



كلية الطب
Faculty of Medicine



master (MSc) Program & Courses'
Specifications of
Plastic Surgery

Program Specification for Master Degree (MSc) in Plastic Surgery

University: MINIA

Faculty(s): MEDICINE

Department: Plastic Surgery Department

A- Basic Information:

1- Program title: Master Degree (MSc) in Plastic Surgery

2- Program type: Single ☒ Double ☐ Multiple ☐

3- Department responsible for offering the degree: Plastic Surgery

4- Program code: PS200

B- Professional Information:

1- Program aims:

The aim of this degree is to qualify a physician to be able to manage patients having congenital, traumatic, oncologic, burn and cosmetic disorders (including diagnosis and non-operative and operative treatment) as well as planning correctly for the treatment of deformed cases. In addition to being capable of communicating efficiently with his colleagues, patients, working staff and to be able to conduct research in the field of Plastic surgery as well as coping with the advancing scientific progress for the benefit of health improvement.

2. Intended Learning Outcomes (ILOs) :

2.1. (a) Knowledge and understanding:

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

- a1- Define the relevant surgical anatomy of the head and neck, upper limbs, lower limbs, and trunk.
- a2- Explain the biochemical, physiological and pathological processes underlying common plastic surgery disorders.
- a3- Describe the embryological basis and histology of skin, bone, cartilage, muscle, and connective tissue.
- a4- Correlate common surgical infections related to plastic surgery practice.
- a5- Understand the basic plastic surgery research and its tools

- a6- Understand the pharmacologic principles of drug therapy in plastic surgery
- a7- Explain the principles of case management and operative intervention in different plastic surgery sub-specialties.
- a8- Define medical statistics and identify uses and importance of medical statistics in medical research.
- a9- Recognize the medico-legal importance of informed consent in plastic surgery.

2.2. (b) Intellectual skills

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

- b1-Interpret the anatomical bases of common surgical problems.
- b2- Correlate the pathologic features of the disease with its clinical presentation, laboratory investigations and complications.
- b3- Classify plastic surgery disorders in head and neck, hand and other body regions.
- b4- Differentiate disorders from each other.
- b5- Assess multi-system disease and evaluate risk.
- b6- Select appropriate laboratory tests and interpret results.
- b7- Select appropriate imaging technique for diagnosis of plastic surgery diseases and interpret radiological imaging.
- b8- Demonstrate the ability to solve common surgical problems.
- b9- Select the proper line of treatment and plan to improve outcome and be innovative.
- b10- Analyze aesthetics of human structures.
- b11- Correlate ethical regulations to basic principles of medical ethics

2.3. (c) Professional and practical skills

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

- c1- Apply the anatomical principles to common surgical procedures
- c2- Recognize and interpret the important pathologic lesions in a pathology report that can provide reliable basis for rational clinical care and surgical management.
- c3- Examine plastic surgery cases with variable presentations in the outpatient clinic and emergency room.
- c4- Construct a plan of management for a given situation.
- c5- Carry out bedside management techniques in the ward.
- c6- Assist with efficiency and recognize challenges and difficulties during major surgical procedures.
- c7- Evaluate and improve operative techniques and personnel performance

- c8- Identify and manage properly complications of burn and complications of surgical procedures.
- c9- Write medical reports and evaluate written reports.

2.4 (d) General and transferable skills

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

- d1- Apply teamwork skills in working.
- d2- Apply sound communication skills in interviewing patients and their relatives.
- d3- Master Problem solving, brainstorming skills, self-evaluation, teaching and evaluating others skills.
- d4- Maintain a professional image concerning behavior, dress and speech.
- d5- Keep privacy and confidentiality of patients' photographs and other documentary materials.
- d6- Research design and conduction and ability to collect data by different means

3- Program Academic Reference Standards

- Faculty of Medicine, Minia University adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty Council decree No.6854, in its session No.177 Dated: 18\5\2009).
- Minia faculty of medicine has developed the academic standards (ARS) for Master (MSc) program and approved in faculty Council decree No.7528, in its session No.191, dated: 15/3/2010, and these standards (faculty ARS) has been updated and approved in Council No. 52/2 dated 20/2/2023. {**Annex 1**}.
- Then, Plastic Surgery Department has developed the academic standards (ARS) for master (MSc) program in plastic surgery. (1st approval by department council: dated: \ \) and the last update in department council: 6\3\2023). {**Annex 2**}.

4. Program External References

- None

5 - Curriculum Structure and Contents

5. A. Program duration: 4 semester (2 years).

5. B. Program structure:

□ Basic sciences (compulsory) courses:	No: 8	Percentage: % 12.2
□ Basic sciences (optional) courses:	No: 0	Percentage: % 0
□ Specific courses related to the speciality:	No: 2	Percentage % 87.8
□ Other courses:	No: 0	Percentage: % 0
Υ Training programs and workshops, field visits, seminars & other scientific activities:	Distributed along the whole program.	

	Hour/week		
Subject	Lectures	Practical	Clinical
First part			
Anatomy	2	2	
Histology	1	2	
Physiology	2	2	
Biochemistry	1	-	
Pathology	2	2	
Microbiology	2	1	
Pharmacology	2	1	
Medical ethics	2	-	
Second part			
General surgery	1	1	1
Plastic surgery	2	4	4

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

5. D. Program courses: Number of courses: 10

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

Course Title		Total No. of	No. of hours			Program ILOs Covered
			Lect.	Practical	Clinical	
FIRST PART (Level of course):						
Anatomy	.....	30	14	16	--	a1,a2,a3,b1,b2,b3,c1,d4,d5
Histology	.....	31	11	20	--	a3,b4,c2,d2,d4,d5
Physiology	.....	33	22	11	--	a4,b5,c7,d4,d5

Biochemistry	.....	30	30	--	--	a5,a6,a7,b6,c6,d4,d5
Pathology	.....	36	32	4		a.1, a.2, a.3, b.1, b.2, c.1, c.2,d4
Microbiology	.....	40	35	5		a.1, a.2, a.3, b.1, b.2, c.1, c.2,d1,d2,d3,d4,d5
Pharmacology	.....	33	30	3		a.1, a.2, a.3, b.1, b.2, c.1, c.2,d1,d2,d3,d4,d5
Medical ethics	.....	66	36	18		a4, b8, c7
Training programs and workshops, field visits, seminars& other	Continuous					a.1, a.2, a.3, b.1, b.2, c.1, c.2
SECOND PART (Level of course):						
general Surgery	.....	126	46	40	40	a.2, a.3,b.3, b.4, b.5, b.6, c.1,c.2, c.3, c.4, c.7, d.1, d.5
Plastic Surgery	.....	800	200	300	300	a6,a7,a8,a9,a10,a11,b5, b6,b7,b8,b9,b10,b11, b12, b13,c1,c3,c4,c5,c6, c7,c8,d1,d3,d4,d5,d6,d7
Training programs and workshops, field visits, seminars& other	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

6- Program admission requirements

6.1. General requirements:

A-Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or
2. Equivalent degree from medical schools abroad approved by the Ministry of Higher Education.

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

6.2. Specific requirements:

- A-Candidates graduated from Egyptian universities should be have at least "Good Rank" in their final year / cumulative years examination and grade "Good Rank "in Surgery course too.
- B- Candidate should know how to speak& write English well.
- C- Candidate should have computer skill.

7- Regulations for progression and program completion

Duration of program is 4 semesters (2 years), starting from registration till 2nd part exam; divided to:

7.1. First Part: (≥6 months=1 semester):

- Program-related basic sciences & clinical sciences
- At least six months after registration should pass before the student can ask for examination in the 1st part.
- Two sets of exams: 1st in April — 2nd in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.
- Those who fail in one curriculum need to re-exam it only.

7.2. Thesis/essay:

- Could start after passing the 1st part from registration and should be completed, defended and accepted after passing 6 ms from documentation (protocol registration) and after passing the 1st part examination and at least one month before allowing entering 2nd part
- Accepting the thesis occurs after acceptance and\ or publishing one thesis-based paper in local or international journal and this is adequate to pass this part.

7.3. Second Part: (≥18months= 3 semesters):

- Program related specialized Courses.
- At least 18 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the logbook is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:
 - a. Training courses
 - b. Grand rounds
 - c. Case presentation

- d. Seminars
 - e. Thesis discussion attendance
 - f. Workshops
 - g. Conference attendance
 - h. Journal club
 - i. Other scientific activities requested by the department.
- Two sets of exams: 1st in April— 2nd in October.
 - For the student to pass the second part exam, a score of at least 60% in each curriculum is needed. (With at least 40% of the written exam)

8- Teaching and learning methods:

a-Lectures.

b- Practical training and demonstration weekly throughout the course.

a-Self-training activities such as research

b- Seminars, presentations and assignments.

c- Training courses & workshops.

d- Thesis discussion attendance.

e- Conference attendance

f- Clinical rounds

g- Surgery performance

h-

9 - Methods of student assessment:

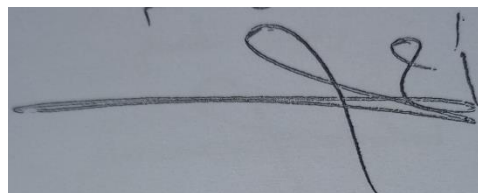
Method of assessment	The assessed ILOs
1. Research (Thesis)	<ul style="list-style-type: none"> a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills
2. Written Exams: <ul style="list-style-type: none"> • Short essay • MCQs, Complete • Commentary, Problem solving 	<ul style="list-style-type: none"> a. Knowledge & understanding b. Intellectual skills
3. Practical/Clinical Exams	a. Knowledge & understanding

<ul style="list-style-type: none"> - Long case - Short case - operative 	<ul style="list-style-type: none"> b. Intellectual skills c. Professional & practical skills
4. Oral Exams	<ul style="list-style-type: none"> a. knowledge & understanding b. Intellectual skills c. General & transferable skills
5. Logbook	<ul style="list-style-type: none"> a. Knowledge & understanding, b. Intellectual skills c. Professional & practical skills d. General & transferable skills

10. Methods of Program Evaluation:

Evaluator (By whom)	Method/tool	Sample
1. Senior students (Students of last year)	Questionnaires	All the students
2. Graduates (Alumni)	Questionnaires	10 at least
3. 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

- **Program Coordinators:** Prof. Khaled M. Hassan



- **Head of Department:** Prof. Ahmed Mahrous

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

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

NAQAAE برامج الماجستير	Faculty Master (MSC) Program
1. مواصفات الخريج: خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:	1. Graduate Attributes: Graduate of master (MSC) program should be able to:
1.1. إجابة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. Understanding and applying of basics of research method and research tools
2.1. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	2.1. Critically analyze, evaluate, and effectively communicate findings, theories, and methods
3.1. تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية.	3.1. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields.
4.1. إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.	4.1. Demonstrate awareness of community health needs related to the field of specialization by understanding the beneficial interaction with the society to improve quality of life
5.1. تحديد المشكلات المهنية وإيجاد حلول لها.	5.1. Demonstrating proficiency, required to solve current complex problems in his scholarly field.
6.1. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	6.1. Master a variety of technical skills in his scholarly field and expert relevant equipment, technology, and software.
7.1. لتواصل بفاعلية والقدرة على قيادة فرق العمل.	7.1. Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.
8.1. اتخاذ القرار في سياقات مهنية مختلفة.	8.1. Take professional situational decisions and logically support them.

9.1. توظيف الموارد المتاحة بما يحقق أعلى استفادة و الحفاظ عليها	9.1. Optimal use of available resources to achieve research or best patient health care and ensure its maintenance.
10.1. إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات.	10.1. Demonstrate awareness of its role in community health development and
11.1. التصرف بما يعكس الالتزام بالنزاهة والمصادقية والالتزام بقواعد المهنة.	11.1. Exhibit ethical behavior that reflect commitment to the code of practice
12.1. تنمية ذاته أكاديميا ومهنيا وقادرا علي التعلم المستمر.	12.1. demonstrate the ability to sustain a lifelong personal and professional growth.
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: بإنهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراسة بكل من:	2.1. Knowledge & Understanding: Upon completion of the Master Program , 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. Understanding 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. Recognizing 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 : بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	2.2. Intellectual Skills: Upon completion of the master program, the graduate should be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems
2.2.3. 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: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	3.2. Professional Skills: Upon completion of the master program, the graduate must be able to:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field
3.2.2. كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
3.2.3. تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research

<p>4.2. المهارات العامة والمنتقلة :</p> <p>بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:</p>	<p>4.2. General and transferable skills</p> <p>Upon completion of the master program, the graduate should be able to:</p>
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).
4.2.5. 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: ARS VS. MSc PROGRAM of Plastic surgery

2. المعايير القياسية العامة: NAQAAE General Academic Reference Standards“ GARS” for Master Programs	2. Faculty Academic Reference Standards (ARS) for Master Program	MSc Program of plastic surgery
2.1. المعرفة والفهم: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراسة بكل من:	2.1. Knowledge & Understanding: Upon completion of the Master Program , graduates should have sufficient knowledge & understanding of:	2.1. Knowledge and Understanding Upon completion of the master Program (MSc) in plastic surgery graduate should be able to:
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understanding the scientific basis and modern knowledge in the field of specialization and related medical sciences.	a.1. Define the relevant surgical anatomy of the head and neck, upper limbs, lower limbs, and trunk.
2.1.2. التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.	a.2. Explain the biochemical, physiological and pathological processes underlying common plastic surgery disorders a.3 Describe the embryological basis and histology of skin, bone, cartilage, muscle, and connective tissue.
2.1.3. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization	a.4 Correlate common surgical infections related to plastic surgery practice.

2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognizing basics of medico-legal aspects of practice, malpractice and avoid common medical errors	A5 Understand the basic plastic surgery research and its tools
2.1.5. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field	a6- Understand the pharmacologic principles of drug therapy in plastic surgery a7- Explain the principles of case management and operative intervention in different plastic surgery sub-specialties.
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.	a8. Define medical statistics and identify uses and importance of medical statistics in medical research. a9- Recognize the medico-legal importance of informed consent in plastic surgery.
2.2. المهارات الذهنية: بانهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	2.2. Intellectual Skills: Upon completion of the master program, the graduate should be able to:	2.2. Intellectual skills: Upon completion of the master program (MSc) in Histology & Cell Biology, the graduate must be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgement skills for analytical and critical problem solving	b1-Interpret the anatomical bases of common surgical problems. b2- Correlate the pathologic features of the disease with its clinical presentation, laboratory investigations and complications. b3- Classify plastic surgery disorders in head and neck, hand and other body regions. b4- Differentiate disorders from each other. b5- Assess multi-system disease and evaluate risk.
2.2.2. حل المشاكل	2.2.2. Capable of integrating	b6- Select appropriate laboratory tests and

المتخصصة مع عدم توافر بعض المعطيات	knowledge and dealing with complex subjects to solve problems	interpret results. b7- Select appropriate imaging technique for diagnosis of plastic surgery diseases and interpret radiological imaging.
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 research or a clinical problem.	b8- Demonstrate the ability to solve common surgical problems.
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	b9- Select the proper line of treatment and plan to improve outcome and be innovative. b10- Analyze aesthetics of human structures.
2.2.5 تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.	b11- Correlate ethical regulations to basic principles of medical ethics
3.2. المهارات المهنية: باتتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	3.2. Professional Skills: Upon completion of the master program the graduate must be able to:	3.2. (c) Professional and practical skills Upon completion of the master program (MSc) in plastic surgery , 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.	c1- Apply the anatomical principles to common surgical procedures c2- Recognize and interpret the important pathologic lesions in a pathology report that can provide reliable basis for rational clinical care and surgical management. c3- Examine plastic surgery cases with variable presentations in the outpatient clinic and emergency room. c4- Construct a plan of management for a given situation.
3.2.2 كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports	c5- Carry out bedside management techniques in the ward.

3.2.3. تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research	c6- Assist with efficiency and recognize challenges and difficulties during major surgical procedures. c7- Evaluate and improve operative techniques and personnel performance c8- Identify and manage properly complications of burn and complications of surgical procedures. c9- Write medical reports and evaluate written reports.
4.2. المهارات العامة والمنتقلة : بإتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	4.2. General and transferable skills Upon completion of the master program the graduate should be able to:	4.2. (d) General and transferable skills Upon completion of the master program (MSc) in Histology & Cell Biology, the graduate must 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.	d1- Apply teamwork skills in working.
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.	d2- Apply sound communication skills in interviewing patients and their relatives.
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعليمية الشخصية	4.2.3. Assess himself and identify personal learning needs	d3- Master Problem solving, brainstorming skills, self-evaluation, teaching and evaluating others skills.
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).	d4- Maintain a professional image concerning behavior, dress and speech.
4.3.5. وضع قواعد ومؤشرات تقييم أداء	4.2.5. Setting indicators for evaluating the performance of	d5- Keep privacy and confidentiality of patients'

الآخرين والحفاظ ع اسرار المرضى	others	photographs and other documentary materials.
4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة وتطوير البحث	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system	d6- Research design and conduction and ability to collect data by different means

Course Specifications of Anatomy for master's degree (1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Anatomy department

1- Course Information		
<ul style="list-style-type: none">• Academic Year/level: Master's Degree (1st part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">• Course Title: Anatomy	<ul style="list-style-type: none">• Code:
<ul style="list-style-type: none">• Number of teaching hours: 30<ul style="list-style-type: none">- Lectures: Total of 14 hours- Practical/clinical: Total of 16 hours		
2- Overall Aims of the course	By the end of the course the student must be able to: <ul style="list-style-type: none">1. Provide the postgraduate students with the medical Knowledge and skills essential for the practice of specialty and necessary to gain.2. Provide master students with basic information about the anatmy of tissues and organs related toth field of plastic srgery.3. Maintenance of learning abilities necessary for continuous medical education.4. Maintenance of research interest and competences.	
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	<ul style="list-style-type: none">a1- Describe and explain the gross structure and relation of upper extremities, trunk, head and neck, the breast, the skin, lower extremity, abdomen and pelvis and thoracic cage.a2- Describe the embryologic origin of skin, fat, bone, cartilage, muscle and nerve cells.a3- Interpret complications and iatrogenic injuries in light of anatomical knowledgea4- Identify the surgical anatomy of common plastic surgery procedure.a5- Describe the anatomical bases of minimally invasive	

	interventions.
B- Intellectual Skills	b1-Interpret the anatomical bases of common surgical problems. b2- Comment on the anatomical bases of clinical situations. b3-Integrate surgical anatomical information with other basic and clinical information to plan management of common surgical problems.
C- Professional and Practical Skills	c1. Identify common anatomical landmarks of surgical conditions. c2. Apply anatomical information in examining surgical patients. c3. Identify surface anatomical landmarks on patients. c4. Apply the anatomical principles to common surgical procedures.
D- General and transferable Skills	d1. Maintain honesty and integrity in all interactions with professors, colleagues and others with whom physicians must interact in their professional lives d2. Apply communication skills in team working with other staff members d3- Recognize the responsibility towards work d4- Work cooperatively and show respect for others' opinions.

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Embryology and anatomy of the Head & Neck	4	2	6
Embryology and anatomy of Upper Limb	4	2	6
Embryology and anatomy of Breast	1	2	3
Anatomy of anterior chest wall	1	2	3
Anatomy of anterior abdominal wall & hernia	1	2	3
Anatomy of Lower Limbs	1	2	3
Embryology and anatomy of external genitalia (male & female)	1	2	3
Embryology of the skin	1	2	3
Total	14	16	30

5- Teaching and Learning Methods	<ul style="list-style-type: none"> • Lectures • Practical {skill lab, cadavers, plastinated and plastic models: instructor guided} • Presentation/seminar • Group discussion
6- Teaching and Learning Methods for students with limited Capacity	---
7- Student Assessment	
A. Student Assessment Methods	<ul style="list-style-type: none"> ▪ Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. ▪ Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
B. Assessment Schedule (Timing of Each Method of Assessment)	<p>Assessment 1: one written exam by the end of the course.</p> <p>Assessment 2: Oral exam, after the written exam.</p> <p>Formative only assessment: simple research assignment, log book, slide box.</p>
C. Weighting of Each Method of Assessment	<p>Written examination: 20 (40%)</p> <p>Oral examination: 30 (60%)</p> <p>Total: 50 (100%)</p>
8- List of References	
A. Course Notes/handouts	Lecture notes prepared by staff members in the department
B. Essential Books	.Gray's Anatomy
C. Recommended Text Books	<ul style="list-style-type: none"> - Standring,S, Ellis, H., Healy, J.C., Johnson, D., and Williams, J.C., 2016. Gray's anatomy. 50th edition. - Moore K.L., and Agur A.M.R., 2016. Essential clinical anatomy. 14th edition. - A colored Atlas of Human anatomy and

	.Embryology
D. Periodicals, websites	American J. of Anatomy Cochrane Library, Medline & Popline

Course Coordinator/s:

Prof. Dr. Al- Sayed Ali Mahran

Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky 

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

نموذج رقم 11أ)

جامعة الكوفة
كلية الطب / م ع ه د
قسم

مسمى المقرر	
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. Professional & Practical skills				D. General & Transferable Skills			
		A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D1	D2	D3	D4
Embryology and anatomy of the Head & Neck		*			*			*			*				*		
Embryology and anatomy of Upper Limb		*		*	*		*		*	*		*		*		*	
Embryology and anatomy of Breast			*	*			*	*				*	*			*	*
Anatomy of anterior chest wall		*		*	*			*		*	*				*	*	
Anatomy of anterior abdominal wall & hernia	ficati	*	*	*			*	*		*				*	*		*

Anatomy of Lower Limbs			*		*			*				*			*		
Embryology and anatomy of external genitalia (male & female)				*	*	*			*	*	*			*	*	*	*
Embryology of the skin		*		*			*	*				*	*				*

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 1,2,3,4,5	1,2,3		
Practical (skill lab & instructor guided)			2,4	
Presentation/seminar	1,3			4,5
group discussion	4		1	1,2,4

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	1,2,3,4,5	1,4		
Practical exam			1,2,3,4	
Oral Exam	1,2,3,4	1,2, 4		1,2,3,4

Blueprint of Plastic surgery MSC (Anatomy Examination Paper)

20 Mark

	Topics	H O U R S	Know ledge %	Intel lectu al %	% of topi cs	Mar k	Actu al mar k
1	Embryology and anatomy of the Head & Neck	6	100	0	20	4	4
2	Embryology and anatomy of Upper Limb	6	70	30	20	4	4
3	Embryology and anatomy of Breast	3	70	30	10	2	2
4	Anatomy of anterior chest wall	3	70	30	10	2	2
5	Anatomy of anterior abdominal wall & hernia	3	70	30	10	2	2
6	Anatomy of Lower Limbs	3	80	20	10	2	2
7	Embryology and anatomy of external genitalia (male & female)	3	80	20	10	2	2
8	Embryology of the skin	3	100	0	10	2	2
	Total	30			100 %		20

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

University: Minia

Faculty: Medicine

Department offering the course:

- Histology and cell biology

1- Course Information		
<ul style="list-style-type: none">• Academic Year/level: Master’s Degree (1st part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">• Course Title: Histology	<ul style="list-style-type: none">• Code: -
<ul style="list-style-type: none">• Number of teaching hours: 31<ul style="list-style-type: none">- Lectures: Total of 11 hours; 1 hour /week- Practical/clinical: Total of 20 hours		
2- Overall Aims of the course	By the end of the course the student must be able to: 1. Provide the postgraduate students with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2. Provide master students with basic information about the structure and function of different tissues and organs affected in many diseases. 3. Maintenance of learning abilities necessary for continuous medical education. 4. Maintenance of research interest and competences.	
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	A1. Define the histological structure of body tissues and organs. A2. List the structure and function of the different cells and organs. A3. List the basic abnormalities that might affect the tissue in response to many diseases. A4. To identify the ability of different tissue to regenerate in response to diseased condition.	

B- Intellectual Skills	B1. Interpret histological changes in diseases compared to the normal histology
C- Professional and Practical Skills	C1. Teamwork, practicing and participation in scientific activities. C2. Master the basic and modern medical skills in the area of specialty. C3. Examine histological slides and identify the structure of different cells and organs.
D- General and transferable Skills	D1. Practice in groups, as a leader or as a colleague. D2. Use the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D3. Play role in the medical progress by having advanced medical information. D4. Be aware about the presentation skills through the attendance and participation in scientific activities.

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Introduction	1	-	1
Connective tissue	1	2	3
Stem cells	1	2	3
Epithelium	1	2	3
Cartilage	1	2	3
Bone	1	2	3
Blood	1	2	3
Muscular tissue	1	2	3
Nervous tissue	1	2	3
Cardiovascular system	1	2	3
Lymphatic system	1	2	3
Total			31

5- Teaching and Learning Methods	-Lectures & discussions. -Assignments -Attending and participating in scientific conferences and work shops to acquire the general and transferable skills needed
6- Teaching and Learning Methods for students with limited Capacity	---
7- Student Assessment	
A. Student Assessment Methods	<ul style="list-style-type: none"> ▪ Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. ▪ Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: one written exam by the end of the course. Assessment 2: Oral exam, after the written exam. Formative only assessment: simple research assignment, log book, slide box.
C. Weighting of Each Method of Assessment	Written examination: 20 (40%) Oral examination: 30 (60%) Total: 50 (100%)
8- List of References	
A. Course Notes/handouts	Notes of department and practical note book
B. Essential Books	1- Basic histology, Junqueira et al. 2- Bloom and fawcett: Cnscise Histology. Fawcett., 3- Cell biology and histology. Gartner et al.
C. Recommended Text Books	-Functional histology: A text and color Atlas, wheather et al. - Human Histology, Stevens and Lowe.

D. Periodicals, websites	<p>Web Sites: To be determined and update during the course work.</p> <ol style="list-style-type: none"> 1- http://www.histology-world.com. 2- http://histo.life.illinois.edu/histo/atlas/slides.php <p>Periodicals:</p> <ol style="list-style-type: none"> 1- Cytology and histology 2- Egyptian J of Histology 3- Egyptian J of Anatomy 4- Acta Anatomica 5- International J of Experimental Research 6- Cell and Tissue Research

Course Coordinator/s:

Assistant Prof. Soha Abdel Kawy

Assistant lecturer : Rasha Mohamed

Head of Department: Prof. Dr. Seham Abd El Raouf Abd El Aleem

Seham Abd El-Raouf Abd El-Aleem

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

نموذج رقم 11أ)

جامعة/أكاديمية
كلية / معهد
قسم

مسمى المقرر	
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. Professional & Practical skills			D. General & Transferable Skills			
		A1	A2	A3	A4	B1		C1	C2	C3	D1	D2	D3	D4
Introduction		*												
Connective tissue		*	*	*	*	*		*	*	*	*	*	*	*
Stem cells		*	*	*	*	*		*	*	*	*	*	*	*

Epithelium		*	*	*	*	*	*	*	*	*	*	*	*
Cartilage		*	*	*	*	*	*	*	*	*	*	*	*
Bone		*	*	*	*	*	*	*	*	*	*	*	*
Blood		*	*	*	*	*	*	*	*	*	*	*	*
Muscular tissue		*	*	*	*	*	*	*	*	*	*	*	*
Nervous tissue		*	*	*	*	*	*	*	*	*	*	*	*
Cardiovascular system		*	*	*	*	*	*	*	*	*	*	*	*
Lymphatic system		*	*	*	*	*	*	*	*	*	*	*	*

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

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

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

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

Blueprint of Plastic surgery MSC (Histology Examination Paper)

20 Mark

	Topics	H O U R S	Know ledge %	Intel lectu al %	% of topi cs	Mar k	Actu al mar k
1	Introduction	1	100	0	3.2	0.4	zero
2	Connective tissue	3	70	30	9.67	1.9	2
3	Stem cells	3	70	30	9.67	1.9	2
4	Epithelium	3	70	30	9.67	1.9	2
5	Cartilage	3	70	30	9.67	1.9	2
6	Bone	3	80	20	9.67	1.9	2
7	Blood	3	80	20	9.67	1.9	2
8	Muscular tissue	3	100	0	9.67	1.9	2
9	Nervous tissue	3	70	30	9.67	1.9	2
10	Cardiovascular system	3	80	20	9.67	1.9	2
11	Lymphatic system	3	80	20	9.67	1.9	2
	Total	31			100 %		20

Course Specifications of Physiology for master's degree (1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Medical Physiology Department.

1- Course Information			
<ul style="list-style-type: none"> Academic Year/level: Master's Degree (1st part) in Plastic Surgery (PS200) 	<ul style="list-style-type: none"> Course Title: Physiology 	•	<ul style="list-style-type: none"> Code: -
•	<ul style="list-style-type: none"> Number of teaching hours: 33 - Lectures: 22 hours/ week - Tutorial/ Practical: Total of 11 hours 		
2- Overall Aims of the course			The aim of the course is to provide the po students with knowledge about the physiological underlying Plastic surgery that aid in interpr symptoms, investigations and management.
3-	4- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding			A1. Discuss the Physiology of Hematologic (Blood): 1.1. General constituents of blood & their 1.2. Blood defensive function. 1.2. Clinical conditions resulting from abnor blood components. A2. Describe the Physiology of Central Nervo (CNS): 2.1. Pain sensation; types, mechanism, body rea control mechanisms. 2.2. Upper versus Lower Motor Neuron Lesions. 2.3. Sensory areas and sensory control of body fu 2.4. Motor control of body functions. A3. Identify the Physiological basis of R System: 3.1. Control of respiration. 3.2. Hypoxia and cyanosis. A4. Describe the Physiological basis of Card System (CVS): 4.1. Arterial blood pressure (ABP).

		<p>4.2. Hemorrhage & Shock</p> <p>A5. Physiological basis of General Metabolism:</p> <p>5.1. Functions of skin and Types of sweat glands</p> <p>5.2. Functions of skin and Types of sweat glands</p> <p>5.3. Regulation of body temperature.</p> <p>5.4. Disorders of body temperature.</p> <p>A6 Acid base balance</p>
B- Intellectual Skills		<p>B1. Develop the skills for demonstrating different functions of the body systems related to Plastic surgery to detect deviation from normality as detected disease state.</p> <p>B2. Assess the problems associated with different diseases which affect the normal function of different body systems related to Plastic surgery.</p>
C- Professional and Practical Skills		Practical hours: -
D- General and transferable Skills		<p>D1. Adopt the principles of lifelong learning.</p> <p>D2. Prepare and present clearly and effectively a topic in a tutorial, a staff meeting or the yearly day.</p> <p>D3. Work efficiently within a team, honor and respect colleagues.</p>
5-	6- Course Contents	

Topic:		No. of Lectures	Practical/clinical.	Total no. of hours
<u>A1. Physiology of Blood:</u>				
<ul style="list-style-type: none"> General constituents of blood & their functions. Clinical conditions resulting from abnormalities of blood components. 		4	2	6
<u>A2. Physiology of Central Nervous System (CNS):</u>		4	2	6
<ul style="list-style-type: none"> Pain sensation; types, mechanism, body reactions & control. Upper versus Lower Motor Neuron Lesions. 				
<u>A3. Physiological basis of Respiratory System:</u>		4	2	6
<ul style="list-style-type: none"> Control of respiration, hypoxia and cyanosis. 				
<u>A4. Physiological basis of Cardiovascular System (CVS):</u>		4	2	6
<ul style="list-style-type: none"> Arterial blood pressure (ABP); Hemorrhage & Shock 				
<u>A5. Physiological basis of General Metabolism:</u>		4	2	6
<ul style="list-style-type: none"> Functions of skin and Types of sweat glands. Regulation of body temperature and disorders of body temperature. 				
<u>A6. Acid base balance</u>		2	1	3
Total				33
7- Teaching and Learning Methods	1.	2. Lectures (2hr/wk.) throughout the academic year interchangeable with recorded lectures. 3. Self-learning activities such as use of internet multimedia.		
8- Teaching and Learning Methods for students with limited Capacity		---		

9-	10- Student Assessment	
A. Student Assessment Methods		<ul style="list-style-type: none"> ▪ Written exam to assess the student's knowledge form of short essay questions and /or MCQs. ▪ Oral exam to assess student's knowledge, in and general skills as well as assessing the verbal communication abilities. ▪ Log book.
B. Assessment Schedule (Timing of Each Method of Assessment)		<ul style="list-style-type: none"> • Assessment 1: Final written exam. • Assessment 2: Final oral exam
C. Weighting of Each Method of Assessment		Written examination: 16 (40%) Oral examination: 24 (60%) Total: 40 (100%)
11-	12- List of References	
A. Course Notes/handouts		Department books and notes. Prepared by Medical Physiology Department members, Faculty of Medicine, Minia University.
B. Essential Books		Ganong review of medical physiology. Guyton text book of medical physiology.
C. Recommended Text Books		
D. Periodicals, websites		

Course Coordinator/s:

Dr. Abdelaleem Abdelnour

Head of Department:

Prof. Dr. Merhan Mamdouh Rag *Merhan M. Ragy*

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

نموذج رقم (11أ)

جامعة/الأكاديمية
للإدارة / معهد
إسم

مسمى المقرر	
كود المقرر	

A. Matrix of Coverage of Course ILOs By Contents

Contents	Intended Learning Outcomes ILOs																								
	A. Knowledge & Understanding																				B. Intellectual skills		D. General & Transferable Skills		
	A 1 1	A 1. 2	A 1. 3	A 1. 4	A 2. 1	A 2. 2	A 3. 1	A 4. 1	A 5. 1	A 6. 1	A 7. 1	A 7. 2	A 7. 3	A 7. 4	A 7. 5	A 7. 6	A 8. 1	A 8. 2	A 8. 3	A 8. 4	B 1	B 2	D 1	D 2	D 3
1. Physiology of Blood	X	X	X	X																	X	X	X	X	X
2. Autonomic Nervous System					X	X															X	X	X	X	X
3. Central Nervous System							X														X	X	X	X	X
4. Cardiovascular System								X													X	X	X	X	X
5. Physiology of Metabolism									X												X	X	X	X	X
6. Respiratory System										X											X	X	X	X	X
7. Gastrointestinal (GIT) System											X	X	X	X	X	X					X	X	X	X	X

8.Endocrine System																	X	X	X	X	X		X	X		X	X
---------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	---	---	---	--	---	---	--	---	---

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

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

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	*	*		
Oral Exam	*	*		*
Log book	*	*		*

Blueprint of Plastic surgery MSC (Physiology Examination Paper)

16 Mark

	Topics	H O U R S	Know ledge %	Intel lectu al %	% of topi cs	Mar k	Actu al mar k
1	Physiology of Blood	6	100	0	18.2	2.9	3
2	Physiology of Central Nervous System	6	70	30	18.2	2.9	3
3	Physiological basis of Respiratory System	6	70	30	18.2	2.9	2.5
4	Physiological basis of Cardiovascular System (CVS)	6	70	30	18.2	2.9	3
5	Physiological basis of General Metabolism	6	70	30	18.2	2.9	3
6	Acid base balance	3	80	20	9.09	1.4	1.5
	Total	33			100 %		16

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

University: Minia

Faculty: Medicine

Department: Medical Biochemistry

Last date of approval 3\2023

1. Course Information		
Academic Year/level: First Part of Master Degree	Course Title: First Part of Master Degree in Plastic Surgery	Code:
Number of teaching hours: Lectures: 30 hours; 1.5 hours/week Practical :16 hours: 2 hours/ 2 week		
2. Overall Aims of the course	<i>By the end of the course the student must be able to:</i> <ol style="list-style-type: none"> 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-To understand all molecular basics and diseases. 3-To know different molecular techniques and their advanced applications. 4-To better understand and use the research tools including internet and differentlaboratory equipment. 5-To know retrieving the literature and understanding the evidence-basedmedicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and 	

	abilities.
3. Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>	
A- Knowledge and Understanding	<p>The student finishes the course; he will be able to achieve the following objectives:</p> <p>A1. Illustrate various metabolic processes of carbohydrate, lipid and protein</p> <p>A2. Describe role of minerals and hormones and Vitamins in metabolism.</p> <p>A3. Interpret Various metabolic diseases and their diagnosis</p> <p>A4. List the role of enzymes in the chemical reactions in the body and its diagnostic importance.</p> <p>A5. Discuss types of gene therapy and its therapeutic effect.</p> <p>A.6. Describe the metabolism of hemoglobin and nucleic acids.</p> <p>A.7- Explain xenobiotics and their detoxification.</p> <p>A8- Explain principles, methodologies, tools and ethics of scientific research.</p>
B- Intellectual Skills	<p>B1-Develop the skills for analysis of different diseases to reach a final diagnosis.</p> <p>B2-Develop the ability to solve problems associated with metabolic diseases.</p> <p>B3-Develop the ability to integrate metabolic pathways with diseases.</p>
C- Professional and Practical	<p>After completing the course, the student should be able to</p>

Skills	<p>C1. Organize groups, as a leader or as a colleague.</p> <p>C2. Practice willingly the presentation skills through the attendance and participation in scientific activities.</p>
D- General and transferable Skills	<p>After completing the course, the student should be able to</p> <p>D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning).</p> <p>D2. Prepare for medical progress by having advanced medical research studies</p>

4- Course Contents

Topic	Lecture (hours)	Practical/Clinical (hours)	Total No. of hours
1. Carbohydrate Metabolism	6	4	10
2. Lipid metabolism	6	2	8
3. Protein metabolism	3	2	5
4. Purines and pyrimidine Metabolism	1.5	---	1.5
5. Enzymes	1.5	2	3.5
6. Minerals	3	---	3
7. Hormones	1.5	2	3.5
8. Vitamins	3	---	3
9. Gene therapy	1.5	2	3.5
10.Xenobiotics	1.5	---	1.5

11.Hemoglobin metabolism	1.5	2	3.5
Total	30	16	46
5-Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed		
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity		
7- Student Assessment			
A-Student Assessment Methods	1- Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. 2- Oral exam to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course		
B-Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: one written exam by the end of the course Assessment 2: Oral exam, after the written exam Formative only assessment: log book.		
C-Weighting of Each Method of Assessment	Written examination: 8 marks Oral examination: 12 marks Total: 20 marks		
8- List of References			
A-Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.		
B-Essential Books	-Harper's Biochemistry, Robert K. Murray, Daryl K. Granner, PeterA.Mayes, and VictorW.		

	Rodwell (32th edition, 2022)
C- Recommended Text Books	Lubert Stryer, Biochemistry (9 th edition, 2019) Lehninger, Biochemistry (8th edition, 2021) Lippincott, Biochemistry (7th edition, 2017)
D-Periodicals, websites	To be determined and updated during the course work. Websites: 1- http://www.Medical Biochemistry.com . Periodicals: 1- International journal of biochemistry 2- Science Direct

Course Coordinator/s:

Dr. Ahmed Mohamed, Dr. Heba Marey

Head of Department:

Prof. Dr. Salama Rabie Abd El Rahiem



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

مسمى المقرر	جزء اول ماجستير جراحة التجميل
كود المقرر	

جامعة/أكاديمية : ..المنيا
كلية / معهد: الطب.....
قسم : الكيمياء الحيوية

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
1. Carbohydrate Metabolism	1	A1 A3 A4	B3	C2	

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

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

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

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 A2 A3 A4 A5 A6 A7 A8	B1 B2 B3		
Oral Exam	A1 A2 A3 A4 A5 A6 A7	B2 B3	C1 C2	
Assignment				D1 D2
Other/s(Specify)		B1 B2	C2	D2

Blueprint of Medical Biochemistry Department

Blueprint of Examination Paper (8 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	No of items per topic	Knowledge		Intellectual		Marks	Actual mark
							No of Items	Mark	No of Items	Mark		
1	Carbohydrate metabolism	6	70	30	20	2	1	0.8	1	0.8	1.6	1.5
2	Lipid metabolism	6	75	25	20	2	1	0.8	1	0.8	1.6	1.5
3	Protein metabolism	3	75	25	10	2	1	0.4	1	0.4	0.8	1
4	Purine and pyrimidine metabolism	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
5	Enzymes	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
6	vitamins	3	80	20	10	2	1	0.4	1	0.4	0.8	0.5
7	Hormone	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
8	Minerals	3	75	25	10	2	1	0.4	1	0.4	0.8	0.5
9	Xenobiotic	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
10	Gene Therapy	1.5	75	25	5	2	1	0.2	1	0.2	0.4	0.5
11	Hemoglobin metabolism	1.5	70	30	5	2	1	0.2	1	0.2	0.4	0.5
	Total	30			100 %						8	8

Course Specifications of Pathology for master's degree (1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Pathology

1- Course Information	
<ul style="list-style-type: none"> Academic Year/level: Master's Degree (1st part) in Plastic Surgery (PS200) 	<ul style="list-style-type: none"> Course Title: Pathology
<ul style="list-style-type: none"> Code: - 	
<ul style="list-style-type: none"> Number of teaching hours: 36 <ul style="list-style-type: none"> Lectures: Total of 32hours; 2 hour /week Practical/clinical: Total of 4 hours 	
2- Overall Aims of the course	<p>By the end of the course the student must be able to:</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 correlate such information with the relevant provided clinical data. 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.
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>	
A- Knowledge and Understanding	A1. Outline the basics of general pathology in areas of inflammation, bacterial infection, granuloma, repair, cell injury, circulatory disturbances, cellular adaptations and

	<p>neoplasia.</p> <p>A2. 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 lymphopoietic, , skin and breast.</p> <p>A3. Outline the principles of immunohistochemistry and the recent advances in molecular techniques.</p> <p>A4. Identify the basic medico-legal principles that should be applied during the practice of pathology and autopsy.</p> <p>A5. Outline the standards of quality assurance to ensure good practice as a profession.</p>
B- Intellectual Skills	<p>B1. Interpret a pathology report and integrate the gross and microscopic features of surgical specimens with available clinical data to solve a problem 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 situations like handling and processing of specimens as well as during performing different essential laboratory techniques.</p>
C- Professional and Practical Skills	<p>C1. Demonstrate competency on dealing with different types of tissue samples regarding proper handling, preservation and processing and select the suitable preservatives with stickiness to quality & safety procedures.</p> <p>C2. Master writing pathology request by reporting all details regarding gross features of different surgical specimens and supply necessary clinical information.</p> <p>C3. Apply relevant issues related to safety & quality standards and ensure keeping available resources while dealing with biopsies and surgical specimens and all essential materials and equipment.</p>
D- 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>D2 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>D3 Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education</p>

	D4 Demonstrate the skills of effective time management.		
4- Course Contents			
Topic	Lecture 2 hours/week	Practical/Clinical 2hours/week	Total No. of hours hours/week
GENERAL & Systemic PATHOLOGY			
Cell injury and cell death	2	-	2
Inflammation	2	2	4
Bacterial infection	2	2	4
Immunopathology	2	-	2
Granulomas	2	-	2
Repair	2	-	2
Circulatory disturbances	2	-	2
Disturbances of cell growth and adaptation	2	-	2
Neoplasia	2	-	2
Lymphopoietic system	2	-	2
Diseases of the Oral Cavity and Salivary Glands	4	-	4
Soft Tissue Tumors	2	-	2
Diseases of the breast	4	-	4
Skin tumors and Pigmented Skin Lesions	2	-	2
Total	32	4	36
5- 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) Journal club, Case presentation, Seminars.		
6- Teaching and Learning Methods for students with limited Capacity	Not applicable		

7- Student Assessment	
A. Student Assessment Methods	<ul style="list-style-type: none"> Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
B. Assessment Schedule (Timing of Each Method of Assessment)	<p>Assessment 1: one written exam by the end of the course.</p> <p>Assessment 2: Oral exam, after the written exam.</p> <p>Formative only assessment: simple research assignment, log book, slide box.</p>
C. Weighting of Each Method of Assessment	<p>Written examination: 20 (40%)</p> <p>Oral examination: 30 (60%)</p> <p>Total: 50 (100%)</p>
8- List of References	
A. Course Notes/handouts	1- General pathology course notes prepared by the department staff and Lectures' Handouts & printed material of recorded ones.
B. Essential Books	1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017). Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017) .
C. Recommended Text Books	1- Liang Jing & David Bostwick. Essentials of anatomic pathology (2011). Diana W Molavi. The practice of surgical pathology; A beginners guide to the diagnostic process (2008).
D. Periodicals, websites	<p>To be determined and updated during the course :-</p> <ol style="list-style-type: none"> 1- American Journal of pathology 2- The Journal of pathology 3- Diagnostic Histopathology 4- Cancer 5- www.pubmed.com

	6- www.pathmax.com
--	---

Course Coordinator/s:

- **Assistant Prof. Dr. Manal Ismail Abd-Elghany**

Head of Department:

Prof. Dr. Heba Mohamed Tawfik.



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

نموذج رقم 11أ)

جامعة/الأكاديمية
للإدارة / معهد
نظم

مسمى المقرر	
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. Professional & Practical skills			D. General & Transferable Skills			
		A1	A2	A3	A4	A5	B1	B2	C1	C2	C3	D1	D2	D3	D4
Cell injury and cell death		*				*	*	*			*	*			
Inflammation		*				*	*	*			*	*			
Bacterial infection		*				*	*	*			*	*			
Immunopathology		*				*	*	*			*	*			
Granulomas		*				*	*	*			*	*			
Repair		*				*	*	*			*	*			

Circulatory disturbances		*				*	*	*			*	*			
Disturbances of cell growth and adaptation		*				*	*	*			*	*			
Neoplasia		*				*	*	*			*	*			
Lymphopoietic system			*			*	*	*			*	*			
Diseases of the Oral Cavity and Salivary Glands		*				*			*	*	*			*	*
Soft Tissue Tumors			*	*			*	*	*			*	*	*	
Diseases of the breast			*			*	*	*			*	*			
Skin tumors and Pigmented Skin Lesions						*			*	*	*			*	*

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1:A5	B1,B2		
Practical	A3, A4, A5	B1,B2	C1:C3	
Presentation/seminar	A1: A5	B1,B2		D1:D4
Journal club	A1: A5	B1,B2		D1:D4

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1:A5	B,B2		
Oral Exam	A1:A5	B1,B2	C1:C3	D1:D4
Logbook	A1:A5	B1,B2	C1:C3	D1:D4

Blueprint of Plastic surgery MSC (Pathology Examination Paper)

20 Mark

	Topics	H O U R S	Know ledge %	Intel lectu al %	% of topi cs	Mar k	Actu al mar k
1	Cell injury and cell death	2	100	0	5.5	1.1	1
2	Inflammation	4	70	30	11.1	2.2	2
3	Bacterial infection	4	70	30	11.1	2.2	2
4	Immunopathology	2	70	30	5.5	1.1	1
5	Granulomas	2	70	30	5.5	1.1	1
6	Repair	2	80	20	5.5	1.1	1.5
7	Circulatory disturbances	2	80	20	5.5	1.1	1
8	Disturbances of cell growth and adaptation	2	100	0	5.5	1.1	1
9	Neoplasia	2	70	30	5.5	1.1	1.5
10	Lymphopoietic system	2	70	30	5.5	1.1	1
11	Diseases of the Oral Cavity and Salivary Glands	4	70	30	11.1	2.2	2
12	Soft Tissue Tumors	2	70	30	5.5	1.1	1.5
13	Diseases of the breast	4	80	20	11.1	2.2	2
14	Skin tumors and Pigmented Skin Lesions	2	80	20	5.5	1.1	1.5
	Total	36			100 %		20

Course Specifications of microbiology for master's degree (1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Medical Microbiology and Immunology

1- Course Information	
<ul style="list-style-type: none"> Academic Year/level: Master's Degree (1st part) in Plastic Surgery (PS200) 	<ul style="list-style-type: none"> Course Title: Microbiology
<ul style="list-style-type: none"> Code: 	
<ul style="list-style-type: none"> Number of teaching hours: 40 <ul style="list-style-type: none"> Lectures: Total of 35 hours; 2 hours /week Practical/clinical: Total of 5 hours 	
2- Overall Aims of the course	<p>By the end of the course the student must be able to:</p> <ol style="list-style-type: none"> 1. Know the different types of pathogens, their structure and pathogenesis 2. Know the different methods for laboratory diagnosis and control of different infectious agents. 3. Know the different molecular microbiological techniques and their applications. 4. Know the basics of the host-parasite relationships and the role of the immune system in defending the body against different pathogens and its role in health and disease. 5. Know the principles of biosafety measures and aseptic precautions.
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>	
A- Knowledge and Understanding	<p>A1. Know microbial morphology, structure, metabolism and physiology of medically significant microorganisms</p> <p>A2. Understand the basis of microbial genetics and biotechnology techniques and their applications.</p> <p>A3. Recognize the taxonomy and classification of different microorganisms.</p> <p>A4. Identify the natural habitat, source of infection and mode of transmission of the different classes of pathogens</p>

	<p>causing postoperative infections.</p> <p>A5. Identify the different levels of host-parasite relationship and recognize the microbial virulence factors</p> <p>A6. Recognize the role of the immune system in the health and disease of the human being.</p> <p>A7. Know the causes, sources, mode of transmission and treatment of nosocomial infections and know the different methods for infection control in operative rooms.</p>		
B- Intellectual Skills	<p>B1. analyze of different cases of infection to reach a final diagnosis and microbiological identification of the causative organism</p> <p>B2. Develop the ability to solve problems associated with different infections such as microbial resistance to antimicrobial agents, reach a final diagnosis of a certain pathological condition caused by an infectious organism.</p>		
C- Professional and Practical Skills	<p>C1. Apply professional applications such as managing a microbiology laboratory.</p> <p>C2. Identify different microbes at microbiology laboratory using basic techniques</p> <p>C3. Apply standards of infection control</p> <p>C4. Apply standard protocol in collection of pathological samples</p>		
D- General and transferable Skills	<p>D1. Manipulate microbiological samples and reach a microbiological diagnosis of an infection.</p> <p>D1. Write protocols for identification of a given microorganism.</p> <p>D3. Communicate with colleagues and patients regarding a case caused by a microorganism.</p> <p>D4. Work in/with different groups.</p> <p>D5. Manage a microbiological laboratory.</p>		
4- Course Contents			
Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
1. Introduction and collection of pathological samples		1	1
2. Cleaning, sterilization and disinfection		1	1
3. Antimicrobial chemotherapy	2	1	3
4. Bacteremia, toxemia and toxic shock	2		2
5. Fever	2		2

6. pseudomonas			1	1
7. Basic immunology 1		2		2
8. Basic immunology 2		2		2
9. Hypersensitivity reactions		2		2
10. Staphylococci		2		2
11. Mycobacterial infections		2		2
12. Streptococci		2		2
13. General virology		2		2
14. Viral Hepatitis		2		2
15. Human immunodeficiency		2		2
16. wound infection		3		3
17.gas gangrene		2		2
18. Blood-transmitted diseases		2		2
19. Nosocomial infections		2		2
20. Infection control and Occupational safety		2	1	3
Total				40
5- Teaching and Learning Methods	Lectures			
	Practical sessions			
	Seminars			
6- Teaching and Learning Methods for students with limited Capacity	Self-learning activities such as use of internet and multimedia.			
7- Student Assessment				
A. Student Assessment Methods	End of course written exam: A paper based exam to assess the student’s comprehension and understanding of the class work Oral exam: to assess student’s intellectual and communication abilities regarding basic knowledge and understanding of the course topics.			
B. Assessment Schedule (Timing of Each Method of Assessment)	End of course exam (written, oral exams)			

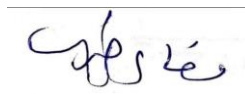
C. Weighting of Each Method of Assessment	Written examination: 20 (40%) Oral examination: 30 (60%) Total: 50 (100%)
8- List of References	
A. Course Notes/handouts	Department Books, and notes on Medical Microbiology and Immunology by microbiology department, Faculty of medicine, Minia university
B. Essential Books	Jawetz, Melnick and Adelberg's Medical Microbiology 17th edition by Riedel. S (2019); McGraw-Hill Education Review of Medical Microbiology and Immunology 17th edition by warren levinson (2022); McGraw-Hill Education
C. Recommended Text Books	Janeway's Immunobiology 9 th edition by Kenneth Murphy and Casey Weaver, (2016); Garland Publishing Inc. NY, London.
D. Periodicals, websites	TBD and updated during the course work

Course Coordinator/s:

Dr. Dalia Nabil

Head of Department:

Prof. Dr. Wafaa Khairy



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

نموذج رقم 11أ)

جامعة/الأكاديمية
للإدارة / معهد
لإسم

مسمى المقرر	
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. Professional & Practical skills				D. General & Transferable Skills				
		A1	A2	A3	A4	A5	A6	A7	B1	B2	C1	C2	C3	C4	D1	D2	D3	D4	D5
1. Introduction and collection of pathological samples				*		*		*	*		*		*					*	*
2. Cleaning, sterilization and disinfection				*		*	*		*		*	*			*		*		
3. Antimicrobial chemotherapy																			

Page 5

4. Bacteremia, toxemia and toxic shock		*				*		*	*	*	*	*			*	*	*		
5. Fever		*							*		*				*		*		*
6. pseudomonas		*							*		*	*			*			*	
7. Basic immunology 1				*				*	*		*			*			*		
8. Basic immunology 2		*	*		*				*		*			*	*		*	*	
9. Hypersensitivity reactions				*	*	*			*	*		*			*				
10. Staphylococci		*					*	*	*		*			*	*		*	*	
11. Mycobacterial infections		*							*		*				*		*		*
12. Streptococci				*	*				*		*								*
13. General virology				*	*				*		*	*					*		
14. Viral Hepatitis		*		*					*	*	*			*	*		*		

15. Human immunodeficiency						*	*		*		*		*		*		*	*	
16. wound infection		*							*		*				*		*		*
17.gas gangrene		*							*		*				*		*		*
18. Blood-transmitted diseases		*	*		*		*		*		*			*			*		*
19. Nosocomial infections			*						*		*	*		*				*	*
20. Infection control and Occupational safety		*	*	*					*		*			*				*	

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical Skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1 : A7	B1 & B2		
Practical			C1 : C4	D1 & D2 &D5
Presentation/seminar				D3 & D4

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 : A7	B1 & B2		
Oral Exam				D2: D5

Blueprint of Medical Microbiology and Immunology Exam paper for 1st part of Master of Plastic surgery (PS200)
(20 marks)

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

Course Specifications of Pharmacology for master's degree (1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Pharmacology

1- Course Information		
<ul style="list-style-type: none">Academic Year/level: Master's Degree (1st part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">Course Title: Pharmacology	<ul style="list-style-type: none">Code: -
<ul style="list-style-type: none">Number of teaching hours: 33<ul style="list-style-type: none">Lectures: Total of 30 hours; 2 hour /weekPractical/clinical: Total of 3 hours		
2- Overall Aims of the course	By the end of the course the student must be able to: 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2- To understand all molecular basics and diseases. 3- To detect different molecular techniques and their advanced applications. 4- To better understand and use the research tools including internet and different laboratory equipment. 5- To know retrieving the literature and understanding the evidence-based medicine 6- Maintain learning abilities necessary for continuous medical education.	

	7-Maintain research interest and abilities.
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>	
A- Knowledge and Understanding	<p>A1. Mention the basic biochemical and physiological activities, their disturbances and how to be corrected.</p> <p>A2. Define general pharmacokinetics as well specific properties of different groups of drugs putting into consideration age, sex and genetic-related variations that affect the response to drugs (pharmacogenetics).</p> <p>A3. Recall general pharmacodynamics as well specific properties of different groups of drugs that include the drug's mechanism of action and pharmacological effects.</p> <p>A4. List pharmacotherapeutics which reflects the role of drugs in prevention, diagnosis and treatment of diseases as well as prevention of conception. It includes also pathopharmacology of diseases and drugs, indications, contraindications, adverse reactions and drug interactions especially in high risk groups (extremes of age, pregnancy and lactation, liver kidney and cardiac diseases). Pharmacoeconomics is included in this category.</p> <p>A5. Memorize Systemic pharmacology which includes drugs acting on different body systems such as cardiovascular, autonomic, respiratory, gastrointestinal, endocrine, blood ,.....</p> <p>A6. know the basic, and ethics of scientific research.</p> <p>A7 List the principles of quality in professional practice in the field of therapeutics and applied pharmacology.</p>
B- Intellectual Skills	<p>B.1 Make the skills in selecting and using drugs safely and efficiently knowing their limits and the potential risks</p> <p>B.2 Develop the ability to solve medical problems arising from use of drugs and the development of resistance or tolerance encouraging them to search for alternative approaches after revising the diagnosis.</p> <p>B.3 Demonstrate an investigatory and analytic thinking “problem-solving” approaches to relevant situations related to Medical Pharmacology.</p> <p>B.4 Design management plans and alternative decisions in different situations in the field of Pharmacology.</p>

C- Professional and Practical Skills	C.1 Practice different skills of research including how to retrieve the literature and use the different laboratory equipment such as centrifuge, homogenizer, spectrophotometer and Ph meter.		
	C.2 Evaluate the need of his/her career to join the major advances in drug information		
	C.3 Perform the basic lab skills essential to the course.		
	C.4 Prepare plans for performing experiments related to pharmacology.		
D- General and transferable Skills	D1- Perform practice-based improvement activities using a systemic methodology (share in audits and risk management activities and use logbooks).		
	D2- Collect and verify data from different sources.		
	D3- Analyze and interpret data.		
	D4-Appraise evidence from scientific studies.		
	D5- Use information technology to manage information, access on-line medical researches to support his/her own education.		
4- Course Contents			
Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Pharmacokinetic variables	3	-	3
Drug interaction and adverse drug reaction	3	-	3
Anti microbials	7	2	9
Corticosteroids	3	-	3
Analgesics and Nonsteroidal anti-inflammatory drugs	5	1	6
local anesthetic drugs	3	-	3
Sedative hypnotic drugs	3	-	3
Anti coagulants	3	-	3
Total			33
5- Teaching and Learning Methods	-Lectures & discussions.		
	-Assignments		
	-Attending and participating in scientific conferences and work shops to acquire the general and transferable skills needed		

6- Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity
7- Student Assessment	
A. Student Assessment Methods	<ul style="list-style-type: none"> ▪ Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course. ▪ Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: one written exam by the end of the course. Assessment 2: Oral exam, after the written exam. Formative only assessment: log book .
C. Weighting of Each Method of Assessment	Written examination: 16 (40%) Oral examination: 24 (60%) Total: 40 (100%)
8- List of References	
A. Course Notes/handouts	Lecture notes prepared by the staff members in the department.
B. Essential Books	Principles of pharmacology the pathophysiologic basis of drug Therapy
C. Recommended Text Books	- Goodman & Gilman - Katzung
D. Periodicals, websites	Pharmacological Reviews - Journal of Pharmacology and Experimental therapeutics - British journal of pharmacology - European journal of pharmacology - Pharmacological research http://www.ncbi.nlm.nih.gov/pubmed/

Course Coordinator/s:

Dr. Ass. Prof. Dr. Seham Abdelwakeel

Head of Department:

Professor Dr. Mohamed Abdellah Ibrahim



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

نموذج رقم 11أ)

جامعة / أكاديمية
كلية / معهد
قسم

مسمى المقرر	
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. Professional & Practical skills				D. General & Transferable Skills				
		A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4	D5
Pharmacokinetic variables		*			*				*			*									
Drug interaction and adverse drug reaction			*				*				*		*		*						
Anti microbials		*	*						*	*				*					*		
Corticosteroids				*				*			*	*	*			*					
Analgesics and Nonsteroidal anti-inflammatory drugs		*	*		*	*		*		*		*				*	*		*		*

local anesthetic drugs			*				*		*		*			*	*			*		*	
Sedative hypnotic drugs		*		*					*			*		*							
Anti coagulants			*			*		*		*		*		*		*					*

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	*	*		
Practical	*	*	*	*
Presentation/seminar	*	*	*	
Journal club	*	*		
Thesis discussion		*	*	*
Training courses & workshops		*	*	*

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	*	*		
Oral exam	*	*	*	*
Practical Exam	*	*	*	

Blueprint of pharmacology (Pharmacology Examination Paper)

16 Mark

	Topics	H O U R S	Knowl edge %	Intell ectua l %	% of topic s	Mar k	Actu al mark
1	Pharmacokinetic variables	3	100	0	9.09	1.4	1.5
2	Drug interaction and adverse drug reaction	3	70	30	9.09	4.2	4
3	Anti microbials	9	70	30	27.2	1.8	2
4	Corticosteroids	3	70	30	9.09	1.4	1.5
5	Analgesics and Nonsteroidal anti-inflammatory drugs	6	70	30	18.1	2.8	3
6	local anesthetic drugs	3	80	20	9.09	1.4	1.5
7	Sedative hypnotic drugs	3	80	20	9.09	1.4	1.5
8	Anti coagulants	3	100	0	9.09	1.4	1
	Total	33			100 %		16

Course Specifications of Medical Ethics for master's degree

(1st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Forensic Medicine & Clinical Toxicology Department

1- Course Information		
<ul style="list-style-type: none">• Academic Year/level: Master’s Degree (1st part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">• Course Title: Medical Ethics	<ul style="list-style-type: none">• Code: -
<ul style="list-style-type: none">• Number of teaching hours: 66<ul style="list-style-type: none">- Lectures: Total of 36 hours; 2 hours /week- Practical/clinical: Total of 18 hours 1 hour/week		
2- Overall Aims of the course	By the end of the course the student should be able to identify the value of studying and practicing medicine, the duties of doctors towards their patients, colleagues and community, the ethics in medical consultations among colleagues and also able to explain respect the patient’s confidentiality and secrets, recognize the role of health care providers in the community and describe medical errors, negligence and legal issues, ethics of medical research especially on human beings and finally able to explain ethics and evidence based medicine	
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	A.1- Identify the basic concept of learning and practicing medicine from the religious and human point of view. A.2- Identify the very beneficial impressive history of medicine; ethics related. A.3- Classify the main principles of medical ethics. A.4- Recognize an integrated approach to deal with patients, their families, community and medical staff in an ethical, legal and human manner. A.5- Identify rules in law and regulations to deal with patients in practicing medicine. A.6- Explain the standard and accredited methods of clinical research especially on human beings.	

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

4- Course Contents

Topic	Lecture hours	Practical hours	Total No. of hours
Medical Responsibility and Duties of the physician	2	1	3
Medicolegal aspect of cloning	2	1	3
Defensive Medicine	2	1	3
Diagnosis of death & Death Certificates	2	1	3
Consent in medical field	2	1	3
Medical malpractice	2	1	3
Medicolegal importance of Organ transplantation	2	1	3
Operative precautions and Diagnosis of death	2	1	3
Medical syndicate	2	1	3

Professional secrecy	2	1	3
Female circumcision	2	1	3
Physician disciplinary proceeding	2	1	3
Domestic Violence	2	1	3
Euthanasia (Mercy death)	2	1	3
Ethics in medical research	2	1	3
Medical reports	2	1	3
Rules of using addictive drugs among physicians	2	1	3
Medical certificates	2	1	3
Total	(36 hr.) 2/W	(18hr.) 1/W	(54 hr.) 3/W
5- Teaching and Learning Methods	- Straight lectures; power point presentations - Practical lessons - Brain storming with the students - Questions and Answers		
6- Teaching and Learning Methods for students with limited Capacity	(Not applicable)		
7- Student Assessment			
A. Student Assessment Methods	<u>TENDANCE CRITERIA:</u> by Faculty laws (log book) <u>ASSESSMENT TOOLS:</u> *Final Written exam: Short essay to asses knowledge and understanding Problem solving to asses intellectual skills MCQ to assess knowledge and intellectual skills *Oral exam; to asses knowledge and understanding. Also intellectual skills, attitude, and communication. *Practical exam: to assess practical and professional skills		
B. Assessment Schedule (Timing of Each Method of Assessment)	• Final Written exam week: 24-28 • Oral exam week: 24-28 Practical exam week: 24-28		
C. Weighting of Each Method of Assessment	• Final Written exam 40% (40 Marks) • Oral & Practical exams 60% (60 Marks) • Total 100% (100 Marks) Not added to the total but counted as pass if above or equal to 50% or not pass if lower than 50% .		

8- List of References	
A. Course Notes/handouts	Department book by staff members. Log Book.
B. Essential Books	Medical Ethics Manual, 2nd Edition John R. Williams, 2009. Medical Ethics, 2nd Edition, Michael Boylan, 2014.
C. Recommended Text Books	Text book of medical ethics, Erich H. Loewy, 1989
D. Periodicals, websites	Journal of Medical Ethics Journal of Medical Ethics and History of Medicine https://en.wikipedia.org/wiki/Medical_ethics https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5074007/

Course Coordinator/s:

Prof. Dr. Morid Malak Hanna

Dr. Mennatallah Mahmoud Ahmed

Head of Department:

Prof. Dr. Irene Atef Fawzy



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

نموذج رقم 11أ)

جامعة/أكاديمية
كلية / معهد
قسم

مسمى المقرر	
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. Professional & Practical skills				D. General & Transferable Skills						
		A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	D1	D2	D3	D4	D5		
Medical Responsibility and Duties of the physician		*		*						*			*					*	*					
Medicolegal aspect of cloning		*	*						*															
Defensive Medicine					*	*						*			*				*					

Physician disciplinary proceeding		*	*																			
Domestic Violence				*	*								*	*			*	*				
Euthanasia (Mercy death)		*			*		*	*														
Ethics in medical research		*				*		*	*					*		*			*			
Medical reports		*			*																	
Rules of using addictive drugs among physicians			*			*									*							
Medical certificates		*		*		*	*															

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1 : A6	B1 : B6		
Practical			C 1 :C 4	
Presentation/seminar				D 1 : D5
Journal club				
Thesis discussion				
Training courses & workshops				D 1 : D 5

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 : A6	B1 : B5		
Practical exam			C 1 :C 5	
Oral Exam	A1 : A6	B1 : B5		



Blueprint of Forensic Medicine and Clinical Toxicology Department



Blueprint of 1st master of plastic surgery Postgraduates" Medical Ethics Examination Paper (40marks)

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

7	Medical syndicate & Professional secrecy	4	80	20	11.1	1	1	4.44	---	---	4.44	5
8	Physician disciplinary proceeding & Euthanasia (Mercy death)	4	75	25	11.1	1	1	4.44	---	---	4.44	5
9	Domestic Violence	2	70	30	5.55	1	1	2.22	---	---	2.22	2
10	Ethics in medical research	2	75	25	5.55	1	1	2.22	---	---	2.22	2
11	Medical reports & Medical certificates	4	80	20	11.1	1	1	4.44	---	---	4.44	4
12	Rules of using addictive drugs among physicians	2	75	25	5.55	1	1	2.22	---	---	2.22	2
	Total	36			100%			40		40	40	40

Course Specifications of General surgery for master's degree

(2st part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- General Surgery departement

1- Course Information		
<ul style="list-style-type: none">• Academic Year/level: Master’s Degree (1st part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">• Course Title: General Surgery	<ul style="list-style-type: none">• Code: -
<ul style="list-style-type: none">• Number of teaching hours: 46<ul style="list-style-type: none">- Lectures: Total of 36 hours; 1 hour /week- Practical/clinical: Total of 10 hours		
2- Overall Aims of the course	By the end of the course the student must be able to:- 1- Deal with common surgical conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management. 2- Deal with acute surgical emergencies safely and effectively. 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization. 4- Perceive and integrate progress in surgical technology.	
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	a.1-Understand the natural history of neurological that are related to the General Surgery practice. a.2- Understand the various diagnostic and laboratory techniques necessary to establish diagnosis of various neurological problems that need surgical intervention. a.3- understand the atlas score in polytrauma patients a-4- understand the important emergent general surgery cases with relation to neurosurgery a.5- understand the basics of blood trasfusion	
B- Intellectual Skills	b.1 Integrate data acquired through history taking to reach a provisional	

	<p>diagnosis for various problems in general surgery that are related to neuro-Surgery.</p> <p>b.2- Link between knowledge of General Surgery and neurosurgery for Professional problems' solving.</p> <p>b-3- ability to manage polytrauma cases with ATLAS score</p> <p>b-4 manage and communicate with different surgical specialties in E.R.</p> <p>b-5, electrolyte imbalance and shock management</p>
C- Professional and Practical Skills	<p>c.1- Perform physical examination of patients for neurosurgical problems that are related to General Surgery.</p> <p>c-2 perform basic surgical skills in the E.R</p> <p>c-3- deal with emergent cases in different surgical specialties</p> <p>c-4 assist in neck surgeries and know its anatomy.</p>
D- General and transferable Skills	<p>d.1- Use information technology of General Surgery to serve the development of professional practice</p> <p>d2- diagnose basic and main general and vascular surgery cases that correlate with neurosurgery.</p>

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
1-General Surgical Principles & Techniques:			
- Preoperative preparation of the surgical patients	1	1	2
Postoperative complications	2	1	3
Shock	2	1	3
Acute haemorrhage and Blood transfusion	2	-	2
Hemostasis	2	-	2
Fluid and electrolyte and acid base balance	2	-	2
Surgical infections	1	1	2
Surgical nutrition	1	-	1
Principle of oncology	1	1	2
Lymphadenopathy	1	-	1
Basic surgical skills	2	1	3

2- Trauma:				
Major trauma and the multiple injury patient		2	1	3
Head trauma		2	1	3
Neck injuries		2	-	2
Chest, abdominal injuries		2	-	2
3- GIT surgery				
- Abdominal wall and hernias		3	-	3
4- Breast surgery				
Diseases of the breast		2	-	2
Benign and malignant tumors of the breast		2	-	2
5- Vascular surgery				
Acute and chronic limb ischeamia		2	1	3
Varicose veins & DVT		2	1	3
Total		36	10	46
5- Teaching and Learning Methods	5.1- Lectures 5.2- Clinical lessons 5.3- Assignment			
6- Teaching and Learning Methods for students with limited Capacity	---			
7- Student Assessment				
A. Student Assessment Methods	7.1- Research assignment: to assess general transferable skills, intellectual skills. 7.2- Written exams: • Short essay: to assess knowledge. • Problem solving: to assess general transferable skills, intellectual skills. 7.3- Clinical exams: to assess practical skills, intellectual skills. 7.4- OSCE: to assess practical skills, intellectual skills. 7.5- Oral Exams: to assess knowledge. 7.6- Structured oral exams: to assess knowledge.			

B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Clinical exam week: 24-28
C. Weighting of Each Method of Assessment	Written Examination : 80 marks (40%) Clinical / oral Examination : 120 marks (60 %) Total : 200 marks (100 %)
8- List of References	
A. Course Notes/handouts	Lectures notes prepared by staff members in the department.
B. Essential Books	Principles of General Surgery
C. Recommended Text Books	Bailey & Love textbook of Surgery
D. Periodicals, websites	International Journal of General Surgery American Journal of General Surgery

Course Coordinator/s:

DR / Yasser Ali

Head of Department:

Prof Dr / Amr Hamdy

Amr Hamdy

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

نموذج رقم 11أ)

جامعة/أكاديمية
كلية / معهد
قسم

مسمى المقرر	
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. Professional & Practical skills				D. General & Transferable Skills	
		A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	D1	D2
1-General Surgical Principles & Techniques:																	
- Preoperative preparation of the surgical patients		*		*	*		*		*	*		*		*		*	
Postoperative complications			*	*			*	*				*	*			*	*
Shock		*		*	*			*		*	*				*	*	
Acute haemorrhage and Blood transfusion		*	*	*			*	*		*				*	*		*

Hemostasis			*		*			*				*			*		
Fluid and electrolyte and acid base balance				*	*	*			*	*	*			*	*	*	*
Surgical infections		*		*			*	*				*	*				*
Surgical nutrition		*			*			*			*				*		
Principle of oncology		*		*	*		*		*	*		*		*		*	
Lymphadenopathy			*	*			*	*				*	*			*	*
Basic surgical skills		*		*	*			*		*	*				*	*	
2- Trauma:																	
Major trauma and the multiple injury patient			*		*			*				*			*		
Head trauma				*	*	*			*	*	*			*	*	*	*
Neck injuries		*		*			*	*				*	*				*
Chest, abdominal injuries		*			*			*			*				*		

3- GIT surgery																	
- Abdominal wall and hernias			*	*			*	*				*	*			*	*
Acute abdomen		*		*	*			*		*	*				*	*	
4- Breast surgery																	
Diseases of the breast			*		*			*				*			*		
Benign and malignant tumors of the breast				*	*	*			*	*	*			*	*	*	*
5- Vascular surgery																	
Acute and chronic limb ischaemia		*	*	*			*	*		*				*	*		*
Varicose veins & DVT			*		*			*				*			*		

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 1,2,3,4,5	1,2,3		
Practical			2,4	
Clinical (Including grand rounds)	1,3	4&5		
Presentation/seminar	4		1	1,2

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	1,2,3,4,5	1,4		
Practical / clinical exam		5	1,2,3,4	
Oral Exam	1,2,3,4	1,2, 4		1,2

Blueprint of Plastic surgery MSC (General surgery Examination Paper)

80 Mark

	Topics	H O U R S	Knowl edge %	Intell ectua l %	% of topics	Mark	Actu al mark
1	General Surgical Principles & Techniques	23	75	25	50	40	40
2	Trauma	10	70	30	21.7	17.36	18
3	GIT surgery	3	70	30	6.5	5.2	5
4	Breast surgery	4	80	20	8.69	6.96	7
5	Vascular surgery	6	70	30	13	10.4	10
	Total	46			100%		80

Course Specifications of Plastic surgery for master's degree

(2nd part) in Plastic Surgery

University: Minia

Faculty: Medicine

Department offering the course:

- Plastic Surgery department

1- Course Information		
<ul style="list-style-type: none">• Academic Year/level: Master’s Degree (2nd part) in Plastic Surgery (PS200)	<ul style="list-style-type: none">• Course Title: Plastic Surgery	<ul style="list-style-type: none">• Code: Ps200
<ul style="list-style-type: none">• Number of teaching hours:<ul style="list-style-type: none">- Lectures: 200 Total of hours; 3 hour /week- Practical/clinical: Total of hours 12 h/week		
2- Overall Aims of the course	The plastic surgery curriculum (goals and objectives) is provided to candidate and attendings for education and assessment. The curriculum not only is an educational tool, but a guide for assessment. Candidate should utilize the curriculum to direct independent study and self-assessment. Attending should utilize the curriculum to direct candidate teaching and assessment. The curriculum is the tie between education and assessment.	
3- Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	<ol style="list-style-type: none">1. Understand normal and abnormal wound healing and Identify the pharmacologic agents and other nonsurgical methods for treatment of abnormal healing.2. Describe the management of dressings, splints and other techniques utilized in wound management.3. -Draw and plan techniques of scar revision (such as Z-plasty and W-plasty).4. -Describe the various lines of the skin (such as relaxed skin tension) and their importance in placement of incisions for maximum aesthetic result.5. -Discuss the terminology of flap movement including advancement flap, rotation flap, transposition of flap, etc.6. -Explain in detail the specific physiology of split and full thickness skin grafts, dermal grafts, cartilage grafts, bone	

	<p>grafts, tendon grafts, nerve grafts, fascial grafts, and composite grafts.</p> <p>7. -Explain the use of the operating microscope and the technical aspects of microvascular anastomosis (artery and vein) and microneural repair.</p> <p>8. -List the terms and types of free tissue flaps – skin, skin/muscle, skin/muscle/bone, skin/tendon, muscle alone.</p> <p>9. -Explain the principles of repair of nerve injury including need for nerve grafting, the anatomy of nerve graft donor sites, and the physiology, timing and techniques of primary, delayed primary and late nerve repair.</p> <p>10. -Discuss the technical aspects of microsurgery including; microscopes – principles, usage, sutures – types, indications, microvascular coupling devices, suturing techniques.</p> <p>11. -Discuss the basic principles, the common techniques and the instrumentation of suction lipectomy including tumescence, standard and ultrasonic liposuction.</p> <p>12. -Explain the preoperative, intraoperative and postoperative management of the patient undergoing suction lipectomy; be familiar with the complications of liposuction and their management.</p> <p>13. -Discriminate the various techniques for tissue expansion and be familiar with the differing expansion devices.</p> <p>14. -Recite the basic principles of medical management and surgical treatment of common congenital disorders of the skin.</p> <p>15. Recite the criteria for classification and techniques of resuscitation of different degrees of burns of burns.</p> <p>16. Describe the indications of fasciotomies and escharotomies.</p> <p>17. List the details regarding the use of skin substitutes, biological dressings, and xenografts in the treatment of the burn patient and Discuss the reconstruction for burn sequel.</p> <p>18. Recite the operative timing and techniques used in the surgical management of hand anomalies.</p> <p>19. Describe the etiologic factors, epidemiology, and modalities of treatment for tumours of the upper extremities and Describe the clinical manifestations of both soft and hard tissue tumours of the upper extremities. .</p> <p>20. Recite the principles and applications of diagnostic techniques for the evaluation of hand and upper extremity trauma.</p> <p>21. Describe the options for soft tissue coverage of upper extremities including: skin grafts, local flaps and free tissue transfer</p> <p>22. - Recite the aetiology and management of pressure sore ulcers (including preventative measures).</p> <p>23. - Recite the indications for and timing of closure of</p>
--	---

	<p>soft tissue defects of the lower extremity and Recite the aetiology and treatment of lymphedema</p> <p>24. - Discuss the various surgical techniques for aesthetic breast surgery, the indications for and contraindications to the procedures.</p> <p>25. - Describe the techniques of abdominal contouring.</p>
B- Intellectual Skills	<ol style="list-style-type: none"> 1. Use information technology to prepare for surgical cases, bringing to the OR the knowledge of current modalities of care and the scientific evidence for that care. 2. Routinely analyses the effectiveness of own practices in caring of patients. 3. Improve own practices in the care of patients by integrating appropriately gathered data and feedback. 4. Demonstrates knowledge of cost-effective care. 5. Educate patients and families in post-operative strategies for reconstructive surgery. 6. Participates in multidisciplinary planning and treatment for patients with head and neck malignancies.
C- Professional and Practical Skills	<ol style="list-style-type: none"> 1. -Participate in the care and treatment of scars and keloids, planning surgical incisions and wound management. 2. -Participate in the surgery of grafts and flaps and Perform operations incorporating the full spectrum of flaps and grafts. 3. -Treat patients who have complications of flaps and grafts including skin graft loss, flap necrosis, wound dehiscence, wound infection, etc. 4. -Participate in the use of the operating microscope; perform microvascular anastomosis and microneural repair in the laboratory and operating room. 5. -Diagnose and treat a variety of nerve injuries, using microsurgery and nerve grafts where appropriate. 6. -Conduct preoperative evaluation and postoperative management of patients undergoing free tissue transfer. 7. -Diagnose and treat patients with surgical wound infections. 8. -Participate in reconstruction of surgical wounds. 9. - Draw the reconstruction of a cleft lip and palate. 10. - Perform an orderly and systematic physical examination of the patient with facial trauma. 11. - Perform acute repair of soft tissue facial trauma and Perform the facial evaluation for orthognathic surgery patients. 12. - Perform the clinical techniques for physical examination of the hand and upper extremity. 13. - Performs the procedures for the acute management and participates in the post-operative rehabilitation of traumatic injuries of the upper extremity. 14. - Perform postoperative care of patients with congenital and developmental anomalies of the upper extremity.

	15. - Perform the technical methods of soft tissue coverage including skin grafts, local flaps, distant flaps, and transfers. 16. - Perform preoperative markings for various aesthetic surgeries. 17. Manage patients with burns in different anatomical regions.
D- General and transferable Skills	1. -Use information technology to prepare for surgical cases, bringing to the OR the knowledge of current modalities of care for patients and the scientific evidence for that care. 2. -Routinely analyses the effectiveness of own practices in caring for patients. 3. -Improve own practices in the care of patients by integrating appropriately gathered data and feedback. 4. -Educate medical students and other healthcare professional in the practices of surgical patients. 5. -Function independently with graduated advancement and appropriate faculty supervision in the evaluation and treatment of patients. 6. -Be reliable, punctual and accountable for own actions in the OR and clinic. 7. -Respect and appropriately integrate other members of the healthcare team.

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
I- General Plastic Surgery	30		
1- History taking & preoperative examination	3	3	6
2- Biomaterials and Skin substitutes	3	3	6
3- Basic principles of reconstruction	3	3	6
4- Basic principles of surgical techniques in skin handling and suturing	3	3	6
5- Wound Management	6	6	12
6- Scar management	3	5	8
7- Basic Principles of Skin, cartilage, bone, tendon, nerve and composite grafts	6	8	14
6- Basic Principles of flaps & its Modifications	3	7	10
7- Fasciocutaneous, muscle, perforator, free tissue transfer and musculocutaneous flaps	3	5	8
8- Skin & tissue culture, Stem cell & tissue engineering in Plastic Surgery	3	5	8
II- Plastic Surgery of the	30		

Integument			
9- Structure and function of the fascia & Superficial fascial system of the body.	3	6	9
10- Management of pigmented skin lesions.	3	5	8
11- Burn Trauma	3	11	14
12- Resuscitation phase of burn injuries	3	6	9
13- Post resuscitation phase of burn injuries	6	8	14
14- Rehabilitation phase of burn injuries	3	5	8
15- Management of cutaneous vascular anomalies.	3	6	9
16- Management of Cutaneous Carcinoma.	3	5	8
17- Surgical management of the soft tissue sarcoma of the extremities.	3	5	8
III- Plastic Surgery of the Hand and Upper Extremity	30		
18- Congenital hand deformities.	6	9	15
19- Finger-tip & nail bed injuries & Their treatment.	6	14	20
20- Tendon Injuries	3	5	8
21- Nerve injuries and compression in the upper extremity	6	9	15
22- Hand fractures	6	8	14
23- Management of tumours of the hand.	3	5	8
IV- Plastic Surgery of the Trunk& the lower Extremity	25		
24- Principles of soft tissue reconstruction of the lower extremity	3	6	9
25- Management of pressure sores, diabetic foot and lymphedema.	6	8	14
26- Flaps in lower extremity reconstruction.	9	5	14
27- Reconstruction of the chest wall.	3	6	9
28- Reconstruction of the trunk.	3	5	8
29- Management of Hypospadias.	6	8	14
V- Plastic Surgery of the Head and Neck	60		
30- Cleft lip, palate & lip nose deformity and 2ry procedures	9	6	15
31- Aetiology, Biomechanics and Management of facial fractures	6	8	14

32- Basic principles of Cephalometry and Orthognathic surgery	6	8	14
33- Reconstruction of the scalp and ear	9	12	21
34- Reconstruction of the eyelids and nose	9	7	16
35- Reconstruction of the lips and cheeks	9	7	16
36- Microvascular reconstruction of Head and neck defects, and free vascularized bone grafts	6	9	15
37- Congenital craniofacial anomalies	6	8	14
VI- Aesthetic Plastic Surgery	25		
38- Aesthetic surgery of the forehead, face & neck	3	4	7
39- Peri-orbital rejuvenation	2	4	6
40- Aesthetic surgery of the nose	3	8	11
41- Aesthetic surgery of the ear	3	8	11
42- Liposuction and Lipofilling	3	5	8
43- Aesthetic surgery of the abdomen	3	4	7
44- Aesthetic surgery of the arms, thighs and buttocks.	3	4	7
45- Aesthetic surgery of the breast.	3	5	8
Total	200	300	500
5- Teaching and Learning Methods	1- Lectures 2- outpatient clinic attendance 3- operative attendace 4- seminars 5- Journal clubs 6- Assignments 7-conference attendance		
6- Teaching and Learning Methods for students with limited Capacity	---		
7- Student Assessment			
A. Student Assessment Methods	1- Research assignment: to assess general transferable skills, intellectual skills. 2- Written exams: • Short essay: to assess knowledge. • Problem solving: to assess general transferable skills, intellectual skills. 3- Clinical exams: to assess practical skills, intellectual		

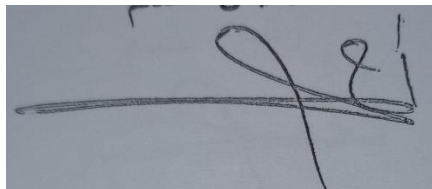
	skills. 4- Oral Exams: to assess knowledge.
B. Assessment Schedule (Timing of Each Method of Assessment)	written exam Oral exam Clinical exam Operative exam
C. Weighting of Each Method of Assessment	Written Examination : 200 marks (40%) Clinical / oral Examination : 300 marks (60 %) Oral exam : 80 marks Clinical exam : 120 marks Operative exam: 100 marks Total : 500 marks (100 %)
8- List of References	
A. Course Notes/handouts	Lectures notes prepared by staff members in the department.
B. Essential Books	(Text Books)
C. Recommended Text Books	<ul style="list-style-type: none"> - Plastic Surgery: 1st edition by Joseph McCarthy 1990 & 2nd edition by Stephen Mathes 2006 - Plastic Surgery (indications, operations and outcomes) Achauer et al 2000 - Georgiade (Plastic, Maxillofacial and Reconstruction Surgery) 3rd edition - Reconstructive Surgery (principles, anatomy & technique) by Stephen Mathes and Foad Nahai - Pediatric Plastic Surgery by Michael Bentz - Grabb and Smith's Plastic Surgery 5th edition
D. Periodicals, websites	<ul style="list-style-type: none"> - Plastic and reconstructive surgery (PRS) Journal - Journal of Plastic , reconstructive and aesthetic surgery (JPRAS) Journal - Aesthetic and Plastic surgery (APS) Journal

Course Coordinator/s:

DR / Khaled Mohamed Hassan

Head of Department:

Prof Dr / Ahmed Mahrous



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

نموذج رقم 11أ)

جامعة/أكاديمية
كلية / معهد
قسم

مسمى المقرر	
كود المقرر	

A. Matrix of Coverage of Course ILOs By Contents

Contents List of course ()topics	H O U RS	Intended Learning Outcomes (ILOs)																									
		A. Knowledge & Understanding																									
		A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	
I- General Plastic Surgery	30																										
1- History taking & preoperative examination	3		*		*								*		*		*			*					*		
2- Biomaterials and Skin substitutes	3			*				*						*			*	*							*	*	
3- Basic principles of reconstruction	3	*			*	*						*			*	*	*		*				*				
4- Basic principles of surgical techniques in skin handling and	3	*				*	*		*		*	*			*		*		*		*	*				*	

24- Principles of soft tissue reconstruction of the lower extremity	3		*	*		*	*		*	*		*	*	*	*	*	*
25- Management of pressure sores, diabetic foot and lymphedema.	6		*		*		*		*		*	*	*	*	*		*
26- Flaps in lower extremity reconstruction.	9	*		*		*					*	*		*		*	*
27- Reconstruction of the chest wall.	3				*	*				*	*	*	*	*	*		*
28- Reconstruction of the trunk.	3		*		*						*		*		*		*
29- Management of Hypospadias.	6			*						*	*	*		*		*	
V- Plastic Surgery of the Head and Neck	60																
30- Cleft lip, palate & lip nose deformity and 2ry procedures	9	*			*					*		*	*	*	*		*
31- Aetiology, Biomechanics and Management of facial fractures	6		*	*		*	*		*	*		*	*	*	*	*	*
32- Basic principles of Cephalometry and Orthognathic surgery	6		*		*		*	*			*	*		*	*	*	*
33- Reconstruction of the scalp and ear	9	*		*		*					*	*		*		*	*
34- Reconstruction of the eyelids and nose	9				*	*				*	*	*	*	*	*	*	*

35- Reconstruction of the lips and cheeks	9		*	*								*		*		*		*
36- Microvascular reconstruction of Head and neck defects, and free vascularized bone grafts	6			*							*	*	*			*		*
37- Congenital craniofacial anomalies	6	*			*	*		*				*		*	*			**
VI- Aesthetic Plastic Surgery	25																	
38- Aesthetic surgery of the forehead, face & neck	3		*	*		*	*		*	*		*	*	*	*	*	*	*
39- Peri-orbital rejuvenation	2		*		*		*	*			*	*		*	*	*		*
40- Aesthetic surgery of the nose	3	*		*		*					*	*		*			*	*
41- Aesthetic surgery of the ear	3					*	*				*	*	*	*	*	*		*
42- Liposuction and Lipofilling	3		*		*		*		*			*	*	*	*	*		*
43- Aesthetic surgery of the abdomen	3			*			*	*				*	*			*	*	
44- Aesthetic surgery of the arms, thighs and buttocks.	3	*			*	*	*		*			*		*	*	*	*	
45- Aesthetic surgery of the breast.	3	*				*	*		*		*	*			*	*	*	**
Total	200																	

Continue Matrix of Coverage of Course ILOs By Contents

Contents List of course ()topics	HOURS	Intended Learning Outcomes (ILOs)																												
		B. Intellectual Skills						C. Professional & Practical skills																	D. General & Transferable Skills					
		B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D1	D2	D3	D4	D5	D6	D7
I- General Plastic Surgery	30																													
1- History taking & preoperative examination	3	*				*			*		*		*								*		*							
2- Biomaterials and Skin substitutes	3	*	*					*	*			*				*			*			*					*			
3- Basic principles of reconstruction	3		*				*		*	*	*		*		*				*	*			*		*					
4- Basic principles of surgical techniques in skin handling and suturing	3	*		*	*		*		*		*			*	*		*	*		*	*			*	*		*		*	
5- Wound Management	6	*				*		*		*		*	*			*	*		*	*		*	*		*		*		*	

6- Scar management	3	*	*					*		*	*							*	*						
7- Basic Principles of Skin, cartilage, bone, tendon, nerve and composite grafts	6	*		*		*		*		*	*					*	*		*	*					*
6- Basic Principles of flaps & its Modifications	3	*		*			*		*							*									
7- Fasciocutaneous, muscle, perforator, free tissue transfer and musculocutaneous flaps	3	*			*			*		*	*						*	*							
8- Skin & tissue culture, Stem cell & tissue engineering in Plastic Surgery	3	*	*				*	*		*			*			*		*				*			
II- Plastic Surgery of the Integument	30																								
9- Structure and function of the fascia & Superficial fascial system of the body.	3	*		*	*		*		*			*	*	*	*	*			*	*		*	*		*
10- Management of pigmented skin lesions.	3	*			*		*		*	*			*	*		*	*		*	*		*	*		*
11- Burn Trauma	3	*	*				*		*	*						*		*							
12- Resuscitation phase of burn injuries	3	*		*		*		*		*	*				*	*		*	*		*	*			*

13- Post resuscitation phase of burn injuries	6									*		*			*		*								
14- Rehabilitation phase of burn injuries	3	*		*			*		*								*		*						
15- Management of cutaneous vascular anomalies.	3	*			*			*		*	*							*					*		
16- Management of Cutaneous Carcinoma.	3	*	*				*	*			*				*		*	*		*					
17- Surgical management of the soft tissue sarcoma of the extremities.	3		*			*		*	*	*		*					*			*	*	*	*	*	*
III- Plastic Surgery of the Hand and Upper Extremity	3 0																								
18- Congenital hand deformities.	6	*			*		*	*		*	*			*	*		*	*		*	*				
19- Finger-tip & nail bed injuries & Their treatment.	6	*	*				*		*	*						*		*	*	*				*	*
20- Tendon Injuries	3	*		*		*		*	*	*	*					*	*								
21- Nerve injuries and compression in the upper extremity	6	*		*			*		*								*		*						
22- Hand fractures	6	*			*			*	*	*								*					*		

23- Management of tumours of the hand.	3	*	*					*	*			*				*		*	*		*					
IV- Plastic Surgery of the Trunk& the lower Extremity	2 5																									
24- Principles of soft tissue reconstruction of the lower extremity	3	*		*	*	*		*	*			*	*	*	*			*	*		*	*				
25- Management of pressure sores, diabetic foot and lymphedema.	6	*			*	*		*			*	*		*	*		*		*	*						
26- Flaps in lower extremity reconstruction.	9	*	*				*			*	*					*		*	*	*					*	
27- Reconstruction of the chest wall.	3	*		*	*	*	*	*	*	*					*	*										
28- Reconstruction of the trunk.	3	*		*		*		*								*		*								
29- Management of Hypospadias.	6	*			*			*	*	*	*						*				*					
V- Plastic Surgery of the Head and Neck	6 0																									
30- Cleft lip, palate & lip nose deformity and 2ry procedures	9		*			*		*	*	*		*				*			*	*	*	*	*	*	*	*

31- Aetiology, Biomechanics and Management of facial fractures	6	*		*	*		*		*				*	*		*		*	*			*		*	
32- Basic principles of Cephalometry and Orthognathic surgery	6		*			*		*		*	*			*	*			*		*					
33- Reconstruction of the scalp and ear	9	*		*				*		*	*						*		*		*				*
34- Reconstruction of the eyelids and nose	9		*		*		*		*		*	*					*	*							
35- Reconstruction of the lips and cheeks	9	*		*			*		*									*		*					
36- Microvascular reconstruction of Head and neck defects, and free vascularized bone grafts	6		*			*			*		*	*							*					*	
37- Congenital craniofacial anomalies	6		*	*				*	*			*				*		*	*		*				
VI- Aesthetic Plastic Surgery	2 5																								
38- Aesthetic surgery of the forehead, face & neck	3	*		*	*		*		*			*	*		*	*		*	*			*		*	
39- Peri-orbital rejuvenation	2		*			*		*		*	*			*	*			*		*					

40- Aesthetic surgery of the nose	3	*	*					*		*	*					*	*	*				*
41- Aesthetic surgery of the ear	3	*		*		*		*		*		*				*	*					
42- Liposuction and Lipofilling	3		*			*		*	*			*				*		*	*			
43- Aesthetic surgery of the abdomen	3			*	*			*		*				*	*			*			*	
44- Aesthetic surgery of the arms, thighs and buttocks.	3		*			*	*	*			*		*		*	*	*		*			
45- Aesthetic surgery of the breast.	3	*	*	*	*	*					*	*	*	*	*	*		*	*	*	*	*

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: 17		C1:C12	
Practical		B1:B6		
Clinical (Including grand rounds)	All As		C16&17	D1:D7
Presentation/seminar	A19:25	B1:B6		D1:D7
Journal club		B1:B6	C1:C8	
Thesis discussion	A3&5&18			D1:D7
Training courses & workshops		B1:B6	C9: C15	

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	*	*	*	*
Operative exam	*	*	*	*
Clinical exam	*	*	*	*
Oral Exam	*	*	*	*

Blueprint of Plastic surgery MSC (Plastic surgery Examination Paper)

200 Mark

	Topics	H O U R S	Knowl edge %	Intelle ctual %	% of topic s	Mark	Actual mark
1	General Plastic Surgery	30	100	0	15	30	30
2	Plastic Surgery of the Integument	30	70	30	15	30	30
3	Plastic Surgery of the Hand and Upper Extremity	30	70	30	15	30	30
4	Plastic Surgery of the Trunk& the lower Extremity	25	70	30	12.5	25	25
5	Plastic Surgery of the Head and Neck	60	70	30	30	60	60
6	Aesthetic Plastic Surgery	25	80	20	12.5	25	25
	Total	200			100 %		200