COURSE SPECIFICATION

(Ophthalmic Medicine)

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	8–9–2016
(7) Course title:	Ophthalmic Medicine **OPHT 622 OM**
(8) Course code:	**OPHT 622 OM**
(9) Total teaching hours:	180 hours lectures ١٨0 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 clinical diagnosis of diseases affecting the eye and the adnexa
A2	Investigate tools necessary for the diagnosis of ophthalmic diseases
A3	Identify clinical skills necessary for diagnosis of eye diseases
A4	Recognize medical emergencies and critical care in ophthalmology
A5	List neurologic and ophthalmology related disorders
A6	List ocular manifestation of systemic diseases

B- Intellectual skills

I1	Specify medical dilemmas and complexities and how to solve them.
I2	Make conclusions and be able to conduct scientific discussion.
I3	Select from different choices based on multiple determining factors as social, scientific, economic etc...
I4	Prioritize and tailor the different guidelines to individual situations.

C- Professional/practical skills

P1	Take a focused medical history with proper analysis and conclusions.
P2	Examine properly and systematically the eye and the adenexa with an exact follow of the standard rules and interpret signs individually.
P3	Integrate data from the history and the examination done.
P4	Ask for the proper investigations to be done for a given medical problem.
P5	Put a diagnosis and differential diagnosis of different cases.
P6	Write a treatment prescription for a given medical problem within a multidisciplinary management plan if needed.
P7	Identify patients needing hospitalization, and those needing surgical intervention.
P8	Identifying patients in need for higher specialization.
P9	Diploma the different emergency and routine procedures necessary in the general ophthalmic specialty.
P10	Interpret general ophthalmic investigative forms and use their findings in diagnosis and therapy.

D- Communication & Transferable skills

T1	Understand the importance of continuing professional development.
T2	Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research.
T3	Acquire the ability of assisting and teaching younger ophthalmologists.
T4	Work cooperatively and show respect for other opinions. Gain communication skills with workers, nurses, juniors, professors, peers, patients and their care givers.
T5	Master computer skills in research, data base filing and preparation of presentation.
T6	Use computer efficiently in solving medical problems.
T7	Present a research assignment orally and deliver it in both written and electronic form.
T8	Acquire managerial skills.

(3) Course content:

Subjects	Lecture	Clinica	Field	Total Teaching Hours
1. **Diseases of Eyelids :** Blepharitis, allergy- lid retraction- Madarosis- Blepharospasm- Infections	9	١٢		**180 lectures ١٨0 hours clinical**
2. **Diseases of Conjuctiva :** Conjunctivitis (Bacterial, Viral, Chlamydial, allergic)- Mucocutaneous disorders- Dry eye.	**9**	١٢		

3. **Diseases of Cornea :** Keratitis (Bacterial, Viral, Mycotic)- Pigmentations, Precipitates- Peripheral corneal disorders- Degeneration- Dystrophies- Ectasia.	**9**	١٢		
4. **Diseases of Sclera :** Scleritis- Episcleritis.	**9**	١٢		
5. **Glaucomas:** Ocular hypertension- Primary Open angle glaucoma – Normo tensive glaucoma , Primary angle closure glaucoma – secondary Open angle glaucoma , secondary angle closure glaucoma , Infantile & Juvenile.	**9**	١٢		
6. Diseases of lacrimal appararus: Dacryoadenitis- Dacryocystitis- canaliculitis	10	١٤		
7. **Disease of Uvea:** Uveitis (Infective, Non-infective, Chrornic)	10	١٢		
8. **Diseases of Macula:** age related macular degeneration , centrall serous chorio retinopathy , Cystoid macular oedema, Maculopathies.	10	١٤		
9. **Diseases of Retina:** Dystrophies (Receptors, Retinal pigment epithelium & Choroidal) Degenerations Vascular: Retinopathies (Diabetic, Hypertensive, Renal, Toxaemia, Arteriosclerotic), retinal artery occlusion & retinal vein occlusion	15	٢٠		
10. **Diseases of optic nerve:** Neuropathy, Neuritis, Papilledema, congenital.	20	١٠		
11. **Neuro-ophthalmology :** Pupillaryanomalies,Nystagmus,ophthalmoplegias, Migraine, Brain stem syndromes, optic atrophy- chiasmal lesions.	25	٢٠		
12. **Medical ophthalmology:** Metabolic (Diabetes- Gout)- Hypovitaminosis- Endocrinal (Pituitary- Thyroid- Parathyroid- Thymus)- Blood diseases- Collagen diseases (systemic luysus erythematous – rheumatic arthritis - Gaint cell arthritis)- Chronic granulomatous diseases (Tuberculosis , syphilis, Leprosy & Sarcoidosis)- Phacomatoses- Musculer diseases.	45	٣٠		

(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).

Assessment schedule:

Assessment 1: written, oral, clinical 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
Clinical : 100Marks
Practical : 100 Marks
Case : 60 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:

- Ophthalmology, Yanoff

6.2: Websites:

- rcoph.org.uk

6.3: Recommended books

- Ophthalmology, Yanoff
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(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.

Course content	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
Diseases of Eyelids : Blepharitis, allergy- lid retraction- Madarosis- Blepharospasm- Infections	√	√	√	√	√		√	√	√	√
Diseases of lacrimal apparatus: Dacryoadenitis- Dacryocystitis- canaliculitis	√	√	√	√	√		√	√	√	√
Diseases of Conjuctiva : Conjunctivitis (Bacterial, Viral, Chlamydial, allergic)- Mucocutaneous disorders- Dry eye.	√	√	√	√	√		√	√	√	√
Diseases of Cornea : Keratitis (Bacterial, Viral, Mycotic)- Pigmentations, Precipitates- Peripheral corneal disorders- Degeneration- Dystrophies- Ectasia.	√	√	√	√			√	√	√	√
Diseases of Sclera : Scleritis- Episcleritis.	√	√	√	√			√	√	√	√
Glaucomas: Ocular hypertension- Primary Open angle glaucoma – Normo tensive glaucoma , Primary angle closure glaucoma –	√	√	√	√			√	√	√	√

secondary Open angle glaucoma , secondary angle closure glaucoma , Infantile & Juvenile.										
Disease of Uvea: Uveitis (Infective, Non-infective, Chrornic)	√	√	√	√			√	√	√	√
Diseases of Macula: age related macular degeneration , centrall serous chorio retinopathy , Cystoid macular oedema, Maculopathies .	√	√	√	√			√	√	√	√
Diseases of Retina: Dystrophies (Receptors, Retinal pigment epithelium & Choroidal) Degenerations Vascular: Retinopathies (Diabetic, Hypertensive, Renal, Toxaemia, Arteriosclerotic), retinal artery occlusion & retinal vein occlusion	√	√	√	√			√	√	√	√
Diseases of optic nerve: Neuropathy, Neuritis, Papilledema, congenital.	√	√	√	√			√	√	√	√
Neuro-ophthalmology : Pupillaryanomalies,Nystagmus,ophthalmoplegias, Migraine, Brain stem syndromes, optic atrophy-chiasmal lesions.	√	√	√	√	√		√	√	√	√
Medical ophthalmology: Metabolic (Diabetes-	√					√	√	√	√	√

Gout)- Hypovitaminosis- Endocrinal (Pituitary- Thyroid- Parathyroid- Thymus)- Blood diseases- Collagen diseases (systemic luysus erythematous – rheumatic arthritis - Gaint cell arthritis)- Chronic granulomatous diseases (Tuberculosis , syphilis, Leprosy & Sarcoidosis)- Phacomatoses- Musculer diseases.										

Course content	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Diseases of Eyelids : Blepharitis, allergy- lid retraction- Madarosis- Blepharospasm- Infections	√	√	√	√	√	√	√	√	√	√
Diseases of lacrimal appararus: Dacryoadenitis- Dacryocystitis - canaliculitis	√	√	√	√	√	√	√	√	√	√
Diseases of Conjuctiva : Conjunctivitis (Bacterial, Viral, Chlamydial, allergic)- Mucocutaneous disorders- Dry eye.	√	√	√	√	√	√	√	√	√	√
Diseases of Cornea : Keratitis (Bacterial, Viral, Mycotic)-	√	√	√	√	√	√	√	√	√	√

Pigmentations , Precipitates- Peripheral corneal disorders- Degeneration- Dystrophies- Ectasia.										
Diseases of Sclera : Scleritis- Episcleritis.	√	√	√	√	√	√	√	√	√	√
Glaucomas: Ocular hypertension- Primary Open angle glaucoma – Normo tensive glaucoma , Primary angle closure glaucoma – secondary Open angle glaucoma , secondary angle closure glaucoma , Infantile & Juvenile.	√	√	√	√	√	√	√	√	√	√
Disease of Uvea: Uveitis (Infective, Non-infective, Chrornic)	√	√	√	√	√	√	√	√	√	√
Diseases of Macula: age related macular degeneration , centrall serous chorio retinopathy , Cystoid macular oedema, Maculopathies .	√	√	√	√	√	√	√	√	√	√
Diseases of Retina: Dystrophies (Receptors, Retinal pigment epithelium & Choroidal) Degenerations Vascular:	√	√	√	√	√	√	√	√	√	√

Retinopathies (Diabetic, Hypertensive, Renal, Toxaemia, Arteriosclerotic), retinal artery occlusion & retinal vein occlusion										
Diseases of optic nerve: Neuropathy, Neuritis, Papilledema, congenital.	√	√	√	√	√	√	√	√	√	√
Neuro-ophthalmology : Pupillaryanomalies,Nystagmus,ophthalmoplegias, Migraine, Brain stem syndromes, optic atrophy-chiasmal lesions.	√	√	√	√	√	√	√	√	√	√
Medical ophthalmology: Metabolic (Diabetes-Gout)- Hypovitaminosis- Endocrinal (Pituitary-Thyroid- Parathyroid-Thymus)- Blood diseases- Collagen diseases (systemic luysus erythematous – rheumatic arthritis - Gaint cell arthritis)- Chronic granulomatous diseases (Tuberculosis , syphilis, Leprosy & Sarcoidosis)- Phacomatoses- Musculer diseases.	√	√	√	√	√	√	√	√	√	√

Course content	T 1	T2	T3	T4	T5	T6	T7
Diseases of Eyelids : Blepharitis, allergy- lid retraction- Madarosis- Blepharospasm- Infections	√	√	√	√	√	√	√
Diseases of lacrimal appararus: Dacryoadeniti	√	√	√	√	√	√	√

s- Dacryocystitis - canaliculitis							
Diseases of Conjuctiva : Conjunctivitis (Bacterial, Viral, Chlamydial, allergic)- Mucocutaneous disorders- Dry eye.	√	√	√	√	√	√	√
Diseases of Cornea : Keratitis (Bacterial, Viral, Mycotic)- Pigmentations , Precipitates- Peripheral corneal disorders- Degeneration- Dystrophies- Ectasia.	√	√	√	√	√	√	√
Diseases of Sclera : Scleritis- Episcleritis.	√	√	√	√	√	√	√
Glaucomas: Ocular hypertension- Primary Open angle glaucoma – Normo tensive glaucoma , Primary angle closure glaucoma – secondary Open angle glaucoma , secondary angle closure glaucoma , Infantile & Juvenile.	√	√	√	√	√	√	√
Disease of Uvea: Uveitis (Infective, Non-infective, Chrornic)	√	√	√	√	√	√	√
Diseases of Macula: age related	√	√	√	√	√	√	√

macular degeneration , centrall serous chorio retinopathy , Cystoid macular oedema, Maculopathies .							
Diseases of Retina: Dystrophies (Receptors, Retinal pigment epithelium & Choroidal) Degenerations Vascular: Retinopathies (Diabetic, Hypertensive, Renal, Toxaemia, Arteriosclerotic), retinal artery occlusion & retinal vein occlusion	√	√	√	√	√	√	√
Diseases of optic nerve: Neuropathy, Neuritis, Papilledema, congenital.	√	√	√	√	√	√	√
Neuro-ophthalmology : Pupillaryanomalies,Nystagmus,ophthalmoplegias, Migraine, Brain stem syndromes, optic atrophy-chiasmal lesions.	√	√	√	√	√	√	√
Medical ophthalmology: Metabolic (Diabetes-Gout)- Hypovitaminosis- Endocrinal (Pituitary-Thyroid- Parathyroid-Thymus)- Blood diseases- Collagen diseases (systemic luysus erythematous – rheumatic arthritis - Gaint cell arthritis)- Chronic granulomatous diseases (Tuberculosis , syphilis, Leprosy & Sarcoidosis)- Phacomatoses-	√	√	√	√	√	√	√

Musculer diseases.							

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	A7	A8	A9	A10
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	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10

content										
5.1:Written Examination for assessment of ILOs number A1,A2.	√	√	√	√	√	√	√	√	√	√
5.2 MCQ exam for assessment of ILOs number: A1,A2, ,T1,T2,T3,T4,T5,T6, I3,I5.	√	√	√	√	√	√	√	√	√	√
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 content							
	T1	**T2**	**T3**	**T4**	**T5**	**T6**	**T7**
5.1:Written Examination for assessment of ILOs number A1,A2.							
5.2 MCQ exam for assessment of ILOs number: A1,A2, ,T1,T2,T3,T4,T5,T6, I3,I5.							
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