



**University** : Al-Azhar University

**Faculty** : Faculty of Medicine (Boys)

**Department** : Plastic surgery & Burn Department

**Course specification of Plastic surgery & Burn.  
(MD degree)**

**Year: 2015 / 2016**

<b>1. Course Data</b>		
<b>Course Code: 07-700-psmd1</b>	<b>Course Title:</b> Course Specification of Plastic surgery & Burn.	<b>Academic Year / level:</b> MD degree
<b>Specialization:</b> Plastic surgery & Burn.	<b>No. of teaching Units: 1</b>	Lecture: 600 h Practical: 2500 h

<b>2. Course Aim</b>	At the end of this course, the students will have fluent knowledge of the basis, educational and practical experience of Plastic surgery & Burn. that will enable them to deliver superior specialized care to patients with diseases related to this special .
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### 3. Intended learning outcomes (ILOs):

#### A-Knowledge and understanding:

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>1. Explain update and evidence based etiology, clinical picture, diagnosis and management of the following common diseases and clinical conditions: Core of Knowledge/ General Plastic Surgical <b>Principles and Techniques:</b> Wound Repair: Principles and Applications Flaps and Grafts Microsurgery Implants/Biomaterials Special Techniques Plastic Surgical Aspects of Specific Related <b>Disciplines:</b> 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</p>	<p>-Didactic, -Journal club, -Educational prescription, -present a case, -conferences</p>	<p>-Record review, -Global rating, -Simulations, -Portfolios, Standardized oral exam, written exam, -Procedure/ Cases.</p>



2. 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

Electrolyte imbalance

Major organ failure

Pathophysiology of burns Respiratory failure

Acid-base balance

3. Mention briefly state of art of the following rare diseases and conditions

4. Explain the facts and principles of the relevant basic supportive sciences related to Plastic



B-Intellectual outcomes :

ILOs	Methods of teaching/ learning	Methods of Evaluation
1. Design / present case in common problem related to Plastic Surgery and Burns	-Clinical rounds -Senior staff experience	-Portfolios -Procedure/case presentation -Log book
2. Apply the basic and clinically supportive sciences which are appropriate to Plastic Surgery and Burns related conditions.		
3. Demonstrate an investigatory and analytic thinking “problem – solving “approaches to clinical situation related to Plastic Surgery and Burns.		
4. Plan research projects.		



5. Write scientific papers.		
6. Lead risk management activities as a part of clinical governs. - Bleeding - Shock - Respiratory failure - Cardiac arrest		
7. Plain quality improvement activities in the field of medical education and clinical practice in Plastic Surgery and Burns.		
8. Create and innovate plans, systems, and other issues for improvement of performance in Plastic Surgery and Burns.		
9. Present and defend his / her data in front of a panel of experts		
10. Formulate management plans and alternative decisions in different situations in the field of the Plastic Surgery and Burns.		

### C-Practical skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
1. Take history, examine and clinically diagnose different conditions related to Plastic Surgery and Burns.	-Didactic, -Journal club, -Educational prescription, -Present a case, Observation & Supervision,	-Record review, -Checklist, -Global rating -Simulations, -Portfolios, -Standardized oral exam, written exam, procedure/



<p>2. Order the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> <li>-Complete blood count</li> <li>-Kidney function</li> <li>-Serum electrolyte</li> <li>-Wound culture</li> <li>-Blood culture</li> <li>-Arterial Blood Gases</li> <li>-Radiological imaging</li> <li>-Excisional biopsy</li> <li>- Doppler US</li> </ul>	<p>-Clinical round with senior staff Lectures, Hand on workshops Perform under supervision of senior staff</p>	<p>Written and oral examination</p> <ul style="list-style-type: none"> <li>- Procedure</li> <li>-presentation</li> <li>- Log book</li> <li>- Chick list</li> </ul>
<p>3. Interpret the following non invasive/invasive diagnostic procedures</p> <ul style="list-style-type: none"> <li>-Complete blood count</li> <li>-Kidney function</li> <li>-Serum electrolyte</li> <li>-Wound culture</li> <li>-Blood culture</li> <li>-Arterial Blood Gases</li> <li>- Radiological imaging</li> <li>-- Doppler US</li> </ul>	<p>Clinical round with senior staff Lectures, Hand on workshops Perform under supervision of senior staff</p>	<p>Written and oral examination</p> <ul style="list-style-type: none"> <li>- Procedure</li> <li>-presentation</li> <li>- Log book</li> <li>- Chick list</li> </ul>
<p>4. Perform the following non invasive/invasive diagnostic procedures:</p> <ul style="list-style-type: none"> <li>-Excisional biopsy</li> <li>-Doppler US</li> </ul>	<p>Assisting senior staff in operations</p>	



5. Prescribe the following non invasive/invasive therapeutic procedures.	-Lectures, Courses -Assisting	-Written and oral examination
-Prescribe various medical drugs related to Plastic surgery and burns - Debridement	senior staff in operations	-Procedure presentation - Log book - Chick list
6. Perform the following non invasive/invasive therapeutic procedures - Debridement - Independently Operate various Plastic surgical therapeutic procedures- - Competent management of all postoperative complications either medically or surgically -Endoscopic assisted plastic surgery procedures. -Laparoscopic weight reduction surgery procedures.	Assisting senior staff in operations	Procedure presentation - Log book - Chick list
7. Develop and carry out patient management plans for the problems lists of Plastic Surgery and Burns as mentioned in A.1	Lectures Clinical rounds Seminars Clinical round with senior staff  Observation Post graduate teaching Case Presentations	-Case presentation -Clinical examination



<p>8. Counsel and educate patients and their family about Plastic Surgery and Burns :</p> <ul style="list-style-type: none"> <li>- Inform patient about sequelae of Aesthetic and Reconstructive surgeries</li> <li>- Inform patient about sequelae of Burns</li> </ul>	<ul style="list-style-type: none"> <li>-Clinical round with senior staff</li> <li>-Observation</li> <li>-Post graduate</li> </ul>	<ul style="list-style-type: none"> <li>-Clinical examination</li> <li>-Check list</li> <li>-log book &amp; portfolio</li> <li>Procedure/case presentation</li> </ul>
<ul style="list-style-type: none"> <li>- Inform family about congenital anomalies</li> <li>-Explain perioperative process, likely outcome and time to recovery to patients, and check understanding.</li> <li>- Interpretation of results of different investigations related to the conditions mentioned in A.1and discussion of different therapeutic</li> <li>-</li> </ul>	<p>teaching</p>	
<p>9. Use information technology to support patient care decisions and patient education for Plastic Surgery and Burns related conditions.</p>		
<p>10. Provide health care services aimed at preventing the following conditions:</p> <ul style="list-style-type: none"> <li>Wound infections</li> <li>Shock</li> <li>Electrolyte imbalance</li> <li>Septicaemia</li> <li>Respiratory Failure</li> <li>Multi-organ failure</li> <li>Burn complications</li> <li>Congenital anomalies sequel</li> </ul>	<ul style="list-style-type: none"> <li>-Lectures</li> <li>-Clinical rounds</li> <li>-Seminars</li> </ul>	<ul style="list-style-type: none"> <li>-Checklist</li> </ul>
<p>11. Work with health care professionals, including those from other disciplines, to provide patient-focused care.</p>	<p>Clinical round with senior staff</p>	





<p>12. 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)</p>		
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#### D-General Skills

ILOs	Methods of teaching/ learning	Methods of Evaluation
<p>1. Perform practice-based improvement activities using a systematic methodology in the common problems (plain and conduct audit cycles)</p>	<p>-Journal club, -Educational prescription, -present a case, Observation &amp; Supervision, -Conferences, written and oral assignment</p>	<p>-Global rating, - Simulations, -Portfolios</p>
<p>2. Locate, appraises, and assimilates evidence from scientific studies related to patients' health problems.</p>		
<p>3. Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness</p>		
<p>4. Use information technology to manage information, access on-line medical information; and support their own education</p>		



5. Lead the learning of students and other health care professionals.		
6. Create and sustain a therapeutic and ethically sound relationship with patients	Educational prescription, present a case, Observation & Supervision, conferences, -written and oral assignment	Record review, checklist, global rating, simulations, portfolios, standardized oral exam
7. Perform the following oral communications: -Obtain consent from patients:  - Inform patient about sequelae of Aesthetic and Reconstructive surgeries  - Inform patient about sequelae of Burns  -Explain perioperative process, likely outcome and time to recovery to patients, and check understanding.  Inform patient about sequelae of Burns  - Inform family about congenital anomalies  - Interpretation of results of different investigations related to th conditions and discussion of different therapeutic options		
8. Fill the following reports:		



-Admission report -Discharge report -Death report -Operative report -Follow up report		
9. Work effectively with others as a member or leader of a health care team e.g. in operation room.		

### Professional skills

ILOs	Methods of teaching/ Learning	Methods of Evaluation
10. 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)	1. Objective structured clinical examination 2. Patient survey
11. 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
12. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities		



#### 4.course Contents (topics/modules/rotation)

Topic	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:

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



<ul style="list-style-type: none"> <li>Assessment tools:</li> </ul>	<ul style="list-style-type: none"> <li>Attendance (75% attendance at least)</li> <li>Log book signed from course coordinator and head of the department.</li> <li>Self-assessment at weekly clinical seminars</li> <li>Mcq exam during the course</li> <li>Final written, oral and clinical exam.</li> </ul>
<ul style="list-style-type: none"> <li>Schedule:</li> </ul>	<p>Follow up assessment during the course</p> <p>Final exam at: April and November</p>

• Weighting of assessments:

Courses	Degrees			
	Written	Oral	Clinical	Total
Specialized Courses:				
Unit1 Plasctic surgery				
Paper1	115	-Oral and imaging 100	Long 150	
Paper2	115	-Oral and operative		
Commentary	55	100 -Oral stations 70	short case150	
UNIT2 Surgical Anatomy	Both115		-	
UNIT3 Surgical Pathology	Anatomy 60) Pathology 55)	Oral degree For anatomy And pathology 30		
Total	400	300	300	1000



## 6. List of references

1. Essential books  
Peter c ,Neligen,2013  
McCarthy Plastic Surgery, 1990  
Georgiade: Plastic, Maxillofacial and Reconstructive Surgery: By Williams & Wilkins, 1997  
Grabb & Smith's Plastic Surgery: By Lippincott Williams & Wilkins 6th Edition, 2007  
Total Burn Care: By Saunders, 2003
2. Recommended books  
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
3. 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>
4. others  
Weekly seminar



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