

University: Al Azhar
Faculty : Medicine
Department: Ophthalmology

Course Specification

1. Course Data		
Course Code 07-700-ophth-med-doc	Course Title: anatomy & Embryology	Academic Year / level: MD Ophthalmology
Specialization:	No. of Instructional Units:	
	Lecture	1.5h./wee
	Practical	-----
		Seminar: 1h./week.

2. Objectives of the course	<p>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:</p> <ul style="list-style-type: none"> • The knowledge and understanding of embryology, anatomy of the Globe, its Adnexa and Extraocular Muscles. Optic Nerve, Visual Sensory System and Orbit are covered as well and Congenital Malformations of the Eye. • Ability to correlate the anatomical basic to the different surgical procedure in ophthalmology.
3. Intended Learning Outcome (ILOs)	
a. Knowledge and Understanding:	<p>At the end of this course the students should be able to:</p> <p>A1. Describe detailed anatomy of the Globe, its Adnexa and Extraocular Muscles. Also the Optic Nerve, Visual Sensory System, cranial nerves related to the eye and Orbit.</p> <p>A2. Identify the ultrastructure of each part of the eye.</p> <p>A3. Recognize anatomical knowledge relevant to ophthalmic diseases.</p> <p>A4. Recognize anatomical knowledge relevant to ophthalmic diseases in the Brain and Orbit.</p> <p>A5. Explain altered structure of the eye that is seen in various diseases and integrate it in clinical conditions.</p> <p>A6. Understand recent advances in the normal growth and development of the human eye</p>

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.Demonstrate basic anatomical practical skills relevant to ophthalmological practice.		
d. General Skills:	At the end of the course; the students should be able to: D1.Use information and communication technology effectively to remain up-to-date in knowledge and practice. D2.Retrieve, manage, and manipulate information by all means, including electronic means		
4. Course Content	Topics	Lectures	Clinical
	Topographic Anatomy of the Eye	1	0
	Prenatal Development of the Eye and Its Adnexa	1	0
	Eye Lid	1	0
	Lacrimal System	1	0
	Conjunctiva	2	0
	Cornea, Sclera	2	0
	Trabecular Meshwork, Iris, Ciliary Body, Choroid and Suprachoroid	2	0
	Zonular Apparatus, Lens	3	0
	Vitreous, Retina, Retinal Pigment Epithelium	2	0
	Optic Nerve, Visual Sensory System	2	0
	Extraocular Muscles	1	0
Orbit,	1	0	
Congenital Malformations of the Eye	1	0	
5. Teaching and Learning Methods	<ul style="list-style-type: none"> Lectures and tutorials. 		
6. Teaching and Learning Methods for Students with Special Needs	Not applicable		
7. Student Assessment:			
a. Methods of assesment	<ul style="list-style-type: none"> Final written exam. Final oral exam. 		
b. Time of assesment	At April/ November ,after passing written exam		
c. Allocated marks/Distribution	<ul style="list-style-type: none"> Final written exam.: 100 degrees. Final oral exam.: 100 degrees. 		
8. List of Textbooks and References:			
a. Course 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	<ul style="list-style-type: none"> • Snell and Lemp anatomy of the Eye. Snell RS, Lemp MA. Clinical Anatomy of the Eye. Blackwell Science.
d. Periodicals, Web Sites, ..., etc.	<ul style="list-style-type: none"> • 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://ophthalmology.blogspot.com/ • http://pubmed.com

Course Instructor: Prof.

Head of Department: Prof. Dr

Date: