COURSE SPECIFICATION

(Ocular Pathology)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Master 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:	Second 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 pathology
(8) Course code:	OPHT 522 OP
(9) Credit hours	9
(10) Total teaching hours:	75 hours lectures+ ٦0 clinical

(B) Professional information

(1) Course Aims:

The broad aim of the course is to educate students about Ocular Pathology 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 and define the basic pathologic processes that disturb the structure and function of the eye including cell injury, tissue response to injury (inflammation, healing and repair), neoplasia, infections and parasitic diseases.
A2	Recognize and describe Congenital anomalies of the eye and its adnexa.
A3	List the causes of common diseases affecting the eye.
A4	Understand the pathogenesis of common diseases affecting the eye.
A5	Recognize and describe the basic pathologic features (morphologic alterations) including the gross and microscopic pictures of various common diseases affecting the eye.
A6	Understand the basis of Injuries of the eye.
A7	Know pathology of primary and secondary ocular tumors.

B- Intellectual skills

I1	Comment on ocular pathological changes of eye structure in different diseases.
I2	Look at and evaluate any eye or biopsy that they have performed or assisted with.
I3	Interpret any pathological changes.
I4	Correlate macroscopic and microscopic pathological changes.

C- Professional/practical skills

P1	Prepare a proper pathology request (clinical history, location of biopsy, special requests).
P2	Prepare a concise, pertinent and accurate pathology report.
P3	The candidate should have knowledge of the value and the limitations of a pathology specimen and its report (e.g. inadequate biopsy, more or different tissue needed, biopsy not indicated), when to ask for another
P4	Integrate the pathology diagnosis into the complete care of the individual patient.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
Systemic Pathology:					**75+ 60**
(A) Adnexae:	**10**	٨			
1. Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.					
2. Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign & malignant) , Xerosis.					
3. Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid, vascular, muscular, lacrimal gland.					
(B) Ocular:					
1. **Cornea:** Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.	5	8			
2. **Sclera:** Inflammatory.	**5**	8			
3. **Uvea:** Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.	5	8			
4. **Lens:** Congenital Cataract , Intra Ocular Lens implantation.	5	8			
5. **Glaucomas**	**10**	4			

6. **Vitreous:** Posterior vitreous detachment , opacities & Haemorrhage.	**5**	4			
7. Macula: Holes, Dystrophies & Age related macular degeneration .	**5**	4			
8. **Retina :** Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment	**15**	4			
9. **Optic nerve:** Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours	10	4			

(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.

5.2: Oral examination for assessment of ILOs knowledge & intellectual.
5.3: Practical examination for assessment of ILOs knowledge & intellectual.
5.4: MCQ for assessment of ILOs number I52- I 55

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 .

Assessment schedule:

Assessment 1: after 36 month from the start of the job

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

Assessment 3 : MCQ exam for continuous assessment of knowledge and intellectual skills at the end of each semester.

***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 200 mark and oral exam 100 mark and clinical with 100 marks
Written exam: 50%
Oral exam : 25%
Clinical : 25%

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 pathology , Yanoff

6.2: Websites:

- rcoph.org.uk

6.3: **Recommended books**

- Ophthalmic pathology , Yanoff

(6) Facilities and resources mandatory for course completion:

- Lecture rooms: available in the department

Subjects	A1	A2	A3	A4	A5	A6	A7
Systemic Pathology:							
(A) Adnexae:							
1.Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.	√	√	√	√	√		
2.Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign & malignant) , Xerosis.	√	√	√	√	√		
3.Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid,		√	√	√			

vascular, muscular, lacrimal gland.							
(B) Ocular:							
1.Cornea: Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.		√	√	√	√		√
2.Sclera: Inflammatory.		√	√				
3.Uvea: Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.		√	√	√	√		√
4.Lens: Congenital Cataract , Intra Ocular Lens implantation.		√	√				
5.Glaucomas		√	√	√			
6.Vitreous: Posterior vitreous detachment , opacities & Haemorrhage.		√		√			
7.Retina : Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment		√	√	√	√	√	√
8.Macula: Holes, Dystrophies & Age related macular degeneration .		√	√			√	
9.Optic nerve: Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours		√	√		√	√	√

Subjects	I1	I2	I3	I4
Systemic Pathology:				
(A) Adnexae:				
1.Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.			√	√
2.Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign &			√	√

malignant) , Xerosis.				
3.Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid, vascular, muscular, lacrimal gland.			√	√
(B) Ocular:				
1.Cornea: Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.	√		√	√
2.Sclera: Inflammatory.			√	√
3.Uvea: Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.			√	√
4.Lens: Congenital Cataract , Intra Ocular Lens implantation.			√	√
5.Glaucomas			√	√
6.Vitreous: Posterior vitreous detachment , opacities & Haemorrhage.			√	√
7.Retina : Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment	√		√	√
8.Macula: Holes, Dystrophies & Age related macular degeneration .			√	√
9.Optic nerve: Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours	√	√	√	√

Subjects	P1	P2	P3	P4	P5
Systemic Pathology:					
(A) Adnexae:					
1.Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours,		√			√

Premalignant, malignant.					
2.Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign & malignant) , Xerosis.			√		√
3.Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid, vascular, muscular, lacrimal gland.		√		√	
(B) Ocular:					
1.Cornea: Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.		√	√		√
2.Sclera: Inflammatory.			√	√	√
3.Uvea: Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.				√	√
4.Lens: Congenital Cataract , Intra Ocular Lens implantation.		√	√		√
5.Glaucomas		√	√		
6.Vitreous: Posterior vitreous detachment , opacities & Haemorrhage.			√	√	
7.Retina : Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment		√		√	√
8.Macula: Holes, Dystrophies & Age related macular degeneration .		√		√	√
9.Optic nerve: Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours		√	√	√	√

Method of assessment	A1	A2	A3	A4	A5	A6	A7
Written Examination	√	√	√	√	√	√	√
Oral Examination	√	√	√	√	√	√	√
Practical Examination							
MCQ	√		√	√		√	√

Log book for activities							
seminars:	√	√		√	√		

Method of assessment	I1	I2	I3	I4
Written Examination	√		√	√
Oral Examination	√		√	√
Practical Examination		√		
MCQ	√		√	√
Log book for activities				
seminars:	√			√

Method of assessment	P1	P2	P3	P4
Written Examination				
Oral Examination				
Practical Examination	√	√	√	√
MCQ		√	√	
Log book for activities				
seminars:		√	√	

Course coordinator: : Prof. Dr Adel El layeh

Head of the department: Prof. Dr Adel El layeh