



**Quality Assurance Unit**



**Tanta University  
Faculty of Medicine**

**Department of Ophthalmology**

**Course Specifications**

**Optics, Diploma Degree  
(Second semester)**

**2016-2017**

University: Tanta

Faculty: Medicine

Department: Ophthalmology

### A- Administrative Information

- 1- Program title: Master Degree, optics, second semester
- 2- Department offering the program: ophthalmology department
- 3- Department responsible for the course: ophthalmology department.
- 4- Course code: OPHT 8003
- 5- Level: 1<sup>st</sup> part
- 6- No. of Credit / taught hours: **2credit hours**
  - Lectures: **1credit hours=15 taught hours**
  - Practical: **1credit hours =30 taught hours**

### B- Professional Information

#### 1 – Intended learning outcomes (ILOs):

##### a- knowledge and understanding:

By the end of this program the candidate will be able to :

a1- identify the basic information about Ophthalmo-optics.

##### b-intellectual skills:

By the end of the course, students should be able to:

b1 -Solve the ophthalmological problems related to the Ophthalmo-optics and know how to find the solution

##### c-Professional &Practical Skills:

By the end of the course, students should be able to:

C1- Perform refraction of the eye.

C2- able to manipulate ophthalmic instruments.

##### d-General Transferable Skills:

By the end of this program the candidate will be able to;

d1- Use various communication skills, management skills.

2-Course contents:

- **Lectures:**               **1credit hours=15 taught hours**
- **Practical:**             **1credit hours =30 taught hours**

❖ Lectures:

Name of the lecture	Taught hours
<p><b><u>Optics :</u></b></p> <ul style="list-style-type: none"> <li>• Physical and geometric optics: <ul style="list-style-type: none"> <li>Light and its properties.</li> <li>Reflection of light</li> <li>Refraction of light</li> <li>Refraction by prisms and lenses</li> <li>Refraction by the eye.</li> </ul> </li> <li>• Clinical optics : <ul style="list-style-type: none"> <li>Optical aberrations,</li> <li>ametropia,</li> <li>acomodation and its disturbances,</li> <li>binocular muscular coordination and anomalies,</li> <li>visual function,</li> <li>retionoscopy,</li> <li>ophthalmoscopy,</li> <li>verification of the refraction of the eye.</li> </ul> </li> <li>• Ophthalmic appliances: <ul style="list-style-type: none"> <li>Spectacles,</li> <li>contact lenses,</li> <li>intraocular lenses,</li> <li>low vision aids.</li> </ul> </li> <li>• Ophthalmic instruments: <ul style="list-style-type: none"> <li>Microscopes, slit. Lamp, refractometers,</li> <li>applanation tonometer, keratometer, orthoptic instruments, fundus camera, laser and phototherapeutics, gonioscopes, surgical loupes and operating microscope, etc.</li> </ul> </li> </ul>	<p><b>(15h)</b></p> <p>(2)</p> <p>(4.5)</p> <p>(4.5)</p> <p>(5)</p>
<p><b><u>Total :</u></b></p>	<p><b>(15h)</b></p>

❖ **Practical & clinical skills:**

**2hours/week= 30 hours/semester=1 credit hours**

**3-Teaching and learning methods:**

- **Lectures: 1credit hours=15 taught hours**
- **Practical: 1credit hours =30 taught hours**

**4-Student Assessment**

4.1, **exam at the end of semester (quiz, MCQs.....)** a1,b1

4.2-log book: a1, b1,c1,c2,d1

**5- Assessment schedule:**

<b>exam at the end of semester (quiz, MCQs.....)</b>	End of the course
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**6- List of references**

6.1 Course notes

Handout of the department

6.2 Text book:

-American academy of ophthalmology. Basic and clinical science course, 2010-2011

6.3 Recommended books

Clinical anatomy of the eye, Richard S. Snell, Micheal A. Lemp, 2<sup>nd</sup> edition.

6.4 Periodicals and web sites

-British journal of ophthalmology. [www.bjo.bmj.com](http://www.bjo.bmj.com)

-Current opinion of ophthalmology. [www.co-ophthalmolgy.com](http://www.co-ophthalmolgy.com)

**7-Other resources/ facilities required for teaching and learning to achieve the above ILOs**

-The general library of the faculty.

- Library of the department.

-we certified that all of the information required to deliver this course is contained in the above specifications and will be implemented

We verify that the above report and the analysis of students and external evaluator opinions are accurate.

Course coordinator and head of department

name.....

signature..... Date.....

Head of quality assurance unit: name.....

signature..... Date.....