COURSE SPECIFICATION

(Ophthalmic surgery)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	MD degree of Ophthalmology programme
(2) Department offering the programme:	Ophthalmology department
(3) Department responsible for teaching the course:	OPhthalmology department
(4) Part of the programme:	MD degree of Ophthalmology programme 2nd part
(5) Date of approval by the Department`s council	31/7/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title:	Ophthalmic Surgery **OPHT 622 OS**
(8) Course code:	**OPHT 622 OS**
(9) Total teaching hours:	180 hours lectures 180 hours clinical

(B) Professional information

(1) Course Aims:

The broad aim of the course is to educate students about Ophthalmic Medicine also to provide the students with updated data and researches.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1	Recognize the diseases affecting the eye that needs surgical interference.
A2	Understand the variable surgical technique for each ocular disease.
A3	Recognize and train to use the basic ophthalmic surgical instruments machines microscope in wet labs.
A4	Recognize the possible surgical wards hazards and the preventive precautions and measures to avoid or deal with them.
A5	Recognize and apply the proper infection control measures in the surgical wards.
A6	Identify the possible or post operative surgical complications and the preventive precautions and measures to avoid or deal with them.

B- Intellectual skills

I1	Demonstrate competency in basic surgical skills
I2	Choose the proper surgical plan for every case.
I3	Acquire proper decision making for difficult situation.
I4	Acquire proper and confident dealing with intra or post operative complications.

C- Professional/practical skills

P1	Recognize and interpret the basic surgical principles .
P2	Select appropriate surgical needles ,sutures instruments machine for every situation.
P3	Familiarized with the basic surgical procedures in lid, cornea, lens, glaucoma, refractive surgeries, retina, orbit, tumours and emergencies.

D- Communication & Transferable skills

T1	Acquire the ability of assisting and teaching younger ophthalmologists.
T2	Acquire the ability of arranging sets for teaching wet labs
T3	Present a research assignment orally and deliver it in both written and electronic form.
T4	Understand the importance of continuing professional development.
T5	Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research.
T6	Work cooperatively and show respect for other opinions.

(3) Course content:

Subjects	Lecture	Clinica	Laboratory	Field	Total Teachir Hours
1. **Sterilization - Aneasthesia.**	**9**	١٣			**180lectures ١٨0clinical**
2. **Eyelids:** Excision & Reconstruction (grafts). Correction of ptosis, lagophthalmos, Entropion, Ectropion, lashdisorders. Lid margin: canthotomy, cantholysis, canthoplasty, tarsorrhaphy	**9**	١٢			
3. **Lacrimal gland:** Dacryo adenectomy.	**9**	١٢			
4. **Conjunctiva :** Excision & reconstruction (Conjunctival Flap , graft .) pteygium.	**9**	١٢			
5. **Cornea:** Keratectomy-Keratoplasty-keratoprosthesis keratomileuses(Freeze-Non freeze-laser insito keratomik+++++) - Refractive surgery (Incision, Excision , Addition , Replacement).- Epikertophakia, keratotomy (Radial, Astig., Arcuate, Hexagonal., Keratophakia) Sclera : graft , repair .	**9**	١٢			
6. Lacrimal Drainage System : Dacryo cystectomy –Dacryo cysto rhinostomy – Intubation	5	١٠			
7. Lens extraction , intra ocular lens. implantation (Phakic (anterior chamber ,posterior chamber)- Aphakic (anterior chamber ,posterior chamber, Sulcus, scleral . Fixation)	**15**	١٠			

8. **Iris:** Iridectomy, Iridotomy. Iridoplasty, Excision.	5	١٠			
9. **Ciliary body :** cyclectomy , Cyclodialysis , cyclodestruction (Diathermy, Cryo., LASER)	**5**	١٠			
10. **Choroid :** choroidectomy .	**5**	١٠			
11. **Glaucoma :** .Ext. fixt.op- Implants& valves- Non penetrating op.	10	١٠			
12. **Retina:** Retinotomy, Retinoctomy, Retinopexy.	15	١٠			
13. **Vitreous:** Vitrectomy- Evisceration	**15**	١٠			
14. **Extra Ocular Muscles:** Recession, Resection, Transposition, Advancement	**15**	١٠			
15. **Orbit:** Orbitotomy- Reconstruction- Contracted socket- Enucleation	15	١٠			
16. **Trauma:** Contusion- Haemorrhage- Fracture- Foreign bodies- Chemical injuries.	15	١٠			
17. **LASER:** Cornea, Iris, Trabecular tissue, Ciliary. Body, Retina, Suture lysis- Sclerostomy- Capsulotomy- Phaco.	15	١٠			

Course content and ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2……etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

Course content						
	A1	**A2**	**A3**	**A4**	**A5**	**A6**

Sterilization - Aneasthesia.					√	
Eyelids: Excision & Reconstruction (grafts). Correction of ptosis, lagophthalmos, Entropion, Ectropion, lashdisorders. Lid margin: canthotomy, cantholysis, canthoplasty, tarsorrhaphy	√	√	√	√		√
Lacrimal gland: Dacryo adenectomy.	√	√	√	√		√
Lacrimal Drainage System : Dacryo cystectomy –Dacryo cysto rhinostomy – Intubation	√	√	√	√		√
Conjunctiva : Excision & reconstruction (Conjunctival Flap , graft .) pteygium.	√	√	√	√		√
Cornea: Keratectomy- Keratoplasty- keratoprosthesis keratomileuses(Freeze -Non freeze-laser insito keratomik+++++) - Refractive surgery (Incision, Excision , Addition , Replacement).- Epikertophakia, keratotomy (Radial, Astig., Arcuate, Hexagonal., Keratophakia) Sclera : graft , repair .			√	√		√
Lens extraction , intra ocular lens. implantation (Phakic (anterior chamber ,posterior chamber)- Aphakic (anterior chamber ,posterior chamber, Sulcus, scleral . Fixation)	√	√	√	√		√
Iris: Iridectomy, Iridotomy. Iridoplasty, Excision.	√	√	√	√		√
Ciliary body : cyclectomy ,	√	√	√	√		√

Cyclodialysis , cyclodestruction (Diathermy, Cryo., LASER)							
Choroid : choroidectomy .	√	√	√	√		√	
Glaucoma : .Ext. fixt.op- Implants& valves- Non penetrating op.	√	√	√	√		√	
Retina: Retinotomy, Retinoctomy, Retinopexy.	√	√	√	√		√	
Vitreous: Vitrectomy- Evisceration	√	√	√	√		√	
Extra Ocular Muscles: Recession, Resection, Transposition, Advancement	√	√	√	√		√	
Orbit: Orbitotomy- Reconstruction- Contracted socket- Enucleation	√	√	√	√		√	
Trauma: Contusion- Haemorrhage- Fracture- Foreign bodies- Chemical injuries.	√	√	√	√		√	
LASER: Cornea, Iris, Trabecular tissue, Ciliary. Body, Retina, Suture lysis- Sclerostomy- Capsulotomy- Phaco.	√	√	√	√		√	

Course content							
	I 1	I2	I3	I4	P1	P2	P3
Sterilization - Aneasthesia.	√						
Eyelids: Excision & Reconstruction (grafts). Correction of ptosis, lagophthalmos, Entropion, Ectropion, lashdisorders.	√	√	V	√	√	√	√

Lid margin: canthotomy, cantholysis, canthoplasty, tarsorrhaphy							
Lacrimal gland: Dacryo adenectomy.	√	√	√	√	√	√	√
Lacrimal Drainage System : Dacryo cystectomy –Dacryo cysto rhinostomy – Intubation	√	√	√	√	√	√	√
Conjunctiva : Excision & reconstruction (Conjunctival Flap , graft .) pteygium.	√	√	√	√	√	√	√
Cornea: Keratectomy- Keratoplasty- keratoprosthesis keratomileuses(Freeze -Non freeze-laser insito keratomik+++++) - Refractive surgery (Incision, Excision , Addition , Replacement).- Epikertophakia, keratotomy (Radial, Astig., Arcuate, Hexagonal., Keratophakia) Sclera : graft , repair .	√	√	√	√	√	√	√
Lens extraction , intra ocular lens. implantation (Phakic (anterior chamber ,posterior chamber)- Aphakic (anterior chamber ,posterior chamber, Sulcus, scleral . Fixation)	√	√	√	√	√	√	√
Iris: Iridectomy, Iridotomy. Iridoplasty, Excision.	√	√	√	√	√	√	√
Ciliary body : cyclectomy , Cyclodialysis , cyclodestruction (Diathermy, Cryo., LASER)	√	√	√	√	√	√	√
Choroid : choroidectomy .	√	√	√	√	√	√	√
Glaucoma : .Ext. fixt.op- Implants&	√	√	√	√	√	√	√

valves- Non penetrating op.							
Retina: Retinotomy, Retinoctomy, Retinopexy.	√	√	√	√	√	√	√
Vitreous: Vitrectomy- Evisceration	√	√	√	√	√	√	√
Extra Ocular Muscles: Recession, Resection, Transposition, Advancement	√	√	√	√	√	√	√
Orbit: Orbitotomy- Reconstruction- Contracted socket- Enucleation	√	√	√	√	√	√	√
Trauma: Contusion- Haemorrhage- Fracture- Foreign bodies- Chemical injuries.	√	√	√	√	√	√	√
LASER: Cornea, Iris, Trabecular tissue, Ciliary. Body, Retina, Suture lysis- Sclerostomy- Capsulotomy- Phaco.	√	√	√	√	√	√	√

(4) Teaching methods:

4.1: Lecture

4.2: Practical class

4.3: Small group discussion with case study and problem solving

4.4: Tutorial

4.5: Seminars

4.6: Workshops

(4) Assessment methods:

5.1:Written Examination for assessment of ILOs knowledge & intellectual skill.

5.2: Oral examination for assessment of ILOs knowledge & intellectual skill.

5.3: Practical examination for assessment of ILOs knowledge & intellectual skill.

5.4 MCQ continuous assessment for assessment of knowledge and intellectual ILOs

5.5: Log book for activities for assessment of : mainly for assessment of practical & transferrable skills which are accepted through attending different conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self learning.

5.6: seminars: the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff (without marks).

Course methods of assessment and ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2……etc), then the Course methods of assessment are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

Course methods of assessment						
	A1	**A2**	**A3**	**A4**	**A5**	**A6**
Written Examination for assessment of ILOs number.	√	√	√	√	√	√
Oral examination for assessment of ILOs number:.	√	√	√	√	√	√
Practical examination for assessment of ILOs number	√	√	√	√	√	√
MCQ continuous assessment for	√	√	√	√	√	√

assessment of knowledge and intellectual ILOs						
Log book for activities for assessment of : mainly for assessment of practical & transferrable skills which are accepted through attending different conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self learning.						
seminars: the candida should prepare and pr at least one seminar in atopic related to the co and determined by the supervisors in front of department staff (with marks).	√	√	√	√	√	√

Course methods of assessment	I 1	I2	I3	I4	P1	P2	P3
Written Examination for assessment of ILOs number.		√	√				
Oral examination for assessment of		√	V		√	√	√

ILOs number:							
Practical examination for assessment of ILOs number.	√	√	√	√	√	√	√
MCQ continuous assessment for assessment of knowledge and intellectual ILOs		√	√		√	√	√
Log book for activities for assessment of : mainly for assessment of practical & transferrable skills which are acceptedthrough attendingdifferent conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self learning.					√	√	√
seminars: the candida should prepare and pr at least one seminar in atopic related to the co and determined by the supervisors in front of department staff (with marks).	√	√	√	√	√	√	√

Assessment schedule:

Assessment 1: written, oral and practical exam after 36 month from MD registration

Assessment 2 : Log book required activities to go through 2nd part examination .

Assessment 3 : MCQ exam for continuous assessment of knowledge and intellectual skills.

***Assessment 4*:** the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff (without marks).

Percentage of each Assessment to the total mark:

Written exam: 120 Marks (including 20% MCQ)
Oral : 100 Marks
Practical : 100 Marks

Other assessment without marks: practical tests and exam, seminars and log book assessment are requirement of the 2nd part exam.

(5) References of the course:

6.1: Text books:

- Ophthalmic surgery. spaeth

6.2: Websites:

- rcoph.org.uk

6.3: **Recommended books**

- Ophthalmic surgery. spaeth

(6) Facilities and resources mandatory for course completion:

- Lecture rooms: available in the department

Course coordinator: **:** Prof.Dr Adel El layeh

Head of the department: Prof.Dr Adel El layeh