



## COURSE SPECIFICATION OF PLASTIC SURGERY

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Programme offering the course.	Postgraduate Doctorate degree of plastic surgery/ PSUR600
(2) Department offering the programme.	Plastic and reconstructive surgery Department
(3) Department responsible for teaching the course.	Plastic and reconstructive surgery Department
(4) Part of the programme.	Second Part
(5) Date of last approval by the Department's council	11/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Plastic surgery
(8) Course code.	PSUR 633 PS
(9) Total teaching hours.	240 lectures or tutorials hours and 210 clinical hours /60 weeks

## **(B) Professional information**

### **(1) Course Aims.**

The broad aims of the course are as follows: This course provides fellows with the ability to:

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| 1- To provide fellows with the skills required to perform as well-trained, productive independent consultants and primary care providers for burned patients, patients in need for reconstruction of any part of the body or those in need for aesthetic surgery. These goals are optimally met in a three-year program. |
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### **(2) Intended Learning Outcomes (ILOs):**

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

#### **A- Knowledge and Understanding**

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| A 4- Understand the basic principles of reconstructive surgery.<br>A 5- Recognize pathology, complications and management of burn cases.<br>A 6- know the basic principles of aesthetic surgery.<br>A 7- know the basic principles of hand and maxillofacial surgery.<br>A 8- Understand the basic principles of microsurgery.<br>A 9 - Identify recent advances and areas under research in the field of plastic and reconstructive surgery.<br>A10- Identify basics of health and patient's safety and safety procedures during practice. |
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- A11**– Identify proper patient care and patient's rights to obtain the optimum health care and effective treatment.
- A12**– Identify basics of ethics, medicolegal aspects, malpractice and common medical errors in plastic and reconstructive surgery.
- A 13**– Recognize principles and basic concepts of quality in professional practice including planning, improvement of performance and control of practicing outcomes.

## **B– Intellectual skills**

- B4** –Integrate the basic principles of plastic and reconstructive surgery with clinical examination and patient needs to reach the proper diagnosis and to make an appropriate plan for management.
- B5** – Analyze expected complications and know how to deal with.
- B6**– Make decisions needed in different situations based on evidence-based medicine in plastic and reconstructive surgery.
- B7**– Resolve specialized problems with non-availability of some data.
- B8**– Consider effects of personal, social and cultural factors in the disease process and patient management.
- B9**– Apply ethical issues and resolve ethical dilemmas in relation to clinical practice.
- B10**– Demonstrate appropriate professional attitudes and behaviors in different practice situations.

## **C–Professional/practical skills**

- C 2**– In general terms, by the end of the course, surgeons have to demonstrate:
  - C 2a**– Theoretical and practical knowledge related to surgery in general and to their specialty practice.
  - C 2b**– Technical and operative skills.

**C 2c- Clinical skills and judgement**

**C 3-** Manage burn cases and deal with complications.

**C 4-** Apply the basic principles of plastic and reconstructive surgery.

**C 5-** Deal with hand and maxillofacial trauma.

**C 6-** Understand the new updates in aesthetic surgery and LASER therapy.

**C7-**Apply sound ethical principles in practice (e.g., informed consent, confidentiality, veracity, provision or withholding of care).

**D- Communication & Transferable skills**

**D 3-** Be prepared for the lifelong learning needs of the profession in plastic and reconstructive surgery.

**D 4-** Use different resources to gain knowledge and information related to plastic and reconstructive surgery.

**D 5-** Retrieve, manage, and manipulate information by all means.

**D 6-** Use different resources to gain knowledge and information related to plastic and reconstructive surgery.

**D 7-** Present clearly, and effectively a scientific topic in front of audience using computer and power point skills.

**D 8-** Communicate ideas and arguments effectively.

**D 9-** Demonstrate caring/respectful behaviors with patients and staff.

**D 10-** Work effectively within a team and leadership teams in health care team or other various professional contexts.

**D11-**Communicate effectively in its different forms with other specialties and generate the ethos of a multidisciplinary approach in the clinical setting.

**D 12-** Manage and lead scientific meetings

**D 13-** Analyze and use numerical data including the use of simple statistical methods.

**D14-** Organize workload in order to meet deadlines.

### (3) Course content.

<b>Third Semester (6credit hours) (15 weeks)</b>					
<b>Subjects</b>	<b>Lectures (4 credit hrs/ 15 wks)</b>	<b>Clinical (2 credit hr/ 15 wks)</b>	<b>Lab</b>	<b>Field</b>	<b>Total Teaching Hours</b>
▪ Wound healing	4hrs/wk for 1 week				4 hrs (4 hrs lectures)
▪ Necrotizing fasciitis	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Pressure sores	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Hypertrophic and keloid scars	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Burn wound dressing	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Acute burn	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Complications of burn	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Surgical management of burned patient	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Burn reconstruction and rehabilitation	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Electric injury	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Skin graft.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Other tissue grafts.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Local flaps and Z-plasty.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Pedicled and free flaps.	4hrs/wk for 1 week	8hrs/wk for 1 week			12 hrs (4 hrs lectures and 8 hrs clinical)
▪ Tissue expansion.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)

### Fourth Semester (6credit hours) (15 weeks)

Subjects	Lectures (4 credit hrs/ 15 wks)	Clinical (2 credit hr/ 15 wks)	Lab	Field	Total Teaching Hours
▪ Maxillofacial trauma.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Jaw swellings. ▪ Mandibular reconstruction.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Facial nerve palsy management.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Reconstruction of the ear-nose- eyelids.	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Reconstruction of the lip-cheek- scalp.	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Cleft lip and palate.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Craniofacial clefts.	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Craniosynostosis.	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Genioplasty.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Velopharyngeal incompetence.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Nerve compression syndromes.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Facial resurfacing.	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Blepharoplasty. ▪ Tissue fillers.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Rhinoplasty.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Abdominoplasty. ▪ Liposuction.	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)

**Fifth Semester (6credit hours) (15 weeks)**

<b>Subjects</b>	<b>Lectures (4 credit hrs/ 15 wks)</b>	<b>Clinical (2 credit hr/ 15 wks)</b>	<b>Lab</b>	<b>Field</b>	<b>Total Teaching Hours</b>
▪ Augmentation mammoplasty.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Reduction mammoplasty.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Breast reconstruction.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Male breast.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Oncoplastic surgery.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Premalignant and malignant skin lesions.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Pigmented skin lesions.	4hrs/wk for 1week	2hrs/wk for 1week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Lower limb trauma. ▪ Lower limb reconstruction.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Foot reconstruction.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Chronic wounds.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Hypospadias. ▪ Penile reconstruction	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Perineal reconstruction.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Flaps of the anterior trunk. ▪ Flaps of the back.	4hrs/wk for 1week	4hrs/wk for 1week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Cutaneous vascular anomalies.	4hrs/wk for 1week	6hrs/wk for 1week			10 hrs (4 hrs lectures and 6 hrs clinical)

					clinical)
▪ Hair transplant.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)

**Sixth Semester (5 credit hours) (15 weeks)**

<b>Subjects</b>	<b>Lectures (4 credit hrs/ 15 wks)</b>	<b>Clinical (1 credit hr/ 15 wks)</b>	<b>Laboratory</b>	<b>Field</b>	<b>Total Teaching Hours</b>
▪ Hand trauma.	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Hand fractures.	4hrs/wk for 1 week	6hrs/wk for 1 week			10 hrs (4 hrs lectures and 6 hrs clinical)
▪ Brachial plexus.	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Congenital hand deformities.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Acquired hand conditions.	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Soft tissue and bony reconstruction of the hand.	4hrs/wk for 1 week	4hrs/wk for 1 week			8 hrs (4 hrs lectures and 4 hrs clinical)
▪ Thumb reconstruction	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Fingertip injuries	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Tendon transfer	4hrs/wk for 1 week	2hrs/wk for 1 week			6 hrs (4 hrs lectures and 2 hrs clinical)
▪ Psychological aspects of plastic surgery	4hrs/wk for 1 week				
▪ Lymphoedema.	4hrs/wk for 1 week				
▪ LASER in plastic surgery.	4hrs/wk for 1 week				
▪ Soft tissue sarcoma.	4hrs/wk for 1 week				
▪ Alloplastic materials.	4hrs/wk for 1 week				
▪ Stem cells in plastic surgery.	4hrs/wk for 1 week				



**(4) Teaching methods:**

- 4.1:.....Lectures.....
- 4.2:.....Tutorials.....
- 4.3: .....problem-based learning scenarios (case presentations).....
- 4.4:.....Clinical training.....

**(5) Assessment methods:**

- 5.1: Written exam.... for assessment of... (A<sub>1,2,4,5,6,7,8,9,14,15,16,17</sub>, B<sub>1,2,4,11,13</sub>)
- 5.2: Written commentary.... for assessment of....(A<sub>2,4</sub>, B<sub>4,5,7,13</sub>)
- 5.3: Structured Oral exam..... for assessment of.....(A<sub>1,2,4,9</sub>, B<sub>5,7,10</sub>, D<sub>3</sub>)
- 5.4: Clinical exam (OSCE).... for assessment of...(A<sub>1,2,4</sub>, B<sub>3</sub>, D<sub>5,6,7,9</sub>)
- 5.5: MCQ exam ..... for assessment of...(A<sub>1,2,4,5,6</sub>, B<sub>2,3,4</sub>, C<sub>1,3,4,5</sub>)
- 5.6: Dissertation that clearly sets out the need for their research, justifies the research methods, presents results, and discusses the findings ..... for assessment of.....(A<sub>4,5,6,9,10,11</sub>, B<sub>5,6,7,8,9,10,11</sub>, C<sub>3,4,5,7</sub>)
- 5.7: Log book.... for assessment of .....(A<sub>3,6,9,18,19</sub>, B<sub>3,4,5,6,7,10</sub>, C<sub>2b,2c,7</sub>)

**Assessment schedule:**

- Assessment 1....at the end of.....36<sup>th</sup> month.....
- Assessment 2.... at the end of .....36<sup>th</sup> month .....
- Assessment 3: ...at the end of.....36<sup>th</sup> month.....
- Assessment 4: ...at the end of.....36<sup>th</sup> month.....
- Assessment 5: ...after 24 month from the day of thesis registration according to the faculty bylaws.
- Assessment 6: .....throughout the course duration.....

**Percentage of each Assessment to the total mark :**

Written exam.....240 (180 marks written and 60 marks MCQ)

Written commentary.... 60.....  
 Clinical exam (OSCE):.....100.....  
 Structured Oral exam:.....100.....  
 Other assessment without marks: .....dissertation, log book

- Written exam is directed to measure knowledge and intellectual skills
- MCQ exam is directed to measure knowledge and intellectual skills
- Structured oral exam is directed to measure knowledge, intellectual and communication skills
- OSCE exam is directed to measure knowledge, intellectual, practical and communication skills

## **(6) References of the course.**

### **6.1: Hand books**

- Oxford handbook of plastic and reconstruction surgery.....
- Oxford handbook of hand surgery .....
- plastic surgery secrets .....

### **6.2: Text books:**

- Michigen manual of plastic surgery.....
- Grabb and Smith's plastic surgery .....
- Green's operative hand surgery .....
- Guyuron's plastic surgery: indications, operations and outcomes .....
- Paediatric plastic surgery .....
- Georgiade plastic, maxillofacial and reconstructive surgery .....
- Grabb's encyclopedia of flaps .....
- Total burn care .....

### **6.3: Journals:**

- Plastic and Reconstructive Surgery (PRS) ...

- Annals of plastic surgery .....
- British journal of plastic surgery.....
- Burns .....
- ESPRS (Egyptian Society of Plastic and Reconstructive Surgery) .....
- Journal of reconstructive microsurgery.....
- Microsurgery .....
- Journal of hand surgery (JHS).....

**6.4: Others** .....Attending meetings & Conferences.....

**(7) Facilities and resources mandatory for course completion.**

- 1- Teaching tools:** -Computers and laptop for lectures presentation
  - Data show projector and screen
  - Laser pointer and white board
  - Comfortable well prepared classroom with comfortable desks, good source of aeration and good illumination.
- 2- Outpatient clinic** for collection of clinical cases

**Course coordinator:** Dr. Mohammed Hassan Elfahar

**Head of the department:** Prof. Mohammed Radwan Elhadidy

**Date:**