COURSE SPECIFICATION

(Ophthalmic Pathology)

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 1st 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 OPHT 622 PA**
(8) Course code:	**622 PA**
(9) Credit hours	**3/4**
(10) Total teaching hours:	11.25 hours

(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	List the causes of common diseases affecting the eye.
A3	Explain the pathogenesis of common diseases affecting the eye.
A4	Recognize and describe the basic pathologic features (morphologic alterations) including the gross and microscopic pictures of various common diseases affecting the eye.
A5	Describe how the pathological processes affect the structure and function of the eye.
A6	Identify the functional consequences and clinical manifestations of common diseases affecting the eye.
A7	Explain the signs and symptoms of disease based on its pathogenesis, thereby demonstrating clinical reasoning.
A8	Interpret and identify the complications of common diseases.
A9	Recognize and be fully familiar with the terminology used in the classification, investigation and description of disease, enabling effective communication with professional colleagues and patients

B- Intellectual skills

I1	Correlate the pathologic features of the disease with its clinical presentation, laboratory investigations and complications.
I2	Develop skills of observation, interpretation and integration needed to analyze and diagnose ocular diseases.
I3	Comment on ocular pathological changes of eye structure in different diseases.
I4	Look at and evaluate any eye or biopsy that they have performed or assisted with.
I5	Interpret any pathological changes.

I6	Correlate macroscopic and microscopic pathological changes.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
General pathology	**1.25**				**11.25**
Systemic Pathology:					
(A) Adnexae:					
1. Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.	**2**				
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.	**1**				
2. **Sclera:** Inflammatory.	**1**				
3. **Uvea:** Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma	**1**				

& Leucocoria.					
4. **Lens:** Congenital Cataract , Intra Ocular Lens implantation.	**1**				
5. **Glaucomas**	**1**				
6. **Vitreous:** Posterior vitreous detachment , opacities & Haemorrhage.	**0.5**				
7. **Retina :** Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment	**1**				
8. **Macula:** Holes, Dystrophies & Age related macular degeneration .	**0.5**				
9. **Optic nerve:** Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours	**1**				

(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 MCQ exam for assessment of ILOs knowledge & intellectual skill.

5.3: Log book for activities for assessment of : mainly for assessment practical & transferrable skills
attendance of different conferences, thesis discussions, seminars, workshops
Attendance of scientific lectures.

5.4: 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 6 month from MD registration (100 marks)

Assessment 2 : Log book required activities to go through 1st 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: 75 Marks including 20%MCQ

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

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.

Subjects	A1	A2	A3	A4	A5	A6	A7	A8	A9
Systemic Pathology:									
(A) Adnexae:	√								
Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.	√								
Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign & malignant) , Xerosis.	√								
Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid, vascular, muscular, lacrimal gland.	√								
(B) Ocular:									
Cornea: Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.		√	√	√	√	√	√	√	√
Sclera: Inflammatory.		√	√	√	√	√	√	√	√
Uvea: Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.		√	√	√	√	√	√	√	√
Lens: Congenital Cataract , Intra Ocular Lens implantation.		√	√	√	√	√	√	√	√
Glaucomas		√	√	√	√	√	√	√	√
Vitreous: Posterior vitreous detachment , opacities & Haemorrhage.		√	√	√	√	√	√	√	√

Retina : Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment		√	√	√	√	√	√	√	√
Macula: Holes, Dystrophies & Age related macular degeneration .		√	√	√	√	√	√	√	√
Optic nerve: Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours		√	√	√	√	√	√	√	√

Subjects	I1	I2	I3	I4	I5	I6
Systemic Pathology:						
(A) Adnexae:						
Eye lids: skin, glands, congenital, developmental, Aging, Inflammatory , Cysts, Vascular lesions, Benign tumours, Premalignant, malignant.	√	√	√	√	√	√
Conjunctiva: Congenital , Vascular,Inflammatory (Acute, chronic) , allergic, Degenerations, cysts, tumours (Benign & malignant) , Xerosis.	√	√	√	√	√	√
Orbit, lacrimal : Thyroid ophthalmopathy , Pseudotumour , Granuloma Tumours: lymphoid, vascular, muscular, lacrimal gland.	√	√	√	√	√	√
(B) Ocular:	√	√	√	√	√	√
Cornea: Congenital, Inflammatory, Ulcers, Pannus, keratoconus, Dystrophies.	√	√	√	√	√	√
Sclera: Inflammatory.	√	√	√	√	√	√
Uvea: Choroid,Ciliary body, Iris(Malignant,benign), Metastases Retinoblastoma & Leucocoria.	√	√	√	√	√	√
Lens: Congenital Cataract , Intra Ocular Lens implantation.	√	√	√	√	√	√
Glaucomas	√	√	√	√	√	√
Vitreous: Posterior vitreous detachment , opacities & Haemorrhage.	√	√	√	√	√	√
Retina : Haemorrhage, exudates, Retinal artery occlusion , Retinal vein occlusion, Retinopathies, Retinal pigment, degeneration , Retinal detachment	√	√	√	√	√	√

Macula: Holes, Dystrophies & Age related macular degeneration .	√	√	√	√	√	√
Optic nerve: Congenital Anomalies , Papilloedema , Optic neuritis , Optic atrophy &Tumours	√	√	√	√	√	√

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.

Subjects	A1	A2	A3	A4	A5	A6	A7	A8	A9
5.1:Written Examination	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.2 MCQ exam for	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.3: Log book for activities for assessment of : mainly for assessment practical & transferrable skills **attendance of different conferences, thesis discussions, seminars, workshops Attendance of scientific lectures.**									
5.4: 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 .		✓	✓	✓	✓	✓	✓	✓	✓

Subjects	I1	I2	I3	I4	I5	I6
5.1:Written Examination	✓	✓	✓	✓	✓	✓
5.2 MCQ exam for	✓	✓	✓	✓	✓	✓

5.3: Log book for activities for assessment of : mainly for assessment practical & transferrable skills **attendance of different conferences, thesis discussions, seminars, workshops** **Attendance of scientific lectures.**						
5.4: 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 .	✓	✓	✓	✓	✓	✓

Course coordinator: : Prof. Dr Adel El layeh

Head of the department: Prof.Dr Adel El layeh