)</p> <p>.....</p> <p>.....</p> <p>.....</p>
<p>-Computers/computer labs:</p> <p>الحاسب الآلي</p>	<p>Suitable () Suitable to some extent (√)</p> <p>Non- Suitable () (why?)</p> <p>.....</p> <p>.....</p> <p>.....</p>
<p>-Collaboration with other organizations for offering students training opportunities:</p> <p>مدى التعاون مع جهات الأعمال في توفير فرص التدريب للطلاب</p>	<p>Collaboration with department of General Srgery at:</p> <p>Assuit university</p> <p>Ain shams university</p> <p>Mansoura University for Gastrointestinal Surgery and liver transplantation</p>
<p>-Other program requirements:</p>	<p>TOEFL</p>

أي متطلبات أخرى للبرنامج	FLDP & ICTP courses and certificates.
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11-Quality management & development system

ادارة الجودة والتطوير

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

ملاحظات المراجعين الخارجيين فيما يخص مخرجات البرنامج ومعايير القياس	
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12- Program development suggestions:

مقترحات تطوير البرنامج

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

❖ Action Plan:

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

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 department council: / /

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

Head of Department: Professor Dr. Amr Hamdy

Amr Hamdy

Section VI:

OTHER REQUIREMENTS