



## PROGRAMME SPECIFICATION

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Programme Title & Code	Ophthalmology MD OPHT600
(2) Final award/degree	MD degree
(3) Department (s)	Ophthalmology
(4) Course Coordinator	Prof.Dr Rasheed El-Lakkany Prof of Ophthalmology. Mans. Un.
(5) External evaluator (s)	Prof Dr Mervat Salah Prof of Ophthalmology, Ain Shams Un.
(6) Date of approval by the Department's council	31/7/2016
(7) Date of last approval of programme specification by Faculty council	9-8-2016

## (B) Professional information

### (1) Programme Aims:

The broad aims of the Programme are as follows: (either to be written in items or as a paragraph)

**1- The programme will provide trainee ophthalmologists with an in **depth knowledge** of the theory behind the practice of ophthalmology.**

**2- The programme will assess candidates **understanding** using the problem based learning questions in each module.**

**3- The programme will enable the candidate **practical skills** which required to achieve in their base hospital.**

### (2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

**A- Knowledge and Understanding**

<b>A1</b>	Describe the anatomy of the Eye
<b>A2</b>	Recognize updated data and researches concerning the eye, adnexae and nervous system specially in the field of microscopic and functional anatomy.
<b>A3</b>	Recognize Microbiology of the Eye
<b>A4</b>	Recognize updated data and researches concerning the microbiology of the eye, adnexae .
<b>A5</b>	Recognize topics of Ocular Pathology
<b>A6</b>	Recognize updated data and researches concerned Ocular Pathology .
<b>A7</b>	Recognize the topics of Ophthalmic Medicine.
<b>A8</b>	Recognize updated data and researches concerned Ophthalmic Medicine.
<b>A9</b>	Recognize different topics of Ophthalmic surgery
<b>A10</b>	Recognize updated data and researches concerned Ophthalmic surgery
<b>A11</b>	Define the Optics of the Eye
<b>A12</b>	Recognize updated data and researches including the application of physical, geometric and physiological optics to clinical management and an appreciation of the new principles of instrumentation and clinical practice in these areas.
<b>A13</b>	Show their recognition of Physiology of the Eye
<b>A14</b>	Recognize updated data and researches concerned the eye, adnexae and nervous system.

**- Intellectual activities (I)**

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

**B- Intellectual skills**

<b>B1</b>	Integrate microscopic and functional anatomy
<b>B2</b>	Integrate basic biomedical science with clinical care.
<b>B3</b>	Predict the natural history of different ocular pathological issues.
<b>B4</b>	Integrate clinical findings in an ophthalmic diagnosis .
<b>B5</b>	Formulate proper plan of treatment
<b>B6</b>	Integrate different procedures in management of ocular diseases.

<b>B7</b>	Formulate a systematic approach for proper refractive and optical corrective methods
<b>B8</b>	Understand the mechanism of vision, eye metabolism and their deviations

### C- Professional/practical skills

<b>C1</b>	Demonstrate their skills in <b>surgical anatomy and reconstructive surgeries</b>
<b>C2</b>	Demonstrate their skills in prediction of the nature , severity and prognosis of various ocular disorders.
<b>C3</b>	Demonstrate their skills in <b>diagnosis of different pathological lesions.</b>
<b>C4</b>	Demonstrate their <b>skills in histopathological diagnosis.</b>
<b>C5</b>	Demonstrate their skills in <b>diagnosis of various ocular disorders.</b>
<b>C6</b>	Show an ability to <b>implement different management plans for various ocular disorders</b>
<b>C7</b>	Demonstrate their skills in management of adenexal , corneal ,glaucoma, lens , vitreous , retinal , extra ocular and orbital surgeries
<b>C8</b>	Perform retinoscopy
<b>C9</b>	Interpret topography
<b>C10</b>	Demonstrate their skills in <b>detection of normal ocular phenomena</b>

### D- Communication & Transferable skills

<b>D1</b>	Demonstrate competence in data presentation. Statistical analysis and interpretation.
<b>D2</b>	Demonstrate key skills in the retrieval, preparation, analysis and interpretation of information from different sources.
<b>D3</b>	Make effective use of information technology e.g. web and internet. Database work
<b>D4</b>	Demonstrate self-direction and some originality in tackling and solving problems
<b>D5</b>	Work effectively both individually and in team and making appropriate use of the capacities of group members
<b>D6</b>	Communicate effectively, using the appropriate method with audiences of different levels of knowledge or experience.

### (3) Academic standards:

Academic standards for the programme are attached in **Appendix I** in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used. External reference points/Benchmarks are attached in **Appendix II**.

**External reference points/benchmarks are selected to confirm the appropriateness of the objectives, ILOs and structure of assessment of the programme.** (please list here the references and the website)

<http://www.rcsed.ac.uk/site/389/default.aspx>

[http://www.icoph.org/refocusing\\_education/educational\\_programs/subspecialty.html](http://www.icoph.org/refocusing_education/educational_programs/subspecialty.html)

### (4) Curriculum structure and contents:

**4.a- Duration of the programme (in years or months):..... 36months**

**4.b- programme structure:**

Candidates should fulfill a total of .....60.....credit hours ( 6 semesters)

❖ ●4.b.1: Number of credit hours:

● First part:.....5.....

● Second part:...40

✓ 25 credit hours lectures, 4 semesters, 24 months , starting from the 3<sup>rd</sup> semester, till 6<sup>th</sup> semester.

✓ 15 credit hours log book clinical , practical and scientific activities.

● Thesis:... 15 credit hours , 4 semesters, 24 months , starting from the 2<sup>nd</sup> semester, till 5<sup>th</sup> semester.

❖ ●4.b.2: Teaching hours/week:

▪ 1<sup>st</sup> part

Lectures:.....5 hours per week ,Clinical/lab

Total:5 × 15=75

▪ 2<sup>nd</sup> part

Lectures: 6.25 hours per week ,Clinical/lab

Total:6.25 ×15×4=375

**(5) Programme courses:**

المقررات الدراسية وتوزيع الساعات المعتمدة

الساعات المعتمدة		الكود	course	المقرر	
الاجمالي	المقرر				
5	١	OPHT601	Anatomy and Embryology of the eye OPHT601	التشريح و علم الأجنة	الفصل الدراسي الأول
	١	OPHT603	Physiology of the Eye OPHT603	فسيولوجيا العين	
	1	OPHT 605& 607	Pathology and Microbiology OPHT 605& 607	الباثولوجيا و الميكروبيولوجيا	
	2	OPHT622 BO	Basic of Optics OPHT622 BO	اساسيات البصريات	
<p>يتم عقد دورات تدريبية لها ويتم استيفاء هذه الدورات بحضورها</p>			<p>دراسات متقدمة في المجال الطبي:</p> <ul style="list-style-type: none"> <li>- طرق البحث العلمي</li> <li>- الاحصاء الطبي</li> <li>- استخدام الحاسب الالى فى العلوم الطبية</li> </ul>		
<p>مخصص لكتابة بروتوكول الرسالة وتسجيل رسالة الدكتوراه التى تبدأ مع بداية الفصل الدراسي الثاني وتستمر لمدة أربع فصول دراسية</p>					الفصل الدراسي الثاني
	١٢	OPHT 622OS	Surgery OPHT 622 OS	جراحة العيون	الفصل الدراسي

25	١٢	OPHT 622 OM	Medicine OPHT 622 OM	طب العيون	الثالث والرابع والخامس والسادس
	١	OPHTH622 OG & OPHTH622SC & OPHTH 622NA	Elective Course Ancillary diagnostic ophthalmic tests: 1- Retina 2- Orbit and adenexa 3- Cornea and refractive surgery	مقرر اختياري	
15					كراسة الانشطة
12 3				- برنامج التدريب الاكلينيكي والعمل في - أنشطة علمية مختلفة	
15				تبدأ مع بداية الفصل الدراسي الثاني وتستمر لمدة أربع فصول دراسية	الرسالة
60					اجمالي الساعات المعتمدة

MD

**Second part**

**a. Compulsory courses**

Course	Lectures	Clinical	Total teaching hours	
			lectures	Clinical
Ophthalmic	12	6		
Surgery	Sems 3:	Sems 3:	Sems 3:	Sems 3:
OPHT 522	3	2	45hrs	٦٠hrs
OS	Sems 4:	Sems 4:	Sems 4:	Sems 4:
	3	2	45 hrs	٦٠hrs
	Sems 5:	Sems 5:	Sems 5:	Sems 5:
	3	1	45hrs	٣٠hrs
	Sems 6:	Sems:	Sems6: 45hrs	Sems 6:
	3	1	Total:	٣٠hrs
			180hrs	Total: ١٨0hrs
Ophthalmic	12	6		
Medicine	Sems 3:	Sems 3:	Sems 3:	Sems 3:
OPHT 622	3	2	45hrs	٦٠ hrs
OM	Sems 4:	Sems 4:	Sems 4:	Sems 4:



	3 Sems 5: 3 Sems 6: 3	2 Sems 5: 1 Sems: 1	45 hrs Sems 5: 45hrs Sems6: 45hrs Total: 180hrs	٦٠ hrs Sems 5: ٣٠ hrs Sems 6: ٣٠ hrs Total: ١٨0hrs
Elective Course	1 hour	-		
	Sems 3:- Sems 4:- Sems 5: - Sems 6: 1	Sems 3: Sems 4: Sems 5: Sems 6: -	Sems 3: Sems 4: Sems 5: Sems 6: 15 hrs Total: 15hrs	Sems 3: Sems 4: Sems 5: Sems 6: Total: -

**(6) Programme admission requirements.**

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**•General requirements:**

By laws regulating post graduate Studies.

**•Specific requirements :**

N/A

**(7) Regulations for progression and programme completion.**

**First part :**

- **Minimally accepted attendance is 70%.**

**Second part**

**1- Attendance Criteria:**

- Minimally accepted attendance in each course is 70%.

**2-Log book :**

- The log should be fulfilled and signed by Head of the department.

### **3-Practical work:**

-lab rotation according to the schedule determined by the supervisors

### **4- seminars:**

-at least 2 seminars in topics determined by the supervisors must be prepared and presented by the candidate.

## **(8) Evaluation of Programme's intended learning outcomes (ILOs).**

### **Assessment methods:**

**8.1. Written exam for assessment of knowledge and intellectual skills.**

**8.2. Clinical exam for assessment of intellectual and practical skills**

**8.3. Oral exam for assessment of knowledge and intellectual skills.**

**8.4 MCQ exam for continuous assessment of knowledge and intellectual skills.**

### **Assessment schedule:**

- MCQ exam at the end of each semester.
- Final exam at 6th month from admission to MD degree with total of 240 marks



نظام الامتحان وتوزيع الدرجات: (دكتوراه طب وجراحة العيون)

امتحان الجزء الأول

الدرجة	الاختبار	المقرر
١٠٠	اختبار تحريري مدته ثلاث ساعات	التشريح والنمو الجنيني للعين
١٠٠	اختبار تحريري مدته ثلاث ساعات	فسيولوجيا العين
١٠٠	اختبار تحريري مدته ثلاث ساعات	علم البصريات
٧٥	اختبار تحريري مدته ساعتين	- باثولوجيا العين
٢٥	اختبار تحريري مدته ساعة	- الميكروبيولوجيا والمناعة الطبية للعين من الدرجة

الامتحان النهائي الشامل

إجمالي	الدرجة				الاختبار	المقرر
	عملي	إكلينيكي	شفهي	وصف حالة		
٤٨٠	١٠٠	١٠٠	١٠٠	٦٠	١٢٠	اختبار تحريري مدته ٣ ساعات + اختبار شفهي + وصف حالة + اختبار إكلينيكي + اختبار عملي
٣٢٠	١٠٠		١٠٠		١٢٠	اختبار تحريري مدته ٣ ساعات + اختبار شفهي + اختبار عملي
٢٠					٢٠	اختبار تحريري مدته نصف ساعة
٨٢٠	إجمالي الدرجة					

Evaluator	Tools*	Sample size
Internal evaluator (s)	<b><u>Prof Dr Hani Abdelrahman</u></b>	
External Evaluator (s)	<b><u>Prof Dr Mervat Salah</u></b>	

\* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E\_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.

Programme coordinator:

Name: **Prof.Dr Adel El layeh**

Signature & date:

P.S. The programme specification should have attached to it all courses specifications for all courses listed in the matrix.

### Programme –Aims and ILOs Matrix

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

P.S. All courses` specifications are attached in [Appendix III](#).

Programme aims	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	B1	B2	B3	B4	B5	B6	B7	B8	
	1-The programme will provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√							
2- The programme will assess candidates <b>attitude</b> using the problem based learning questions in each module.		√	√	√	√	√	√	√	√	√		√	√	√									
3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital.															√	√	√	√	√		√	√	





### programme–Courses 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.

P.S. All courses` specifications are attached in [Appendix III](#).

Course Title/Code	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	B1	B2	B3	B4	B5	B6	B7	B8
	Anatomy and Embryology of the eye OPHT 622 AE	√	√													√						
Physiology of the eye OPHT 622 PE													√	√								√
Optics OPHT 622 OE											√	√									√	
Ophthalmic Pathology OPHT 622 PA					√	√											√					
Microbiology & Immunology of the eye OPHT 607 OPHT 622 MI			√	√												√						

Ophthalmic Medicine <b>OPHT 622 OM</b>							√	√										√			
Ophthalmic Surgery <b>OPHT 622 OS</b>												√	√						√		

Course Title/Code	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6
	Anatomy and Embryology of the eye <b>OPHT 622 AE</b>	√										√	√	√	√	√
Physiology of the eye <b>OPHT 622 PE</b>										√	√	√	√	√	√	√
Optics <b>OPHT 622 OE</b>								√	√		√	√	√	√	√	√
Ophthalmic Pathology <b>OPHT 622 PA</b>			√	√							√	√	√	√	√	√
Microbiology & Immunology of the eye <b>OPHT 607</b> <b>OPHT 622 MI</b>		√									√	√	√	√	√	√
Ophthalmic Medicine <b>OPHT 622 OM</b>	√	√	√	√							√	√	√	√	√	√
Ophthalmic							√				√	√	√	√	√	√

Surgery OPHT 622 OS																					
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**programme-Methods of assessment ILOs Matrix**

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the **programme-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.

P.S. All courses` specifications are attached in **Appendix III**.

programme- Methods of assessment	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	a14	B1	B2	B3	B4	B5	B6	B7	B8	
	8.1: Written exam for assessment of knowledge intellectual skills.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
8.2: Clinical exam for assessment of intellectual and															√	√	√	√	√	√	√	√	√



intellectual skills.

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**(9) Programme admission requirements.**

:

**•General requirements:**

By laws regulating post graduate Studies.

**•Specific requirements :**

N/A

**(10) Regulations for progression and programme completion.**

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**Second part**

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١٠٠	اختبار تحريري مدته ثلاث ساعات	علم البصرات
٧٥	اختبار تحريري مدته ساعتين	- باثولوجيا العين
٢٥	اختبار تحريري مدته ساعة	- الميكروبيولوجيا والمناعة الطبية للعين من الدرجة

الامتحان النهائي الشامل

إجمالي	الدرجة				الاختبار	المقرر
	عملي	إكلينيكي	شفهي	وصف حالة		
٤٨٠	١٠٠	١٠٠	١٠٠	٦٠	١٢٠	اختبار تحريري مدته ٣ ساعات + اختبار شفهي + وصف حالة + اختبار إكلينيكي + اختبار عملي
٣٢٠	١٠٠		١٠٠		١٢٠	اختبار تحريري مدته ٣ ساعات + اختبار شفهي + اختبار عملي
٢٠					٢٠	اختبار تحريري مدته نصف ساعة
٨٢٠	إجمالي الدرجة					

Evaluator	Tools*	Sample size
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**Programme coordinator:**

Name: **Prof.Dr Adel El layeh**

Signature & date:

P.S. The programme specification should have attached to it all courses specifications for all courses listed in the matrix.