

كليـة الـطب وحدة ضمان الجودة



Faculty of Medicine Quality Assurance Unit

# MEDICAL DOCTORATE (M.D.) DEGREE PROGRAM AND COURSES SPECIFICATIONS FOR PLASTIC SURGERY

(According to currently applied Credit points by laws)

Plastic Surgery Department Faculty of medicine Assiut University 2022-2023/2023-2024

Contents	
Item	Page
Program Specification For M.D. in Plastic Surgery, year 2022- 2023/2023-2024	4
A. Basic Information	_
B. Professional Information	5
1. Program aims	
2. Intended learning outcomes (ILOs) for the whole program	
3. Program academic standards	
4. Program external references	
5. Program structure and contents	
6. Courses contents (Annex 1)	
7. Admission requirements	
8. Progression and completion requirements	
9. Assessment methods and rules	
<b>10.</b> Program evaluation	
11. Declaration	
- Annex 1, Courses/ specifications	22
First part	23
Course 1: Medical statistics.	
Course 2: Research methodology	30
Course 3: Medicolegal Aspects & Ethics in Medical Practice and Scientific	38
Research	
Course 4 Surgical Anatomy	44
Course 5 Surgical Pathology	50
Second part	
Course 6 "Plastic Surgery".	57
- Annex 2, Program academic standards	74
- Annex 3, Teaching methods	79

- Annex 4, Assessment methods	84
- Annex 5, Program evaluation tools	87
- Annex 6 Matrixes:	89
I-General Academic reference standards(GARS) for	
postgraduates versus Program ARS	
1-Graduate attributes	
2-Academic Standards	
II-Program ARS versus program ILOs	
III- Program Matrix.	
- Annex 7, Additional information.	108



Assiut University Faculty of Medicine Quality Assurance Unit (QAU)



كلية الطب وحدة ضمان الجودة

# M. D. degree of Plastic Surgery

A. Basic Information

- Program Title: Medical Doctorate (M.D.) of plastic Surgery
- Nature of the program: Single.
- **Responsible Department: Plastic Surgery**
- Program Academic Director (Head of the Department):

Prof. Mohamed Elshazly

Coordinator (s):

Principle coordinator: Prof. Mohamaed Makbool Assistant coordinator (s) Dr. Wael Saad

- **4** Internal evaluators: Prof. Mostafa Elsonbaty
- External evaluator : Prof : Fathy khodir
- Date of Approval by the Faculty of Medicine Council of Assiut University: 23/ 9 /2014
- Date of most recent approval of program specification by the Faculty of Medicine Council of Assiut University: 27 / 11/2022
- Total number of courses: 6 courses
  - First part: 5 courses
  - Second part: 1 course

# **B.** Professional Information

#### 1- Program aims

**I/1 to** provide the candidates with an educational experience in recognition and treatment of plastic surgery disorders. Upon completion of training, the graduate is expected to be a competent consultant in Plastic Surgery capable of independent practice.

1/2. To enable candidates to acquire a thorough knowledge of the basis of Plastic and Reconstructive Surgery, and Burns, including its foundations in the basic medical sciences and be exposed to research activities. The graduate will be able to access and apply relevant knowledge and skills to clinical practice and provide effective consultation services with respect to patient care, education and medico-legal issues.

1/3 to enable candidates to acquire all the aspects of plastic surgery including; Aesthetic Surgeries, Burn Management, and Reconstructive Surgeries.

#### 2-Intended learning outcomes (ILOs) *for the whole program*:

# 2/1Knowledge and understanding:

- A. Demonstrate in-depth knowledge and understanding of theories, basics and updated biomedical, clinical epidemiological and socio – behavioral science relevant to Plastic Surgery as well as the evidence – based application of this knowledge to patient care.
- B. Explain basics, methodology, tools and ethics of scientific medical, clinical research.
- C. Mention ethical, medico logical principles and bylaws relevant to his practice in the field of Plastic Surgery
- D. Mention principles measurements of quality assurance and quality improvement in medical education and in clinical practice of Plastic Surgery.

E. Mention health care system, public health and health policy, issues relevant to this specialty and principles and methods of system – based improvement of patient care in common health problems of the field of Plastic Surgery.

#### 2/2 Intellectual outcomes

A. Apply the basic and clinically supportive sciences which are appropriate to Plastic Surgery related conditions / problem / topics.

B. Demonstrate an investigatory and analytic thinking "problem
– solving "approaches to clinical situation related to Plastic Surgery.

C. Plain research projects.

D. Write scientific papers.

E. Participate in clinical risk management as a part of clinical governance.

F. Plan for quality improvement in the field of medical education and clinical practice in Plastic Surgery.

G. Create / innovate plans, systems, and other issues for improvement of performance in Plastic Surgery.

H. Present and defend his / her data in front of a panel of experts.

I. Formulate management plans and alternative decisions

in different situations in the field of the Plastic surgery

# <u>2/3 Skills</u>

#### 2/3/1 Practical skills (Patient Care)

#### Students will be able to:

A. Provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

**p.s.** Extensive level means in-depth understanding from basic science to evidence – based clinical application and possession of skills to manage independently all problems in field of practice.

B. Provide extensive level of patient care *for patients with all common diagnoses and for uncomplicated procedures* related to Plastic Surgery.

C. Provide extensive level of patient care *for non-routine, complicated patients and under increasingly difficult circumstances,* while demonstrating compassionate, appropriate and effective care.

D. Perform diagnostic and therapeutic procedures considered essential in the field of Plastic Surgery.

E. Handles unexpected complications, while demonstrating compassion and sensitivity to patient needs and concerns.

F. Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families in Plastic Surgery related situations.

G, Gather essential and accurate information about patients of Plastic Surgery related conditions.

H. Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence and clinical judgment for Plastic Surgery related conditions.

I. Develop and carry out patient management plans for Plastic Surgery related conditions.

J. Counsel and educate patients and their families about Plastic Surgery related conditions.

K. Use information technology to support patient care decisions and patient education in all Plastic Surgery related clinical situations.

L. Perform competently all medical and invasive procedures considered essential for Plastic Surgery related conditions / area of practices.

M. Provide health care services aimed at preventing Plastic Surgery related health problems.

N. Lead health care professionals, including those from other disciplines, to provide patient-focused care in Plastic Surgery related conditions.

O. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible medical records)

#### 2/3/2 General skills

#### Including:

- Practice-based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism
- Systems-based Practice

#### **Practice-Based Learning and Improvement**

- A. Demonstrate continuous evaluation of different types of care provision to patients in the different area of Plastic Surgery.
- B. Appraise scientific evidence.
- C. Continuously improve patient care based on constant selfevaluation and <u>life-long learning.</u>
- D. Participate in clinical audit and research projects.
- E. Practice skills of evidence-based Medicine (EBM).
- F. Educate and evaluate students, residents and other health professionals.
- G. Design logbooks.
- H. Design clinical guidelines and standard protocols of management.
- I. Appraise evidence from scientific studies related to the patients' health problems.
- J. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.
- K. Use information technology to manage information, access on-line medical information; for the important topics.

#### **Interpersonal and Communication Skills**

L. Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:-

- <u>Present</u> a case.
- <u>Write</u> a consultation note.
- <u>Inform patients</u> of a diagnosis and therapeutic plan completing and maintaining comprehensive.
- Timely and legible medical records.
- Teamwork skills.

M. Create and sustain a therapeutic and ethically sound relationship with patients.

N. Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.

O. Work effectively with others as a member or leader of a health care team or other professional group.

#### **Professionalism**

P. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.

Q. Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.

R. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.

#### **Systems-Based Practice**

S. Work effectively in health care delivery settings and systems related to Plastic Surgery including good administrative and time management.

T. Practice cost-effective health care and resource allocation that does not compromise quality of care.

U. Advocate for quality patient care and assist patients in dealing with system complexities.

V. Design, monitor and evaluate specification of under and post graduate course and programs.

W. Act as a chair man for scientific meetings including time management.

#### 3- Program Academic Reference Standards (ARS) (Annex 2)

#### Academic standards for Medical Doctorate (MD) degree in Plastic Surgery

Assiut Faculty of Medicine developed MD degree programs' academic standards for different clinical specialties.

In preparing these standards, the General Academic Reference Standards for post graduate programs (GARS) were adopted. These standards set out the graduate attributes and academic characteristics that are expected to be achieved by the end of the program.

These standards were approved by the faculty council on 20/3/2010. These standards were revised and approved without changes by the Faculty Council on 23- 9- 2014.

These standards were re- revised and approved without changes by the Faculty Council on 27- 11- 2022.

#### 4- Program External References (Benchmarks)

1. ACGME (Accreditation Council for Graduate Medical Education).

http://www.acgme.org/acWebsite/navPages/nav\_Public.asp

2. (American Board of Plastic Surgery)

The University of Texas Medical Branch, Division of Plastic Surgery, 6.124 McCullough Bldg. 301 University Boulevard, Galveston, Texas 77555-0724, PHONE: (409) 772-8119, FAX: (409) 772-1872 http://www.utmb.edu/surgery/Plastic.htm

Comparison between program and external reference				
Item	Item MD Plastic American B			
	surgery	Surgery		
Goals	Matched	Matched		
ILOS	Matched	Matched		
Duration	4-6 years	Different (6 YEARS)		
Requirement	Different	Different		
Program	Different	Different		
structure				

#### 5- Program Structure

A. Duration of program: 4-6 years
B. Structure of the program:
Total number of credit point = point = 420 CP
Master degree: 180 credit point
Didactic #: 37 (23.1%), practical 123 (76.9%), total 160 CP
Thesis and researches: 80 CP (33.3%)
First part
Didactic 10 CP (100 %), practical 0( 0%).total 10 CP
Second part
Didactic 24, ( 16.3%) practical 123 ( 83.7%) total 147
According the currently applied bylaws:
Total courses: 160 credit point

Compulsory courses: 157 credit point (98.1%) Elective courses: 3 credit point (1.9%)

	Credit points	% from total
Basic science courses	10	4.1%
Humanity and social courses	3	1.2%
Specialty courses	147	61.3%
Others ( Computer,)		0
Field training	123	51.3%
Thesis	40	16.7%
2 published researches	40	16.7%

#### <u>C- Program Time Table</u>

Duration of program 4 years (could be extended at maximum to 6 years) divided into

o Part 1

Program-related basic science courses

- Medical statistics

- Research methodology

- Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

Students are allowed to sit the exams of the remaining basic science courses after 12 months from applying to the MD degree.

Thesis and 2 published researches

For the M D thesis;

MD thesis subject should be officially registered within 1 year from application to the MD degree,

Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;

It could be discussed and accepted either before or after passing the second part of examination

#### o Part 2

Program –related specialty courses and ILOs

Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.

Two elective courses can be set during either the 1<sup>st</sup> or 2<sup>nd</sup> parts.

The students pass if they get 50% from the written exams and 60% from oral exams, 60% from clinical/practical exams of each course and 60% of summation of the written exams, oral and clinical/practical exams of each course

Total degrees 1700 marks.

500 marks for first part

1200 for second part

Written exam 40% - 70%.

Clinical/practical and oral exams 30% - 60%.

#### **Curriculum Structure: (Courses):**

**4**Levels and courses of the program:

Courses and student work load list	Course			
	Code	Didactic	training	g total
First Part				
Basic science courses (10 CP)				
Course 1: Medical Statistics	FAC309A	1	-	1
Course 2: Research Methodology	FAC309B			1
Course 3: - Medicolegal Aspects &	FAC310C	1	-	1
Ethics in Medical Practice and		1	_	1
Scientific Research				
Course 4 Surgical Anatomy	PLS 313A	3.5	-	3.5
Course 5 Surgical Pathology	PLS 313A	3.5	-	3.5
Elective courses*			3 CP	
Elective course 1		1.5		1.5
Elective course 2		1.5		1.5
Thesis			40 C	ĴΡ
Published researches**			40 C	P.
Second Part		Specialty	courses 2	24 CP
	Specialty	/ Clinical V	Vork (log	Book) 123 CP
Specialty Courses				24
Course 6 Plastic Surgery&	PLS 3130	24		
Burns(Advanced)				
Specialty Clinical Work (123 CP)	PLS 3130		123	123
Total of second part		24	123	147

\* Elective courses can be taken during either the 1<sup>st</sup> or 2<sup>nd</sup> parts. Student work load calculation:

Work load hours are scheduled depending on the type of activities and targeted competences and skills in different courses

#### **Elective Courses#:**

- o Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- o Hospital management

# two of the above mentioned courses are prerequisites for fulfillment of the degree.

#### 3. Thesis / Researches:

40 CP are appointed to the completion and acceptance of the thesis.

\*\*Another 40 points are appointed to acceptance or publication of one research from the thesis in international indexed medical journals or publication of 2 researches from the thesis in local specialized medical journals.

Units' Titles' list	Core C		Total	% from the
	points		Total	total CP of
	Lecture Training			the course
1- Aesthetic Surgery	8.4	43	51.4	35%
2- Reconstructive	12	61.5	73.5	50%
Surgery				
3- Burn	3.6	18.5	22.1	15%
Total	24	123	147	100%

#### \* Plastic Surgery& Burns (Advanced) Course

#### 6. Courses Contents (Annex 1)

The competency based objectives for each course/module/rotation are specified in conjunction with teaching/training methods, requirements for achieving these objectives and assessment methods.

#### See Annex 1 for detailed specifications for each course/ module Annex 6 II: Program Matrix

#### 7-Admission requirements

- Admission Requirements (prerequisites) if any :
- Admission Requirements (prerequisites) if any :
  - I. General Requirements:
    - Master degree in the speciality.
  - II. Specific Requirements:
    - Fluent in English (study language)

#### VACATIONS AND STUDY LEAVE

The current departmental policy is to give the candidate one month leave before the date of exam.

#### FEES:

As regulated by the postgraduate studies rules and approved by the faculty vice dean of post graduate studies and the faculty and university councils.

#### 8-Progression and completion requirements

- Examinations of the first part (Medical statistic, Research methodology and Medicolegal Aspects and Ethics in Medical Practice and Scientific Research) could be set at 6 months from registering to the MD degree.
- Students are allowed to sit the exams of the remaining essential courses of the first part after 12 months from applying to the MD degree.
- Examination of the second part cannot be set before 4 years from registering to the degree.

- Discussion of the MD thesis could be set after 2 years from officially registering the MD subject, either before or after setting the second part exams.
- **4** The minimum duration of the program is 4 years.

#### The students are offered the degree when:

1. Passing the exams of all basic science, elective and specialty courses of this program as regulated by the post graduates approved rules by the faculty council.

- 2. Completing all scheduled CP and log book (minimum 80%).
- 3. Discussion and acceptance of the MD thesis.
- 4. Acceptance or publication of one research from the thesis in international indexed medical journals or publication of 2 researches from the thesis in local specialized medical journals.

Method	ILOs measured
Written examinations:	K & I
Structured essay questions	
<b>Objective questions</b>	
MCQ	
Problem solving	
Clinical:	K ,I, P &G skills
Long/short cases	
OSCE	
Structured oral	K ,I &G skills
Logbook assessment	All
Research assignment	I &G skills

#### 9-Program assessment methods and rules (Annex IV)

#### Weighting of assessments:

Courses	Course	Written	Oral and	/or		Total
	code	Exam	Practical			
		First				
Basic science						
courses:						
Medical	FAC309A	35	15			50
Statistics						
Research	FAC309B	35	15			50
Methodology						
Medicolegal	FAC310C	35	15			50
Aspects & Ethics						
in Medical						
Practice and						
Scientific						
Research						
Surgical anatomy	PLS313A	75	100			175
Surgical	PLS 313B	75	100			175
Pathology						
Total of first part						500
		Secon				
	Course	written	Oral *	Practical	/	total
	code	600	_	clinical		
Speciality Courses	210.2420	600	200	200		
Course 6 (Plastic	PLS 313C		300	300		
Surgery &						
Burns(Advanced)		150				
Paper 1 Paper2		150				
Paper 3		150				
Paper 4		150				
Total of secon	d	600	300	300		1200
part	~					
Elective course 1		50		50		100
Elective course 2		50				100

\* 25% of the oral exam for assessment of logbook

**Total degree 1900** 

500 marks for first part

1200 for second part

Written exam 50% (600 marks).

Clinical/practical and oral exams 50% (600 marks).

#### **4** Examination system:

- First part:
- Written exam 2 hours in Medical Statistics and Research Methodology + oral examination
- Written exam 1 hours in Medicolegal Aspects and Ethics in Medical Practice and Scientific Research + oral examination
- Written examination Surgical Anatomy ( 3 hour) + oral examination
- Written examination in Surgical pathology (3 hour) + oral examination

#### Second part:

• Written exam 4 papers 3 hours for each in Plastic Surgery & Burns(Advanced) + Oral exam+ Clinical exam

#### Elective courses

- Written exam one paper 1 hour in Elective course 1 + Oral & Practical exam
- Written exam one paper 1 hour in Elective course 2 + Oral & Practical exam
- \* Plastic Surgery & Burns (Advanced) marks

Units' Titles' list	Core DEGREE			Total	% from
			Clinical	marks	the total
	WRITTEN	ORAL	and		MARK
			practical		
1- Aesthetic Surgery	210	105	105	420	35%
2- Reconstructive Surgery	300	150	150	600	50%
3- Burn	90	45	45	180	15%
Total	600	300	300	1200	100%

#### **10-Program evaluation**

By whom	method	sample
Quality Assurance Unit	Reports	#
	Field visits	
External Evaluator	Reports	#
(s):According to	Field visits	
department council		
External Examiner (s):		
According to		
department council		
Stakeholders	Reports	#
	Field visits	
	questionnaires	
Senior students	questionnaires	#
Alumni	questionnaires	#

#Annex 5 contains evaluation templates and reports (Joined in the departmental folder).

#### **11-Declaration**

We certify that all of the information required to deliver this program is contained in the above specification and will be implemented.

All course specifications for this program are in place.

Contributor	Name	Signature	Date
Program Principle Coordinator:	Prof. Mohamed Makbool		4/2023
Head of the Responsible Department (Program Academic Director):	Prof. Mohamed Elshazly		4/2023

# Annex 1, Specifications for Courses / Modules

#### **Annex 1: specifications for courses**

#### **First Part**

- 1) Course 1: Medical statistics
- 2) Course 2: Research Methodology
- 3) Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- 4) Course 4 Surgical anatomy
- 5) Course 5 Surgical pathology

**Course 1: Medical statistics** 

**Name of department: Public Health and Community Medicine** Faculty of medicine Assiut University

2022-2023

#### 1. Course data

- 4 Course Title: Medical statistics
- **4** Course code: FAC309A
- **4** Specialty: offered to all clinical and academic specialties
- **4** Number of credit points: 1 credit point
- **4** Department (s) delivering the course: Pubic Health and

Community Medicine

- **4** Coordinator (s):
  - Course coordinator: Prof. Farag Mohammed Moftah
  - Assistant coordinator (s):

Prof. Medhat Araby Khalil Saleh

- Date last reviewed: January -2022
- Requirements (pre-requisites) if any:
  - Completed Master degree in any of the academic or clinical departments of Medicine.

#### 2. Course Aims

Enable gradute students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data

# 3. Intended learning outcomes (ILOs):To be able to use statistical principals to manage data

A knowledge and understanding				
ILOS	Methods of	Methods of		
	teaching/	Evaluation		
	learning			
A. List the types of variables	Lecture and	Written		
	discussion	examination		
B. Identify the methods of data	Lecture and	Written		
collection	discussion	examination		
C. Describe the different sampling	Lecture and	Written		
strategies	discussion	examination		
D. Identify types of tabular and graphic	Lecture and	Written		
presentation of data	discussion	examination		
E. Identify measures of central tendency	Lecture and	Written		
and dispersion	discussion	examination		
F. Identify the characters of normal	Lecture and	Written		
distribution curve.	discussion	examination		
G. Detect the difference between	Lecture and	Written		
parametric and non-parametric tests	discussion	examination		
H. Identify the concepts of correlation	Lecture and	Written		
and regression	discussion	examination		

#### A knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Describe the normal curves.	Lecture& Discussions	Written examination
B. Describe and summarize data	Lecture& Discussions	Written examination
C. Select the proper test of significance	Lecture& Discussions	Written examination
D. Interpret the proper test of significance	Lecture& Discussions	Written examination
E. Describe the difference between parametric and non-parametric tests	Lecture& Discussions	Written examination

#### **B. intellectual**

#### **C.** Practical skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Design data entry files.	Tutorial on SPSS	Assignments SPSS exam
B. Validate data entry.	Tutorial on SPSS	Assignments SPSS exam
C. Manage data files.	Tutorial on SPSS	Assignments SPSS exam
D. Construct tables and graphs.	Tutorial on SPSS	Assignments SPSS exam
E. Calculate measures of central tendency and dispersion.	Tutorial on SPSS	Assignments SPSS exam
F. Select, apply and interpret the proper test of significance.	Tutorial on SPSS	Assignments SPSS exam

# D general skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Appraise scientific evidence	Discussions	Research assignment
B. Use information technology to manage information, access on-line medical information; for the important topics.	tutorial	Research and audits' assignment

# 4. Course contents (topic s/modules/rotation Course Matrix

#### Time Schedule: First Part

Topic	Covered ILOs			
	Knowledge A	Intellectual B	Practical skills C	General Skills D
Introduction	A-F	A-D	-	A&B
Tables and graphics	D	A-D	-	A&B
Sampling	С	-	-	A&B
Methodology of data collection	В	-	-	A&B
Type of variables	А	-	_	A&B
Proportion test& Chi-square test	E,F	C&D	-	A&B
Student T test& Paired T test	E,F	C&D	F	A&B
ANOVA test	E,F	C&D	F	A&B
Non parametric tests	E,F	C&D	F	A&B
Discrimination analysis factor analysis	E,F	C&D	-	A&B
SPSS Introduction	A-F	A-D	_	A&B
Data entry and cleaning of data	А	A-D	A-C	A&B
Transforming of variables	А	A&B	A-C	A&B
Descriptive statistics	D	A-D	D&E	A&B
Graphic presentation	D	A&B	D	A&B
Chi square and interpretation of results	E,F	C&D	F	A&B
Correlation Regression	E,F	C&D	F	A&B
Multiple and logistic Regression	E,F	C&D	F	A&B

#### **5. Course Methods of teaching/learning**

- 1. Lectures
- 2. Assignments
- 3. Discussions
- 4. Exercises
- 5. Tutorial on SPSS v.16

#### 6. Course assessment methods:

- i. Assessment tools:
  - **1.** Attendance and active participation
  - 2. Assignment
  - **3.** Practical SPSS examination
  - 4. Written exam

**ii. Time schedule:** After 6 months from applying to the M D degree.

iii. Marks: 50 (35 for written exam and 15 for practical exam).

#### 7. List of references

#### i. Lectures notes

Department lecture notes

#### ii. Essential books

- Medical Statistics: Book by Ramakrishna HK 2016
- Janet Peacock and Philip Peacock. Oxford Handbook of Medical Statistics (second edition.) Publisher: Oxford University Press, Print Publication Date: Nov 2010 Print ISBN-13: 9780199551286, Published online: Jun 2011. DOI: 10.1093/med/9780199551286.001.0001
- Leslie E. Daly MSc, PhD, Hon MFPHM,, Geoffrey J. Bourke MA, MD, FRCPI, FFPHM, FFPHMI, Interpretation and Uses of Medical Statistics, Fifth Edition, First published:1 January 2000, Print ISBN:9780632047635
   |Online ISBN:9780470696750 |DOI:10.1002/9780470696750
- Marcello Pagano, Kimberlee Gauvreau: Principles of Biostatistics second edition published in 2000 by Brooks/Cole and then Cengage Learning. CRC Press, Feb 19, 2018 Mathematics 584 pages.

#### lii- Recommended books

- Ji-Qian Fang (Sun Yat-Sen University, China) Handbook of Medical Statistics: <u>https://doi.org/10.1142/10259</u> | September 2017.Pages: 852
- Robert H. Riffenburgh: Statistics in Medicine 4th Edition (2020). EvidenceEvidence Based Medicine How to practice and teach EBM.
- Discovering Statistics Using IBM SPSS Book by Andy Field, 2013.

#### iii. Periodicals, Web sites, etc

- iv. Periodicals , etc Statistics in Medicine Wiley Online Library
- v. **Web sites** https://www.phc.ox.ac.uk/research/medicalstatistics

8. Signatures

Course Coordinator: - Farag Mohammed Moftah	Head of the Department: - Prof. Eman Morsy Mohamed
Date: 10-1-2022	Date: 10-1-2022
Associated Coordinator: Prof. Medhat Araby Khalil Saleh	
Date: 10-1-2022	

#### **Course 2: Research Methodology**

Name of department: Public Health and Community Medicine Faculty of medicine Assiut University 2021-2022

#### 1. Course data

- Course Title: Research methodology
- Course code: FAC309B
- Specialty: Offered to all clinical and academic specialties
- Number of credit points: 1 credit point
- Department (s) delivering the course: Department of public health
- Coordinator (s):
  - Course coordinator: Prof. Mahmoud Attia

Assistant coordinator (s): Prof. Ekram Mohamed

Prof. Medhat Araby Khalil

- **Date last reviewed:** January 2022
- Requirements (prerequisites) if any:
  - Completed Master degree in any of the academic or
    - clinical departments of Medicine.

#### 2. Course Aims

To provide graduate students with the skills of:

- planning and implementing sound research
- writing a scientific research proposal

### 3. Intended learning outcomes (ILOs)

# A knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Explain differences between different	Lecture and	Written exam
study designs.	discussion	Log book
	Practical sessions	assignments
	Workshops	Practical exam
B. Identify sources and types of bias in	Lecture and	Written exam
research.	discussion	Log book
	Practical sessions	assignments
		Practical exam
C. Identify methods of data collection.	Lecture and	Written exam
	discussion	Log book
	Practical sessions	assignments
D. Select and design valid measurement	Lecture and	Written exam
tools for research.	discussion	Log book
	Practical sessions	assignments
	Workshops	Practical exam
E. Explain ethical issues in conducting	Lecture and	Written exam
research on human subjects.	discussion	Log book
	Practical sessions	assignments
	Workshops	
F. List the steps involved in proposal	Lecture and	Written exam
writing.	discussion	Log book
	Practical sessions	assignments
	Workshops	Practical exam
G. Identify a research problem within a	Lecture	Written exam
conceptual framework.	Discussion	Log book
		assignments

		Practical exam
H. Use the web sources to do a literature	Practical tutorial on	Log book
search	web	assignment
I. Describe the rules of authorship in	Lecture and	Written exam
scientific writing.	discussion	Log book
	Practical sessions	assignments
	Workshops	
J. Select the appropriate study design for	Lecture	Written exam
the research question.	Practical sessions	Practical exam
K. Minimize bias in designing research.	Lecture	Written exam
L. Screening & theoretical background	Lectures	Written exam
L. Sereening & theoretical background		Practical exam
M. Mention the basic ethics for conducting a	lectures	Written exam
research and medicolegal principles relevant	seminar	Practical
to data confidentiality.		exam

# **B. intellectual**

Competency and Skills	Methods of	Methods of
	teaching/	Evaluation
	learning	
A-Apply basic science & knowledge for	Discussions	Written exam
appraising scientific literature.	&seminars	Practical exam
B- Design research and present study data,	lecture	log book
in seminars.	seminar	assignments
C- Design suitable epidemiological study.	lecture	log book
	seminar	assignments
D-Design strategies for resolving ethical	lecture	Written exam
concerns in research, law, and regulations.	Workshops	log book
		assignments
E- Apply coherently synthesize ideas and	lecture	log book
integrate lateral and vertical thinking.	Workshops	assignments
F- Evaluate screening tests and interpreting	lecture	Written exam
their uses in different population.		Practical exam

#### **C.** Practical skills

C. I factical Skills			
Competency and Skills	Methods of teaching/ learning	Methods of Evaluation	
A- Conduct epidemiological studies, screening and surveys.	lectures seminar	written exam log book assignments	
B- Identify steps required in fielding the study.	Lecture	Assignments Written exam	
C- Managing data collection team.	lectures seminar	log book assignments	
D- Identify steps required for calculation sensitivity, specificity, positive predictive value, negative predictive value, accuracy of a screening test.	Lecture Practical sessions	Assignments Written exam Practical exam	
E- Be able to define and apply the epidemiologic criteria of causality and be able to distinguish between a measure of association and evidence of causality.	Lecture Practical sessions	Assignments Written exam Practical exam	
F- Synthesize information from multiple sources for research writing and the ability to perform paper critique .	Lecture Practical sessions	Assignments Written exam Practical exam	
G- Identify bias and confounding in epidemiological study designs, their types and ways to control them in various types of biases.	Lecture Practical sessions	Assignments Written exam Practical exam	

#### **D** General skills

Practice-Based Learning and Improvement			
ILOs	Methods of teaching/ learning	Methods of Evaluation	
A- Scientific paper and proposal writing skills: be able to write an introduction, objectives and the methodological section.	Tutorial	Written examination	
B- Learn authorship ethical rules.	Tutorial	Written examination	
C- Perform practice-based improvement activities using a systematic methodology (audit, logbook, critical appraisal)	<ul> <li>Lectures</li> <li>Practical sessions</li> <li>Discussion</li> <li>Readings</li> </ul>	critical appraisal	
D- Appraise evidence from scientific studies(journal club)	- Lectures -Practical sessions - Discussion - Readings	critical appraisal	
E- Conduct epidemiological studies, screening and surveys.	- Lectures -Practical sessions - Discussion - Readings	attendance and participation	
F- Facilitate training of junior students and other health care professionals in different screening activities.	Field work Participation in projects	attendance and participation	

#### **Practice-Based Learning and Improvement**

#### Interpersonal and Communication Skills

ILOs	Methods of teaching/	Methods of
	learning	Evaluation
G-Maintain ethically sound relationship with	- Lectures	Written
community members.	-Practical sessions	exams
	- Discussion	
	- Readings	
H-Provide information using effective nonverbal,	- Lectures	Written
explanatory, questioning, and writing skills.	-Practical sessions	exams
	- Discussion	Practical
	- Readings	exams
I- Present results of researches in seminars.	- Lectures	Log book
	-Practical sessions	assignments
	- Discussion	
	- Readings	

ILOs	Methods of	Methods of
	teaching/	Evaluation
	learning	
J- Demonstrate respect, compassion, and integrity to the	- Lectures	Written
needs of society.	- Discussion	exams
	- Readings	
K- Manage potential conflicts of interest encountered by	- Lectures	Written
practitioners, researchers, and organizations.	- Discussion	exams
	- Readings	
L-Design strategies for resolving ethical concerns in	Lectures	Written
research, law, and regulations.	- Discussion	exams
	- Readings	Practical
		exams
M- Demonstrate ways to control for confounding in the	Lectures	Written
analysis phase of a study	- Discussion	exams
	- Readings	Practical
		exams
N-Demonstrate a commitment to ethical principles	Lectures	Written
including confidentiality of participants' information	- Discussion	exams
and informed consent.	- Readings	
O-Assess ethical considerations in developing	- Lectures	Written
communications and promotional initiatives.	- Discussion	exams
r r r r r r r r r r r r r r r r r r r	- Readings	

#### Professionalism

# 4. Course contents (topic s/modules/rotation Course Matrix

#### **Time Schedule: First Part**

Торіс	Covered ILOs			
	Knowledge	Intellectual	Practical skills	General Skills
	Α	В	С	D
Over view on research conduction and research ethics	A&E	A-D	A-C	C-G, I,L&M-O
How to write a research proposal	F,I	Е	F	A-C&H
Observational study design	A& D	B & C	D	E & F
Experimental study design	A& D	B & C	В	E & F
Evaluation of diagnostic tests (Screening )	L	А	B& E	F
Systematic reviews and meta analysis	G, H & M	E& F	F	C, D
Confounding, bias & effect modification	B & K	D	E & G	М

#### **5. Course Methods of teaching/learning:**

- 1. Lectures
- 2. Assignments
- 3. Discussion
- 4. Exercises

#### 6. Course assessment methods:

#### i. Assessment tools:

- 1. Attendance and participation
- 2. Log book assignments
- 3. Written examination
- 4. Practical examination

**ii. Time schedule:** After 6 months from applying to the M D degree.

iii. Marks: 50 (35 for written exam and 15 for practical exam).

7. List of references

#### i. Lectures notes

Department lecture notes

#### ii. Essential books

- Research Design: Qualitative, Quantitative and Mixed Methods Approaches 4th Edition by John W. CreswellSAGE Publications, Inc; 4th edition (January 1, 2014)
- Research methodology: A step by step Guide for Beginners. Ranjit Kumar, 2020. Second edition <u>https://books.google.com.eg/books</u>?
- Medical Research Essentials Rania Esteitie, McGraw Hill Professional, third edition, Feb 5, 2014 Medical 104 pages
- Research Methodology in the Medical and Biological Sciences Petter Laake, Haakon Breien Benestad, Bjorn R. Reino Olsen, 4th edition, Academic Press, Nov 5, 2007 - Science - 512 pages

#### iv. Recommended books

- Research Methods in Education 7th Edition, by Louis Cohen, Lawrence Manion, Keith Morrison Publisher: Routledge; (April 22, 2011) www.routledge.com/textbooks/cohen7e.
- Research Methodology: A Practical and Scientific Approach Vinayak Bairagi, Mousami V. Munot · 2019, Research Methodology: A Practical and Scientific Approach - Google Books
- Based Medicine How to practice and teach EBM. David Sachett, Sharon E. Straus, W. Scott Richardson, William Rosenberg R.Brain Haynes
- Dissertation workshop open courseware JHSPH

8. Signatures

Course Coordinator:	Head of the Department:
Prof.Mahmoud Attia	Prof. Eman Morsy Mohamed
Date: 10-1-2022	Date: 10-1-2022

### Course 3: Medico legal Aspects and Ethics in Medical Practice and Scientific Research

Name of department: Forensic medicine and clinical toxicology Faculty of medicine Assiut University 2016-2017

#### 1. Course data

**4** Course Title: Medicolegal Aspects and Ethics in Medical

**Practice and Scientific Research** 

- **4** Course code: FAC310C
- Speciality:General and special surgery (1<sup>st</sup> part),
- **4** Number of credit points: 1 credit point
- Department (s) delivering the course: Forensic Medicine and Clinical Toxicology
- Coordinator (s):
- **Course coordinator:** 
  - Prof. Ghada omran
- **Date last reviewed:** September 2017
- Requirements (prerequisites) if any :
  - Completed Master degree

# 2. Course Aims

To describe the basic ethical and medicolegal principles and bylaws relevant to practice in the field of General and special surgery Rheumatology

# 3. Intended learning outcomes (ILOs):

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
<ul> <li>A. Mention principals of writing consent forms.</li> </ul>	Lecture and discussion	Written & oral exam
B. Mention principals of Writing a death certificate	Lecture and discussion	Written & oral exam
C. Explain principals of medical reports.	Lecture and discussion	Written & oral exam
D. Mention principals of Dealing with wounds.	Lecture and discussion	Written & oral exam
E. Mention principals of firearm injuries.	Lecture and discussion	Written & oral exam
<ul> <li>F. List indications of induced emesis, gastric lavage and samples collection.</li> </ul>	Lecture and discussion	Written & oral exam

# A. knowledge and understanding

# **B. Intellectual**

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Design and present case , seminars in death certificate	Lecture and discussion	Written & oral exam
B. Design and present case, seminars in toxicological cases	Lecture and discussion	Written & oral exam

# C. Practical skills

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Identify medical ethics and ethics in research.	Lecture and discussion	Discussion
B. Prepare and write consent.	Lecture and discussion	Discussion
C. Identify medical responsibilities.	Lecture and discussion	Discussion
D. Write death certificate.	Lecture and discussion	Discussion and active participation
E. Deal with a case of Suspicious death	Lecture and discussion	Discussion and active participation
F. Write medical reports	Lecture and discussion	Discussion and active participation
G. Identify types of wounds and deal with them.	Lecture and discussion	Discussion and active

		participation
H. Identify types, distance and direction of firearm wounds and deal with them	Lecture and discussion	Discussion and active participation
<ol> <li>Elicit death associated with surgical anesthesia.</li> </ol>	Lecture and discussion	Discussion and active participation
J. Perform gastric lavage, induce emesis, and obtain samples	Lecture and discussion	Discussion and active participation

# **D. General Skills**

Competency and Skills	Methods of teaching/ learning	Methods of Evaluation
A. Present a case.	Lecture and discussion	Global rating logbook
B. Write a consultation note	Lecture and discussion	Global rating logbook
C. Inform patients and maintaining comprehensive.	Lecture and discussion	Global rating logbook
D. Make timely and legible medical records	Lecture and discussion	Global rating logbook
E. Acquire the teamwork skills	Lecture and discussion	Global rating logbook

# 4. Course contents (topic s/modules/rotation Course Matrix

#### **Time Schedule: First Part**

Торіс	Covered ILOs			
	Knowledge	Intellectual	Practical skills	General Skills
	Α	В	С	D
1. Death and death	В	А	D	
certificate.				
2. Suspicious death	В		E	В
3. Death associated with	В		Ι	В
surgical anesthesia				
4. Medical reports	С	В	F	A,D,E
5. Toxicological Reports	F	В	J	A,E
6. Wounds	D		G	В
7. Firearm injuries	E		Н	В
8. Ethics in research			А	
9. Medical ethics.	А		A,B,C	C,E

# **5. Course Methods of teaching/learning:**

- 1. Lectures.
- 2. Discussions.
- 3. Exercises.

#### 6. Course assessment methods:

#### i. Assessment tools:

- 1. Written examination.
- 2. Attendance and active participation.
- 3. Oral examination.

# **ii. Time schedule:** After 6 months from applying to the M D degree.

iii. Marks: 50 (35 for written exam and 15 for oral exam).

#### 7. List of references

#### i. Lectures notes

- Course notes.
- Staff members print out of lectures and/or CD copies.

#### ii. Essential books

- Bernard Knight and Pekka Saukko (2015: Knight Forensic Pathology. Hodder Arnold press
- Goldfrank, Lewis R.; Howland, Mary Ann; Hoffman, Robert S.; Nelson, Ewis S.; Lewin, Neal A (2019): Goldfrank's Toxicologic Emergencies, 11<sup>th</sup> ed. McGraw Hill / Medical.
  - Medical Ethics Manual. World medical association. Third edition 2015.
    - Medical ethics and law. <u>Dominic Wilkinson</u>, 3<sup>rd</sup>edition 2019.

#### iii. Recommended books

• Biswas Gautam (2021): Review of Forensic Medicine & Toxicology. 5<sup>th</sup> ed. Jaypee Brothers Medical Pub.

#### iv. Journal and web site

- Journals of all Egyptian Universities of Forensic Medicine and Clinical Toxicology.
- All International Journals of Forensic Medicine and Clinical Toxicology which available in the university network at <u>www.sciencedirect.com</u>. As :
  - Forensic Science International Journal.
  - Toxicology Letter.

#### v. others

# 8. Signatures

- Course Coordinator:	- Head of the Department:
Prof. Prof. Ghada omran	Prof. Randa Hussein Abdelhady
Date: September 2017	Date: September 2017

#### **Course 4 Surgical Anatomy**

#### 1. Course data

- **Gourse Title: Surgical Anatomy.**
- **Course code: PLS 313A**
- **4** Specialty: Plastic Surgery.
- Number of Credit point : Didactic 3.5 (100%),practical 0(0%) total 3.5 CP
- Department (s) delivering the Course: Plastic Surgery Department.
- **Coordinator (s):** 
  - **4** Principle coordinator: Prof. Mohamaed Makbool
  - **4** Assistant coordinator (s) Dr. Wael Saad
- **4** Date last reviewed: 9-2022
- Requirements (prerequisites) if any : NONE

# 2. Course Aims

-The student should acquire in depth Anatomical facts necessary for Plastic Surgery and Burns.

# 3. Intended learning outcomes (ILOs):

# A-Knowledge and understanding

0	understandi	<u> </u>
ILOs	Methods of teaching/ learning	Methods of Evaluation
<ul> <li>A-Describe Anatomic details of Reconstructive and Aesthetic Surgery including:</li> <li>Surgical Anatomy of Plastic Surgery of the Integument</li> <li>Surgical Anatomy of Plastic Surgery of the Head and Neck</li> <li>Surgical Anatomy of Plastic Surgery of the Upper Extremity</li> <li>Surgical Anatomy of Plastic Surgery of the Trunk and Breast</li> <li>Surgical Anatomy of Plastic Surgery of the Lower Extremity</li> <li>Surgical Anatomy of Plastic Surgery of the Lower Extremity</li> <li>Surgical Anatomy of Plastic Surgery of the Lower Extremity</li> <li>Surgical Anatomy of Plastic Surgery of the Genitourinary System</li> </ul>	-Lectures	-Written and oral examination - Log book

# **B-Intellectual outcomes**

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of Anatomy with clinical reasoning, diagnosis and management of common conditions related to Plastic Surgery and Burns.	Clinical rounds Senior staff experience	Portfolios Procedure/case presentation Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Plastic Surgery and Burns.		

# **C- Practical skills**

#### Practical: 0 hours D-General Skills

#### **Practice-Based Learning and Improvement**

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Use information technology to manage information, access on-line medical information; and support their own education	seminars Senior Staff Experience	Oral exam Logbook

**Interpersonal and Communication Skills** 

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Write reports in common condițions mentioned in A	CLINICAL ROUNDS	Logbook
.A and A.B	SEMINARS	Oral exam Chick list

## Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
C. Demonstrate a commitment to ethical principles		Logbook Oral exam

#### **Systems-Based Practice**

ILOs	Methods of teaching learning	Methods of Evaluation
D. Work effectively in different health care delivery settings and systems.	Senior Staff Experience	1. 360o global rating

# 4-Contents (topic s/modules/rotation Matrix Course (Unit 2)

# **Time Schedule:** One year after application to MD degree

Topic	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
• Surgical Anatomy of Plastic Surgery of the Integument	*	*		*
• Surgical Anatomy of Plastic Surgery of the Head and Neck	*	*		*
• Surgical Anatomy of Plastic Surgery of the Upper Extremity	*	*		*
• Surgical Anatomy of Plastic Surgery of the Trunk and Breast	*	*		*
• Surgical Anatomy of Plastic Surgery of the Lower Extremity	*	*		*
• Surgical Anatomy of Plastic Surgery of the Genitourinary System	*	*		*

**5. Unit Methods of teaching/learning:** 

- 1. Didactic (lectures, seminars, tutorial)
- 2. Written & oral communication
- 3. Observation
- 4. Senior staff experience
- 5. Clinical round

6. Unit Methods of teaching/learning: for students with poor achievements

1. Extra Didactic (lectures, seminars, tutorial) according to their needs

7. Unit assessment methods:

- i. Assessment tools:
  - 1- Written and oral examination
  - 2- Log book
- **ii. Time schedule:** One year after application to MD degree
- iii. Marks: 175

# 8. List of references

#### i. Essential books

- Essentials of plastic surgery 2012
- Neligan plastic surgery 2018
- McCarthy Plastic Surgery, 1990
- Georgiade: Plastic, Maxillofacial and Reconstructive Surgery: By Williams & Wilkins, 1997
- Grabb & Smith's Plastic Surgery: By Lippincott Williams & Wilkins 6<sup>th</sup> Edition, 2007
- Total Burn Care: By Saunders, 2003 ii. Recommended books
- Michigan plastic surgery 3<sup>rd</sup> edition
- Oxford plastic surgery 2019
- Facial Plastic and Reconstructive Surgery: By Theme, 2002
- Current Therapy in Plastic Surgery: By Saunders, 2005
- Green's Operative Hand Surgery, 2005

• Clinical Examination (A systematic Guide to Physical Diagnosis), 2007

#### iii. Periodicals, Web sites, etc

- Plastic and reconstructive surgery
- British journal of plastic surgery
- Annals of plastic surgery
- Clinics in plastic surgery
- Burns
- Journal of burn care & rehabilitation
- Annals of burns and fire disasters
- Microsurgery
- Cleft palate journal
- Journal of trauma
- Plastic surgery news
- Aesthetic plastic surgery
- Facial plastic surgery
- http://www.plasticsurgery.org
- v. **Others:** Weekly seminars

#### 9. Signatures

- Course Coordinator:	- Head of the Department:
Prof. Mohamaed Makbool	Prof. Prof. Mohamed Elshazly
<b>Date:</b> 9-2022	Date: 9-2022

## **Course 5 Surgical Pathology**

#### 1. Course data

- **Gourse Title: Surgical Pathology.**
- **Course code: PLS 313B**
- **4** Specialty: Plastic Surgery.
- Wumber of Credit point : Didactic 3.5 (100%), practical 0(0%) total 3.5 CP
- Department (s) delivering the Course: Plastic Surgery Department.
- Coordinator (s):
  - **4** Principle coordinator: Prof. Mohamaed Makbool
  - **4** Assistant coordinator (s) Dr. Wael Saad
  - **4** Date last reviewed: 9-2022
- Requirements (prerequisites) if any :

NONE

# 2. Course Aims

-The student should acquire in depth facts of pathology necessary for Plastic Surgery and Burns.

# 3. Intended learning outcomes (ILOs):

# A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<ul> <li>A. Mention Principles of General Pathology of:</li> <li>-Wound healing</li> <li>- Pathology of Benign and Malignant skin Tumors</li> <li>-Pathology of burns</li> </ul>	-Lectures	-Written and oral examination - Log book
B-Describe Pathologic Details of: Reconstructive and Aesthetic Surgery including : -Surgical Pathology of Plastic Surgery of the Integument -Surgical Pathology of Plastic Surgery of the Head and Neck -Surgical Pathology of Plastic Surgery of the Upper Extremity -Surgical Pathology of Plastic Surgery of the Trunk and Breast -Surgical Pathology of Plastic Surgery of the Lower Extremity -Surgical Pathology of Plastic Surgery of the Genitourinary System -Pathophysiology of Burns		

# **B-Intellectual outcomes**

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Correlates the facts of Pathology with clinical reasoning, diagnosis and management of common conditions related to Plastic Surgery and Burns.	Clinical rounds Senior staff experience	Portfolios Procedure/case presentation Log book
B. Demonstrate an investigatory and analytic thinking (problem solving) approaches to common clinical situations related to Plastic Surgery and Burns.		

# **C- Practical skills**

Practical: 0 hours D-General Skills

#### **Practice-Based Learning and Improvement**

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Use information technology to manage information, access on-line medical information; and support their own education	seminars Senior Staff Experience	Oral exam Logbook

# Interpersonal and Communication Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
B. Write reports in common conditions mentioned in A .A and	CLINICAL	Logbook
Conditions mentioned in A .A and A.B	ROUNDS	Oral exam
	SEMINARS	Chick list

#### Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
C. Demonstrate a commitment to ethical principles		Logbook Oral exam

# **Systems-Based Practice**

ILOs	Methods of teaching learning	Methods of Evaluation
D. Work effectively in different health care delivery settings and systems.	Senior Staff Experience	1. 360o global rating

# Contents (topic s/modules/rotation Course Matrix (Unit 3)

# Time Schedule: One year after application to MD degree

Торіс	Covered ILOs			
-	Knowledge	Intellectual	Practical skill	General Skills
-Wound healing	*	*		*
- Pathology of Benign				
and Malignant skin	*	*		*
Tumors				
-Pathology of burns	*	*		*
-Surgical Pathology of Plastic	*	*		*
Surgery of the Integument		4		4
-Surgical Pathology of Plastic				
Surgery of the Head and	*	*		*
Neck				
-Surgical Pathology of Plastic				
Surgery of the Upper	*	*		*
Extremity				
-Surgical Pathology of Plastic				
Surgery of the Trunk and	*	*		*
Breast				
-Surgical Pathology of Plastic				
Surgery of the Lower	*	*		*
Extremity				
-Surgical Pathology of Plastic				
Surgery of the Genitourinary	*	*		*
System				
-Pathophysiology of Burns	*	*		*

# **5. Unit Methods of teaching/learning:**

- 1. Didactic (lectures, seminars, tutorial)
- 2. Written & oral communication
- 3. Observation
- 4. Senior staff experience
- 5. Clinical round

# 6. Unit Methods of teaching/learning: for students with poor achievements

1. Extra Didactic (lectures, seminars, tutorial) according to their needs

## 7. Unit assessment methods:

#### i. Assessment tools:

- 1- Written and oral examination
- 2- Log book
- ii. Time schedule: At the end of the second part
- iii. Marks: 175

# 8. List of references

# i. Essential books

- Essentials of plastic surgery 2012
- Neligan plastic surgery 2018
- McCarthy Plastic Surgery, 1990
- Georgiade: Plastic, Maxillofacial and Reconstructive Surgery: By Williams & Wilkins, 1997
- Grabb & Smith's Plastic Surgery: By Lippincott Williams & Wilkins 6<sup>th</sup> Edition, 2007
- Total Burn Care: By Saunders, 2003 ii. Recommended books
- Michigan plastic surgery 3<sup>rd</sup> edition
- Oxford plastic surgery 2019
- Facial Plastic and Reconstructive Surgery: By Theme, 2002
- Current Therapy in Plastic Surgery: By Saunders, 2005

- Green's Operative Hand Surgery, 2005
- Clinical Examination (A systematic Guide to Physical Diagnosis), 2007

iii. Periodicals, Web sites, etc

- Plastic and reconstructive surgery
- British journal of plastic surgery
- Annals of plastic surgery
- Clinics in plastic surgery
- Burns
- Journal of burn care & rehabilitation
- Annals of burns and fire disasters
- Microsurgery
- Cleft palate journal
- Journal of trauma
- Plastic surgery news
- Aesthetic plastic surgery
- Facial plastic surgery
- http://www.plasticsurgery.org

#### iv. Others

Weekly seminars

#### 9. Signatures

- Course Coordinator:	- Head of the Department:
Prof. Mohamaed Makbool	Prof. Prof. Mohamed Elshazly
Date: 9-2022	Date: 9-2022

#### Second part

**Course 6 Plastic Surgery and Burns (Advanced)** 

Faculty of medicine Assiut University 2022-2023/ 2023-2024 This course include

- 1- Aesthetic Surgery
- 2- Reconstructive Surgery

3- Burn

#### 1. Course data

- Course Title: Plastic Surgery and Burns (advanced).
- **Course code: PLS 313C.**
- Specialty Plastic Surgery.
- Number of Credit point : 24 (16.3%) practical 123 (83.7%).total 147
- **Department (s) delivering the unit : Plastic Surgery**
- Coordinator (s):
  - Principle coordinator Prof. Osama Yassin
  - Assistant coordinator (s) Dr. Mohamed Elsheref
- **4** Date last reviewed: 9-2022
- Requirements (prerequisites) if any :
- 🜲 NONE
- Requirements from the students to achieve course ILOs are clarified in the joining log book.

#### 2. Course Aims

- **1.** Get thorough knowledge of the basis of Plastic Surgery and Burns
- 2. Get relevant skills in clinical practice of Plastic Surgery and Burns
- **3.** Provide effective consultation services in Plastic Surgery and Burns
- 4. Provide effective patient care service in Plastic Surgery and Burns
- 5. Provide the candidates with effective education service in Plastic Surgery and Burns
- 6. Respect the medico-legal aspects

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

# A-Knowledge and understanding

ILOs	Methods of teaching/ learning	Methods of Evaluation
<ul> <li>A. Explain update and evidence based etiology, clinical picture, diagnosis and management of the following common diseases and clinical conditions:</li> <li>Core of Knowledge/ General Plastic Surgical Principles and Techniques:</li> <li>Wound Repair: Principles and Applications Flaps and Grafts</li> </ul>	-Didactic, -Journal club, -Educational prescription, -present a case, -conferences	-Record review, -Global rating, -Simulations, -Portfolios, Standardized oral exam,

Microsurgery	written
Implants/Biomaterials	exam,
Special Techniques	-Procedure/
Plastic Surgical Aspects of Specific Related	case log
Disciplines:	
Medicolegal and Psychiatric Aspects of Plastic	
Surgery	
Anesthesia and Critical Care	
Transplantation/Immunology	
Pharmacology/Therapeutics	
Plastic Surgery of the Integument:	
Anatomy/Physiology/Embryology	
Benign and Malignant Skin Lesions	
Congenital, Aesthetic and Functional Problems	
Burns Management	
Plastic Surgery of the Head and Neck:	
Anatomy/Physiology/Embryology	
Congenital Disorders	
Benign and Malignant Tumors	
Trauma	
Aesthetic and Functional Problems	
Reconstruction	
Plastic Surgery of the Upper Extremity:	
Anatomy/Physiology/Embryology	
Congenital Disorders	
Benign and Malignant Tumors	
Trauma	
Aesthetic and Functional Problems	
Reconstruction	
Plastic Surgery of the Trunk and Breast:	
Anatomy/Physiology/Embryology	
Congenital Disorders	
Benign and Malignant Tumors	
Trauma and Reconstruction	

·	
Aesthetic and Functional Problems	
Plastic Surgery of the Lower Extremity:	
Anatomy/Physiology/Embryology	
Trauma/Reconstruction	
Plastic Surgery of the Genitourinary System:	
Anatomy/Embryology	
Trauma/Reconstruction/Functional Disorders	
B. Mention the principles of	
Aesthetic Surgery of the Head and Neck	
Aesthetic Surgery of the trunk and Breast	
Aesthetic Surgery of the upper limb	
Aesthetic Surgery of the lower limb	
Reconstructive Surgery of the Head and Neck	
Reconstructive Surgery of the trunk and Breast	
Reconstructive Surgery of the upper limb	
Reconstructive Surgery of the lower limb	
Reconstructive Surgery of the Genitourinary	
Burn Epidemiology	
Pathophysiology of Burns	
Early burn management	
Burn reconstruction	
Nutritional therapy	
Fluid therapy	
Neurotoxins (Botox)	
Soft tissue fillers	
Local Anesthesia	
Shock     Shock	
<ul><li>Electrolyte imbalance</li><li>Major organ failure</li></ul>	
<ul> <li>Pathophysiology of burns</li> </ul>	
<ul> <li>Respiratory failure</li> </ul>	
<ul> <li>Acid-base balance</li> </ul>	
C. Mention briefly state of art of the following rare	
diseases and conditions	
Wound Repair	
D. Explain the facts and principles of the relevant	
basic supportive sciences related to Plastic	

-		
	Surgery and Burns (advanced).	
Ε.	Explain the facts and principles of the relevant	
	clinically supportive sciences related to Plastic	
	Surgery and Burns (advanced).	
F.	Describe the basic ethical and medicolegal	
	principles revenant to the Plastic Surgery and	
	Burns (advanced).	
G.	Describe the basics of quality assurance to ensure	
	good clinical care in Plastic Surgery and Burns	
	(advanced)	
Η.	Explain the ethical and scientific principles of	
	medical research	
١.	Explain the impact of common health problems	
	in the field of Plastic Surgery and Burns	
	(advanced) on the society.	

#### **B-Intellectual outcomes**

B-intellectual outcomes			
ILOs	Methods of teaching/	Methods of Evaluation	
	learning		
A. Design / present case in common problem related to Plastic Surgery and Burns (advanced)	-Clinical rounds	-Portfolios Procedure/case	
	-Senior staff	presentation	
	experience	-Log book	
B. Apply the basic and clinically supportive sciences which are appropriate to Plastic Surgery and Burns (advanced) related conditions.			
<ul> <li>C. Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to Plastic Surgery and Burns (advanced).</li> <li>D. Plan research projects.</li> </ul>			
E. Write scientific papers.			
<ul> <li>F. Lead risk management activities as a part of clinical governs.</li> <li>Bleeding</li> </ul>			

- Shock	
<ul> <li>Respiratory failure</li> </ul>	
- Cardiac arrest	
G. Plain quality improvement activities in the field	
of medical education and clinical practice in	
Plastic Surgery and Burns (advanced)	
H. Create and innovate plans, systems, and other	
issues for improvement of performance in Plastic	
Surgery and Burns (advanced).	
I. Present and defend his / her data in front of a	
panel of experts	
J. Formulate management plans and alternative	
decisions in different situations in the field of the	
Plastic Surgery and Burns (advanced).	

# **C-Practical skills (Patient Care)**

ILOs	Methods of	Methods of	
	teaching/	Evaluation	
	learning		
A. Take history, examine and clinically diagnose different conditions related to Plastic Surgery and Burns (advanced).	-Didactic, -Journal club, -Educational prescription, - Present a case, Observation & Supervision,	-Record review, -Checklist, -Global rating -Simulations, -Portfolios, -Standardized oral exam, written exam, procedure/ Case log	
<ul> <li>B. Order the following non invasive/invasive diagnostic procedures</li> <li>-Complete blood count</li> <li>-Kidney function</li> <li>-Serum electrolyte</li> <li>-Wound culture</li> </ul>	-Clinical round with senior staff Lectures, Hand on workshops Perform under supervision of	Written and oral examination - Procedure -presentation - Log book - Chick list	

-Blood culture	senior staff	
-Arterial Blood Gases		
-Radiological imaging		
-Excisional biopsy		
- Doppler US		
<ul> <li>C. Interpret the following non invasive/invasive diagnostic procedures</li> <li>-Complete blood count</li> <li>-Kidney function</li> </ul>	Clinical round with senior staff Lectures, Hand on	Written and oral examination - Procedure
-Serum electrolyte	workshops Perform under	-presentation - Log book
-Wound culture -Blood culture	supervision of senior staff	- Chick list
-Arterial Blood Gases		
- Radiological imaging		
Doppler US		
<ul> <li>D. Perform the following non invasive/invasive diagnostic procedures:</li> <li>-Excisional biopsy</li> </ul>	Assisting senior staff in operations	
-Doppler US		
<ul> <li>E. Prescribe the following non invasive/invasive therapeutic procedures.</li> <li>-Prescribe various medical drugs related to Plastic surgery and burns</li> <li>- Debridement</li> </ul>	-Lectures, Courses -Assisting senior staff in operations	-Written and oral examination -Procedure presentation - Log book - Chick list
<ul> <li>F. Perform the following non invasive/invasive therapeutic procedures</li> <li>Debridement</li> <li>Independently Operate various Plastic</li> </ul>	Assisting senior staff in operations	Procedure presentation - Log book - Chick list

surgical therapeutic procedures- - Competent management of all postoperative complications either medically or surgically -Endoscopic assisted plastic surgery procedures. -Laparoscopic weight reduction surgery procedures.		
G. Develop and carry out patient management plans for the problems lists of Plastic Surgery and Burns (advanced)as mentioned in A.A	Lectures Clinical rounds Seminars Clinical round with senior staff Observation Post graduate teaching Case Presentations	-Case presentation -Clinical examination
<ul> <li>H. Counsel and educate patients and their family about Plastic Surgery and Burns (advanced) :</li> </ul>	-Clinical round with senior staff	-Clinical examination -Check list
<ul> <li>Inform patient about sequelae of Aesthetic and Reconstructive surgeries</li> </ul>	-Observation -Post graduate teaching	-log book & portfolio Procedure/case
- Inform patient about sequelae of Burns		presentation
- Inform family about congenital anomalies		
-Explain perioperative process, likely outcome and time to recovery to patients, and check understanding.		
- Interpretation of results of different investigations related to the conditions mentioned in A.A and discussion of different therapeutic		

<ol> <li>Use information technology to support patient care decisions and patient education for Plastic Surgery and Burns related conditions.</li> </ol>		
<ul> <li>J. Provide health care services aimed at preventing the following conditions:</li> <li>Wound infections</li> <li>Shock</li> <li>Electrolyte imbalance</li> <li>Septicemia</li> <li>Respiratory Failure</li> <li>Multi-organ failure</li> <li>Burn complications</li> <li>Congenital anomalies sequel</li> </ul>	-Lectures -Clinical rounds -Seminars	-Checklist
K. Work with health care professionals, including those from other disciplines, to provide patient-focused care.	Clinical round with senior staff	
L-Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive, timely and legible medical records)		

## D-General Skills Practice-Based Learning and Improvement

ILOs	Methods of teaching/ learning	Methods of Evaluation
A. Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)	-Journal club, - Educational prescription, -present a case, Observation & Supervision, -Conferences, written and oral assignment	-Global rating, - Simulations, -Portfolios
<ul> <li>B. Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.</li> </ul>		
C. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness		
<ul> <li>D. Use information technology to manage information, access on-line medical information; and support their own education</li> </ul>		
E. Lead the learning of students and other health care professionals.		

# **Interpersonal and Communication Skills**

ILOs	Methods of teaching/	Methods of Evaluation
<ul> <li>F. Create and sustain a therapeutic and ethically sound relationship with patients</li> <li>G. Perform the following oral communications: -Obtain consent from patients:</li> <li>Inform patient about sequelae of Aesthetic and Reconstructive surgeries</li> <li>Inform patient about sequelae of Burns</li> <li>Explain perioperative process, likely outcome and time to recovery to patients, and check understanding.</li> <li>Inform patient about sequelae of Burns</li> </ul>	teaching/ learning Educational prescription, present a case, Observation & Supervision, conferences, - written and oral assignment	Evaluation Record review, checklist, global rating, simulations, portfolios, standardized oral exam
- Interpretation of results of different investigations related to the conditions mentioned in 1.1 and discussion of different therapeutic options		
H. Fill the following reports: -Admission report		

-Discharge report	
-Death report	
-Operative report	
-Follow up report	
<ol> <li>Work effectively with others as a member or leader of a health care team e.g. in operation room.</li> </ol>	

# Professionalism

ILOs	Methods of teaching/ Learning	Methods of Evaluation
J. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supersedes self- interest.	-Clinical rounds -Seminars -Clinical rotations (service teaching)	<ol> <li>Objective structured clinical examination</li> <li>Patient survey</li> </ol>
K. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.		1. 360o global rating
L. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		

#### **Systems-Based Practice**

ILOs	Methods of teaching/ learning	Methods of Evaluation
M.Work effectively in different health care delivery settings and systems including good administrative and time management.		1. 360o global rating
N. Practice cost-effective health care and resource allocation that does not compromise quality of care		1. Check list evaluation of live or recorded performance
O. Advocate for quality patient care and assist patients in dealing with system complexities		<ol> <li>360o global rating</li> <li>Patient survey</li> </ol>
<ul> <li>P. Partner with health care managers and health care providers to assess, coordinate, and improve health care and predict how these activities can affect system performance</li> </ul>		

# 4. Contents (topic s/modules/rotation Course Matrix

# Time Schedule: Second part

Торіс	Covered ILOs			
	Knowledge	Intellectual	Practical skill	General Skills
General Principles in Wound Repair	*		*	*
General Principles in Flaps and Grafts	*		*	*
General Principles in Microsurgery	*		*	*
General Principles in Implants/Biomaterials	*		*	*
Special Techniques in General Plastic Surgery	*		*	*
Anesthesia and Critical Care in Plastic Surgery	*		*	*
Pharmacology/Therapeutics in Plastic Surgery	*			*
Transplantation/Immunology	*			*
Neurotoxins (Botox)	*		*	*
Soft tissue fillers	*		*	*
Medicolegal and Psychiatric Aspects of Plastic Surgery	*			*
Benign and Malignant Skin Lesions	*		*	*
Congenital Disorders in the Head and Neck	*		*	*
Benign and Malignant Tumors of the Head and Neck	*		*	*
Head and Facial Trauma	*	*	*	*
Aesthetic and Functional Problems of the Head and Neck	*		*	*
Head and Neck Reconstruction	*	*	*	*
Congenital Disorders of the	*		*	*

Upper Extremity				
Benign and Malignant Tumors of the Upper Extremity	*		*	*
Upper Extremity Trauma	*	*	*	*
Aesthetic and Functional Problems of the Upper Extremity	*		*	*
Upper Extremity Reconstruction	*	*	*	*
Congenital Disorders of the Trunk and Breast	*		*	*
Benign and Malignant Tumors of the Trunk and Breast	*		*	*
Trauma and Reconstruction of the Trunk and Breast	*	*	*	*
Aesthetic and Functional Problems of the Trunk and Breast	*		*	*
Trauma and Reconstruction of the Lower Extremity	*	*	*	*
Trauma, Reconstruction and Functional Disorders of the Genitourinary System	*	*	*	*
Early Burns Management	*		*	*
Burn reconstruction	*	*	*	*

#### 5. Methods of teaching/learning:

- 1. Didactic (Lectures, seminars, tutorial)
- 2. Journal club
- 3. Education prescription
- 4. Case presentation (True or simulated) in a grand rounds
- Observation and supervision in clinic, ward, and operations
- 6. Conferences
- 7. Written and oral assignments

6. Methods of teaching/learning: for students with poor achievements

- 1. Didactic (Lectures, seminars, tutorial)
- 2. Journal club
- **3.** Education prescription

7. Assessment methods:

i. Assessment tools:

Record review,

Checklist,

Global rating,

Simulations, Portfolios,

Standardized oral examination,

Written examination,

Procedure/ case log

ii. Time schedule: At the end of second part

iii. Marks: 1200

#### 8. List of references

#### i. Essential books

- Essentials plastic surgery 2012
- Neligan plastic surgery 2018
- McCarthy Plastic Surgery, 1990
- Georgiade: Plastic, Maxillofacial and Reconstructive Surgery: By Williams & Wilkins, 1997
- Grabb & Smith's Plastic Surgery: By Lippincott Williams & Wilkins 6<sup>th</sup> Edition, 2007
- Total Burn Care: By Saunders, 2003
   ii. Recommended books
   Michigan plastic surgery 3<sup>rd</sup> edition
   Oxford plastic surgery 2019
- Facial Plastic and Reconstructive Surgery: By Thieme, 2002
- Current Therapy in Plastic Surgery: By Saunders, 2005
- Green's Operative Hand Surgery, 2005
- Clinical Examination (A systematic Guide to Physical Diagnosis), 2007
  - iii. Periodicals, etc
    - PLASTIC AND RECONSTRUCTIVE SURGERY
    - BRITISH JOURNAL OF PLASTIC SURGERY
    - ANNALS OF PLASTIC SURGERY
    - CLINICS IN PLASTIC SURGERY

- BURNS
- JOURNAL OF BURN CARE & REHABILITATION
- Annals of Burns and Fire Disasters
- MICROSURGERY
- CLEFT PALATE JOURNAL
- JOURNAL OF TRAUMA
- PLASTIC SURGERY NEWS
- AESTHETIC PLASTIC SURGERY
- FACIAL PLASTIC SURGERY Web sites,
- http://www.plasticsurgery.org

iv. Others

Weekly seminars

### 9. Signatures

<ul> <li>Course Coordinator:</li> <li>Principle coordinator Prof. Osama</li> <li>Yassin</li> <li>Assistant coordinator (s) Dr.</li> <li>Mohamed Elsheref</li> </ul>	- Head of the Department: Prof. Prof. Mohamed Elshazly
Date: 9-2022	Date: 9-2022

### ANNEX 2 Program Academic Reference Standards (ARS)

1- Graduate attributes for medical doctorate in Plastic surgery and burn

### The Graduate (after residence training and medical doctorate years of study) must:

- Demonstrate competency and mastery of basics, methods and tools of scientific research and clinical audit in Plastic surgery and burn.
- 2- Have continuous ability to add knowledge to Plastic surgery and burn through research and publication.
- **3-** Appraise and utilise relevant scientific knowledge to continuously update and improve clinical practice.
- 4- Acquire excellent level of medical knowledge in the basic biomedical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care and scientific research.
- 5- Function as a leader of a team to provide patient care that is appropriate, effective and compassionate for dealing with health problems and health promotion.
- 6- Identify and create solutions for health problems in Plastic surgery and burn.
- 7- Acquire an in depth understanding of common areas of Plastic surgery and burn, from basic clinical care to evidence based clinical application, and possession of

required skills to manage independently all problems in these areas.

- 8- Demonstrate leadership competencies including interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public.
- **9-** Function as teacher in relation to colleagues, medical students and other health professions.
- **10-** Master decision making capabilities in different situations related to Plastic surgery and burn.
- 11- Show leadership responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.
- 12- Demonstrate in depth awareness of public health and health policy issues including independent ability to improve health care, and identify and carryout systembased improvement of care.
- **13-** Show model attitudes and professionalism.
- 14- Demonstrate commitment for lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages and in Plastic surgery and burn or one of its subspecialties.
- **15-** Use recent technologies to improve his practice in Plastic surgery and burn.
- **16-** Share in updating and improving clinical practice in Plastic surgery and burn.

### 2- Competency based Standards for medical doctorate in Plastic surgery and burn

### 22.1- Knowledge and understanding

## By the end of the program, the graduate should demonstrate satisfactory knowledge and understanding of

- 2-1-A- Established, updated and evidence- based theories, basics and developments of Plastic surgery and burn and relevant sciences.
- **2-1-B-** Basics, methods and ethics of medical research.
- **2-1-C-** Ethical and medicolegal principles of medical practice related to Plastic surgery and burn
- **2-1-D-** Principles and measurements of quality in Plastic surgery and burn.
- **2-1-E-** Principles and efforts for maintainance and improvements of public health.

### 2- Intellectual skills

### By the end of the program, the graduate should be able to demonstrate the following

- **2-2-A-** Application of basic and other relevant science to solve Plastic surgery and burn related Problems.
- **2-2-B-** Problem solving based on available data.
- 2-2-C- Involvement in research studies related to Plastic surgery and burn
- 2-2-D- Writing scientific papers.
- **2-2-E-** Risk evaluation in the related clinical practice.
- **2-2-F-** Planning for performance improvement in Plastic surgery and burn
- **2-2-G-** Creation and innovation in Plastic surgery and burn.
- **2-2-H-** Evidence based discussion.
- **2-2-I-** Decision making in different situations related to Plastic surgery and burn.

### 2.3- Clinical skills

### By the end of the program, the graduate should be able to Gompetency-based outcomes for Patient Care:-

- 2-3-A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence – based clinical application and possession of skills to manage independently all problems in Plastic surgery and burn
- **2-3-B-** Master patient care skills relevant to Plastic surgery and burn for patients with all diagnoses and procedures.
- **2-3-C-** Write and evaluate reports for situations related to the Plastic surgery and burn.

### 2.4- General skills

### By the end of the program, the graduate should be able to Competency-based outcomes for Practice-based Learning and Improvement

- 2-4-A-Master practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management
- **2-4-B-** Use competently all information sources and technology to improve his practice.
- **2-4-C-** Master skills of teaching and evaluating others.
  - Competency-based objectives for Interpersonal and Communication Skills
- **2-4-D**-Master interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and other health professionals.

### Competency-based objectives for Professionalism

2-4-E-Master Professionalism behavior, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

### **4** Competency-based objectives for Systems-based Practice:

- **2-4-F**-Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.
- **2-4-G-** Participate in improvement of the education system.
- **2-4-H-** Demonstrate skills of leading scientific meetings including time management
- **2-4-O-** Demonstrate skills of self and continuous learning.

# Annex 3, Methods of teaching/learning

### Annex 3, Methods of teaching/learning

	Patient care	Medical knowledg e	based learning/	Interperso nal and communic ation skills	alism	Systems- based practice
Didactic (lectures, seminars, tutorial)	Х	Х		X	Х	Х
journal club,	Х	Х	Х			
Educational prescription	Х	Х	Х	Х	Х	Х
Present a case (true or simulated) in a grand round	Х	Х	X	X	Х	
Observation and supervision	Х		х	X	Х	Х
conferences		Х	Х	Х		Х
Written assignments	Х	Х	Х	Х	Х	Х
Oral assignments	Х	Х	Х	Х	Х	Х

### Teaching methods for knowledge

- Didactic (lectures, seminars, tutorial)
- ✤ journal club
- Critically appraised topic
- Educational prescription (a structured technique for following up on clinical questions that arise during rounds and other venues).
- Present a case (true or simulated) in a grand round
- Others

### Teaching methods for patient care

- Observation and supervision /Completed tasks procedure/case logs
- On-the-job" training without structured teaching is not sufficient for this skill (checklists).
- Simulation is increasingly used as an effective method for skill/ teamwork training.

### Teaching methods for other skills

- Written communication (e.g., orders, progress note, transfer note, discharge summary, operative reports, and diagnostic reports).
- Oral communication (e.g., presentations, transfer of care, interactions with patients, families, colleagues, members of

the health care team) and/or non verbal skills (e.g., listening, team skills)

Professionalism, including medical ethics, may be included as a theme throughout the program curriculum that includes both didactic and experiential components (e.g., may be integrated into already existing small group discussions of vignettes or case studies and role plays, computer-based modules) and may be modeled by the faculty in clinical practice and discussed with the resident as issues arise during their clinical practice.

# Annex 4, Assessment methods

### Annex 4, ILOs evaluation methods for MD students.

Method	Practic al skills	К	Intellect ual		Gener	al skills	
	Patient care	К	Ι	based learning/	Interperso nal and communic ation skills		Systems- based practice
Record review	Х	Х	Х		Х	Х	Х
Checklist	Х				Х		
Global rating	Х	Х	Х	Х	Х	Х	Х
Simulations	Х	Х	Х	Х	Х	Х	
Portfolios	Х	Х	Х	Х	Х		
Standardized oral examination	Х	Х	X	X	X		Х
Written examination	Х	Х	Х	Х			Х
Procedure/ case log	Х	Х					
OSCE	Х	Х	X	X	X	X	X

### Annex 4, Glossary of MD students' assessment methods

- Record Review Abstraction of information from patient records, such as medications or tests ordered and comparison of findings against accepted patient care standards.
- Chart Stimulated Recall Uses the MD doctor's patient records in an oral examination to assess clinical decisionmaking.
- Mini clinical evaluation: Evaluation of Live/Recorded Performance (single event) – A single resident interaction with a patient is evaluated using a checklist. The encounter may be videotaped for later evaluation.
- Standardized Patients (SP) Simulated patients are trained to respond in a manner similar to real patients. The standardized patient can be trained to rate MD doctor's performance on checklists and provide feedback for history taking, physical examination, and communication skills. Physicians may also rate the MD doctor's performance.
- Objective Structured Clinical Examination (OSCE) A series of stations with standardized tasks for the MD doctors to perform. Standardized patients and other assessment methods often are combined in an OSCE. An observer or the standardized patient may evaluate the MD doctors.
- Procedure or Case Logs MD doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.
- PSQs Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by MD doctors.

- Case /problems assess use of knowledge in diagnosing or treating patients or evaluate procedural skills.
- Models: are simulations using mannequins or various anatomic structures to assess procedural skills and interpret clinical findings. Both are useful to assess practice performance and provide constructive feedback.
- 360 Global Rating Evaluations MD doctors, faculty, nurses, clerks, and other clinical staff evaluate MD doctors from different perspectives using similar rating forms.
- Portfolios A portfolio is a set of project reports that are prepared by the MD doctors to document projects completed during the MD study years. For each type of project standards of performance are set. Example projects are summarizing the research literature for selecting a treatment option, implementing a quality improvement program, revising a medical student clerkship elective, and creating a computer program to track patient care and outcomes.
- Examination MCQ A standardized examination using multiple-choice questions (MCQ). The in-training examination and written board examinations are examples.
- Examination Oral Uses structured realistic cases and patient case protocols in an oral examination to assess clinical decision-making.
- Procedure or Case Logs MD doctors prepare summaries of clinical experiences including clinical data. Logs are useful to document educational experiences and deficiencies.
- PSQs Patients fill out Patient Survey questionnaires (PSQs) evaluating the quality of care provided by MD doctors.

# Annex 5, program evaluation tools

By whom	Method	sample
Quality Assurance	Reports	#
Unit	Field visits	
External Evaluator	Reports	#
(s):According to	Field visits	
department council		
External Examiner		
(s): According to		
department council		
Stakeholders	Reports	#
	Field visits	
	questionnaires	
Senior students	questionnaires	#
Alumni	questionnaires	#

# Annex 6, program Correlations:

### مصفوفة توافق المعايير القومية القياسية العامة لبرامج الدكتوراه مع المعايير الأكاديمية المعتمدة من كلية الطب 🗌 جامعة أسيوط لدرجة الدكتوراه في جراحة التجميل و الحروق

### I- General Academic Reference Standards (GARS) versus Program ARS

### 1- Graduate attributes

Faculty ARS	NAQAAE General ARS for Postgraduate Programs
<ol> <li>Demonstrate competency and mastery of basics, methods and tools of scientific research and clinical audit in Plastic surgery and burns.</li> </ol>	1-إتقان أساسيات و منهجيات البحث العلمي
<ul> <li>2- Have continuous ability to add knowledge new developments to Plastic surgery and burns. through research and publication.</li> </ul>	2–العمل المستمر علي الإضافة للمعارف في مجال التخصص
3- Appraise and utilise scientific knowledge to continuously update and improve clinical practice and relevant basic sciences.	3-تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص و المجالات ذات العلاقة
4- Acquire excellent level of medical knowledge in the basic biomedical, clinical, behavioural and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care and scientific	4-دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا و مطورا للعلاقات البينية بينها
<ul> <li>5- Function as a leader of a team to provide patient care that is appropriate, compassionate for dealing with effective and health</li> <li>Problems and health promotion.</li> <li>7- Acquire an in depth understanding of common areas of speciality, from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in these areas.</li> </ul>	5-إظهار وعيا عميقا بالمشاكل الجارية و النظريات الحديثة في مجال التخصص
6- Identify and create solutions for health problems in Plastic surgery and burns.	6-تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها
5- Function as a leader of a team to	7-إتقان نطاقا واسعا من المهارات المهنية في

<ul> <li>provide patient care that is appropriate, effective and compassionate for dealing with health</li> <li>Problems and health promotion.</li> <li>7- Acquire an in depth understanding of</li> <li>Common areas of Plastic surgery and burns.</li> <li>From basic clinical care to evidence based</li> <li>clinical application, and possession of skills to manage independently all problems in these areas.</li> </ul>	مجال التخصص
<ul> <li>16- Share in updating and improving clinical practice in Plastic surgery and burns.</li> <li>9- Function as teacher in relation to colleagues, medical students and other health professions.</li> </ul>	8- التوجه نحو تطوير طرق و أدوات و أساليب جديدة للمزاولة المهنية
15- Use recent technologies to improve his practice in Plastic surgery and burns.	9-استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
<ul> <li>8- Demonstrate leadership competencies including interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public.</li> <li>5- Function as a leader of a team to Provide patient care that is appropriate, effective and compassionate for dealing with</li> </ul>	10-التواصل بفاعلية و قيادة فريق عمل في سياقات مهنية مختلفة
effective and compassionate for dealing with health problems and health promotion. 10- Master decision making capabilities in different situations related to Plastic surgery	11-اتخاذ القرار في ظل المعلومات المتاحة
and burns. 11- Show leadership responsiveness to the larger context of the health care system, including e.g. the organisation of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.	12-توظيف الموارد المتاحة بكفاءة و تنميتها والعمل على إيجاد موارد جديدة

12- Demonstrate in depth awareness of public health and health policy issues including independent ability to improve health care, and identify and carryout system-based improvement of care.	13-الوعي بدوره في تنمية المجتمع والحفاظ على البيئة
13- Show model attitudes and professionalism.	14-التصرف بما يعكس الالتزام بالنزاهة و المصداقية و قواعد المهنة
<ul> <li>14- Demonstrate commitment for lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages and in Plastic surgery and burns or one of its subspecialties.</li> <li>15- Use recent technologies to improve His practice in Plastic surgery and burns.</li> </ul>	15-الالتزام بالتنمية الذاتية المستمرة و نقل علمه و خبراته للأخرين

### 2- Academic standards

Faculty ARS	NAQAAE General ARS for
	Postgraduate Programs
2.1. A- Established, updated and Evidence- based theories, basics and developments of Plastic surgery and burns and relevant sciences.	2-1-أ- النظريات و الأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة
2.1. B- Basic, methods and ethics of medical research.	1-2-ب –أساسيات و منهجيات و أخلاقيات البحث العلمي و أدواته المختلفة
2.1. C- Ethical and medicologal principles of medical practice related to Plastic surgery and burns.	1-2-ج- المبادئ الأخلاقية و القانونية للممارسة المهنية في مجال التخصص
2.1. D- Principles and measurements of quality in Plastic surgery and burns.	1-2-د مبادئ و أساسيات الجودة في الممارسة المهنية في مجال التخصص
2.1. E- Principles and efforts for maintains and improvements of public health.	1-2-هـ – المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها
2.2. A- Application of basic and other relevant science to solve Plastic surgery and burns. Related problems.	2–2–أ –تحليل و تقييم المعلومات في مجال التخصص و القياس عليها و الاستنباط منها
2.2. B- Problem solving based on available data.	2-2-ب -حل المشاكل المتخصصة استنادا علي المعطيات المتاحة
2.2. C- Involvement in research studies related to Plastic surgery and burns.	2-2-ج -إجراء دراسات بحثية تضيف إلى المعارف
2.2. D- Writing scientific papers.	2-2-د- صياغة أوراق علمية
2.2. E- Risk evaluation in the related clinical practice.	2–2—ه تقييم المخاطر في الممارسات المهنية
2.2. F- Planning for performance improvement in Plastic surgery and burns.	2–2–و –التخطيط لتطوير الأداء في مجال التخصص

2-2-G- Creation and innovation in the Plastic surgery and burns.	2-2-ز – الابتكار /الإبداع
2.2. H- Evidence – based discussion.	2–2–ح– الحوار والنقاش المبني علي البراهين والأدلة
2.2. I- Discussion making in different situations related to Plastic surgery and burns	2–2–ط –اتخاذ القرارات المهنية في سياقات مهنية مختلفة
<ul> <li>2.3. A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence – based clinical application and possession of skills to manage independently all problems in Plastic surgery and burns.</li> <li>2.3. B- Master patient care skills relevant to Plastic surgery and burnsor patients with all diagnoses and procedures.</li> </ul>	2-3-أ -إتقان المهارات المهنية الأساسية و الحديثة في مجال التخصص
2.3. C- Write and evaluate reports for situations related to the field of Plastic surgery and burns.	2–3–ب– كتابة و تقييم التقارير المهنية.
2.4.A-Master practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management	2–3–ج –تقييم و تطوير الطرق و الأدوات القائمة في مجال التخصص
2.4.B- Use competently all information sources and technology to improve his practice.	2–3–د – استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية
<ul> <li>2.4.A-Master practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management</li> <li>2.4.G- Participate in improvement of the education system.</li> </ul>	2-3-ه -التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين

### II-Program ARS versus program ILOs

### Comparison between ARS- ILOS for medical doctorate

(ARS)	(ILOs)
2-1- Knowledge and understanding	2-1- Knowledge and understanding
2-1-A- Established, updated and evidence-based Theories, Basics and developments of Plastic surgery and burns and relevant sciences.	2-1-A- Demonstrate in-depth knowledge and understanding of theories, basics and updated biomedical, clinical epidemiological and socio behavioral science relevant to his specialty as well as the evidence – based application of this knowledge to patient care.
<b>2-1-B</b> Basic, methods and ethics of medical research.	2-1-B- Explain basics, methodology, tools and ethics of scientific medical, clinical research.
<b>2-1-C-</b> Ethical and medicologal principles of medical practice related to Plastic surgery and burns field.	<b>2-1-C-</b> Mention ethical, medico logical principles and bylaws relevant to his practice in the field of Plastic surgery and burns.
<b>2-1-D-</b> Principles and measurements of quain the Plastic surgery and burns.	2-1-D- Mention principles and measurements of quality assurance and quality improvement in medical education and in clinical practice of Plastic surgery and burns.
2-1-E-Principles and efforts for maintains and improvements of public health.	2-1-E- Mention health care system, public health and health policy, issues relevant to this specialty and principles and methods of system – based improvement of patient care in common health problems of the field of Plastic surgery and burns.
<u>2-2- Intellectual skills</u> :	<u>2-2- Intellectual skills:</u>
<b>2-2-A</b> -Application of basic and other relevant science to solve Plastic	<b>2-2-A-</b> Apply the basic and clinically supportive sciences which are appropriate to Plastic

surgery and burns.related	surgery and burns.related conditions /
problems. <b>2-2-B-</b> Problem solving based on available data.	problem / topics. <b>2-2-B-</b> Demonstrate an investigatory and analytic thinking "problem – solving "approaches to clinical situation related to Plastic surgery and burns.
2-2-C- Involvement in research studies related to the Plastic surgery and burns.	<b>2-2-C-</b> Plain research projects.
2-2-D Writing scientific papers.	<b>2-2-D-</b> Write scientific paper.
<b>2-2-E</b> -Risk evaluation in the related clinical practice.	<b>2-2-E-</b> Participate in clinical risk management as a part of clinical governance.
<b>2-2-F-</b> Planning for performance improvement in the Plastic surgery and burns.field.	<b>2-2-F-</b> Plan for quality improvement in the field of medical education and clinical practice in his specialty.
<b>2-2-G-</b> Creation and innovation in the specialty field.	2-2-G- Create / innovate plans, systems, and other issues for improvement of performance in his practice.
<b>2-2-H-</b> Evidence – based discussion.	<b>2-2-H-</b> Present and defend his / her data in front of a panel of experts.
<b>2-2-I-</b> Decision making in different situations related to Plastic surgery and burns fields.	<b>2-2-I-</b> Formulate management plans and alternative decisions in different situations in the field of the Plastic surgery and burns.

continuous (ARS)	continuous (ILOS)
2-3- Clinical skills:	2/3/1/Practical skills (Patient care :)
<ul> <li>2-3-A- MD students must be able to provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health extensive level means in depth understanding and from basic science to evidence – based clinical application and possession of skills to manage independently all problems in his field of practice.</li> <li>2-3-B- Master patient care skills relevant to Plastic surgery and burns for patients with all diagnoses and procedures.</li> </ul>	<ul> <li>2-3-1-A- Provide extensive level of patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. <i>p.s.</i> Extensive level means in-depth understanding from basic science to evidence – based clinical application and possession of skills to manage independently all problems in field of practice.</li> <li>2-3-1-B- Provide extensive level of patient care for patients with all common diagnoses and for uncomplicated procedures related to Plastic surgery and burns.2-3-1-C- Provide extensive level of patient care for non-routine, complicated patients and under increasingly difficult circumstances, while demonstrating compassionate, appropriate and effective care.</li> </ul>
	<ul> <li>2-3-1-D- Perform diagnostic and therapeutic procedures considered essential in the field of Plastic surgery and burns.</li> <li>2-3-1-E- Handles unexpected complications, while demonstrating compassion and sensitivity to patient needs and concerns.</li> <li>2-3-1-F- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families in the Plastic surgery and burns related</li> </ul>

situations. <b>2-3-1-G-</b> Gather essential and accurate information about patients of the Plastic surgery and burns related conditions.
<b>2-3-1-H</b> Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to- date scientific evidence and clinical judgment for the Plastic surgery and burns Related conditions.
2-3-1-I- Develop and carry out patient management plans for Plastic surgery and burns related conditions.
2-3-1-J- Counsel and educate patients and their families about Plastic surgery and burns related conditions.
<ul> <li>2-3-1-K- Use information technology to support patient care decisions and patient education in all Plastic surgery and burns related clinical situations.</li> </ul>
<b>2-3-1-L-</b> Perform competently all medical and invasive procedures considered essential for the Plastic surgery and burns related conditions / area of practices.
<ul><li>2-3-1-M- Provide health care services aimed at preventing the Plastic surgery and burns related health problems.</li></ul>
<ul> <li>2-3-1-N- Lead health care professionals, including those from other disciplines, to provide patient-focused care in Plastic surgery and burns related</li> </ul>

	conditions.
<b>2-3-C-</b> Write and evaluate reports for situations related to the field Plastic surgery and burns.	2-3-1-O- Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.( Write and evaluate a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and evaluating comprehensive timely and legible medical records).
2-4- General skills	2/3/2 General skills
2-4-A- Master practice-based learning and improvement skills that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, improvements in patient care and risk management	<ul> <li>2-3-2-A- Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of Plastic surgery and burns.</li> <li>2-3-2-B- Appraise scientific evidence.</li> <li>2-3-2-C- Continuously improve patient care based on constant self-evaluation and <u>life-long learning.</u></li> <li>2-3-2-D. Participate in clinical audit and research projects.</li> <li>2-3-2-E- Practice skills of evidence-based Medicine (EBM).</li> <li>2-3-2-G- Design logbooks.</li> <li>2-3-2-H- Design clinical guidelines and standard protocols of management.</li> <li>2-3-2-I- Appraise evidence from scientific studies related to the patients' health problems.</li> </ul>

2-4-B- Use competently all information sources and technology to improve his practice.	<ul> <li>2-3-2-J- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.</li> <li>2-3-2-K- Use information technology to manage information, access on- line medical information; for the important topics.</li> </ul>
2-4-C- Master skills of teaching and evaluating others.	2-3-2-F- Educate and evaluate students, residents and other health professionals.
2-4-D- Master interpersonal and communication Skills that result in effective information exchange and teaming with patients, their families, and other health professionals.	<ul> <li>2-3-2-L- Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul> <li><u>Present</u> a case.</li> <li><u>Write</u> a consultation note.</li> <li><u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive.</li> <li>Timely and legible <u>medical records.</u></li> <li>Teamwork skills.</li> </ul> </li> <li>2-3-2-N- Create and sustain a therapeutic and ethically sound relationship with patients.</li> <li>2-3-2-N- Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.</li> <li>2-3-2-O- Work effectively with others as a member or leader of a health care team or other professional group.</li> </ul>
2-4-E- Master Professionalism behavior, as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	<ul> <li>2-3-2-P- Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.</li> <li>2-3-2-Q- Demonstrate a commitment to ethical principles including</li> </ul>

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	provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices. <b>2-3-2-R-</b> Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.
<ul> <li>2-4-F- Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively use system resources to provide care that is of optimal value.</li> <li>2-4-G- Participate in improvement of the education system.</li> </ul>	<ul> <li>2-3-2-S- Work effectively in health care delivery settings and systems related to Plastic surgery and burns. Including good administrative and time management.</li> <li>2-3-2-T- Practice cost-effective health care and resource allocation that does not compromise quality of care.</li> <li>2-3-2-U- Advocate for quality patient care and assist patients in dealing with system complexities.</li> <li>2-3-2-V- Design, monitor and evaluate specification of under and post graduate courses and programs.</li> </ul>
2-4-H- Demonstrate skills of leading scientific meetings including time management	<ul> <li>2-3-2-W- Act as a chair man for scientific meetings including time management</li> <li>2-3-2-S- Work effectively in health care delivery settings and systems related to Plastic surgery and burns including good administrative and time management.</li> </ul>
<b>2-4-O-</b> Demonstrate skills of self and continuous learning.	From A to H

### III-Program matrix Knowledge and understanding

Course		Program covered ILOs						
	2/1/A	2/1/B	2/1/C	2/1/D	2/1/			
					E			
Course 1 : Medical statistics		$\checkmark$						
course 2 : Research Methodology		$\checkmark$						
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research			~					
Course 4 Surgical Anatomy	$\checkmark$							
Course 5 Surgical Pathology	$\checkmark$							
Course 6 : Plastic surgery and burns (advanced)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~			

### Intellectual

Course			F	Program	n cover	ed ILOs			
	2/2/A	2/2/B	2/2/C	2/2/D	2/2/E	2/2/F	2/2/G	2/2/H	2/2/I
Course 1 : Medical statistics			~	~				~	
course 2 : Research Methodology			~	~				~	
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research								~	
Course 4 Surgical Anatomy	~	~							
Course 5 Surgical Pathology	~	~							
Course 6 : Plastic surgery and burns (advanced)	~	~		~	~	~	~	~	~

Practical Skills (I	Patient Care)
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Course		Program covered ILOs							
	2/3/1/A	2/3/1/B	2/3/1/C	2/3/1/ D	2/3/1/E	2/3/1/F	2/3/1/ G	2/3/1/ H	
Course 1 : Medical statistics									
course 2 : Research Methodology									
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research				~				~	
Course 4 Surgical Anatomy									
Course 5 Surgical Pathology									
Course 6 : Plastic surgery and burns (advanced)	~	✓	✓	•	✓				

#### **Patient care**

Course	Program covered ILOs							
	2/3/1/1	2/3/1/J	2/3/1/K	2/3/1/L	2/3/1/M	2/3/1/N	2/3/1/0	
Course 1 : Medical statistics								
course 2 : Research Methodology								
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research	~						~	
Course 4 Surgical Anatomy								
Course 5 Surgical Pathology								
Course 6 : Plastic surgery and burns (advanced)	<b>~</b>	✓	$\checkmark$	$\checkmark$	~	~	$\checkmark$	

#### **General Skills**

Course		Program covered ILOs						
	2/3/2/ A	2/3/2/B	2/3/2/C	2/3/2/ D	2/3/2/E	2/3/2/F	2/3/2/ G	2/3/2/ H
Course 1 : Medical statistics		$\checkmark$						
course 2 : Research Methodology		$\checkmark$		$\checkmark$	$\checkmark$			
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research								
Course 4 Surgical Anatomy								
Course 5 Surgical Pathology								
Course 6 : Plastic surgery and burns (advanced)	V	~	$\overline{}$	~		$\checkmark$		~

#### **General skills**

Course		Program covered ILOs						
	2/3/2/I	2/3/2/J	2/3/2/K	2/3/2/L	2/3/2/ M	2/3/2/ N	2/3/2/ O	2/3/2/P
Course 1 : Medical statistics	$\checkmark$	$\checkmark$	~					
course 2 : Research Methodology	~	~						
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research				~				
Course 4 Surgical Anatomy			~	~				
Course 5 Surgical Pathology			~	~				
Course 6 : Plastic surgery and burns (advanced)	✓	✓	~	✓	✓	✓	✓	$\checkmark$

#### **General Skills**

Course	Program covered ILOs								Program covered ILOs						
	2/3/2/Q	2/3/2/R	2/3/2/S	2/3/2/T	2/3/2/U	2/3/2/V	2/3/2/W								
Course 1 : Medical statistics															
course 2 : Research Methodology															
course 3 : Medicolegal Aspects & Ethics in Medical Practice and Scientific Research															
Course 4 Surgical Anatomy	V		V												
Course 5 Surgical Pathology	~		~												
Course 6 : Plastic surgery and burns (advanced)	~	~	~	~	~	~	~								

# Annex 7, Additional information:

### **Staff members of Plastic Surgery Department:**

Working Professors	Retired Professors	Assistant Professors	Lecturers
Prof. Youssef Saleh Hassan	Prof. Mostafa El- Sonbaty	Dr. Wael Saad El- deen	Dr Tarek Raief
Prof. Mohamed El-Shazly	Prof. Assem Hussein Kamel	Dr. Mohamed Elsheref	Dr Wagady Mohamed
Prof. Mohamed Makbool			Dr Ahmed Tohamy
Prof. Osama Yassin			Dr Awany Mohamed
Prof. Ahmed Kamal			Dr Mohamed Elyonsy
			Dr. Mahmoud Abdelaal Dr. Mahmoud Soliman

### **Opportunities within the department:**

- Recent addition of Endoscopic plastic surgery technique
- Recent addition of Bariatric Surgery Technique
- Recent addition of Microsurgery technique
- Recent addition of Facial cleft center

### Department quality control insurance for completing the program:

**4** Evaluation by the Department head and stuff members.

- 4 Regular assessments.
- 4 Log book monitoring.

**Recent equipments and Specialized Units** 

### (End of the program specifications)