University: Al Azhar
Faculty: Medicine
Department: Ophthalmology

Course Specification

1. Course Data		
Course Code 07-700-ophth- DP	**Course Title:** anatomy &Embryology	**Academic Year / level**: 1st part diploma Ophthalmology
Specialization: Anatomy	**No. of Instructional Units:(hrs/w)** **Lecture** 4 **Practical** 4	

2. Objectives of the course	The aim of the course is to provide the postgraduate with the advanced knowledge and understanding of the anatomy of the eye and related structures through providing: • The knowledge and understanding of embryology, anatomy, blood supply, innervations of the Globe, its Adnexa and Extraocular Muscles. Optic Nerve, Visual and pupillary pathways are covered. • Ability to correlate the anatomical basic to the different surgical procedure in ophthalmology.
3. Intended Learning Outcome (ILOs)	
a. Knowledge and Understanding:	**At the end of this course the students should be able to:** A1. Describe detailed anatomy of the Globe, related innervations and cranial nerves related to the eye. A2. Identify the ultrastructure of each part of the eye. A3. Recognize anatomical knowledge relevant to the Brain and Orbit. A4. Understand the normal growth and development of the human eye
b. Intellectual Skills:	**At the end of this course the students should be able to:** B1. Integrate basic anatomical science with clinical case.
c. Professional Skills:	**At the end of the course; the students should be able to:** C1. Identify the eye structure and demonstrate basic anatomy practical skills. C2. Illustrate surgical anatomy of eye structures. C3. Identify congenital anomalies of the eye.

d. General Skills:	**At the end of the course; the students should be able to:** D1. Be self dependent during the learning process, adopt the the principles of lifelong learning and seek for continuous professional development. D2. Retrieve, manage, and manipulate information by all means, including electronic means to remain up-to-date in knowledge and practice.

4. Course Content

Topics	Lectures	Clinical
1- The macroscopic structure of the eye and orbit include;	1	0
Eyeball.	1	0
The cornea.	1	0
The lens.	1	0
Vitreous.	2	0
The Uveal tract.	2	0
Lymphatic drainage of the eye.	2	0
Retina.	3	0
The orbit.	2	0
Extraocular Muscles.	2	0
Cranial nerves connected with the eye.	1	0
Pituitary gland and the hypophysis cerebri.	1	0
2-The emberyology of the eye.	1	0

5. Teaching and Learning Methods

- Lectures:
  1. Conventional (didactic) methods.
  2. Inter-active methods.
- Practical.

6. Teaching and Learning Methods for Students with Special Needs

Not applicable

7. Student Assessment:

a. Methods of assesment	• Final written exam. • Final oral exam.
b. Time of assesment	At April/ September, after passing written exam.
c. Allocated marks/Distribution	• Final written exam: 50 degrees. • Final oral exam: 50 degrees.

8. List of Textbooks and References:

a. Course Notes	Lectures Notes
b. Required Books (Textbooks)	Wolff's Anatomy Bron AJ, Tripathi RC, Tripathi BJ. Wolff's Anatomy of the Eye and Orbit, 8th ed. London: Chapman& Hall Medical.1997.

c. Recommended Books	• Snell and Lemp anatomy of the Eye. • Atlas of ocular anatomy and emberyology. • Atlas of head and neck.
d. Periodicals, Web Sites, …, etc.	• British journal ophthalmology: http://www.BJO.com • Ophthalmology. • American journal ophthalmology. • Achieve Ophthalmology. • Egyptian journal ophthalmology: http://www.eos1902.com • http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1755-3768 • http://opthalmology.blogspot.com/ • http://pubmed.com

Course Instructor: Prof.

Head of Department: Prof. Dr

Date of department approval: /11/2014