



Doctorate (MD) Program & Courses' Specifications of **Plastic Surgery** 

# Program Specification for Doctorate Degree (MD) in Plastic Surgery

**University:** MINIA

Faculty(s): MEDICINE

**Department:** Plastic Surgery Department

#### A- Basic Information:

1- Program title: Doctorate Degree (MD) in Plastic Surgery

<b>2- Program type:</b> Single <u></u> Double <u></u> Multiple	2- Program type:	Single 🔽	Double 🗔	Multiple 🗆
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3- Department responsible for offering the degree: Plastic Surgery

4- Program code: PS100

#### **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 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.

#### Graduate of Doctorate Degree in Plastic Surgery, the candidate should be able to:

- 1.1. Efficient in carrying out the basics and methodologies of scientific research.
- 1.2. Continuous working to add new knowledge in the field of Plastic Surgery.
- 1.3. Applying the analytical course and critical appraisal of the knowledge in Plastic Surgery and related fields.
- 1.4. Merging the plastic surgical knowledge with the other related knowledge with conclusion and developing the relationships in between them.
- 1.5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in the specialty of plastic surgery.
- 1.6. Determination of the professional problems in the specialty of Plastic Surgery and creating solutions for them.
- 1.7. Efficient in carrying out the professional skills in Plastic Surgery
- 1.8. Share in updating and improving clinical practice in Plastic Surgery
- 1.9. Using advanced suitable technologies which serves his practice.

- 1.10. Efficient communication and leadership of teamwork in Plastic Surgery.
- 1.11. Decision making through the available information.
- 1.12. Using the available resources efficiently and working to find new resources.
- 1.13. Awareness with his role in the development of the society and preserve environment.
- 1.14. Behaving in a way which reflects his credibility, accountability, and responsibility.
- 1.15. Keeping continuous self-development and transfer his experiences and knowledge to others.

#### 2. Intended Learning Outcomes:

#### 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. Illustrate Principles, methodologies, tools, and ethics of scientific research
- a2. Describe the recent advances in research methodology and the concept of bias, confounding and chance
- a3. Describe the recent advances in biostatistics and computer.
- a4. Describe the normal growth, development, structure, and function of the craniofacial region, neck, trunk, extremities and integumental system on macro and micro levels.
- a5. Mention the recent advances in the abnormal structure, function, growth, and development of the craniofacial region, neck, trunk, extremities and integumental system.
- a6. Identify the pathogenesis of diseases related to plastic surgery.
- a7. Describe correlation of gross and histopathology with the clinical basis of diseases related to plastic surgery.
- a8. List the clinical picture and differential diagnosis of the diseases related to plastic surgery.
- a9. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of the diseases related to plastic surgery.
- a10. Describe recent advances in the various therapeutic methods/alternatives used for the diseases related to plastic surgery.
- a11. Mention ethical, medico-logical principles and bylaws relevant to his practice in the field of 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. Carry out Scientific discussion based on scientific evidence and proofs.
- b2. Plan research projects
- b3. Write scientific papers.
- b4. Analyze and Interpret data in plastic surgery
- b5. Interpret the anatomical bases of common surgical problems.
- b6. Correlate the pathologic features of the disease with its clinical presentation, laboratory investigations and complications.
- b7. Classify plastic surgery disorders in head and neck, hand, and other body regions.
- b8. Assess multi-system disease and evaluate risk.
- b9. Interpret data acquired through history taking to reach a provisional diagnosis for plastic

surgery related diseases.

- b10. Differentiate disorders from each other.
- b11. Select and interpret appropriate laboratory tests and imaging technique for diagnosis of plastic surgery diseases
- b12. Select the proper line of treatment and plan to improve outcome and be innovative.
- b13. Develop untraditional solutions to plastic surgery problems.

### **3.2. Skills:**

### **3.2.1** (c) Professional and practical skills

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

- c1. Conduct a research study
- c2. Use standard computer programs for statistical analysis
- c3. Write and evaluate medical reports.
- c4. Conduct clinical examination of plastic surgery cases with variable presentations in the outpatient clinic.
- c5. Perform trauma case management in the emergency room.
- c6. Perform bedside management techniques in the ward.
- c7. Perform operative intervention in different plastic surgery subspecialities.
- c8. Manage properly complications related to plastic surgery

### **3.2.2.** (d) General and transferable skills

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

- d1. Present report in seminars effectively.
- d2. Use the information technology including computer packages to serve the development of professional practice.
- d3. Teach others and evaluating their performance.
- d4. Self-learning and identification of personal learning needs.
- d5. Use different sources for information and knowledge.
- d6. Work coherently and successfully as a part of a team and team's leadership.
- d7. Manage scientific meetings administration according to the available time.

### **3- Program Academic Reference Standards**

- Minia faculty of medicine adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE ) for all postgraduate programs. . (Date and NO. of <u>faculty council</u> approval). **{Annex 1}**.
- Then, Plastic Surgery Department has developed the academic standards (ARS) for doctorate (MD) program in plastic surgery. (Dates and Nos. of <u>department</u> and <u>faculty council</u> approvals). {Annex 2}.

## 4. Program External References

- Minia faculty of medicine adopted the standards provided by "Accreditation council for graduate Medical Education" (http: acgme.org). (Date and NO. of <u>faculty council</u> approval).
- Comparison between ARS of MD program in Plastic Surgery & External benchmarks. {Annex 3}.

#### **5 - Curriculum Structure and Contents**

5. A. Program duration: 7semester (4years).

- 5. B. Program structure:
  - □ Basic sciences (compulsory) courses: No: 4
  - $\Box$  Basic sciences (optional) courses: No: 0
  - □ Specific courses related to the specialty: No: 1
  - $\Box \quad \textbf{Other courses:} \qquad \qquad \text{No: 0}$
  - □ **Training programs and workshops, field visits, seminars & other scientific activities:** Distributed along the whole program.

Course Title		No. of hours /week			
		Total	Lect.	Practical	Clinical
FIRST PART (Level of course):					
<b>Course 1:</b> Medical Statistics and Research		3	2	1	
Methodology					
<b>Course 2:</b> Use of Computer in Medicine		3	2	1	
Course 3: Surgical Anatomy		2	2		
Course 4: Surgical Pathology		2	2		
SECOND PART (Level of course):					
Course 5: Plastic Surgery		14	2	6	6

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

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

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

Course Title	Total	No. of hours		Program ILOs
	No. of	Lect.	Practical Clinical	Covered

- Percentage: % 12.2
- Percentage: % 0
- Percentage % 87.8 Percentage: % 0

FIRST PART (Level of course):						
<b>Course 1:</b> Medical Statistics and Research Methodology		30	20	10		a1,a2,a3,b1,b2,b3,c1,d4 ,d5
<b>Course 2:</b> Use of Computer in Medicine		45	15	30		a3,b4,c2,d2,d4,d5
Course 3: Surgical Anatomy		40	40			a4,b5,d4,d5
Course 4: Surgical Pathology		40	40			a5,a6,a7,b6,d4,d5
SECOND PART (Level of course)	:					
Course 5: Plastic Surgery		760	160	328	272	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

#### 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- Master degree in General Surgery or Plastic Surgery with at least "Good" rank from any Egyptian Faculty of Medicine
- C- 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-Master degree in General Surgery or Plastic Surgery with at least" Good Rank".
- C-Candidate should know how to speak write English well.
- D-Candidate should have computer skill.
- E-Master thesis topic must be related to Plastic Surgery.
- F-Pass the entrance exam

#### 7- Regulations for progression and program completion

Duration of program is 7 semesters (3.5 years), starting from registration till acceptance of the thesis; divided to:

**<u>7.1. First Part</u>**: (≥6 months=1 semester):

- All courses as specified in the internal bylaw
- •At least six months after registration should pass before the student can ask for examination in the 1<sup>st</sup> part.
- •Two sets of exams: 1<sup>st</sup> in April 2<sup>nd</sup> in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.
- •Those who fail in one curriculum need to re-exam it only.

**<u>7.2. Second Part</u>**: (≥24months=4 semesters):

- Program related specialized Courses.
- At least 24 months after passing the 1<sup>st</sup> part should pass before the student can ask for examination in the 2<sup>nd</sup> 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 attendence
  - f. Workshops
  - g. Conference attendance
  - h. Journal club
  - i. Other scientific activities requested by the department
- Two sets of exams: 1<sup>st</sup> in April— 2<sup>nd</sup> in October.
- At least 60 % of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

### **<u>7.3. Thesis/essay:</u>** (24-48 months=4-8 semesters):

• Could start after registration and should be completed, defended and accepted after passing

the 2nd part final examination, and after passing of at least 24 months after documentation of the subject of the thesis.

• Accepting the thesis is enough to pass this part.

#### 8-Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	a. Knowledge & understanding,
	<b>b.</b> Intellectual skills
	<b>c.</b> Professional & practical skills
2 W	<b>d.</b> General & transferable skills
2. Written Exams:	
• Short essay	a. Knowledge & understanding
• MCQs, Complete	<b>b.</b> Intellectual skills
• Commentary, Problem solving	
<b>3.</b> Practical/Clinical Exams	a. Knowledge & understanding
	<b>b.</b> Intellectual skills
	c. Professional & practical skills
	a. knowledge & understanding
4. Oral Exams	<b>b.</b> Intellectual skills
	<b>c.</b> General & transferable skills
5. Logbook	a. Knowledge & understanding,
	<b>b.</b> Intellectual skills
	c. Professional & practical skills
	<b>d.</b> General & transferable skills

9. Methods of Program Evaluation:

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

- **Program Coordinators:** Prof. Khaled M. Hassan
- Head of Department: Prof. Ahmed Mahrous



**Date of program specifications 1<sup>st</sup> approval by** <u>department council</u>: 13/5/2013.

**Date of <u>last update</u> & approval by <u>department council</u>: 7/3/2023** 

# {Annex 1}

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

برامج الد كتوراه	Faculty		
NAQAAE	Doctorate (MD) Program		
1 . مواصفات الخريج:	1. Graduate attributes:		
خريج برنامج الدكتوراه في أي تخصص يجب أن يكون قادرا على:	Graduate of doctorate (MD) program in Plastic Surgery should be able to:		
1-1 إتقان أساسيات ومنهجيات البحث العلمي.	1.1. Demonstrate competency and mastery of basics, methods and tools of scientific research in Plastic Surgery		
1-2 العمل المستمر علي الإضافة للمعارف في مجال التخصص.	1.2. Have continuous ability to add developments to Plastic Surgery through research		
1-3 تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة.	1.3. Appraise and utilize scientific knowledge to continuously update and improve clinical practice in Plastic Surgery and relevant basic sciences		
4-1 دمــج المعـارف المتخصصــة مـع المعـارف ذات العلاقـة مسـتنبطا ومطورا للعلاقات البينية بينها.	1.4. Acquire excellent level of medical knowledge in Plastic Surgery and be able to correlate it with relevant basic biomedical, clinical, behavioral sciences, clinical sciences, medical ethics and medical laws and apply such knowledge in patient care		
1-5 إظهار وعيا عميقا بالمشاكل الجارية	1.5. Demonstrate profound awareness by current health problems and recent		

والنظريات الحديثة في مجال التخصص.	theories in Plastic Surgery
1-1 تحديد المشكلات المعنية و ايجاد جلولا مبتكرة	1.6 Identify and create solutions for
	health problems in Plastic Surgery
7-1 إتقان نطاقا واسعا من المهارات المهنية في مجال	1.7. Acquire a wide range of professional
التخصص.	skills in common areas of specialty, from
	clinical application, and possession of
	skills to manage independently all
	problems in Plastic Surgery.
1-8 التوجه نحو تطوير طرق و أدوات و أساليب	1.8. Develop and improve new methods
جديدة للمزاولة المهنية.	and approaches in the professional medical practice of Plastic Surgery
	incurcal practice of Thastic Surgery.
9-1 استخدام الوسائل التكنولوجية المناسبة بما يخدم	1.9. Use suitable technologies to improve
ممارسته المهنية	the professional medical practice in Plastic
	Surgery
1-11 التواصل بقاعلية و قيادة قريق عمل في سيافات مدينة منافة	communication skills and leadership
مهيبه محليقه.	competencies in different professional
	situations.
11-1 اتخاذ القرار في ظل المعلومات المتاحة.	1.11. Master decision making capabilities
	in different situations in view of the available data
12-1 توظيف الموارد المتاحة بكفاءة وتنميتها والعمل	1.12. Effective management, development
على إيجاد موارد جديدة .	& improvement of available resources and
	have the competency to get new resources
1-11 الوعي بدوره في تنميه المجتمع و الحفاظ على ا	1.13. Demonstrate in depth awareness of
البيئة.	have the ability to improve & maintain
	health care and carryout system-based
	improvement of it.
14-1 التصرف بما يعكس الالتزام بالنزاهة	1.14. Show appropriate attitudes and
والمصداقية وقواعد المهنة.	professionalism that reflect adherence to credibility and principles of medical
	creationity and principles of medical

	practice.		
15-1 الالتزام بالتنمية الذاتية المستمرة ونقل علمه و	1.15. Demonstrate commitment for		
خبر اته للآخرين	lifelong learning and maintenance of		
	competence and ability for continuous		
	medical education in subsequent stages in		
	Plastic Surgery as well as teaching others.		
2. المعايير القياسية العامة:	2. Faculty Academic Reference		
	Standards (ARS) for MD Programs		
NAQAAE General Academic			
<b>Reference Standards "GARS" for MD</b>			
Programs			
2-1 المعرفة والفهم:	2.1. Knowledge and understanding:		
· · · · · · · · · · · · · · · · · · ·	Upon completion of the doctorate		
بالمهاء دراسته برنامج الدخلوراة يجب أن يحون	Program (MD) in Plastic Surgery the		
الخريج فادرا علي الفهم والدراية بكل من:	riogram (wb) in riastic Surgery, the		
	graduate should have sufficient		
	knowledge and understanding of:		
الأنظريات الأنطريات والمسابية والمحدث ومناله والرف	2.1.1 Theories basics and undated		
	knowledge in Plastic Surgery and related		
في مجال التخصص والمجالات ذات العلاقة	hasic sciences		
2-1-2 أساسيات ومذمحيات وأخلاقيات الدحث العامي	2.1.2 Basic methods and ethics of		
المستيك وتصبيك وتصويب المستيك المستي	medical research		
والوالية المحليفة	neurour resourch.		
2-1-3 المبادئ الأخلاقية والقانونية للممارسة المهنية	2.1.3. Ethical and medicolegal principles		
ف محال التخصص	of medical practice in Plastic Surgery		
4-1-2 مبادئ وأساسيات الجودة في الممارسة المهنية	2.1.4. Principles and basics of quality in		
في مجال التخصص	professional practice in Plastic Surgery		
2-1-2 المعارف المتعلقة بآثار ممارسته المهنية على	2.1.5. Knowledge related to effects of		
البيئة وطرق تنمية البيئة وصيانتها	professional practice on public health and		
	methods of maintenance and system-based		
	improvement of public health		

2-2 المهارات الذهنية:	2.2. Intellectual skills:
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	Upon completion of the doctorate program (MD), the graduate must be able to:
2-2-1 تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها	2.2.1 Analysis and evaluation of data and correlation of relevant basic and other science to solve problems in Plastic Surgery.
2-2-2 حل المشاكل المتخصصة استنادا على المعطيات المتاحة	2.2.2. Problem solving skills based on analysis of available data for common health problems related to Plastic Surgery
2-2-3 إجراء دراسات بحثية تضيف إلى المعارف	2.2.3. Carryout research studies related to Plastic Surgery
2-2-4 صياغة أوراق علمية	2.2.4. Writing scientific papers.
2-2-5 تقييم المخاطر في الممارسات المهنية	2.2.5. Risk evaluation in professional medical practice of Plastic Surgery
2-2-6 التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Planning for performance & professional improvement in Plastic Surgery
2-2-7 اتخاذ القرارات المهنية في سياقات مهنية مختلفة	2.2.7. Professional Decision making in various professional situations in Plastic Surgery
2-2-8 الابتكار / الإبداع	2.2.8. Creation and innovation in Plastic Surgery
2-2-9 الحوار والنقاش المبني على البراهين والأدلة	2.2.9. Evidence-based discussion
2-3 مهارات المهنية:	2.3. Professional skills:
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون	Upon completion of the doctorate
الخريج قادرا على:	program (MD), the graduate must be able to:

2-3-1 إتقان المهارات المهنية الأساسية والحديثة في	2.3.1. Master the essential as well as
مجال التخصص	recent professional practical and/or clinical skills in Plastic Surgery
2-3-2 كتابة وتقييم التقارير المهنية	2.3.2. Write and evaluate reports related to Plastic Surgery
2-3-3 تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص	2.3.3. Evaluate and improve the methods and tools in Plastic Surgery
2-3-4 استخدام الوسائل التكنولوجية بما يخدم	2.3.4. Use efficiently the different
الممارسة المهنية	technological tools to help the professional practice
2-3-3 التخطيط لتطوير الممارسة المهنية وتنمية أداء	2.3.5. Plan for development of
الآخرين.	professional practice and master skills of performance advancement of others
2-4 المهارات العامة والمنتقلة:	2.4. General and transferable skills
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون	Upon completion of the doctorate
الخريج قادرا على:	program (MD), the graduate must be
	able to:
2-4-1 التواصل الفعال بأنواعه المختلفة	
	2.4.1. Demonstrate effective communication skills in all its forms
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير	2.4.1.Demonstrateeffectivecommunication skills in all its forms2.4.2.Usecompetentlyinformation
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية	2.4.1.Demonstrateeffectivecommunication skills in all its forms2.4.2.Usecompetentlyinformationtechnology(IT)toimproveprofessional medical practice
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية 2-4-2 تعليم الآخرين وتقييم أداءهم	<ul> <li>2.4.1. Demonstrate effective communication skills in all its forms</li> <li>2.4.2. Use competently information technology (IT) to improve the professional medical practice</li> <li>2.4.3. Demonstrate skills of teaching and</li> </ul>
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية 2-4-2 تعليم الآخرين وتقييم أداءهم	<ul> <li>2.4.1. Demonstrate effective communication skills in all its forms</li> <li>2.4.2. Use competently information technology (IT) to improve the professional medical practice</li> <li>2.4.3. Demonstrate skills of teaching and evaluating others</li> </ul>
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية 2-4-2 تعليم الآخرين وتقييم أداءهم 2-4-2 التقييم الذاتي والتعلم المستمر	<ul> <li>2.4.1. Demonstrate effective communication skills in all its forms</li> <li>2.4.2. Use competently information technology (IT) to improve the professional medical practice</li> <li>2.4.3. Demonstrate skills of teaching and evaluating others</li> <li>2.4.4. Demonstrate skills of self-</li> </ul>
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية 2-4-2 تعليم الآخرين وتقييم أداءهم 4-4-2 التقييم الذاتي والتعلم المستمر	<ul> <li>2.4.1. Demonstrate effective communication skills in all its forms</li> <li>2.4.2. Use competently information technology (IT) to improve the professional medical practice</li> <li>2.4.3. Demonstrate skills of teaching and evaluating others</li> <li>2.4.4. Demonstrate skills of self-evaluation and continuous medical</li> </ul>
2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية 2-4-2 تعليم الآخرين وتقييم أداءهم 4-4-2 التقييم الذاتي والتعلم المستمر	<ul> <li>2.4.1. Demonstrate effective communication skills in all its forms</li> <li>2.4.2. Use competently information technology (IT) to improve the professional medical practice</li> <li>2.4.3. Demonstrate skills of teaching and evaluating others</li> <li>2.4.4. Demonstrate skills of self-evaluation and continuous medical education</li> </ul>

المعلومات والمعارف	resources to get relevant knowledge and
	information
2-4-6 العمل في فريق وقيادة فرق العمل	2.4.6. Demonstrate skills of leadership as
	well as working as a team member
2-4-2 إدارة اللقاءات العلمية والقدرة علي إدارة	2.4.7. Demonstrate competencies of
الوقت	leading scientific meetings and skills of
	effective time management

# {Annex 2}

# MATRIX II: Faculty ARS VS. MD Program of Plastic Surgery

1. Graduate Attributes	1. Program Aims
Graduate of doctorate (MD) program in Plastic Surgery should be able to:	Graduate of doctorate (MD) program in Plastic Surgery should be able to:
1.1. Demonstrate competency and mastery of basics, methods and tools of scientific research in Plastic Surgery	1.1. Efficient in carrying out the basics and methodologies of scientific research.
1.2. Have continuous ability to add developments to Plastic Surgery through research	1.2. Continuous working to add new knowledge in the field of plastic surgery.
1.3. Appraise and utilize scientific knowledge to continuously update and improve clinical practice in Plasstic Surgery and relevant basic sciences	1.3. Applying the analytical course and critical appraisal of the knowledge in Plastic Surgery and related fields.
1.4. Acquire excellent level of medical knowledge in Plastic Surgery and be able to correlate it with relevant basic biomedical, clinical, behavioral sciences, clinical sciences, medical ethics and medical laws and apply such knowledge in patient care	1.4. Merging the plastic surgical knowledge with the other related knowledge with conclusion and developing the relationships in between them.
1.5. Demonstrate profound awareness by current health problems and recent theories in Plastic Surgery	1.5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in the specialty of plastic surgery.
1.6. Identify and create solutions for health problems in Plastic Surgery	1.6. Determination of the professional problems in the specialty of Plastic Surgery and creating solutions for them.
1.7. Acquire a wide range of professional skills in common areas of specialty, from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in Plastic Surgery.	1.7. Efficient in carrying out the professional skills in Plastic Surgery
1.8. Develop and improve new methods and approaches in the professional medical practice	1.8. Share in updating and improving clinical practice in Plastic Surgery

of Plastic Surgery	
1.9. Use suitable technologies to improve the professional medical practice in Plastic Surgery	1.9. Using advanced suitable technologies which serves his practice.
1.10. Demonstrate effective communication skills and leadership competencies in different professional situations.	1.10. Efficient communication and leadership of teamwork in Plastic Surgery.
1.11. Master decision making capabilities in different situations in view of the available data	1.11. Decision making through the available information.
1.12. Effective management, development & improvement of available resources and have the competency to get new resources	1.12. Using the available resources efficiently and working to find new resources.
1.13. Demonstrate in depth awareness of public health and health policy issues and have the ability to improve & maintain health care and carryout system-based improvement of it.	1.13. Awareness with his role in the development of the society and preserve environment.
1.14. Show appropriate attitudes and professionalism that reflect adherence to credibility and principles of medical practice.	1.14. Behaving in a way which reflects his credibility, accountability, and responsibility.
1.15. Demonstrate commitment for lifelong learning and maintenance of competence and ability for continuous medical education in subsequent stages in Plastic Surgery as well as teaching others.	1.15. Keeping continuous self-development and transfer his experiences and knowledge to others.
2. Faculty Academic Reference Standards (ARS)	2. Intended Learning Outcomes (ILOs) of MD Program in Plastic Surgery
<b>2.1.Knowledge and Understanding</b> Upon completion of the doctorate Program (MD) in Plastic Surgery, the graduate should have sufficient knowledge and understanding of:	<b>2.1.Knowledge and Understanding</b> Upon completion of the doctorate Program (MD) in Plastic Surgery, the graduate should have be able to:
2.1.1. Theories, basics and updated knowledge in Plastic Surgery and related basic sciences	a4. Describe the normal growth, development, structure, and function of the craniofacial region, neck, trunk, extremities and integumental system on macro and micro levels.
	a5. Mention the recent advances in the

	abnormal structure, function, growth, and
	development of the craniofacial region, neck,
	trunk, extremities and integumental system.
	a6. Identify the pathogenesis of diseases
	related to plastic surgery.
	a7 Describe correlation of anone and
	a/. Describe correlation of gross and
	diseases related to plastic surgery
	diseases related to plastic surgery.
2.1.2. Basic, methods and ethics of medical research.	a1. Illustrate Principles, methodologies, tools, and ethics of scientific research
	a2. Describe the recent advances in research
	confounding and chance
	a3. Describe the recent advances in
	biostatistics and computer.
2.1.3. Ethical and medicolegal principles of medical practice in Plastic Surgery	a11. Mention ethical, medico-logical principles and bylaws relevant to his practice in the field of Plastic Surgery.
2.1.4. Principles and basics of quality in professional practice in Plastic Surgery	a8. List the clinical picture and differential diagnosis of the diseases related to plastic surgery.
	a9. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of the diseases related to plastic surgery.
2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.	a10. Describe recent advances in the various therapeutic methods/alternatives used for the diseases related to plastic surgery.
<b>2.2. Intellectual skills</b> Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be able to:	<b>2.2. Intellectual skills</b> Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be able to:

2.2.1 Analysis and evaluation of data and correlation of relevant basic and other science to solve problems in Plastic Surgery.	<ul> <li>b4. Analyze and Interpret data in plastic surgery</li> <li>b5. Interpret the anatomical bases of common surgical problems.</li> <li>b6. Correlate the pathologic features of the disease with its clinical presentation, laboratory investigations and complications.</li> </ul>
2.2.2. Problem solving skills based on analysis of available data for common health problems related to Plastic Surgery	<ul> <li>b9. Interpret data acquired through history taking to reach a provisional diagnosis for plastic surgery related diseases.</li> <li>b10. Differentiate disorders from each other.</li> <li>b11. Select and interpret appropriate laboratory tests and imaging technique for diagnosis of plastic surgery diseases</li> </ul>
2.2.3. Carryout research studies related to Plastic Surgery	b2. Plan research projects.
2.2.4. Writing scientific papers.	b3. Write scientific papers.
2.2.5. Risk evaluation in professional medical practice of Plastic Surgery	b8. Assess multi-system disease and evaluate risk.
2.2.6. Planning for performance & professional improvement in Plastic Surgery	b7. Classify plastic surgery disorders in head and neck, hand, and other body regions.
2.2.7. Professional Decision making in various professional situations in Plastic Surgery.	b12. Select the proper line of treatment and plan to improve outcome and be innovative
2.2.8. Creation and innovation in Plastic Surgery	b13. Develop untraditional solutions to plastic surgery problems
2.2.9. Evidence-based discussion	b1. Carry out Scientific discussion based on scientific evidence and proofs.
2.2.Professional skills	<ul><li>3.2. Skills:</li><li>3.2.1. Professional &amp; Practical skills</li></ul>
Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be able to:	Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be

	able to:
2.3.1. Master the essential as well as recent professional practical and/or clinical skills in Plastic Surgery	c4. Conduct clinical examination of plastic surgery cases with variable presentations in the outpatient clinic.
	c5. Perform trauma case management in the emergency room.
	c6. Perform bedside management techniques in the ward.
2.3.2. Write and evaluate reports related to Plastic Surgery	c3. Write and evaluate medical reports.
2.3.3. Evaluate and improve the methods and tools in Plastic Surgery	c1. Conduct a research study
2.3.4. Use efficiently the different technological tools to help the professional practice	c2. Use standard computer programs for statistical analysis
2.3.5. Plan for development of professional practice and master skills of performance advancement of others	<ul><li>c7. Perform operative intervention in different plastic surgery subspecialities.</li><li>c8. Manage properly complications related to plastic surgery</li></ul>
2.4.General & Transferable Skills	3.2.2. General & Transferable Skills
Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be able to:	Upon completion of the doctorate program (MD) in Plastic Surgery, the graduate must be able to:
2.4.1. Demonstrate effective communication skills in all its forms	d1. Present report in seminars effectively.
2.4.2. Use competently information technology (IT) to improve the professional medical practice	d2. Use the information technology including computer packages to serve the development of professional practice.
2.4.3. Demonstrate skills of teaching and evaluating others	d3. Teach others and evaluating their performance.
2.4.4. Demonstrate skills of self-evaluation and	d4. Self-learning and identification of personal

continuous medical education	learning needs.
2.4.5. Use competently all information resources to get relevant knowledge and information	d5. Use different sources for information and knowledge.
2.4.6. Demonstrate skills of leadership as well as working as a team member	d6. Work coherently and successfully as a part of a team and team's leadership.
2.4.7. Demonstrate competencies of leading scientific meetings and skills of effective time management	d7. Manage scientific meetings administration according to the available time

# {Annex 3}

# **MATRIX III:** Faculty ARS VS. External benchmarks

Item surgery	ARS of MD Plastic	American Board of Plastic Surgery
Goals	Matched	Matched
ILOS	Matched	Matched
Duration	4 years	Different (6 years)
Requirement	Different	Different
Program structure	Different	Different

{Annex	<b>4</b> }
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Doctorate Degree (MD) in Plastic Surgery	مسمى البرنامج
PS100	كود البرنامج

# Matrix of Coverage of MD Program ILOs By Course

Courses (List of courses in 1 <sup>st</sup>													F	Prog	gra	m	In	ten	de	d L	lea1	mi	ng	<b>O</b> t	itco	om	es (	(IL)	Os)	)												
and 2 <sup>nd</sup> parts)			A U	. K Jnc	no ler	wle sta:	edg ndi	e ð ing	i i						I	B. I	[nt	elle	ecti	ıal	Ski	ills						C. F	Pr Pra	ofe ctic	ssic cal s	ona skil	1 & ls	;	]	Г Гra	). ( nsf	Ger	nera abl	al « e S	& 3kil	ls
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a1(	Da11	b	1 b2	b3	b⁄	4 b	5 1	b6	b7	b8	b9	) b1	0b	11 b	o12	b13	c1	c2	c3	c4	c5	c6	c7	c8	<b>d</b> ]	l d2	2 d.	3 d	14 c	15	d6	d7
1. Medical Statistics and Research Methodology	*	*	*									≯	**	*													*											;	*:	*		
<b>2.</b> Use of Computer in Medicine			*												*	<												*								*	:	;	*:	*		
<b>3.</b> Surgical Anatomy				*												×	*																					;	*:	*		
<b>4.</b> Surgical Pathology					*	*	*											*																				)	*:	*		
5. Plastic Surgery						*	*	*	*	*	*					×	*	*	*	*	*	*	< <b>;</b>	*	*	*	*		*	*	*	*	*	*	*	;	¥	<b>;</b> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	*:	*	*	*

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: جراحة التجميل

# Course Specifications of Medical Statistics and Research Methodology for MD degree in Plastic Surgery

University: Minia

Faculty: Medicine

# **Department(s) offering the course:** Community Medicine department

1- Course Information								
• Academic Year/level: First part	• Course Title: Medical Statistics and Research Methodology	• Code:						
• Number of teaching he	ours:							
- Lectures: 20 h	iours							
- Practical/clini	cal: 10 hours							
- <b>Total:</b> 30 hour	- <b>Total:</b> 30 hours							
2- Overall Aims of	By the end of the course the stu	dent must be able to:						
the course	1. Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision-making skills.							
	2. Apply ethical principles of scientific research with good awareness about patient's rights.							
	3. Use precisely the research me	ethodology in researches						
	4. Influence the students to ac evidence-based medicine	dopt an analytical thinking for						
<b>3- Intended learning of</b> <i>Upon completion of the com</i>	itcomes of course (ILOs): urse, the student should be able a	to:						
	a1. Define terms of research me	ethodology.						
	a2. Describe the spectrum of res	search methodology.						
A- Knowledge and Understanding	a3. Explain the strategies and de	esign of researches.						
Understanding	a4. Describe the study design, u	ises, and limitations.						
	a5. Explain evidence-based med	dicine						
	a6. Define causation and association	ation.						

	a7. Tell the principles and fund	amentals	of ethics.							
B- Intellectual Skills	o different community health ch strategies for use . ch methods . opriately in the research design									
C- Professional and Practical Skills	ity diagnos	gnosis.								
D- General and transferable Skills	<ul><li>dl. Lead a research team to cond</li><li>d2. Take part and work coherent researches.</li><li>d3. Write scientific papers.</li></ul>	onduct a specific study rently with his associates in								
4- Course Contents										
Торіс		No. of hours	Lecture	Tutorial/ Practical						
Topic         - Introduction:       -         - Introduction to research.       -         - Terminology and Rational       -         - Originality       -	e	No. of hours	Lecture 2	Tutorial/ Practical						
Topic         - Introduction:         - Introduction to research.         - Terminology and Rationale         - Originality         - Study design:         - Cross sectional study and te         - Cohort study, incidence rate         - Case-control study, Odd's te         - Experimental study and clip	e the prevalence rate te, relative & attributable risk ratio sampling inical trials	No. of hours28	<b>Lecture</b> 2 4	Tutorial/ Practical						
<ul> <li>Topic</li> <li>Introduction: <ul> <li>Introduction to research.</li> <li>Terminology and Rationale</li> <li>Originality</li> </ul> </li> <li>Study design: <ul> <li>Cross sectional study and t</li> <li>Cohort study, incidence rai</li> <li>Case-control study, Odd's i</li> <li>Experimental study and clii</li> </ul> </li> <li>Sources of Errors in Medical I</li> <li>Bias and confounding and its in the statement of the state</li></ul>	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours284	<b>Lecture</b> 2 4 2	Tutorial/ Practical 4 2						
<ul> <li>Topic</li> <li>Introduction: <ul> <li>Introduction to research.</li> <li>Terminology and Rationale</li> <li>Originality</li> </ul> </li> <li>Study design: <ul> <li>Cross sectional study and t</li> <li>Cohort study, incidence rai</li> <li>Case-control study, Odd's i</li> <li>Experimental study and cli</li> </ul> </li> <li>Sources of Errors in Medical I</li> <li>Bias and confounding and its i</li> <li>Validity and reliability</li> </ul>	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours           2           8           4           2	Lecture 2 4 2 2 2 2 2	Tutorial/ Practical 4 2						
Topic         - Introduction:         - Introduction to research.         - Terminology and Rationale         - Originality         - Study design:         - Cross sectional study and te         - Cohort study, incidence rate         - Case-control study, Odd's and te         - Sources of Errors in Medical Ie         - Bias and confounding and its and te         - Validity and reliability         - The questionnaire design	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours           2           8           4           2           4           2	Lecture 2 4 2 2 2 2 2 2 2 2	Tutorial/ Practical 4 2 2						
<ul> <li>Topic</li> <li>Introduction: <ul> <li>Introduction to research.</li> <li>Terminology and Rationale</li> <li>Originality</li> </ul> </li> <li>Study design: <ul> <li>Cross sectional study and t</li> <li>Cohort study, incidence rat</li> <li>Case-control study, Odd's at</li> <li>Experimental study and cli</li> </ul> </li> <li>Sources of Errors in Medical I</li> <li>Bias and confounding and its at</li> <li>Validity and reliability</li> <li>The questionnaire design</li> <li>Writing the Research Paper on</li> <li>Protocol Writing</li> </ul>	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours           2           8           4           2           4           2           4           2	Lecture 2 4 2 2 2 2 2 2 2 2	Tutorial/ Practical 4 2 2 2 2						
<b>Topic</b> - Introduction:         - Introduction to research.         - Terminology and Rationale         - Originality         - Study design:         - Cross sectional study and the construction of the section of the	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours           2           8           4           2           4           2           4           2           4           2	Lecture 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Tutorial/ Practical 4 2 2 2 2						
<b>Topic</b> - Introduction:         - Introduction to research.         - Terminology and Rationale         - Originality         - Study design:         - Cross sectional study and the cohort study, incidence rate         - Case-control study, Odd's and the cohort study and clipheres         - Sources of Errors in Medical I         - Bias and confounding and its and confoundits and confounding and its and confoundits and confoun	e the prevalence rate te, relative & attributable risk ratio sampling inical trials Research Control.	No. of hours           2           8           4           2           4           2           4           2           2	Lecture 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Tutorial/ Practical 4 2 2 2 2						

Faculty of Medicine, Minia University: Course specifications & Matrices

- Ethics of medical research	1	1						
Total		30	20	10				
<ul> <li>5- Teaching and Learning Methods</li> <li>6- Teaching and Learning Methods for students with limited Capacity</li> </ul>	bing and hing Methods5.1- Lectures 5.2- Practical lessons 5.3- Assignmenthing and hing Methods udents with ed Capacity6.1- Outstanding student rewarded certificate of appreciation due to high level of achievement 6.2- Limited students divided into small group to make learning more effective							
7- Student Assessment								
A. Student Assessment Methods	<ul> <li>7.1- Research assignment</li> <li>7.2- Written exams <ul> <li>Short essay</li> <li>Commentary</li> </ul> </li> <li>7.3- Practical Exams</li> <li>7.4- Oral Exams</li> <li>7.5- Structured oral exams</li> </ul>							
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exa Assessment 2: Oral exam Assessment 3: Practical exam	mw week: wee	veek: 24-28 24-28 k: 24-28					
C. Weighting of Each Method of Assessment	<ul> <li>Final Written Examination: 50</li> <li>Oral Examination: 30%</li> <li>Practical Examination: 20%</li> <li>Total 100%</li> </ul>	9%						
8- List of References								
A. Course Notes/handouts	Department notes, lectures and	handout						
B. Essential Books	The Lancet Handbook of Essential Concepts in Clinical Research							
C. Recommended Text Books	<ul> <li>Introducing Research Methodology; A Beginner's Guide to Doing a Research Project</li> <li>Understanding Clinical Research. Renato Lopes and Robert Harrington; ISBN-10: 0071746781   ISBN-13: 978- 0071746786</li> <li>Users' guides to the medical literature: A manual for evidence-based clinical practice. Guyatt, G., D. Rennie, M.</li> </ul>							

	Meade and D. Cook (2002), AMA press Chicago.
	- <b>Research Methods in Community Medicine:</b> Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition. Joseph Abramson, Z. H. Abramson
D. Periodicals, websites	<ul> <li>https://phrp.nihtraining.com/users/login.php</li> <li>http://www.jhsph.edu/</li> </ul>

- Course Coordinators:
  - **≻**Coordinators:
  - 1) Lecturers: Dr / Shaimma Mahmoud, Dr/ Chrestina Monir
  - 2)Assistant coordinator: Assistant lecture Shaza Fadel
- Head of Department:
  - Professor Dr. Nashwa Nabil Kamal

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

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

Mashin N.K.

# نموذج رقم (11أ)

جامعة/أكاديمية	••				••	 	••	••		• •		•					• •	
كلية / معهد:		• •	• •						• •		• •		•		• •	•		
قسم:				• •	• •	 	• •	• •		• •		•		• •				

مسمى المقرر
كود المقرر

# A. Matrix of Coverage of Course ILOs By Contents

Contents									Inte	nde	d Le	arni	ng O	utcoi	nes	(ILO	s)			
(List of course topics)	nrs		A.	Kı	now	ledg	e &		<b>B.</b>	Inte	llect	ual	C	. Pro	fessi	onal	&	D. (	Genera	l &
	hoi			nd	erst	andi	ing			Sk	ills			Pract	ical	skills	5	Transf	erable	Skills
		A1	A2	A3	BA4	A5	A6	A7	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>B4</b>	C1	C2	C3	C4	C5	D1	D2	D3
- Introduction:		*			*				*			*								
- Introduction to research.	2																			
- Terminology and Rationale																				
- Originality																				
- Study design:			*				*				*		*		*					
- Cross sectional study and the prevalence rate	ifi <b>@</b> ti	ons	& N	latr	rices	5													P	age 28

- Cohort study, incidence rate, relative &																				
attributable risk																				
- Case-control study, Odd's ratio sampling																				
- Experimental study and clinical trials																				
<ul> <li>Sources of Errors in Medical Research</li> <li>Bias and confounding and its Control.</li> </ul>	4	*			*				*			*								
- Validity and reliability	2		*				*				*		*		*					
- The questionnaire design	4	*	*						*	*				*					*	
- Writing the Research Paper or Manuscript	4			*				*			*	*	*			*				
- Protocol Writing																				
- Critic technique for the literature review	2	*			*	*		*		*		*				*	*		*	
- Association and causation	2		*				*		*		*			*	*			*		*
- Evidence-based approach in medical practice	1	*		*						*			*		*					
- Ethics of medical research	1		*			*		*		*		*		*		*				

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

	Intended Learning Outcomes (ILOs)										
ds o ning ning	A. Knowledge &	B. Intellectual	C. Professional & Practical	D. General &							
fethoo Teach & Lear	Understanding	Skills	skills	Transferable Skills							
	Α	В	С	D							
Lecture	*	*									
Practical	*	*	*	*							
Presentation/seminar	*	*	*								
Journal club	*	*									
Thesis discussion		*	*	*							
Training courses & workshops		*	*	*							

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

ment		Intended I	Learning Outcomes (ILOs)	
Sessi	A. Knowledge	B. Intellectual	C. Professional &	D. General &
f As	&	Skills	Practical skills	Transferable Skills
hods c	Understanding			
Met	Α	В	С	D
Written exam	*	*		
Practical exam	*	*	*	*
Oral Exam	*	*	*	*

Faculty of Medicine, Minia University: Course specifications & Matrices

### blueprint for Research methodology course

Торіс	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (percentages)	Modified marks (Percenta
				Knowledge	Intellectual		gesj
Research							
Introduction: - Introduction to research. - Terminology and Rationale - Originality	3	10%	5	4	1	7%	5%
- Study design	4	13.3%	8	3	5	17%	17%
<ul> <li>Sources of Errors in Medical Research</li> <li>Bias and confounding and its Control.</li> </ul>	3	10%	4	2	2	13%	10%
- Validity and reliability	2	6.67%	3	2	1	7%	5%
- The questionnaire design	2	6.67%	3	1	2	5%	5%
<ul> <li>Writing the Research Paper or</li> <li>Manuscript</li> <li>Protocol Writing</li> </ul>	2	6.67%	4	1	3	13%	10%
- Critic technique for the literature review	2	6.67%	2	1	1	7%	5%
- Association and causation	1	3.33%	3	2	1	7%	8%
- Evidence -based approach in medical practice	2	6.67%	1	1		3%	5%
- Ethics of medical research	2	6.67%	2	2		3%	6%
Statistics							
Sampling	1	3.33%	2	1	1	4%	4%
Introduction to Sample Size Calculation	1	3.33%	1	1		2%	2%
Data presentation	1	3.33%	3	2	1	5%	4%
Tests of significance	2	6.67%	2	1	1	8%	8%
Introduction to SPSS	1	3.33%	1	1		3%	3%
Screening	1	3.33%	2	1	1	3%	3%
Total	30	100%					100%

#### • Course Coordinators:

Mastra N.K.

≻Coordinators:

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud Assistant Coordinator: Assis .lecturer Shaza Fadel Head of Department: Professor Dr. Nashwa Nabil Kamal

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

Faculty of Medicine, Minia University: Course specifications & Matrices

# Course Specifications of Use of Computer in Medicine for MD degree in Plastic Surgery

University: Minia

Faculty: Medicine

# Department(s) offering the course: Community Medicine department

9- Course Information								
• Academic Year/level: First part	Course Title:     Use of Computer in     Medicine     Code :							
• Number of teaching he	ours:							
- Lectures: 15 h	ours							
- Practical/clini	cal: 30 hours							
- <b>Total:</b> 45 hour	S							
10-	By the end of the course the student must be able to:							
verall Aims of the course	1. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data							
	2. To use precisely computer Excel in data analysis	programs SPSS, Epi Info and						
11-	Intended learnin	ng outcomes of course						
(ILOs): Unon completion of the con	urse the student should be able	to.						
Cpon completion of the con	al Describe the different same	ling strategies						
	a2. Summarize the advantages sampling strategies	and disadvantages of different						
E- Knowledge and	a3. Summarize different metho	ods of samples size calculation						
Understanding	a4. Recognize the sources and the recent methods in data collection and analysis.							
	a5. Identify the types of variables							
	a6. Identify types of tabular and graphic presentation of data							

	a7. Describe the normal curves and its uses
	a8. Identify the characters of normal distribution curve
	a9. Identify measures of central tendency and measures of dispersion
	a10. Explain regression analysis, its use and differentiate its types
	a11. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
	a12. Explain the usefulness of screening tests
	a13. Define each part of computer hardware and its function
	a14. Have a basic understanding of various computer applications in medicine - for instruction, information managing, and computer based medical record, etc.
	a15. Define telemedicine and its importance
	a16. Recognize importance of health information technology in improvement of healthcare
	a17. Describe electronic medical records and obstacles facing it
	a18. Identify the concept of big data analysis
	b1. Describe the normal curves
	b1. Describe the normal curves b2. Describe and summarize data
	<ul><li>b1. Describe the normal curves</li><li>b2. Describe and summarize data</li><li>b3. Select the proper test of significance for a specific data.</li></ul>
F- Intellectual Skills	<ul><li>b1. Describe the normal curves</li><li>b2. Describe and summarize data</li><li>b3. Select the proper test of significance for a specific data.</li><li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li></ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> </ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> </ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> </ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> </ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> </ul>
F- Intellectual Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> <li>c4. Construct tables and graphs</li> </ul>
F- Intellectual Skills G- Professional and Prooficed Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> <li>c4. Construct tables and graphs</li> <li>c5. Calculate different samples sizes</li> </ul>
F- Intellectual Skills G- Professional and Practical Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> <li>c4. Construct tables and graphs</li> <li>c5. Calculate different samples sizes</li> <li>c6. Calculate measures of central tendency and measures of dispersion</li> </ul>
F- Intellectual Skills G- Professional and Practical Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> <li>c4. Construct tables and graphs</li> <li>c5. Calculate different samples sizes</li> <li>c6. Calculate measures of central tendency and measures of dispersion</li> <li>c7. Calculate sensitivity, specificity, and predictive values</li> </ul>
F- Intellectual Skills G- Professional and Practical Skills	<ul> <li>b1. Describe the normal curves</li> <li>b2. Describe and summarize data</li> <li>b3. Select the proper test of significance for a specific data.</li> <li>b4. Interpret selected tests of significance and the inferences obtained from such tests</li> <li>b5. Criticize adoption of telemedicine</li> <li>b6. Discover factors constraining adoption of telemedicine</li> <li>c1. Design data entry file</li> <li>c2. Validate data entry</li> <li>c3. Manage data files</li> <li>c4. Construct tables and graphs</li> <li>c5. Calculate different samples sizes</li> <li>c6. Calculate measures of central tendency and measures of dispersion</li> <li>c7. Calculate sensitivity, specificity, and predictive values</li> <li>c8. Design framework for understanding of health information system performance</li> </ul>

12-	Course Contents
	d6. Discover skills to carry out the process of improving health information system performance
	d5. Appraise adoption of telemedicine
H- General and transferable Skills	d4. Utilize computers in conducting researches
	d3. Use standard computer programs for statistical analysis effectively
	d2. Analyze and interpret data
	d1. Appraise scientific evidence

Торіс	No. of hours	Lecture	Tutorial/ Practical	
Statistics				
- Sampling	1	1		
- Introduction to Sample Size Calculation	2	-	2	
- Data presentation	3	1	2	
- Tests of significance	3	1	2	
- Introduction to SPSS	2	-	2	
- Proportion test	3	1	2	
- Chi-square test	4	-	4	
- Student T test, Paired T test	4	-	4	
- ANOVA test	3	1	2	
- Correlation (simple and multiple)	3	1	2	
- Regression	3	1	2	
- Screening	3	1	2	
Use of Computer in Medicine		•	1	
- General concepts Introduction to Microsoft PowerPoint	3	1	2	
- Health Information Systems (HIS)	2	2	-	
- Telemedicine	1	1	-	
- Software Used in the Health Care	4	2	2	
- Big Data Analysis in Health	1	1	-	

Total		45	15	30	
13- eaching and Learning Methods	<ul><li>5.1- Lectures</li><li>5.2- Practical lessons</li><li>5.3- Assignment</li></ul>				
14- eaching and Learning Methods for students with limited Capacity	<ul> <li>6.1- Outstanding student rewarded certificate of appreciation due to high level of achievement</li> <li>6.2- Limited students divided into small group to make learning more effective</li> </ul>				
15- Student Assessment					
D. Student Assessmen Methods	<ul> <li>7.1- Research assignment</li> <li>7.2- Written exams <ul> <li>Short essay</li> <li>Commentary</li> </ul> </li> <li>7.3- Practical Exams</li> <li>7.4- Oral Exams</li> <li>7.5- Structured oral exams</li> </ul>				
E. Assessment Schedule (Timing o Each Method of Assessment)	Assessment 1: Final written examweek: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28				
F. Weighting of Each Method of Assessment	<ul> <li>Final Written Examination: 50%</li> <li>Oral Examination: 30%</li> <li>Practical Examination: 20%</li> <li>Total 100%</li> </ul>				
16- List of References					
E. Course Notes/handouts	Department notes, lectures and	l handout			
F. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition				
G. Recommended Text Books	<ol> <li>Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage.</li> <li>Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd Edition</li> </ol>				
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H. Periodicals, websites	<ol> <li>Journal of Biomedical Education</li> <li><u>https://lagunita.stanford.edu/courses/Medicine/MedStats-SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEqqUjLjk8TCR7lzPdnpGqwin06L-GjFq32a62w3j6R5s9c</u></li> </ol>				

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

2)Assistant coordinator: Assistant lecture Shaza Fadel

Head of Department: Prof. Dr. Nashwa Nabil Kamal

Marthin N.K.

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

# نموذج رقم (11أ)

مسمى المقرر	جامعه/اکادیمیه : کلبة / معهد ·
كود المقرر	قسم:

### D. Matrix of Coverage of Course ILOs By Contents

Contents	HOURS					Inter	nde	ed L	<i>l</i> ear	nin	g Oı	utco	omes	5 (IL	Os)			
List of course )						A. K	nov	wlee	dge	&	Und	erst	and	ing				
List of course )		A1	A2	A3	A4	A5	A	A7	A8	A9	A	Α	A12	A13	A14	A15	A16	A17
(topics							6				10	1						
												1						
Statistics																		
- Sampling	1		*		*								*		*		*	
- Introduction to Sample Size Calculation	2			*					*					*				*
- Data presentation	3	*			*	*						*			*	*	*	

مر ہ

- Tests of significance	3	*				*	*		*		*	*				*		*
- Introduction to SPSS	2		*	*				*		*			*	*			*	
- Proportion test	4		*		*								*		*			*
- Chi-square test	4	*		*		*	*					*		*		*		*
- Student T test, Paired T test	3					*										*		
- ANOVA test	3		*		*								*		*		*	
- Correlation (simple and multiple)	3			*					*					*				*
- Regression	3		*		*								*		*		*	
- Screening	3			*					*					*				*
Use of Computer in Medicine																		
- General concepts Introduction to Microsoft PowerPoint	3	*				*	*		*		*	*				*		*
- Health Information Systems (HIS)	2		*	*				*		*			*	*			*	
- Telemedicine	1		*		*								*		*			*

- Software Used in the Health Care	4	*	*	*	*			*	*	*	*
- Big Data Analysis in Health	1			*						*	

Contents	S							Inte	nde	d Lea	arniı	ng O	utco	mes	(ILC	Os)							
List of course )	UR	B	. Int	ellec	tual	Skil	ls		C. Pi	rofes	sion ski	al & ills	Pra	ctica	ıl	D. General & Transferable Skills							
(topics	НO	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	C7	C8	D1	D2	D3	D4	D5	D6		
Statistics																							
- Sampling	1			*	*				*					*					*				
- Introduction to Sample Size Calculation	2		*			*	*	*			*						*	*			*		
- Data presentation	3		*		*		*				*	*		*		*	*				*		
- Tests of significance	3	*		*		*			*	*			*		*				*	*			
- Introduction to SPSS	2				*			*		*								*		*			
- Proportion test	4		*		*		*		*		*					*	*		*		*		

- Chi-square test	4			*			*									*				
- Student T test, Paired T test	3	*				*		*		*							*		*	
- ANOVA test	3			*	*				*				*					*		
- Correlation (simple and multiple)	3	*				*		*		*							*		*	
- Regression	3			*	*				*				*					*		
- Screening	3		*			*	*	*			*					*	*			*
Use of Computer in Medicine																				
- General concepts Introduction to Microsoft PowerPoint	3	*		*		*			*	*		*		*				*	*	
- Health Information Systems (HIS)	2				*			*		*							*		*	
- Telemedicine	1		*		*		*		*		*				*	*		*		*
- Software Used in the Health Care	4			*			*									*				
- Big Data Analysis in Health	1	*				*		*		*							*		*	

### E. Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

		Intended Learn	ning Outcomes (ILOs)	
Aethods o Teaching & Learning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	Α	В	С	D
Lecture	A 1: 17		C1:C8	
Practical		B1:B6		
Presentation/seminar	A11:17	B1:B6		D1:D6

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

lent		Intended I	Learning Outcomes (ILOs)	
of Assessm	A. Knowledge &	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
hods c	Understanding			
Met	Α	В	С	D
Written exam	*	*	*	*
Practical exam	*	*	*	*
Oral Exam	*	*	*	*

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

#### blueprint for Uses of computer in Medicine course

• Course Coordinators:

- ≻Coordinators:
- 3) Lecturers: Dr / Shaimma Mahmoud, Dr/ Chrestina Monir
- 2)Assistant coordinator: Assistant lecture Shaza Fadel
- Head of Department:
  - Professor Dr. Nashwa Nabil Kamal

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

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

Mashin N.K.

### Course Specifications of Surgical Anatomy for MD degree in Plastic Surgery

University: Minia

Faculty: Medicine

#### **Department**(s) offering the course:

- Plastic Surgery Department (Major);
- Human Anatomy & Embryology Department (Minor)

17-	Course Informat	ion
• Academic Year/level: First part	Course Title: Surgical Anatomy	• Code:
Number of teaching here	ours:	
- Lectures: Total of	40 hours; 2 hours/week	
- Practical/clinical:		
18- verall Aims of the course	By the end of the course the stu have the professional knowledg neck, hand, abdomen and pelvis	ident should be able to have the ge about the anatomy head, s
19- (ILOs):	Intended learnin	g outcomes of course
Upon completion of the con	urse, the student should be able	to:
	a1. Identify the recent advanc function of the craniofacial re and intugemental system on ma	es in the normal structure and egion, neck, trunk, extremities acro level.
I- Knowledge and	a2. Enumerate recent advance development of the cranic extremities and intugemental sy	es in the normal growth and ofacial region, neck, trunk, ystem.
Understanding	a3. List the recent advance function, growth and developm neck, trunk, extremities and inter-	s in the abnormal structure, nent of the craniofacial region, ugemental system.
	a4. Describe recent advances common and rare anatomical cranio-maxillofacial and recons	in the natural history of the l problems related to plastic, structive surgery.

	a5. Describe recent advances diseases related to plasti reconstructive surgery.	and gene c, cran	tic backgro io-maxillof	ound in the acial and				
	b1. Design research studies anatomical field.	that add	to knowle	dge in the				
	b2. Formulate scientific papers maxillofacial region.	s in the a	natomy of	the cranio-				
J- Intellectual Skills	b3. Interpret Scientific dis evidences and proofs in the an region	cussion atomical a	based on aspects of c	scientific craniofacial				
	b4. Criticize researches related to plastic surgery	to the ana	atomical iss	ues related				
K- Professional and Practical Skills								
L. Ceneral and	d.1 Assess himself and identify	his perso	nal learning	g needs.				
transferable Skills	d.2 Use of different sources for information and knowledge in anatomy field.							
20-	<b>Course Contents</b>							
Торіс		Total No. of hours	Lecture	Tutorial/ Practical				
Introduction to regional anatom	Ŋ	2	2	-				
Skin anatomy		2	2	-				
The vascular territories of the b applications	ody and their clinical	2	2	-				
The principles of muscle and m	usculo-cutaneous flaps	2	2	-				
Applied and regional anatomy of peripheral nervous system and	of upper and lower limb, nervous plexus	4	4	-				
Surgical anatomy of the head an	and nervous plexus							
	nd neck	4	4	-				
Thoracic wall	nd neck	4 2	4	-				
Thoracic wall Anterior and posterior abdomin	nd neck al wall	4 2 2	4 2 2	-				
Thoracic wall Anterior and posterior abdomin Male and female genital organs	nd neck al wall	4 2 2 4	4 2 2 4	-				
Thoracic wall Anterior and posterior abdomin Male and female genital organs Osteology of the skull	nd neck al wall	4 2 2 4 2	4 2 2 4 2	-				
Thoracic wall Anterior and posterior abdomin Male and female genital organs Osteology of the skull Embryology of the head and ne	nd neck al wall ck	4 2 2 4 2 4 4	4 2 2 4 2 4 2 4	-				

Embryology of the male and fe	male genital system	4	4				
Embryology of the upper and lo	ower limbs	2	2				
Postnatal craniofacial growth a	nd development	2	2	-			
Total		40	40	-			
21-	5.1 -Lectures.						
Learning Methods	general and transferable skills	its to emp	ower and a	ssess the			
22- eaching and Learning Methods for students with limited Capacity							
23- Student Assessment							
G. Student Assessment Methods	7.1- Logbook 7.2- Written exam 7.3- Oral exam						
H. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Logbook week 20 Assessment 2: Written exam week 24-28 Assessment 3: Oral exam week 24-28						
I. Weighting of Each Method of Assessment	- Written Examination: 100 (50 - Oral Examination: 100 (50 %) Total: 200 (100%)	(%) )					
24-	List of Reference	S					
I. Course Notes/handouts	Department lecture notes and ha	andouts					
J. Essential Books	Gray's Anatomy						
K. Recommended Text Books	<ul> <li>Moore et al., Clinically Orient</li> <li>Grant's Atlas of Anatomy</li> <li>Neligan et al., Plastic Surgery,</li> </ul>	ed Anato	my 013				
L. Periodicals, websites	- American journal of Anatomy - Plastic and Reconstructive Sur	and Emb	ryology rnal				

## Course Coordinator/s: Prof. Khaled M. Hassan

### Prof. Nabil Abd Al-Kader

## Head of Department: Prof. Ahmed Mahrous Mohamed



Date of last update & approval by department Council: 7/3/2023

# نموذج رقم (11أ)

مسمى المقرر	جامعة/اكاديمية : كلبة / معهد ·
كود المقرر	قىم:

A. Matrix of Coverage of Course ILOs By Contents

Contents		Intended Learning Outcomes (ILOs)											
(List of course topics)	RS		A. Knowledge &			B. I	ntelle	ctual S	Skills	C. Professional & D. General &		eneral &	
	HOU		Understanding								Practical skills	Transfe	rable Skills
		A1	A2	A3	A4	A5	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>B4</b>		D1	D2
Introduction to regional anatomy	2	*			*				*			*	
Skin anatomy	2		*				*						*
The vascular territories of the body and their clinical applications	2	*	*						*	*			
The principles of muscle and musculo-cutaneous flaps	2 y: Co	ourse	specifi	cations	& Mat	rices		*				*	Page 49
Applied and regional anatomy of upper and lower limb,	4	*			*	*		*		*		*	

peripheral nervous system and nervous plexus												
Surgical anatomy of the head and neck	4		*				*		*			
Thoracic wall	2	*		*						*		*
Anterior and posterior abdominal wall	2		*			*		*		*	*	
Male and female genital organs	4	*			*				*		*	
Osteology of the skull	2		*				*					*
Embryology of the head and neck	4	*	*						*	*		
Embryology of the face	2			*				*			*	*
Embryology of the male and female genital system	4	*			*	*		*		*	*	
Embryology of the upper and lower limbs	2		*				*		*			
Postnatal craniofacial growth and development	2	*		*						*		*

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

ů.	Intended Learning Outcomes (ILOs)										
ds o ning ning	A. Knowledge &	B. Intellectual	C. Professional & Practical	D. General &							
fetho Teach & Lear	Understanding	Skills	skills	Transferable Skills							
	Α	В	С	D							
Lecture	*	*									
Practical	*	*	*	*							
Presentation/seminar	*	*	*								
Journal club	*	*									
Thesis discussion		*	*	*							
Training courses & workshops		*	*	*							

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

		Intended Learning Outcomes (ILOs)											
at of	A. Knowledge	B. Intellectual	C. Professional &	D. General &									
iods c	&	Skills	Practical skills	Transferable Skills									
Meth Asses	Understanding												
	Α	В	С	D									
Written exam	*	*											
Oral exam	*	*	*	*									
Practical Exam	*	*	*										

# Blueprint of Plastic surgery MD (Surgical anatomy Examination Paper)

# 16 Mark

	Topics	H O U R S	Knowl edge %	Intell ectua 1 %	% of topic s	Mar k	Actu al mark
1	Introduction to regional anatomy	2	100	0	5	5	5
2	Skin anatomy	2	70	30	5	5	5
3	The vascular territories of the body and their clinical applications	2	70	30	5	5	5
4	The principles of muscle and musculo-cutaneous flaps	2	70	30	5	5	5
5	Applied and regional anatomy of upper and lower limb, peripheral nervous system and nervous plexus	4	70	30	10	10	10
6	Surgical anatomy of the head and neck	4	80	20	10	10	10
7	Thoracic wall	2	80	20	5	5	5
8	Anterior and posterior abdominal wall	2	100	0	5	5	5
9	Male and female genital organs	4	100	0	10	10	10
10	Osteology of the skull	2	70	30	5	5	5
11	Embryology of the head and neck	4	70	30	10	10	10
12	Embryology of the face	2	70	30	5	5	5
13	Embryology of the male and female genital system	4	70	30	10	10	10
14	Embryology of the upper and lower limbs	2	80	20	5	5	5
15	Postnatal craniofacial growth and development	2	80	20	5	5	5
	Total	40			100 %	100	100

### Course Specifications of Surgical Pathology for MD degree in Plastic Surgery

University: Minia

Faculty: Medicine

#### **Department**(s) offering the course:

- Plastic Surgery Department (Major);
- Pathology Department (Minor)

25-	Course Informat	ion							
• Academic Year/level: First part	Course Title:     Surgical Pathology	• Code:							
Number of teaching hours:									
- Lectures: Total of	40 hours; 2 hours/week								
- Practical/clinical:									
26- verall Aims of the course	<b>Aims of the</b> By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of medical diseases.								
27- (ILOs): Upon completion of the con	27- Intended learning outcomes of course (ILOs): Upon completion of the course, the student should be able to:								
	a1. Mention Principles of General Pathology								
	a2. Enumerate recent advances in the natural history of the common and rare pathological problems related to plastic, cranio-maxillofacial and reconstructive surgery.								
M- Knowledge and Understanding	a3. Enumerate recent advances in the pathogenesis of diseases related to plastic, cranio-maxillofacial and reconstructive surgery.								
	a4. Describe correlation of gross pathology with the clinic basis of diseases related to plastic, cranio-maxillofacial a reconstructive surgery.								
N- Intellectual Skills	b1. Design research studies t pathological field.	that add to knowledge in the							

	b2. Formulate scientific papers in gross and microscopic picture of different diseases in plastic surgery									
	b3. Interpret Scientific discussion based on scientific evidences and proofs in the pathological aspects of craniofacial region									
	b4. Criticize researches related to the pathological issues related to plastic surgery									
O- Professional and Practical Skills										
	d.1 Assess himself and identify	his perso	nal learning	g needs.						
P- General and transferable Skills	informat	ion and kno	wledge in							
28- Course Contents										
Торіс		No. of hours	Lecture	Tutorial/ Practical						
Cell and tissue damage		2	2	-						
Inflammation	Inflammation									
		4	-							
Healing		4	4	-						
Healing Infection		4 4 2	4	-						
Healing Infection Neoplasia and skin tumors		4 4 2 4	4 2 4	-						
Healing Infection Neoplasia and skin tumors Cutaneous vascular anomalies		4 4 2 4 2	4 2 4 2	- - - -						
Healing Infection Neoplasia and skin tumors Cutaneous vascular anomalies Physics of LASER		4 2 4 2 4 2 4	4 2 4 2 4 2 4	- - - -						
Healing Infection Neoplasia and skin tumors Cutaneous vascular anomalies Physics of LASER Principles of cryotherapy and r	adiofrequency	4 4 2 4 2 4 4 4 4	4 2 4 2 4 2 4 4 4	- - - -						
Healing Infection Neoplasia and skin tumors Cutaneous vascular anomalies Physics of LASER Principles of cryotherapy and r Cell physiology	adiofrequency	4 2 4 2 4 4 4 4 2	4 2 4 2 4 4 4 4 2	- - -						
HealingInfectionNeoplasia and skin tumorsCutaneous vascular anomaliesPhysics of LASERPrinciples of cryotherapy and rCell physiologyThe circulation	adiofrequency	4 2 4 2 4 4 2 4 2 4	4 2 4 2 4 4 2 4 2 4	-						

5.1 -Lectures.

general and transferable skills

Acid-base balance

Total

29-

Sexual differentiation and puberty

Learning Methods

eaching and

2

2

40

5.2- Assignments for the students to empower and assess the

2

2

40

-

-

30- eaching and Learning Methods for students with limited Capacity	
31-	Student Assessment
J. Student Assessment Methods	- Logbook - Written exam - Oral exam
K. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Logbook week 20 Assessment 2: Written exam week 24-28 Assessment 3: Oral exam week 24-28
L. Weighting of Each Method of Assessment	<ul> <li>Final Written Examination: 100 (50 %)</li> <li>Oral Examination: 100 (50 %)</li> <li>Total: 200 (100%)</li> </ul>
32-	List of References
M. Course Notes/handouts	Department lecture notes and handouts
N. Essential Books	Robbins pathologic basis of diseases
O. Recommended Text Books	<ul> <li>Rosi &amp;Ackerman textbook of pathology</li> <li>Sternberg textbook of pathology</li> </ul>
P. Periodicals, websites	<ul> <li>Human pathology</li> <li>Pathology</li> <li>Plastic and Reconstructive Surgery Journal</li> </ul>

## **Course Coordinator/s:** Prof. Khaled M. Hassan Prof. Heba M. Tawfik

Head of Department: Prof. Ahmed Mahrous Mohamed



#### Date of last update & approval by department Council: 7/3/2023

# نموذج رقم (11أ)

مسمى المقرر	جامعة/اكاديمية : كلية / معهد.
كود المقرر	ـــــــــــــــــــــــــــــــــــــ

C. Matrix of Coverage of Course ILOs By Contents

Contents	Intended Learning Outcomes (ILOs)											
(List of course topics)	JRS	A	A. Knowledge & Understanding		B. I	ntelle	ctual S	Skills	C. Professional &	D. Ge	eneral &	
	lOH	τ			Understanding							Practical skills
		A1	A2	A3	A4	<b>B1</b>	B2	<b>B3</b>	<b>B4</b>		D1	D2
Cell and tissue damage	2			*				*			*	
Inflammation	4	*				*						*
Healing	4	*						*	*			
Infection	2		*				*				*	*
Neoplasia and skin tumors	rse s 4	pecific	ations	& Ma *	trices *		*		*		*	Page 58

Cutaneous vascular anomalies	2	*				*		*			
Physics of LASER	4		*						*		*
Principles of cryotherapy and radiofrequency	4	*			*		*		*	*	
Cell physiology	2			*				*		*	
The circulation	4	*				*					*
Body response to trauma and hemorrhage	4	*						*	*		
Acid-base balance	2		*				*			*	*
Sexual differentiation and puberty	2										
Total	40										

#### **D.** Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

	Intended Learning Outcomes (ILOs)						
ds oi ning	A. Knowledge &	B. Intellectual	C. Professional & Practical	D. General &			
fetho Teach & Lear	Understanding	Skills	skills	Transferable Skills			
	Α	В	С	D			
Lecture	*	*					
Practical	*	*	*	*			
Presentation/seminar	*	*	*				
Journal club	*	*					
Thesis discussion		*	*	*			
Training courses & workshops		*	*	*			

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

	Intended Learning Outcomes (ILOs)						
at of	A. Knowledge	B. Intellectual	C. Professional &	D. General &			
ods o ssmen	&	Skills	Practical skills	Transferable Skills			
Meth Asses	Understanding						
	Α	В	С	D			
Written exam	*	*					
Oral exam	*	*	*	*			
Practical Exam	*	*	*				

# **Blueprint of Plastic surgery MD (Surgical pathology**

# **Examination Paper)**

# 100 Mark

	Topics	H O U R S	Knowl edge %	Intell ectua 1 %	% of topic s	Mar k	Actu al mark
1	Cell and tissue damage	2	100	0	5	5	5
2	Inflammation	4	70	30	10	10	10
3	Healing	4	70	30	10	10	10
4	Infection	2	70	30	5	5	5
5	Neoplasia and skin tumors	4	70	30	10	10	10
6	Cutaneous vascular anomalies	2	80	20	5	5	5
7	Physics of LASER	4	80	20	10	10	10
8	Principles of cryotherapy and radiofrequency	4	100	0	10	10	10
9	Cell physiology	2	100	0	5	5	5
10	The circulation	4	70	30	10	10	10
11	Body response to trauma and hemorrhage	4	70	30	10	10	10
12	Acid-base balance	2	70	30	5	5	5
13	Sexual differentiation and puberty	2	70	30	5	5	5
14	Total	40	80	20	100 %	100	100

#### **Course Specifications of Plastic surgery for MD degree**

## (2<sup>nd</sup> part ) in Plastic Surgery

#### University: Minia

Faculty: Medicine

#### **Department offering the course:**

#### - Plastic Surgery department

33-	33- Course Information					
• Academic Year/level: MD Degree (2 <sup>nd</sup> part) in Plastic Surgery (PS100)		Course Title:     Plastic Surgery	• Code:			
Number of teaching h	nours:					
- Lectures: Total of	f hours; hou	r /week				
- Practical/clinical:	Fotal of hou	rs h/week				
2-Overall Aims of the course	<ul> <li>Deliver an advanced knowledge of plastic surgery and its subspecialties and hence the candidate can recognize a wide range of plastic surgical problems</li> <li>Establish an advanced skill of the candidates to deal safely with the plastic surgical disorders</li> </ul>					
<b>3- Intended learn</b> Upon completion of the co	<b>3- Intended learning outcomes of course (ILOs):</b> Upon completion of the course, the student should be able to:					
	a1. Mention the recent advances in the normal struc function of the craniofacial region, neck, trunk, extrem intugemental system on micro level.					
O Knowledge and	a2. Describe correlation of histopathology with the clinical basis of diseases related to plastic, cranio-maxillofacial and reconstructive surgery					
Q- Knowledge and Understanding	a3. List the clinical picture and differential diagnosis of the diseases related to plastic, cranio-maxillofacial and reconstructive surgery.					
	a4. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of the diseases related to plastic, cranio-maxillofacial and reconstructive surgery.					

	a5. Describe recent advances in the various therapeutic methods/alternatives used for the diseases related to plastic, cranio-maxillofacial and reconstructive surgery.		
	a6. Enumerate the principles and fundamentals of quality of professional practice in the field of Plastic Surgery		
	a7. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.		
	b1. Interpret data acquired through history taking to reach a provisional diagnosis for plastic surgery.		
	b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for plastic surgery.		
	b3. Conduct research studies that add to knowledge.		
<b>R- Intellectual Skills</b>	b4. Formulate scientific papers in the recent trends in managing different conditions in plastic surgery		
	b5. Assess risk in professional practices in the field of Plastic Surgery		
	b6. Plan to improve performance in the field of Plastic Surgery		
	b7. Identify plastic ,cranio-maxillofacial and reconstructive problems and find solutions		
	b8. Have the ability to innovate nontraditional solutions to plastic, cranio-maxillofacial and reconstructive problems.		
	b9. Mange Scientific discussion based on scientific evidences and proofs.		
	1. b10. Criticize researches related to Plastic Surgery		
	c1. Master the basic and modern professional clinical and surgical skills in the area of Plastic Surgery		
	c2. Evaluate and develop methods and tools existing in the area of Plastic Surgery		
S- Professional and Practical Skills	c3. Use technological methods to serve the professional practice		
	c4. Plan for the development of professional practice and development of the performance of others		
	c5. Train to develop new methods, tools and ways of professional practice of plastic surgery		
	d.1 Present reports in seminars effectively		
	d2. Use appropriate computer programs		
T- General and transferable Skills	d3. Teach others and evaluate their performance		
	d4. Assess himself and identify his personal learning needs		
	d5. Use of different sources for information and knowledge		

	d6. Work coherently and successfully as a part of a team and .team's leadership						
	1. d7. Manage scientific meetings according to the available time						
4- Course Content	4- Course Contents						
Торіс		total hours	lecture	Surgical	Clinical		
PRINCIPLES, TECH AND BASIC SCIE	NIQUES ENCE						
- Wound Healing: Normal a	and Abnormal	10	2	4	4		
- Wound Care	•	9	2	4	3		
- The Blood Supply of	the Skin	10	2	4	4		
- Muscle Flaps and Their I	Blood Supply	10	4	3	3		
- Implant Materi	als	10	2	4	4		
- Principles of Microsurgery		10	2	5	3		
- Microsurgical Repair of Peripheral Nerves and Nerve Grafts		10	2	5	3		
- Tissue Expansion		9	2	3	3		
SKIN AND SOFT TISSUE							
- Dermatology for Plastic Surgeons		12	2	5	5		
- Malignant Skin Leisions		12	2	5	5		
- Pigmented Skin L	esions	14	4	5	5		
- Thermal, Chemical, and Ele	ectrical Injuries	16	4	7	5		
- Principles of Burn Rec	onstruction	14	2	7	5		
- Radiation and Radiation	on Injuries	12	2	5	5		
- Lasers in Plastic S	urgery	12	2	5	5		
CONGENITAL ANOMALIES PLASTIC SURG	AND PEDIATRIC ERY						
- Vascular Anomalies		14	2	7	5		
- Cleft Lip and Palate		16	4	7	5		
- Craniosynostosis		14	4	5	5		
- Craniofacial Microsomia		12	2	5	5		
- Orthognathic Sur	rgery	12	4	4	4		
- Craniofacial Clefts and Hy	pertelorbitism	10	2	4	4		

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- Hypospadias	10	2	4	4
HEAD AND NECK				
- Soft Tissue and Skeletal Injuries of the Face	13	2	7	4
- Maxillofacial fractures	10	2	4	4
- Head and Neck Cancer	13	4	5	4
- Salivary Gland Tumors	9	2	4	4
- Reconstruction of the Scalp, Calvarium, and Forehead	9	2	4	4
- Reconstruction of the Lips	9	2	4	4
- Reconstruction of the Cheeks	9	2	4	4
- Nasal Reconstruction	12	2	5	5
- Reconstruction of the Eyelids	12	2	5	5
- Facial Paralysis Reconstruction	12	2	5	5
- Mandible Reconstruction; Reconstruction of Defects of the Maxilla and Skull Base	10	2	4	4
AESTHETIC SURGERY				
- Cutaneous Resurfacing: Chemical Peeling, Dermabrasion, and Laser	13	2	7	4
- Filler Materials; Botulinum Toxin	10	2	4	4
- Structural Fat Grafting	11	2	5	4
-Blepharoplasty	10	2	4	4
- Facelift	10	4	3	3
-Rhinoplasty	14	4	6	4
-Liposuction	14	2	8	4
-Abdominoplasty and Body Contouring	14	4	5	5
BREAST				
-Augmentation Mammoplasty	12	2	5	5
- Mastopexy	10	2	4	4
- Breast Reduction: Inverted-T Technique, Vertical Reduction	15	4	7	4
- Gynecomastia	10	2	4	4
- Breast Cancer for the Plastic Surgeon	11	2	5	4
- Breast Reconstruction	12	4	4	4

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TRUNK AND LOWER	r.				
EXTREMITY Thoracic Paconst	10	2	4	4	
	uction	10	2	4	4
-Abdominal Wall Reco	nstruction	10	2	4	4
- Lower-Extremity Reco	onstruction	12	2	5	5
- Foot and Ankle Reco	nstruction	12	2	5	5
- Reconstruction of the	Perineum	12	2	5	5
-Lymphedema	a	10	2	4	4
- Pressure Sore	es	11	2	5	4
- Reconstruction of the	he Penis	10	2	4	4
HAND					
- Principles of Upper Lin	nb Surgery	10	2	4	4
- Radiologic Imaging of the Hand and Wrist		10	2	4	4
- Soft-Tissue Reconstruction	10	2	4	4	
- Fractures and Ligamentous Injuries of the Wrist Fractures, Dislocations, and Ligamentous Injuries of the Hand		10	2	4	4
- Tendon Healing and Flexor Tendon Surgery		12	2	5	5
- Repair of the Extensor Tendon System		12	2	5	5
- Infections of the Up	per Limb	12	2	5	5
-Compression Neuropathies in the Electrophysiologic S	he Upper Limb and Studies	10	2	4	4
-Thumb Reconstru	iction	10	2	4	4
- Tendon Transf	ers	12	2	5	5
- Congenital Hand Abnormalities		12	2	5	5
- Replantation in the Upper Extremity		13	2	5	5
Upper Limb Amputations		10	2	4	4
Total		760	160	328	272
5- Teaching and Learning Methods	1-Lectures. 2- Clinical cases 3- Surgical lessons 4- Attending and participating in scientific conferences, workshops, and group discussion to acquire the general and transferable skills needed.				

6- Teaching and Learning Methods for students with limited Capacity			
7- Student Assessment			
M. Student Assessment Methods	<ol> <li>Research assignment: to assess general transferable skills, intellectual skills.</li> <li>Written exams:         <ul> <li>Short essay: to assess knowledge.</li> <li>Problem solving: to assess general transferable skills, intellectual skills.</li> </ul> </li> <li>Clinical exams: to assess practical skills, intellectual skills.</li> <li>Oral Exams: to assess knowledge.</li> </ol>		
N. Assessment Schedule (Timing of Each Method of Assessment)	written exam Oral exam Clinical exam Operative exam		
O. Weighting of Each Method of Assessment	Written Examination : 300 marks (50%) Clinical / oral Examination : (50 %) Total : (100 %) pass or not		
8- List of References			
Q. Course Notes/handouts	Lectures notes prepared by staff members in the department.		
R. Essential Books	<ul> <li>- GRABB AND SMITH'S PLASTIC SURGERY 6th edition (2007)</li> <li>- Plastic, maxillofacial and reconstructive surgery Georgiade 3rd edition (1997)</li> </ul>		
S. Recommended Text Books	<ul> <li>Plastic Surgery: 1st edition by Joseph McCarthy 1990 &amp; 2nd edition by Stephen Mathes 2006</li> <li>Plastic Surgery (indications, operations and outcomes) Achauer et al 2000</li> <li>Georgiade (Plastic, Maxillofacial and Reconstruction Surgery) 3rd edition</li> <li>Reconstructive Surgery (principles, anatomy&amp; technique) by Stephen Mathes and Foad Nahai</li> <li>Pediatric Plastic Surgery by Michael Bentz</li> <li>Grabb and Smith's Plastic Surgery 5th edition</li> </ul>		
T. Periodicals, websites	<ul> <li>American Journal of plastic surgery</li> <li>British Journal of plastic surgery</li> <li>Journal of plastic and reconstructive surgery</li> <li>American association of surgery of the hand.</li> <li>The plastic Surgery.</li> </ul>		

-	Archives of plastic Surgery.
-	www.google.com
-	WWW.emedicine.com
-	www.pubmed.com
-	www.medscape.com
-	www.freemedicaljournals.com
-	www.freebooks4doctors.com
-	www.highwire.com

**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)

مسمى المقرر	جامعة/أكاديمية : كلبة / معهد.
كود المقرر	قسم:

### E. Matrix of Coverage of Course ILOs By Contents

Contents	Η				I	nten	ded	Le	arn	ing	Ou	itcoi	nes	(ILC	)s)						
(List of course tonics)	0		A. K	Kno	wle	dge	&		<b>B. Intellectual Skills</b>												
(List of course topics)	U		Unc	lers	stan	din	5														
	R	<b>A1</b>	Α	Α	Α	Α	Α	Α	В	В	В	В	В	В	В	В	В	В			
	S		2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	10			
PRINCIPLES, TECHNIQUES AND BASIC SCIENCE																					
- Wound Healing: Normal and Abnormal	2		*		*			*	*		*		*	*		*					
- Wound Care	2		*		*				*		*		*	*				*			
- The Blood Supply of the Skin	2		*	*	*			*	*	*	*	*		*				*			
- Muscle Flaps and Their Blood Supply	4		*		*				*		*							*			
- Implant Materials	2	*			*			*	*		*							*			

Faculty of Medicine, Minia University: Course specifications & Matrices

- Principles of Microsurgery	2		*		*			*		*	*				*		
- Microsurgical Repair of Peripheral Nerves and Nerve Grafts	2	*	*	*	*			*		*				*		*	*
- Tissue Expansion	2			*			*		*	*			*	*	*		
SKIN AND SOFT TISSUE																	
- Dermatology for Plastic Surgeons	2		*	*				*		*							*
- Malignant Skin Leisions	2							*		*				*	*		
- Pigmented Skin Lesions	4		*				*	*		*				*	*		
- Thermal, Chemical, and Electrical Injuries	4		*	*	*			*	*	*					*		*
- Principles of Burn Reconstruction	2	*	*	*		*		*		*		*	*				
- Radiation and Radiation Injuries	2		*	*				*		*							*
- Lasers in Plastic Surgery	2		*	*				*		*							*
CONGENITAL ANOMALIES AND PEDIATRIC PLASTIC SURGERY																	
- Vascular Anomalies	2	*			*		*	*		*						*	
- Cleft Lip and Palate	4	*			*			*		*					*	*	*
- Craniosynostosis	4	*				*		*		*	*		*		*		
- Craniofacial Microsomia	2		*	*			*	*		*		*	*		*		

- Orthognathic Surgery	4		*		*				*		*		*	*				*
- Craniofacial Clefts and Hypertelorbitism	2		*	*	*			*	*	*	*	*		*				*
- Hypospadias	2		*		*				*		*							*
HEAD AND NECK																		
- Soft Tissue and Skeletal Injuries of the Face	2		*			*			*		*	*				*		
- Maxillofacial fractures	2	*	*		*	*			*		*				*		*	*
- Head and Neck Cancer	4				*			*		*	*			*	*	*		
- Salivary Gland Tumors	2	*	*		*	*			*		*	*	*					*
- Reconstruction of the Scalp, Calvarium, and Forehead	2		*		*				*		*							*
- Reconstruction of the Lips	2								*		*				*	*		
- Reconstruction of the Cheeks	2		*					*	*		*				*	*		
- Nasal Reconstruction	2		*		*	*			*	*	*					*		*
- Reconstruction of the Eyelids	2	*	*		*		*		*		*		*	*				
- Facial Paralysis Reconstruction	2		*		*				*		*							*
- Mandible Reconstruction; Reconstruction of Defects of the Maxilla and Skull Base	2		*		*				*		*							*
AESTHETIC SURGERY																		
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
- Cutaneous Resurfacing: Chemical Peeling, Dermabrasion, and Laser	2	*				*		*	*		*						*	
- Filler Materials; Botulinum Toxin	2	*				*			*		*					*	*	*
- Structural Fat Grafting	2	*					*		*		*	*		*		*		
-Blepharoplasty	2		*		*			*	*		*		*	*		*		
- Facelift	4		*		*				*		*		*	*				*
-Rhinoplasty	4		*	*	*			*	*	*	*	*		*				*
-Liposuction	2		*		*				*		*							*
-Abdominoplasty and Body Contouring	4	*			*			*	*		*							*
BREAST																		
-Augmentation Mammoplasty	2	*	*		*	*			*		*				*		*	*
- Mastopexy	2				*			*		*	*			*	*	*		
- Breast Reduction: Inverted-T Technique, Vertical Reduction	4	*	*		*	*			*		*	*	*					*
- Gynecomastia	2		*		*				*		*							*
- Breast Cancer for the Plastic Surgeon	2								*		*				*	*		
- Breast Reconstruction	4		*					*	*		*				*	*		

TRUNK AND LOWER EXTREMITY																		
- Thoracic Reconstruction	2	*	*		*		*		*		*		*	*				
-Abdominal Wall Reconstruction	2		*		*				*		*							*
- Lower-Extremity Reconstruction	2		*		*				*		*							*
- Foot and Ankle Reconstruction	2		*			*			*		*		*		*		*	*
- Reconstruction of the Perineum	2	*				*		*	*		*						*	
-Lymphedema	2	*				*			*		*					*	*	*
- Pressure Sores	2	*					*		*		*	*		*		*		
- Reconstruction of the Penis	2		*		*			*	*		*		*	*		*		
HAND																		
- Principles of Upper Limb Surgery	2		*	*	*			*	*	*	*	*		*				*
- Radiologic Imaging of the Hand and Wrist	2		*		*				*		*							*
- Soft-Tissue Reconstruction of the Hand	2	*			*			*	*		*							*
- Fractures and Ligamentous Injuries of the Wrist Fractures, Dislocations, and Ligamentous Injuries of the Hand	2		*			*			*		*	*				*		
- Tendon Healing and Flexor Tendon Surgery	2	*	*		*	*			*		*				*		*	*

- Repair of the Extensor Tendon System	2			*			*		*	*			*	*	*	
- Infections of the Upper Limb	2	*	*	*	*			*		*	*	*				*
-Compression Neuropathies in the Upper Limb and Electrophysiologic Studies	2		*	*				*		*						*
-Thumb Reconstruction	2							*		*				*	*	
- Tendon Transfers	2		*				*	*		*				*	*	
- Congenital Hand Abnormalities	2		*	*	*			*	*	*					*	*
- Replantation in the Upper Extremity	2	*	*	*		*		*		*		*	*			
Upper Limb Amputations	2		*	*				*		*						*

# Continue Matrix of Coverage of Course ILOs By Contents

Contents	H	]	Inte	ende	ed L	<i>lear</i>	ning	g Oı	ıtco	mes	5 (IL	<b>JOs</b> )	)
List of course )	0	<b>C.</b> 2	Prof	essi	onal	&	D.	Gen	eral	& T	rans	fera	ble
(topics	U	P	ract	ical	skill	S			5	Skills	5		
	R	<b>C1</b>	C2	C3	C4	C5	D1	D2	D3	D4	D5	D6	D7
	S												
PRINCIPLES, TECHNIQUES AND BASIC SCIENCE													
- Wound Healing: Normal and Abnormal	2	*		*		*	*		*		*		
- Wound Care	2		*	*		*		*	*		*		
- The Blood Supply of the Skin	2			*		*		*	*				*
- Muscle Flaps and Their Blood Supply	4		*	*	*	*	*		*				*
- Implant Materials	2			*		*							*

- Principles of Microsurgery	2		*	*		*							*
- Microsurgical Repair of Peripheral Nerves and Nerve Grafts	2			*		*	*				*		
- Tissue Expansion	2			*		*				*		*	*
SKIN AND SOFT TISSUE													
- Dermatology for Plastic Surgeons	2			*		*	*	*					*
- Malignant Skin Leisions	2			*		*							*
- Pigmented Skin Lesions	4			*		*				*	*		
- Thermal, Chemical, and Electrical Injuries	4		*	*		*				*	*		
- Principles of Burn Reconstruction	2			*	*	*					*		*
- Radiation and Radiation Injuries	2	*		*		*		*	*				
- Lasers in Plastic Surgery	2			*		*							*
CONGENITAL ANOMALIES AND PEDIATRIC PLASTIC SURGERY													
- Vascular Anomalies	2			*		*		*		*		*	*
- Cleft Lip and Palate	4		*	*		*						*	

- Craniosynostosis	4			*		*					*	*	*
- Craniofacial Microsomia	2	*		*		*	*		*		*		
- Orthognathic Surgery	4		*	*		*		*	*		*		
- Craniofacial Clefts and Hypertelorbitism	2			*		*		*	*				*
- Hypospadias	2		*	*	*	*	*		*				*
HEAD AND NECK													
- Soft Tissue and Skeletal Injuries of the Face	2		*	*		*							*
- Maxillofacial fractures	2			*		*	*				*		
- Head and Neck Cancer	4			*		*				*		*	*
- Salivary Gland Tumors	2		*		*	*			*	*	*		
- Reconstruction of the Scalp, Calvarium, and Forehead	2			*		*	*	*					*
- Reconstruction of the Lips	2			*		*							*
- Reconstruction of the Cheeks	2			*		*				*	*		
- Nasal Reconstruction	2		*	*		*				*	*		

- Reconstruction of the Eyelids	2			*	*	*					*		*
- Facial Paralysis Reconstruction	2	*		*		*		*	*				
- Mandible Reconstruction; Reconstruction of Defects of the Maxilla and Skull Base	2			*		*							*
AESTHETIC SURGERY													
- Cutaneous Resurfacing: Chemical Peeling, Dermabrasion, and Laser	2			*		*		*		*		*	*
- Filler Materials; Botulinum Toxin	2		*	*		*						*	
- Structural Fat Grafting	2			*		*					*	*	*
-Blepharoplasty	2	*		*		*	*		*		*		
- Facelift	4		*	*		*		*	*		*		
-Rhinoplasty	4			*		*		*	*				*
-Liposuction	2		*	*	*	*	*		*				*
-Abdominoplasty and Body Contouring	4			*		*							*
BREAST													
-Augmentation Mammoplasty	2			*		*	*				*		

- Mastopexy	2			*		*				*		*	*
- Breast Reduction: Inverted-T Technique, Vertical Reduction	4		*		*	*			*	*	*		
- Gynecomastia	2			*		*	*	*					*
- Breast Cancer for the Plastic Surgeon	2			*		*							*
- Breast Reconstruction	4			*		*				*	*		
TRUNK AND LOWER EXTREMITY													
- Thoracic Reconstruction	2			*	*	*					*		*
-Abdominal Wall Reconstruction	2	*		*		*		*	*				
- Lower-Extremity Reconstruction	2			*		*							*
- Foot and Ankle Reconstruction	2			*		*							*
- Reconstruction of the Perineum	2			*		*		*		*		*	*
-Lymphedema	2		*	*		*						*	
- Pressure Sores	2			*		*					*	*	*
- Reconstruction of the Penis	2	*		*		*	*		*		*		

HAND													
- Principles of Upper Limb Surgery	2			*		*		*	*				*
- Radiologic Imaging of the Hand and Wrist	2		*	*	*	*	*		*				*
- Soft-Tissue Reconstruction of the Hand	2			*		*							*
- Fractures and Ligamentous Injuries of the Wrist Fractures, Dislocations, and Ligamentous Injuries of the Hand	2		*	*		*							*
- Tendon Healing and Flexor Tendon Surgery	2			*		*	*				*		
- Repair of the Extensor Tendon System	2			*		*				*		*	*
- Infections of the Upper Limb	2		*		*	*			*	*	*		
-Compression Neuropathies in the Upper Limb and Electrophysiologic Studies	2			*		*	*	*					*
-Thumb Reconstruction	2			*		*							*
- Tendon Transfers	2			*		*				*	*		
- Congenital Hand Abnormalities	2		*	*		*				*	*		
- Replantation in the Upper Extremity	2			*	*	*					*		*
Upper Limb Amputations	2	*		*		*		*	*				

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## F. Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

<b></b>		Intended Lear	ning Outcomes (ILOs)	
o de o ning	A. Knowledge &	B. Intellectual	C. Professional & Practical	D. General &
Aethoo Teach & Lear	Understanding	Skills	skills	Transferable Skills
	Α	В	С	D
Lecture	A 1:7		C1:C2	
Practical	A 1:7	B4:B10		
Clinical (Including grand rounds)	A 1:7		C4	D1:D7
Presentation/seminar	A 1:7	B1:B8	C4	D1:D7
Journal club		B2:B6	C1:C3	
Thesis discussion	A3&5			D1:D7
Training courses & workshops	A4&6	B1:B6	C2: C5	

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

		Intended I	Learning Outcomes (ILOs)	
of nt	A. Knowledge	B. Intellectual	C. Professional &	D. General &
ods e	&	Skills	Practical skills	Transferable Skills
Meth Asses	Understanding			
	Α	В	С	D
Written exam	*	*	*	*
Operative exam	*	*	*	*
Clinical exam	*	*	*	*
Oral Exam	*	*	*	*





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	1	r	1		1		
Торіс	Hours	Knowledge %	Intellectual%	Weight %	ILOs	Actual mark	Modified mark
- Wound Healing: Normal and Abnormal	2	75	25	10%	A1	30	30
- Wound Care	2	75	25		A2		
- The Blood Supply of the Skin	2	75	25		A3		
- Muscle Flaps and Their Blood Supply	4	75	25		A4		
- Implant Materials	2	75	25		A5		
- Principles of Microsurgery	2	75	25		A6		
- Microsurgical Repair of Peripheral Nerves and Nerve Grafts	2	75	25		A7		
- Tissue Expansion	2	75	25		A1		
SKIN AND SOFT	TISSU	JE	1		I		
- Dermatology for Plastic Surgeons	2	75	25	10%	A3	30	30
- Malignant Skin Leisions	2	75	25		A4		
- Pigmented Skin Lesions	4	75	25		A5		
- Thermal, Chemical, and Electrical Injuries	4	75	25		A6		
- Principles of Burn Reconstruction	2	75	25		A7		
- Radiation and Radiation Injuries	2	75	25		A1		
- Lasers in Plastic Surgery	2	75	25		A1		
CONGENITAL ANOMALIES AND PED	IATR	IC PI	LAST	IC SUR	RGER	Y	
- Vascular Anomalies	2	75	25	10%	A3	30	30
- Cleft Lip and Palate	4	75	25		A4		
- Craniosynostosis	4	75	25		A5		
- Craniofacial Microsomia	2	75	25		A6		
- Orthognathic Surgery	4	75	25		A7		
- Craniofacial Clefts and Hypertelorbitism	2	75	25		A1		
- Hypospadias	2	75	25		A2		
HEAD AND NI	ECK						
- Soft Tissue and Skeletal Injuries of the Face	2	75	25	30%	A4	90	90
- Maxillofacial fractures	2	75	25		A5		
- Head and Neck Cancer	4	75	25		A6		
- Salivary Gland Tumors	2	75	25		A7		

#### <u>Blueprint of Postgraduate plastic surgery</u> Course for Ph.D. degree (2nd part) of Plastic surgery Department (Code: PS100)

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- Reconstruction of the Scalp, Calvarium, and Forehead	2	75	25		A1							
- Reconstruction of the Lips	2	75	25		A1							
- Reconstruction of the Cheeks	2	75	25		A2							
- Nasal Reconstruction	2	75	25		A3							
- Reconstruction of the Eyelids	2	75	25		A4							
- Facial Paralysis Reconstruction	2	75	25		A5							
- Mandible Reconstruction; Reconstruction of Defects	2	75	25		A6							
of the Maxilla and Skull Base												
AESTHETIC SURGERY												
	2	76	25	1.00/	A 1	20	20					
- Cutaneous Resurtacing: Chemical Peeling,	2	15	25	10%	AI	30	30					
Eiller Meteriale: Detulinum Toxin	2	75	25		12							
- Filler Materials, Doluminin Toxin	2	75	25		A2							
Planharonlasty	2	75	25		AJ							
Encelift		75	25		A4							
- Phinoplasty	4 1	75	25		AJ A6							
Liposuction	2	75	25									
-Abdominoplasty and Body Contouring	$\frac{2}{4}$	75	25		Δ1							
BREAST	-	15	23		Π							
-Augmentation Mammoplasty	2	75	25	5%	A2	15	15					
- Mastopexy	2	75	25		A3	_	-					
- Breast Reduction: Inverted-T Technique, Vertical	4	75	25		A4							
Reduction												
- Gynecomastia	2	75	25		A5							
- Breast Cancer for the Plastic Surgeon	2	75	25		A6							
- Breast Reconstruction	4	75	25		A7							
TRUNK AND LOWER I	EXTR	EMI	ГҮ									
- Thoracic Reconstruction	2	75	25	10%	A2	30	30					
-Abdominal Wall Reconstruction	2	75	25		A3							
- Lower-Extremity Reconstruction	2	75	25		A4							
- Foot and Ankle Reconstruction	2	75	25		A5							
- Reconstruction of the Perineum	2	75	25		A6							
-Lymphedema	2	75	25		A7							
- Pressure Sores	2	75	25		A1							
- Reconstruction of the Penis	2	75	25		A1							
HAND												
Principles of Upper Limb Surgery	n	75	25	150/	12	15	15					
- Radiologic Imaging of the Hand and Wrist	$\frac{2}{2}$	75	$\frac{23}{25}$	1370		43	40					
- Soft-Tissue Reconstruction of the Hand	$\frac{2}{2}$	75	25		Δ5							
- Solt- i issue reconstruction of the france	4	15	<i>2</i> J		лJ							

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جامعة: المنيا كلية : الطب البشري قسم: جراحه التجميل

- Fractures and Ligamentous Injuries of the Wrist	2	75	25		A6		
Fractures, Dislocations, and Ligamentous Injuries of							
the Hand							
- Tendon Healing and Flexor Tendon Surgery	2	75	25		A7		
- Repair of the Extensor Tendon System	2	75	25		A1		
- Infections of the Upper Limb	2	75	25		A2		
-Compression Neuropathies in the Upper Limb and	2	75	25		A3		
Electrophysiologic Studies							
-Thumb Reconstruction	2	75	25		A4		
- Tendon Transfers	2	75	25		A5		
- Congenital Hand Abnormalities	2	75	25		A6		
- Replantation in the Upper Extremity	2	75	25		A7		
Upper Limb Amputations	2	75	25		A1		
Total	160			%100		300	300

## Last updated and approved by department council 3 / 2023

## Course Coordinator, Prof . Dr. Khaled M. Hassan

### Head of Department, Prof. Dr. Ahmed Mahrous Mohamed

Prof. & Head of Plastic surgery Department Faculty of Medicine, Minia University

