جامعة بنها كلية الطب البشرى قسم طب وجراحة العين

توصيف برنامج الدكتوراة (عام 2014 -2013)

Basic information : معلومات أساسية

ا ـ اسم البرنامج : MD degree of Ophthalmology دكتوراة طب وجراحة العين

٢ ـ طبيعة البرنامج : Single (أحادي)

٣- القسم المسئول عن البرنامج: Ophthalmology department

٤- تاريخ إقرار البرنامج في مجلس القسم: 1 / 9 / 2013

٥- تاريخ إقرار البرنامج في مجلس الكلية: 15 /9 / 2013

٦- مسؤول البرنامج:

Prof. Dr. Esam El Matbouly, prof. of ophthalmology

٧- المراجعة الداخلية للبرنامج:

Prof.Dr. Ayman Nassar, prof. of ophthalmology

٨- المراجعة الخارجية للبرنامج:

Prof. Dr. Abdelkhalek Elsaadany, Professor of Ophthalmology, Menofia University

Professional information :2

١ ـ الأهداف العامة للبرنامج:

1- Program aims:

The overall aims of the program are:

- 1-1 Acquiring the basics and advances in ophthalmic research.
- 1-2 Promoting the ability to update his knowledge and practice.

- 1-3 Analyzing and integrating data obtained from history taking, clinical examination and investigations properly for ideal management of the ophthalmic patient.
- 1-4 Communicating with other medical specialties to develop links and improve ophthalmic practice.
- 1-5 Dealing with day to day challenges and new issues in the ophthalmic practice.
- 1-6 Developing creative methods in dealing with ophthalmic problems.
- 1-7 Performing wide variety of ophthalmic surgeries and skills in the proper scientific manner.
- 1-8 Practicing the evidence-based medicine.
- 1-9 Creating new methods and skills in practicing ophthalmology.
- 1-10 Communicating with colleagues in different ophthalmic centers to improve his knowledge.
- 1-11 Make benefit of recent technology in ophthalmic practice.
- 1-12 Leading a team work and making proper decisions.
- 1-13 Attending conferences, seminars and workshops with active participation in their activities.
- 1-14 Using available resources and developing new resources to improve the ophthalmic practice.
- 1-15 Sharing in community development and providing solutions for its needs.
- 1-16 Committing ethical research behavior and decency.
- 1-17 Training the candidates and colleagues for proper methods of clinical examination and management to provide decision making skills for proper evaluation of the ophthalmic cases.

٢ ـ المخرجات التعليمية المستهدفة من البرنامج:

2-Intended Learning Outcomes (ILOS):

٢ أ ـ المعرفة والفهم:

2.a. Knowledge and Understanding:

On successful completion of the program, the graduate will be able to:

2.a.1. Recognize the normal structure and function of the human eye on the macro and micro levels.

- **2.a.2. Understand** the normal growth and development of the human eye.
- **2.a.3**. **Illustrate** the abnormal structure, function, growth and development of human eye
- 2.a.4. Understand the optics of the eye
- 2.a.5. Explain the relation between surgical diseases and the eye
- **2.a.6**. **Understand** the relation between medical diseases and the eye
- 2.a.7. Highlight the relation between neurological diseases and the eye
- **2.a.8. Understand** the natural history of ophthalmologic diseases.
- **2.a.9. Describe** the causation of ophthalmologic diseases.
- **2.a.10. Know** Methods of eye health and preventing its illness.
- **2.a.11. Categorize** the clinical picture and differential diagnosis of ophthalmologic illnesses.
- **2.a.12. Discuss** concepts in the common diagnostic and laboratory techniques necessary to establish diagnosis of ophthalmologic illnesses.
- **2.a.13**. **Describe** concepts in the various therapeutic methods/alternatives used for ophthalmologic diseases
- **2.a.14. Know** the scientific development in the field of ophthalmology.
- **2.a.15. Understand** the mutual influence between professional practice and its impacts on the environment.
- **2.a.16. Demonstrate** the principles and fundamentals of ethics and legal aspects of professional practice in the field of ophthalmology.
- **2.a.17. Know** the principles and fundamentals of quality of professional practice in the field of ophthalmology
- 2.a.18. Identify the principles, basics and ethics of scientific research

٢. ب ـ القدرات الذهنية:

2.b. Intellectual Skills:-

On successful completion of the program, the graduate will be able to:

2.b.1. Interpret data acquired through history taking to reach a provisional diagnosis for ophthalmologic diseases.

- **2.b.2. Distinguish** from different diagnostic alternatives the ones that help reaching a final diagnosis for ophthalmologic problems.
- **2.b.3. Construct** a research study and /or write a scientific study on a research problem
- 2.b.4. Analyze risk in professional practices in the field of ophthalmology
- 2.b.5. Plan to improve performance in the field of ophthalmology
- **2.b.6. Distinguish** ophthalmologic problems and find solutions.
- 2.b.7. Analyze reading of research and issues related to the ophthalmology
- **2.b.8. Relate** between knowledge for Professional problems' solving.
- **2.b.9 Construct** an evidence-based practice and research

٢ ج ـ مهارات مهنية وعملية :

2.c. Practical and Professional Skills:-

On successful completion of the program, the graduate will be able to:

- **2.c.1. Apply** the basic and modern professional clinical skills in the area of ophthalmology
- 2.c.2 Implement technology and recent knowledge to improve ophthalmic practice
- **2.c.3 Design** plans improve his own clinical practice and his colleagues
- 2.c.4. Write and evaluate medical reports.
- 2.c.5. Manage and develop methods and tools existing in the area of ophthalmology

٢ د مهارات عامة ومنتقلة:

2.d. General and transferable skills:-

On successful completion of the program, the graduate will be able to:

- **2.d.1. Communicate** effectively by all types of effective communication
- **2.d.2. Use** information technology to serve the development of professional practice.
- **2.d.3. Assess** himself and identify his personal learning needs.
- 2.d.4. Use of different sources to obtain information and knowledge
- **2.d.5. Develop** rules and indications for assessing the performance of others.
- **2.d.6. Establish** a teamwork, and team's leadership in various professional contexts

- **2.d.7. Manage** time efficiently.
- 2.d.8. Teach himself continuously

٣ ـ المعايير الأكاديمية للبرنامج:

3. Academic Standards

Academic Reference Standards (ARS) of MD Program of Ophthalmology, approved in department council date 2 / 6 / 2013, and in faculty council no (354) date $\,$ 16 $\,$ / 2013 $\,$

4- Reference standards

4- العلامات المرجعية:

(a) المعايير القياسية لبرامج الدراسات العليا (درجة الدكتوراة)الصادرة عن الهيئة القومية لجودة التعليم والإعتماد (مارس ٢٠٠٩)

 $A cademic\ reference\ standards\ (ARS)\ ,\ MD\ Program\ (March\ 2009)$

, which were issued by the National Authority for Quality Assurance &

Accreditation of Education NAQAAE (۱۹ملحق ۲)

<u>5 - هيكل ومكونات البرنامج :</u>

(5): Program structure and contents:

أ ـ مدة البرنامج : Two and half years

Two and half years to pass M.D degree

Program duration: 60 weeks

1st part: - One Semester (15 weeks).

2nd part: - Three Semesters (45 weeks).

Thesis: Four Semesters (60 week) starting by the begening of the second part

ب ـ هيكل البرنامج

Program structure

• Total hours of program 60 credit hours

• Theoretical 30 credit hours

• Practical 30 credit hours

• elective : None

ج- مستويات ومقررات البرنامج:

الساعات	الكود	المقررات	البند
المعتمدة			
٦ ساعات		یشمل:	الجزء الأول
١,٥ ساعة	OPHT 701	تشريح وأجنة	
		Anatomy & Embryology	
١,٥ ساعة	OPHT	فسيولوجيا	
	702	Physiology	
١,٥ ساعة	OPHT 703	بصریات Optics	
١,٥ ساعة	OPHT 704	باثولوجي وباكتويولوجي	
		Pathology & bacteriology	
۲۶ ساعة		الندريب النظري والعملي ويشمل:	الجزء الثاني
يوم=١/٨ساعة	OPHT 705	حضور المرور بالقسم	
لستة= ١ / ٨ساء	OPHT 706	حضور استة العمليات	
ő			
عيادة= ١ / ٨سا	OPHT 707	حضور العيادات الخارجية	
عة			
يوم= ١ /٥ ١سا	OPHT 708	حضور محاضرات الدراسات العليا	
عة		Postgraduate	
		تدريب علي أحد تخصصات العيون الدقيقة	
		Subspeciality	
	OPHT 709	المياه البيضاء Cataract المياه البيضاء	
	OPHT 710	المياه الزرقاء 2- Glaucoma	
	OPHT 711	3- Vitreo-retinal surgery	
		جراحة الجسم الزجاجي والشبكية	

	OPHT 712	4- Refractive surgery جراحة	
		قصر النظر	
	OPHT	5- Oculoplastics جراحة تجميل	
	OPHT 714	6- Paediatric Ophthlmplogy	
		Strabismus & طب وعيون الأطفال	
		والحول	
	OPHT 715	7- Cornea and external	
		diseases	
		أمراض القرنبة والعين الخارجية	
	OPHT 716	8-Medical and investigative	
		ophthalmology	
	OPHT	Neurophthalmology	
	717	الأمراض العصبية والرمد	
	OPHT 718	أمراض الشبكية Medical Retina	
	OPHT 719	التهاب اليوفيا Uveitis	
	OPHT 720	Investigative	
		فحوص أمراض Ophthalmology	
		العيون	
١٥ ساعة		تسجل بها الأنشطة مثل:	كراسة أنشطة
ندوة-		حضور ندوات علمية وندوات الدوريات	
۱/۸ساعة		Journal club	
مؤتمر = ١/٢		حضور المؤتمرات المحلية	
مؤتمر = ١/٢		حضور مؤتمرات عالمية	
دورة ١/٥		حضور دورات تدريبية	
١٥ ساعة			رسالة
۲۰ ساعة			إجمالي

First part (One semester)

a- Compulsory courses.

Code Course Total			No. of hour	s/weel	ks	Total teaching
number	title	number of hours	Lecture	Lab	clinical	hours/24 weeks
OPHT 701	Anatomy of the eye	2	1	-	1	48
OPHT 702	physiolog y of the eye	2	2	-	-	48
OPHT 703	optics of the eye	4	2	2	-	96
OPHT 704	Pathology of the eye	4	2	0	2	96
Total						288

b- select i	ive:		none
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c- Elective courses: none

Second part (3 semesters)

a- Compulsory courses.

Code	Course title	Total number of	No. of hou		Total	
number		hours	Lecture	Lab	clinical	teaching
						hours/72
						weeks
OPTH 705 to 720	Ophthalmology I	4	2	-	2	288
ОРТН	Ophthalmology	4	2	-	2	288

705 to 720	II			
Total				576

a- selectivenone

b- Elective courses: none

- تم ضم المقررات المتشابهة في مقررين تحت مسمى:

Ophthalmology I code: (OPTH 705 to 720)

Ophthalmology II code: (OPTH 705 to 720)

مجلس قسم بتاریخ 2 / 6 / 2013

مجلس كلية رقم 354 بتاريخ 16/ 2013

6- محتويات المقررات (راجع توصيف المقررات)

7 ـ متطلبات الإلتحاق بالبرنامج:

(7): Program admission requirements:

مادة (٢٣): يشترط لقيد الطالب لدرجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية أن يكون حاصلا على درجة الماجستير في مادة التخصيص بتقدير جيد على الأقل من إحدى جامعات ج ٠ م ٠ ع أو على درجة معادلة لها من معهد علمي أخر معترف به من الجامعة ٠

🗷 مدة الدراسة لنيل الدكتوراه سنتان ونصف موزعة كا لاتى : •

• جزء أول : علوم أساسية • فصل دراسي لمدة ستة شهور (٦ ساعات معتمدة) ومن يرسب يعيد مادة الرسوب فقط •

• الجزء الثانى: ثلاث فصول دراسية لمدة سنة ونصف (٣٩) ساعة معتمدة يستوفى خلالها الطالب الساعات المعتمدة ثم يسمح له بالتقدم لامتحان التحريري وإذا اجتاز الامتحان التحريري بنجاح يحق له التقدم الى الامتحان الشفهى والعملى والإكلينيكى خلال شهر من تاريخ الامتحان التحريري •

• رسالة (١٥ ساعة معتمدة)

تبدأ الدراسة عند بداية التسجيل تنتهى بامتحان شامل فى نهاية كل أربع فصول دراسية بعد اجتياز الطالب امتحانات الجزء الأول بنجاح يسمح له بتسجيل رسالة لمدة أربعة فصول دراسية تبدأ عند بداية الفصل الدراسى الثانى وتناقش بعد مرور عامين على الأقل من تاريخ تسجيل الرسالة على أن تكون المناقشة بعد ستة اشهر على الأقل مع اجتياز الامتحان التحريري والإكلينيكية والشفهى (الامتحان الشامل) •

يمنح الطالب الدرجة بعد مناقشة الرسالة واجتياز الامتحان الشامل •

یکون التقدم للقید لدرجة الدکتوراه مر تین فی السنة خلال شهری مارس وأکتوبر من کل عام ۰

8 - القواعد المنظمة لإستكمال البرنامج:

مادة (٢٤) : يشترط في الطالب لنيل درجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية ما يلي :

- حضور المقررات الدراسية بصفة مرضية طبقا للساعات المعتمدة •
- أن يقوم ببحث في موضوع تقره الجامعة بعد موافقة مجلس الكلية والقسم لمدة سنتان على الأقل
 - أن يتقدم بنتائج البحث في رسالة تقبلها لجنة الحكم بعد مناقشة علنية للرسالة •
- اجتياز الطالب ثلاث دورات في الحاسب الآلي (دورة في مقدمة الحاسب الألي − دورة تدريبية " متوسطة " − دورة في تطبيقات الحاسب الألي) وذلك قبل مناقشة الرسالة
 - اجتياز الطالب اختبار التويفل بمستوى لا يقل عن ٥٠٠ وحدة وذلك قبل مناقشة الرسالة ٠
 - أن يجتاز بنجاح الاختبارات التحريرية والإكلينيكية والشفهية المقررة وفقا لما هو مبين باللائحة
 - مادة (٢٥): على الطالب أن يقيد اسمه للامتحان قبل موعده بشهر على الأقل •

- مادة (٢٦): يشترط لنجاح الطالب في امتحان الدكتوراه الحصول على الحد الأدنى للنجاح في جميع الاختبارات المقررة وفي كل جزء من أجزاءها على حدة ذلك بأخذ المتوسط لتقديرات أعضاء اللجنة اذا رسب الطالب في أي مقرر من المقررات بعد الامتحان في جميع المقررات •
- مادة (۲۷): يعقد الامتحان التحريري لدرجة الدكتوراه في شهري نوفمبر ومايو من كل عام لمن يجتاز الامتحان التحريري في نفس الدور يتقدم الامتحان الشفهي والاكلينكي والعملي
- مادة (٢٨): لا يجوز للطالب أن يبقى مقيدا لدرجة الدكتوراه لأكثر من أريع سنوات دون أن يتقدم لمناقشة الرسالة ويجوز لمجلس الكلية أن يعطى الطالب مهلة لمدة سنتين في حالة قبول العذر •
- مادة (٢٩): تضاف درجات التحريري ووصف الحالة لبعضها ويعتبر النجاح والرسوب في المجموع الكلي للتحريري (٦٠ » على الاقل من الدرجة النهائية للتحريري) ومن ينجح في الامتحان التحريري يصرح له بدخول باقي الامتحانات الإكلينيكية والشفوية والعملية وعدد الرسوب يعيد الطالب الامتحان الشفوي والاكلينيكي ،

لا يحق للطالب التقدم للامتحان التحريري أكثر من أربع مرات ٠

- **مادة (٣٠)** : تبين في شهادة الدكتوراة موضوع الرسالة والمادة أو المواد الاختيارية ٠
- مادة (٣١): تبين الجداول في الباب الخامس المقررات الدراسية التي تدرس لنيل درجة الدكتوراه طبقا للساعات المعتمدة الاختبارات التحريرية والإكلينيكية والشفوية •

9 ـ طرق وقواعد تقييم الملتحقين بالبرنامج:

9- Students Assessment methods:

ما تقيسة من مخرجات التعلم المستهدفة	الطريقة	م
To assess knowledge and understanding & intellectual skills: From 2.a.12.a.18. and 2.b.12.b.9.	Written examination	1

To assess knowledge and understanding,	Oral examination	2
intellectual skills & General & transferable		2
skills		
2.a.12.a.18.,		
2.b.12.b.9.,		
2.d.12.d.8.		
To assess knowledge and understanding,	Practical & clinical examination	
intellectual skills & practical and clinical		3
skills and General & transferable skills:		
2.a.12.a.18.,		
2.b.12.b.9.,		
2.c.12.c.5.		
2.d.12.d.8		

First part:

4114.1		ارجة	_ 11		الاحتيار	m11
إجمالي	إعلينيكي	ريلمذ	ৰ্থিকয়ক	تحريري	Juan	المجرر
r			1•• 1••	1++ 1++	احتبار تعريدي محته ثلاثه ساعاته + احتبار هنسي وعملي	تشريح فسيولو <i>جي</i>
Γ•• Γ••			1	1++	احتبار تحریری محته ثلایه ساعایه + احتبار هغمی و عملی	بصریات باثولوج <i>ی</i>
۸	درجة	إجمالي الـ				

Second part

4111	الحربة				الاحتبار	m 11
رجالج	ريلمذ	إعلينيك	বিষয়ক	تعريري) i i i i i i i i i i i i i i i i i i i	المجرر
٣++		۷۵	۷۵	16+	احتبار تمريري محته ثلاه ساعات	1
					+ اختبار هغمي و عملي	طبع وجراحة العين ١
٣٠٠		٧٥	۷۵	16•	احتبار تحريري مته ثلاث ساغات	T . 11 + 1 1
					+ اختبار هغمي وعملي	طبم وجراحة العين ٢

٦	جمالي	ļ		
	لدرجة	l		

10 - طرق تقويم البرنامج:

10- Evaluation of Program:

Evaluator	Tools	Sample
Internal evaluator (s)	Focus group discussion	Reprort
مقييم داخلي	Meetings	
External Evaluator (s)	Reviewing according to	Report
مقییم خارجی	external evaluator checklist	
	report of NAQAA	
Senior student (s)	مقابلات , استبيان	A11
طُلاب السنة النهائية		
Alumni	مقابلات , استبیان	Not less than 50% from the
الخريجون		last 3 years
Stakeholder (s)	مقابلات , استبيان	Representative samples from
أصحاب العمل		all sectors
Others	None	A11
طرق أخرى		

11: استراتيجيات التعليم و التعلم على مستوي البرنامج:

Active learning

١. استراتيجية التعلم النشط.

Y. استراتيجية التعليم المبنى على النتائج.

٣. استراتيجية التعليم المبنى على حل المشكلات.

المسئول عن البرنامج: أ.د. عصام المتبولي التوقيع التاريخ: 1/9/2013

Program	Coordinator:
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Name Prof Dr ...Essam Elmatbouly..... Signature......Date

الملحقات:

ملحق ۱: Academic standard of the MD ophthalmology program

ملحق ٢ المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

ملحق ٣: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق ٤: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق ٥: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق رقم : توصيف المقررات

Academic standard of the MD ophthalmology program: ملحق

اهبه قعمام غلالة الطب

تسو طبب وجراحة العين

المعايير الأكاديمية المرجعية لبرنامج دكتوراة طب وجراحة العين

١ ـ مواصفات الخريج:

خريج برنامج دكتوراة طب وجراحة العين يجب أن يكون قادرا على:

- 1-1 Mastering essentials and advances in ophthalmic research
- 1-2 Updating his ophthalmic knowledge and practice
- 1-3 Analyzing and integrating data obtained from history taking, clinical examination and investigations properly for ideal management of the ophthalmic patient
- 1-4 Integrating other medical specialties and developing links between ophthalmic practice and
- 1-5 Coping with current challenges and new issues in the ophthalmic practice
- 1-6 Developing creative methods in dealing with ophthalmic problems
- 1-7 Mastering wide variety of ophthalmic surgeries
- 1-8 Applying the evidence-based medicine in his practice
- 1-9 Developing new methods in practicing ophthalmology
- 1-10 Communicating with colleagues in different ophthalmic centers to improve his knowledge
- 1-11 Make benefit of recent technology in ophthalmic practice

- 1-12 Leading a team work and making proper decisions
- 1-13 Attending conferences, seminars and workshops with active participation in their activities
- 1-14 Using available resources and developing new resources to improve the ophthalmic practice
- 1-15 Sharing in community development and providing solutions for its needs
- 1-16 Committing ethical research behavior and decency
- 1-17 Training the candidates and colleagues for proper methods of clinical examination and management to provide decision making skills for proper evaluation of the ophthalmic cases

2.1. Knowledge and Understanding:

By the end of the program, the candidate should be able to:

- **2.1.1.** Illustrate the normal structure and function of the human eye on the macro and micro levels.
- **2.1.2.** Understand the normal growth and development of the human eye.
- **2.1.3.** Describe the abnormal structure, function, growth and development of human eye
- 2.1.4. Understand the optics of the eye
- 2.1.5. Understand the relation between surgical diseases and the eye
- 2.1.6. Understand the relation between medical diseases and the eye

- **2.1.7.** Understand the relation between neurological diseases and the eye
- **2.1.8.** Understand the natural history of ophthalmologic diseases.
- **2.1.9.** Understand the causation of ophthalmologic diseases.
- **2.1.10.** Recognize Methods of eye health and preventing its illness.
- **2.1.11.** Describe the clinical picture and differential diagnosis of ophthalmologic illnesses.
- **2.1.12.** Enumerate concepts in the common diagnostic and laboratory techniques necessary to establish diagnosis of ophthalmologic illnesses.
- **2.1.13**. Describe concepts in the various therapeutic methods/alternatives used for ophthalmologic diseases
- **2.1.14.** Understand the scientific development in the field of ophthalmology.
- **2.1.15.** Understand the mutual influence between professional practice and its impacts on the environment.
- **2.1.16.** Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of ophthalmology.
- **2.1.17.** Know the principles and fundamentals of quality of professional practice in the field of ophthalmology
- **2.1.18.** Know the principles, basics and ethics of scientific research

. ب - القدرات الذهنية:

2.2. Intellectual Skills:-

By the end of the program the candidate should be able to:

2.2.1. Data Interpretation acquired through history taking to reach a provisional diagnosis for ophthalmologic diseases

- **2.2.2**. . Selection from different diagnostic alternatives the ones that help reaching a final diagnosis for ophthalmologic problems
- **2.2.3**. Conduction of a research study and /or write a scientific study on a research problem
- **2.2.4**. Risk assessment in professional practices in the field of ophthalmology and methods of risk management.
- **2.2.5** Plan to improve performance in the field of ophthalmology, applying the evidence based medicine
- **2.2.6**. Identification ophthalmologic problems and find solutions to make proper decisions
- **2.2.7**. . Reading and evaluating research and issues related to the ophthalmology
- **2.2.8**. Link between knowledge for Professional problems' solving applying creative thinking.
- 2.2.9 Developing new tools and methods in ophthalmic practice

ج ـ مهارات مهنیة وعملیة:

2.3 Practical & Clinical Skills:-

By the end of the program, the student should be able to:

- **2.3.1**. Basic and modern professional clinical skills in the area of ophthalmology in professional manner. With sound knowledge about emerging methods that are still under trial.
- **2.3.2**. Applying technology and recent knowledge to improve ophthalmic practice.
- 2.3.3. Planning to improve his own clinical practice and his colleagues
- **2.3.4**. Write and evaluate medical reports.

2.3.5. Evaluate and develop methods and tools existing in the area of ophthalmology

۲ .د. مهارات عامة :

2.4. General and transferable skills:

By the end of the program the graduate will be able to:

- **2.4.1** Active communication using different sources
- **2.[£].2.** Usage of information technology to serve the development of professional practice
- **2.4.3**. Developing rules and indications for assessing the performance of others.
- **2.4.4**. Assessment and identification of his personal learning needs and continuous self learning skills
- **2.4.5**. Teamwork, and team leadership in various professional contexts
- 2.d.6. Using different resources to obtain knowledge
- **2.d.7**. Efficient Time management

اعتماد عجلس القسو، وتاريخ ٢٠١٣/6/2...

رئيس مجلس القسم أ.د عصام المتبولي

اعتماد مجلس الكلية

ملحق 2:المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة

برامج الدكتوراة

١- مواصفات الخريج:

ج برنامج الدكتوراة فى اى تخصص يجب ان يكون قادرا على	نريج برنام	امج الدكتو	لدكتوراة	ھى	ای تخصص	یجب ا	ان يكون	فادرا	على
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- ١-١ اتقان اساسيات ومنهجيات البحث العلمي
- ٢-١ العمل المستمر على الاضافة للمعارف في مجال التخصص
- ١-٣ تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة
 - 1- ٤ دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها
 - ١-٥ اظهار وعيا عميقا بالمشاكل الجارية والنظريات الحدية في مجال التخصص
 - ١-٦ تحديد المشكلات المهنية وايجاد حلولا مبتكرة لحلها
 - ١-٧ اتقان نطاقا واسعا من المهارات المهنية في مجال التخصص
 - ١-٨ التوجة نحو تطوير طرق وادوات واساليب جديدة للمزاولة المهنية
 - ١-٩ استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارستة المهنية
 - ١٠٠١ التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة
 - ١-١١ اتخاذ القرار في ضل المعلومات المتاحة
 - ١-٢١ توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على ايجاد موارد جديدة
 - ١٣-١ الوعى بدوره في تنمية المجتمع والحفاظ على البيئة
 - ١-٤١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة
 - ١-٥١ الالتزام بالتنمية الذاتية المستمرة ونقل علمه وخبراته للاخرين

٢- المعايير القياسية

١-٢ المعرفة والفهم

بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على الفهم والدراية بكل من

٢-١-١ النطريات والاساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة

٢-١-٢ اساسيات ومنهجيات واخلاقيات البحث العلمى واداواته المختلفة

٢-١-٣ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص

٢-١-٤ مبادئ واساسيات الجودة في الممارسة في مجال التخصص

٢-١-٥ المعارف المتعلقة بأثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها

٢-٢ المهارات الذهنية

بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على

٢-٢-١ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها

٢-٢-٢ حل المشاكل المتخصصة استنادا على المعطيات المتاحة

2-2-3 اجراء دراسات بحثية تضيف الى المعارف

٢-٢-٤ صياغة أوراق علمية

٢-٢- تقييم المخاطر في الممارسات النهنية

٢-٢-٢ التخطيط لتطوير الأداء في مجال التخصص

٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية مختلفة

٢-٢-٨ الابتكار / الابداع

٢-٢- الحوار والنقاش المبني علي البراهين والأدلة

٢,٣ المهارات المهنية:

بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على

٢,٣,١ اتقان المهارات المهنية الأساسية والحديثة في مجال التخصص

٢,٣,٢ كتابة وتقييم التقارير المهنية

٢,٣,٣ تقييم ونطوير الطرق والأدوات القائمة في مجال التخصص

٢,٣,٤ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية

- ٥,٣,٥ التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين
 - ٢,٤ المهارات العامة والمتنقلة
- بانتهاء دراسة برنامج الدكتوراة يجب أن يكون الخريج قادرا علي:
 - ٢,٤,١ التواصل الفعال بأنواعه المختلفة
- ٢,٤,٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية
 - ٣,٤,٣ تعليم الآخرين وتققيم أدائهم
 - ٢,٤,٤ التقييم الذاتي والتعلم المستمر
 - ٥, ٤, ١ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
 - ٢,٤,٦ العمل في فريق وقيادة فريق العمل
 - ٢,٤,٧ ادارة اللقاءات العلمية والقدرة على ادارة الوقت

ملحق 3: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة

مواصفات الخريج بالمعايير الاكاديمية لبرنامج	مواصفات الخريج بالمعايير القياسية العامة
دكتوراة طب العين وجراحتها	لبرامج الدراسات العليا
	درجة الدكتوراة
	* ** *
	١- مواصفات الخريج:
، أن يكون قادر ا على:	خريج برنامج دكتوراة طب وجراحة العين يجب
1-1 Mastering essentials and advances in ophthalmic research	١-١ اتقان أساسيات ومنهجيات البحث العلمي
1-2 Updating his ophthalmic knowledge and practice	1-1 العمل المستمر على الاضافة للمعارف في مجال التخصيص
1-3 Analyzing and integrating data obtained from history taking, clinical examination and investigations	 ٣-١ تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص
properly for ideal management of the ophthalmic patient	
1-4 Integrating other medical specialties and developing links between ophthalmic practice and	 ١-٤ دمج المعارف المتخصصة مع المعارفذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها
1-5 Coping with current challenges and new issues in the ophthalmic	١-٥ اظهار وعيا عميقا بالمشاكل الجارية

practice	والنظريات الحديثة في مجال التخصص
practice	"
1-6 Developing creative methods in	١-٦ تحديد المشكلات المهنية وايجاد حلول مبتكرة
dealing with ophthalmic problems	لحلها
1-7 Mastering wide variety of	١-٧ اتقان نطاق واسع من المهارات المهنية في
ophthalmic surgeries	مجال التخصص
opinina sargeries	
1-8 Developing new methods in	۱-۸ التوجه نحو تطویر طرق وأدوات وأسالیب
practicing ophthalmology	جديدة للمزاولة المهنية
1-9 Make benefit of recent	١-٩ استخدام الوسائل التكنولوجية المناسبة بما يخدم
technology in ophthalmic	ممارسته المهنية
practice	
1-10 Leading a team work and making	١٠-١ التواصل بفاعلية وقيادة فريق عمل في
proper decisions	سياقات مهنية مختلفة
	١-١١ اتخاذ القرار في ظل المعلومات المتاحة
1-14 Using available resources and	١-١٢ توظيف الموارد المتاحة بكفاءة وتنميتها
developing new resources to	والعمل على ايجاد موارد جديدة
improve the ophthalmic practice	
· · · ·	
1-15 Sharing in community	١٣-١ الوعي بدوره في تنمية المجتمع والحفاظ على
development and providing	البيئة
solutions for its needs	
1 16 Committing othical receases	١٤-١ التصرف بما يعكس الالتزام بالنزاهة
1-16 Committing ethical research	و المصداقية و قو اعد المهنة
behavior and decency	
1-17 Training the candidates and	١-٥١ الالتزام بالتنمية الذاتية المستمرة ونقل علمه
colleagues for proper methods of	وخبرته للأخرين
clinical examination and	
management to provide decision	
making skills for proper evaluation	

of the ophthalmic cases	
1-8 Applying the evidence-based medicine in his practice	
1-10Communicating with colleagues in different ophthalmic centers to improve his knowledge	
1-13 Attending conferences, seminars and workshops with active participation in their activities	
ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	٢ المواريد القداريد قرادا

٢- المعايير القياسية العامة

. ٢ - ١ ـ المعرفة والفهم:

2.a. Knowledge and Understanding:

By the end of the program, the candidate should be able to have sound knowledge about:

MD ophthalmology	y update 2014-2015
2.\.1. The normal structure and function	٢-١-١ النظريات والأساسيات والحديث من
of the human eye on the macroscopic	المعارف في مجال التخصص والمجالات ذات
and microscopic levels.	العلاقة
2.1.2. The normal growth and development of the human eye. Along with the genetic basis of development and effects of gene mutation in various phases of development.	
2.1.3 Abnormal structure, function, growth and development of human eye and recent modalities in gene therapy	
2.1.4. Optics of the human eye	
2.1.5. Relations between surgical diseases and the eye	
2.1.6. Relations between medical diseases and the eye, life threatening conditions and syndromes with fatal manifestations or possible complications.	
2.1.7. Relations between neurological diseases and the eye	
2.1.8. Natural history of ophthalmologic diseases.	
2.1.9. Aetiology and pathophysiology of ophthalmologic diseases.	
2.1.10. Methods of eye health and preventing its illness, with rules about	

health education for the patient, parents

and health care providers.	
 2.1.11. Clinical picture and differential diagnosis of ophthalmologic illness, and uncommon or non-classic presentation 2.1.12. Concepts in the common diagnostic and laboratory techniques necessary to establish diagnosis of 	
ophthalmologic illnesses.	
2.1.13. Concepts in the various therapeutic methods/alternatives used for ophthalmologic diseases	
2.1.14 Principles and methods and	۲-۱-۲ اساسیات و منهجیات و اخلاقیات البحث
ethics of scientific research	العلمي و ادواته المختلفة
2.\.16. Principles and fundamentals of	٢-١-٣ المبادئ الأخلاقية والقانونية للمارسة المهنية
ethics and legal aspects of professional practice in the field of ophthalmology.	في مجال التخصص
2.1.17. Principles and fundamentals of quality of professional practice in the field of ophthalmology	٢-١-٤ مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص
2.\.15. Mutual influence between	٢-١-٥ المعارف المتعلقة بآثار ممارسته المهنية
professional practice and its impacts on the environment	على البيئة وطرق تنية البيئة وصيانتها

op	y upuate 2014-2013
	٢-٢ - المهارات الذهنية:
2. Y. Intellectual skills:	
By the end of the program, the candidate s	should be able to
2. 7.1. Data Interpretation acquired	٢-٢-١ تحليل وتقييم المعلومات في مجال التخصص
through history taking to reach a	والقياس عليها والاستباط منها
provisional diagnosis for ophthalmologic diseases	
2. Y.2. Selection from different diagnostic	٢-٢-٢ حل المشاكل المتخصصة استنادا على
alternatives the ones that help reaching	المعطيات المتاحة
a final diagnosis for ophthalmologic	
problems	
2. Y.3. Conduction of a research study	٢-٢-٣ اجراء دراسات بحثية تضيف الى المعارف
and /or write a scientific study on a	
research problem	
2.7.7. Reading and evaluating research	٢-٢-٤ صياغة أوراق علمية
and issues related to the ophthalmology	
2. Y.4. Risk assessment in professional	٢-٢-٥ تقييم المخاطر في الممارسات المهنية
practices in the field of ophthalmology	
and methods of risk management.	
2.2.9 Developing new tools and methods	٢-٢-٢ التخطيط لتطوير الأداء في مجال التخصص
in ophthalmic practice	
· ·	g agg og hull ofter alle u
2. 7.6 . Identification ophthalmologic	٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية مختلفة
problems and find solutions to make	291124
proper decisions	

2. 7.8. Link between knowledge for	۲-۲-۸ الابتكار/ الابداع
Professional problems' solving applying	
creative thinking	
2.7.5. Plan to improve performance in the field of ophthalmology, applying the evidence based medicine	٢-٢-٩ الحوار والنقاش المبني على البراهين والأدلة

٢,٣ ـ مهارات مهنية وعملية:

2. F. Practical & Clinical Skills:-

By the end of the program, the student should be able to perform:

2.3.1 Basic and modern professional	٢,٣,١ اتقان المهارات المهنية الأساسية والحديثة
clinical skills in the area of	في مجال التخصيص
ophthalmology in professional manner.	
With sound knowledge about emerging	
methods that are still under trial.	
2.3.2 Applying technology and recent	٢,٣,٤ استخدام الوسائل التكنولوجية بما يخدم
knowledge to improve ophthalmic	الممارسة المهنية
practice	
2.3.3 Planning to improve his own clinical	7,٣,٥ التخطيط لتطوير الممارسة المهنية وتنمية
practice and his colleagues	أداء الآخرين
	۲,۳,۲ كتابة و تقييم التقارير المهنية
2.3.4. Write and evaluate medical	
reports.	
2.3.5 . Evaluate and develop methods and	٢,٣,٣ تقييم و تطوير الطرق والأدوات القائمة في
tools existing in the area of	مجال التخصيص
	ı

in b opininalinology	, «թատա =
ophthalmology	
	.2.4 مهارات عامة :
2.4. General and transferable skills:	
By the end of the program the graduate w	vill be able to have:
	I start to the terms of the start of the sta
2.4.1 Active communication using	٢,٤,١ التواصل الفعال بأنواعه المختلفة
different sources	
2.4.2. Usage of information technology	۲,٤,۲ استخدام تكنولوجيا المعلومات بما يخدم
to serve the development of professional	تطوير الممارسة المهنية
practice.	
2.4.3 . Developing rules and indications	٢,٤,٣ تعليم الأخرين وتقييم أدائهم
for assessing the performance of others	
1.1.1.1.1.	e ti teti eiti eeti y z z
2.4.4 . Assessment and identification of	٢,٤,٤ التقييم الذاتي والتعلم المستمر
his personal learning needs and	
continuous self learning skills	
2.4.5 . Teamwork, and team leadership in	۲,٤,٦ العمل في فريق و قيادة فرق العمل
various professional contexts	
Tarious professional contexts	
2.d.6 . Using different resources to obtain	٢,٤,٥ استخدام المصادر المختلفة للحصول على
information	المعلومات والمعارف
2.d.7. Efficient Time management.	۲,٤,۷ ادارة اللقاءات العلمية والقدرة على ادارة
	الوقت

ملحق 4: مصفو فة مضاهاة المعايير الأكاديمية للبرنامج و أهداف و نواتج تعلم البرنامج

أهداف البرنامج	المعايير الأكاديمية لبرنامج دكتوراة طب وجراحة العين (مواصفات الخريج)
1.1	المعايير الأكاديمية لبرنامج دكتوراة طب وجراحة العين (مواصفات الخريج) 1-1 Mastering essentials and advances in ophthalmic research
1.2	1-2 Updating his ophthalmic knowledge and practice
1.3	1-3Analyzing and integrating data obtained from history taking, clinical examination and investigations properly for ideal management of the ophthalmic patient .
1.4	1-4 Integrating other medical specialties and developing links between ophthalmic practice
1.5	1-5 coping with current challenges and new issues in the ophthalmic practice
1.6	1-6Developing creative methods in dealing with ophthalmic problems
1.7	1-7Mastering wide variety of ophthalmic surgeries
1.8	1-8Applying the evidence-based medicine in his practice
1.9	1-9 Developing new methods in practicing ophthalmology
1.10	1-10 Communicating with colleagues in different ophthalmic centers to improve his knowledge
1.11	1-11 Make benefit of recent technology in ophthalmic practice
1.12	1-12Leading a team work and making proper decisions
1.13	1-13 Attending conferences, seminars and workshops with active participation in their activities
1.14	1-14 Using available resources and developing new resources to improve the ophthalmic practice
1.15	1-15Sharing in community development and providing solutions for its needs
1.16	1-16Committing ethical research behavior and decency
1.17	1-17Training the candidates and colleagues for proper methods of clinical examination and management to provide decision making skills for proper evaluation of the ophthalmic cases

							نامج	ء البر	ج تعلد	نوات								المعايير
							<u>ی</u>	<u>، ببو</u> والف	<u>عرفة</u>	نوات <u>ع</u> الم								المعايير الأكاديمية للبرنامج
																		للبرنامج
2.a.18	2.a.17	2.a.16	2.a.15	2.a.14	2.a.13	2.a.12	2.a.11	2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1	- C
							>										٧	: المعرفة والفهم أ. By the end of the program, the candidate should be able to have sound knowledge about: 2.1.1. The normal structure and function of the human eye on
																		the macroscopic and microscopic levels.
							٧									٧		2.1.2. The normal growth and development of the human eye. Along with the genetic basis of development and effects of gene mutation in various phases of development.
							√				V			٧	V			2.1.3. Abnormal structure, function, growth and development of human eye and recent modalities in gene therapy 2.1.4. Optics of the human eye
											٧		٧					2.a.5. Relations between surgical diseases and the eye background of diseases

			1	1	-	1		-9,				n		
								٧		٧				2.1a.6 . Relations
														between medical
														diseases and the
														eye, life
														threatening
														conditions and
														syndromes with
														fatal
														manifestations or
														possible
														•
														complications.
									٧					2.1.7 . Relations
														between
														neurological
														diseases and the
														eye
								٧						2.1.8 . Natural
														history of
														ophthalmologic
														diseases
							٧							2.1.9. Aetiology
														and
														pathophysiology
														of
														ophthalmologic
														diseases.
						٧								2.1.10 . Methods
														of eye health and
														preventing its
														illness, with rules
														about health
														education for the
														patient, parents
														and health care
													-	providers.
					٧									2.1.11 . Clinical
														picture and
														differential
														diagnosis of
														ophthalmologic
														illness, and
														uncommon or
														non-classic
														presentation
				٧				٧			٧			2.1.12 Concepts
														in the common
														diagnostic and
<u> </u>	l .	ı	Ĭ	Ĭ		II .	ll	1	ll		ll	ll	ll	

												laboratory
												techniques
												•
												necessary to establish
												diagnosis of
												ophthalmologic
												illnesses.
					٧							2.1.13 Concepts
												in the various
												therapeutic
												methods/alterna
												tives used for
												ophthalmologic
												diseases
			٧									2.1.14 Scientific
												development in
												the field of
												ophthalmology.
				٧	٧							2.1.15 Mutual
												influence
												between
												professional
												practice and its
												impacts on the
												environment.
		٧										2.1.16. Principles
												and
												fundamentals of
												ethics and legal
												aspects of
												professional
												practice in the
												field of
												ophthalmology.
	٧											2.1.17. Principles
												and
												fundamentals of
												quality of
												professional
												practice in the
												field of
												ophthalmology
٧												2.1.18.
												Principles, basics
												and ethics of
												scientific
												research

			امج	، البرد	ج تعلم	نوات			المعايير الأكاديمية للبرنامج
	Intellectual skills								
2.b.9	2.b.8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1	
								٧	: ب ـ القدرات الذهنية : By the end of the program, the candidate should be able to to gain sufficient skills about: 2.2.1. Data Interpretation acquired through history taking to reach a provisional diagnosis for ophthalmologic diseases.
							٧		2.2.2 . Selection from different diagnostic alternatives the ones that help reaching a final diagnosis for ophthalmologic problems
		٧			-1	٧			2.2.3. Conduction of a research study and /or write a scientific study on a research problem
					٧				2.2.4 . Risk assessment in professional practices in the field of ophthalmology and methods of risk management.
	٧			٧					2.2.5 Plan to improve performance in the field of ophthalmology
			٧						2.2.6 Identification ophthalmologic problems and find solutions.
		٧							2.2.7. Reading of research and issues related to the ophthalmology
	٧								2.2.8. Link between knowledge for Professional problems' solving
٧									2.2.9 Developing new tools and methods in ophthalmic practice

	رنامج	,				المعايير الأكاديمية للبرنامج
Prac	tical	& Cl	inica	al Ski	lls	
	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	
					٧	: ج ـ مهارات مهنیة و عملیة: By the end of the program, the candidate should be able to perform 2.3.1. Basic and modern professional clinical skills in the area of ophthalmology in professional manner. With sound knowledge about emerging methods that are still under trial.
				٧		2.3.2 . Applying technology and recent knowledge to improve ophthalmic practice.
			٧			2.3.3. Planning to improve his own clinical practice and his colleagues
		٧				2.3.4. Write and evaluate medical reports
	٧					2.3.5. Evaluate and develop methods and tools existing in the area of ophthalmology

	نواتج تعلم البرنامج							المعايير الأكاديمية للبرنامج
Ge	General and transferable skills				erabl	e sk	ills	
	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1	
				٧			٧	د. مهارات عامة : By the end of the program, the candidate should be able to practice:
						٧		2.4.1. Active communication using different sources2.4.2. Usage of information technology to serve the development of professional practice.
	٧				٧			2.4.3. Developing rules and indications for assessing the performance of others.
				٧				2.4.4 . Assessment and identification of his personal learning needs and continuous self learning skills
			٧					2.4.5 Teamwork, and team leadership in various professional contexts.
		٧						2.4.6 Using different resources to obtain knowledge
	٧							2.4.7 Efficient Time management.

ملحق (5) مصفوفة المعارف والمهارات للبرنامج الدراسي

ILOs						12	معارف	ıg -	ndir	sta	ndei	& U	dge	wle	Kno				
urses		2.a .1	2.a .2	2.a .3	2.a .4	2.a .5	2.a .6	2.a .7	2.a .8	2.a .9	2.a. 10	2.a. 11	2.a. 12	2.a. 13	2.a. 14	2.a. 15	2.a. 16	2.a. 17	2.a. 18
A • natom	OP TH 701	V	V	٧									٧				٧		
P • hysiol ogy	OP TH			٧		٧				٧						٧			
Pa • tholog y	OP TH 704			V							٧			٧					
O • ptics	OP TH 703				√				٧						٧	٧			
medici ne	OP TH 705 to	٧	٧				√		V		V	V	V		V	V		V	√
O • phthal mic surger V	OP TH 705 to 720	1	√		٧	√		√		√		√		√	√		√	√	√

	Intel	lectu	ıal Skil	ILOs	Courses & codes Courses					
2.b.9	2.b.8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1		
٧		٧				٧	٧		OPTH 701	Anatomy •
	٧		1				V		OPTH 702	Physiology •
			٧			V	٧		OPTH 704	Pathology •
٧				V					OPTH 703	Optics •
٧	٧	٧	٧	V	٧	V	V	V	OPTH 706	Ophthalmic medicine •
√	٧		٧	٧	√	٧	$\sqrt{}$	٧	OPTH 707	Ophthalmic surgery •

Pra	actical & (Clinical Ski	مهنية	ILOs				
		2.c.5	2.c.4	2.c.3	2.c.2	2.c.1		Courses & codes
					٧		OPTH 701	Anatomy •
		٧					OPTH 702	Physiology •
							OPTH 704	Pathology •
						$\sqrt{}$	OPTH 703	Optics •
		٧	٧				OPTH 706	Ophthalmic medicine •
		V	٧	$\sqrt{}$			OPTH 707	Ophthalmic surgery •

G	Gene	ral and	d transfe	erable	عامة	مهارات		ILOs	
	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1		Courses & codes
	٧			$\sqrt{}$				OPTH 701	Anatomy •
			√			V	V	OPTH 702	Physiology •
	٧	V	V				V	OPTH 704	Pathology •
				$\sqrt{}$			√	OPTH 703	Optics •
								OPTH 706	Ophthalmic medicine •
			V					OPTH 707	Ophthalmic surgery •

أستاذ المادة رئيس القسم التوقيع : التوقيع : أ.د. عصــــام المتبولي

We certify that all information required to deliver this program is contained in the above specification and will be implemented. All course specification for this program are in place. Program coordinator. Signature & date: Name: Prof. Dr. Essam Elmatbouly, prof. of ophthalmology Head of department. Signature & date: Name: **Prof. Dr. Essam Elmatbouly** Professor & Head of Ophthalmology department Signature & date: Dean: Name: Executive director of the quality assurance unit. Signature & date: Name:

ملحق رقم ٦ توصيف المقررات

Program courses

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First part	Code
1- Anatomy & Embryology	OPHT 701
	OPH1 701
2- Physiology	OPHT 702
3- Optics	OPHT 703
4- Pathology & bacteriology	OPHT 704
Second part	
1-Ophthalmology I	OPHT 705 to 720
2- Ophthalmology II	OPHT 705 to 720





Benha University Faculty of Medicine Department of Ophthalmology.

Course Specification

Course title: Anatomy and Embryology

(Code) OPTH 701

Academic Year (2013 – 2014)

- Department offering the course: Ophthalmology department
- Academic year of M.D program: Level: 1st part
- Date of specification approval:
 - Department council date: 1/9/2013
 - Faculty council no . 356., date 15/9/2013

A) Basic Information:

- Allocated marks: <u>100</u> marks
- Course duration: <u>15</u> weeks of teaching
- Teaching hours: <u>1.5</u> hours/week = <u>37.5</u> total teaching hours

Theoretical: 1 credit hour (15 total hours)

Practical: 0.5 credit hour (22.5 total hours)

B) Professional Information:

1- Overall Aim of the Course:

1-1 Successful candidates will demonstrate to the examiners that they have a detailed and

comprehensive knowledge of anatomy of relevance to the practice of ophthalmology - in

particular the eye, the visual pathways, the orbit and its contents including peri-orbital

structures.

1-2 They are also expected to have an understanding of the embryology, maturation

and normal ageing changes of the human eye.

1-3 They should also be familiar with the anatomy of the head and neck including

neuroanatomy, histology and the use of diagnostic imaging as it pertains to the visual system

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.1 Describe the normal anatomical organization of the human eye, orbit and its contents

and head and neck in terms of cells, tissues, organs and systems

2.a.2 Describe the principal components of the human visual system and their function in

detail

2.a.3 Describe how diagnostic imaging may be used in ophthalmic practice

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2.b. Intellectual Skills:

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

- 2.b.1 integrate clinical findings in ophthalmic diagnosis.
- 2 b.2 formulate proper plans of treatment.
- 2 b 3 Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation , statistical analysis & interpretation

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- 2.c Practical and professional Skills
- By the end of the study of master program in ophthalmology the Graduate should be able to:
- 2.c 1-interpret function of optical system
- 2.c 2-interpret the relation between the eye and surrounding structures like cranium ,sinuses and nasal cavities.
- 2.c3-Master the basic and modern anatomical skills to help in clinical and surgical Skills in future practice.
- 2.d . Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2 d 1Work effectively both individually and in team work.
- 2d 2 Make effective use of information technology eg, Internet
- 2.d.3 Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

Subject	Lectures (hrs)	Hands-on related to surgery	Total (hrs)	% of Total
1- Anatomy of the orbit	1	1.5	2.5	6.67
2- extra-ocular muscle, and periorbita	1	1.5	2.5	6.67
3- Eye lid(blood and nerve supply)	1	1.5	2.5	6.67
4- Sclera and episclera	1	0.5	1.5	5
5- Anatomy,histology and embryology of the Conjunctiva	0.5	1	1.5	5
6- Limbus, anterior chamber, angle and posterior chamber	1	0.5	1.5	5

	_	1	ı	
7- Anatomy and embryology of Uvea(blood and nerve supply)	1	2	3	7.5
8- Anatomy ,histology and embryology of cornea	1.5	2.5	4	10.83
9- Anatomy,histology and embryology of lens	1.5	2.5	4	10.83
10- Anatomy ,histology and embryology of retina and vitreous	1	2.5	3.5	10
11- Blood supply of the eye and its adnexa	0.5	1.5	2	5.83
12- Anatomy,histology and embryology of the lacrimal system	0.5	1.5	2.5	4.17

13- Visual pathway, optic nerve, optic chiasm and relations, optic tract, striate, cortex	1	1.5	2.5	6.67
14- Neuro-anatomy {occulomotor neves (3th, 4 th ,6 th),5 th ,7 th nerve and autonomic nerve supply of the eye}	1	2	5	8.33
Total	15	22.5	37.5	100

4- <u>Teaching and learning methods</u>:

METHODS USED:

- 1. Modified Lectures
- 2. Small group discussions
- 3. **Problem solving.**

TEACHING PLAN:

Lectures: Division of students into 6 groups

<u>1 hour</u>/week, Time from <u>9.0am</u> to <u>10.00 am</u>.

Tutorials: 1 hour /week, Time from 10.0am to 11.30 am

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	1 hour/week;	15 hours	40%
	1 hour		
Tutorial	1 hour/week;	22.5 hours	60%
	0.5 hour		
Total		37.5 hours	100%

5- Students Assessment methods:

5-A) <u>ATTENDANCE CRITERIA</u>:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & understanding, intellectual skills
Oral examination	To assess knowledge & understanding, skills of analysis and discussion
Log book	To assess practical& transferrable skills, attendance of different conferences, thesis discussions, seminars, workshops, attendance of

	scientific lectures.
Seminars	To assess knowledge&skills of analysis and discussion, the candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff.

5-C) <u>TIME SCHEDULE</u>: Faculty bylaws

Exam	Week
1- MCQ & Problem solving exams.	Every 4 wks during the course
2- final exam:	End of the week number 24
a-written	
b-oral	

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks	
1- Final exam:			
a- Written	60	60%	
b- Oral	40	40%	
Total	100	100%	

Other assessment without marks: practical tests and exams, seminars and log book assessment are requirement of the 2nd part exam.

• The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinations description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Practical	Slides
c- Oral	
2- Assignments & other activities	practical books
Total	

6- <u>List of references</u>:

6.1- Essential Books (Text Books)

A. K. Khurana, Indu Khurana Anatomy & Physiology of Eye, 2nd Ed. New delhi (india) 2008

6.2- Recommended Books

Richard S. Snell , <u>Michael A. Lemp</u> Clinical Anatomy of the Eye 2nd Ed. Blackwell science 1998

6.3- Periodicals

British journal of anatomy

Web Sites: www. Innerbody.com

6.4-Additional texts:
M Hogan J Alvarado, J Wedell WB Saunders Histology of the Human Eye, Philadelphia,
1971 (Photocopies of this text are kept by past Part 1 holders)
J Forrester et al The Eye Basic Sciences in Practice (Chapters 1 and 2)Saunders Company
Ltd London 1996.
ML Barr and JA Kiernan The Human Nervous System, An Anatomical Viewpoint (5th Ed)
Harper and Row, Philadelphia 1988
7- Facilities required for teaching and learning:
Facilities used for teaching this course include:
- Lecture halls:
- Small group classes
- Laboratory
- Information technology / AV aids
- Models etc
Course coordinator:
Dr. Khalid gamil
Professor of Ophthalmology
Banha University
Head of Department:

Dr.Essam Elmatbouly

Banha University

Professor of Ophthalmology

Date: 2013-2014





Benha University
Faculty of Medicine
Department of Ophthalmology.

Course Specification

Course title: Physiology_

(Code) OPHT 702

Academic Year (2013-2014)

- Department offering the course: Ophthalmology department
- M.D degree program: Level: 1st part
- Date of specification approval:

-Department council, date: 1/9/2013

- Faculty council no 356 , date : 15/9/2013

A) Basic Information:

• Allocated marks: <u>100</u> marks

Course duration: <u>15</u> weeks of teaching

• **Teaching hours:** <u>1.5</u> hours/week= <u>37.5</u> total teaching hours

- Theoretical: 1 credit hour (15 total hours)
- Practical: 0.5 credit hour (22.5 total hours)

B) Professional Information:

1- Overall Aim of the Course:

1. to prepare an **ophthalmology** physician oriented with the

Physiology of the eye & vision

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

By the end of the study of master program in ophthalmology the Graduate should be able to:

- 2 a 1 Mention the function and mechanisms of protection & physiology of the eye
- 2 a 2know the changes of aqueous humor , intraocular pressure & recognize updated data and researches concerned the eye adnexa and nervous system .
- 2 a 3understand the physiology of binocular vision and its advantages in addition to the visual pathway & field of vision.

2.b. Intellectual Skills:

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

- **2.** b 1 To interpret the physiological function of the eye with changes which happen in diseases.
- <u>2</u> b 2To know the ocular circulation and its relation to the general circulation of the body.
- 2 b 3Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation, statistical analysis & interpretation.

2.c Practical and professional Skills

By the end of the study of MD program in ophthalmology, the Graduate should be able to:

- 2.c.1 know the normal physiology of ocular tissues as an organ concerned with vision.
- 2.c.2 know how the adnexae protect the eye.
- 2.c.3 Assess methods and tools existing in the area of ophthalmology as visual field ,ocular motility,retinal functions and electrophysiology.

2.d. Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2d1 Work effectively both individually and in team work .
- 2d2 Make effective use of information technology eg, Internet
- 2d3 Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Total teaching (hrs)	% of Total
aqueous humor & intraocular pressure	0.5	1.5	2	5.83
protective mechanisms of the eye	0.25	0.25	0.5	1.5
accommodation of the eye	0.25	0.5	0.75	2.1
Normal & abnormal refraction of the Eye	0.25	0.5	0.75	2.1
pupilary reflexes	0.5	0.5	1	2.4
photoreceptors & mechanism of its excitation	0.25	0.5	0.75	2.1
light & dark adaptation	0.25	0.5	0.75	2.1
color vision	0.5	0.75	1.25	3
visual pathway & field of vision	0.5	0.75	1.25	3
Binocular muscular coordination	0.5	0.75	1.25	3
visual acuity & factors affecting it	0.75	1	1.75	4.8
binocular vision and its advantages & requirements	0.5	0.75	1.25	3
eye movement & its higher control	0.5	0.75	1.75	4.8

Total	15	22.5	37.5	100]
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4- Teaching and learning methods:

METHODS USED:

- 4. Modified Lectures
- 5. Small group discussions
- 6. Problem solving.

TEACHING PLAN:

Lectures: Division of students into 1 group

<u>1 hour</u> /week, Time from <u>9.0am</u> to <u>10.0 am</u> .

Tutorials: 1 hour /week, Time from 11.0am to 12:30 pm

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	<u>1</u> hour/week;	15	40%
	1 hour		
Tutorial	<u>0.5</u> hour/week;	22.5	60%
	1 1/2 hour		
Total		37.5	100%

<u>5- Students Assessment methods:</u>

5-A) ATTENDANCE CRITERIA:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)	
Written examination	To assess knowledge & understanding, intellectual skills	
Oral examination	To assess knowledge & understanding, skills of analysis	

	and discussion	
Practical examination	To assess descriptive & diagnostic abilities and theory	
	application (intellectual skills) and professional / practical	
	skills & general and transferable skills	

5-C) TIME SCHEDULE: Faculty bylaws

• Two sets of exams: 1st in April – 2nd in October.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- Final exam:		
a- Written	60	60%
b- Oral	40	40%
Total	100	100%

[•] The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Oral	
2- Assignments &	practical books
other activities	
Total	

6- List of references:

- 6.1Course notes: lecture notes prepared by the staff members of the department
- 6.2- Essential Books (Text Books): Francis Heed Adler, Robert A. Moses

Adler's Physiology of the eye: clinical application 2nd Ed, Mosby 2003

6.3- Recommended Books:

A. K. Khurana, Indu Khurana Anatomy & Physiology of Eye, 2nd Ed. New delhi (india) 2008

6.4: Periodicals, and Web Sites:

American journal of physiology

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Lecture halls:
- Small group classes
- Laboratory
- Information technology / AV aids
- Models etc

Course Coordinators: •

Dr. Ayman Nasar •

Professor of Ophthalmology •

Banha University •

Head of Department:

Dr.Essam Elmatbouly

Professor of Ophthalmology Banha University

Date: 2013-2014





Course Specification

Course title: : Pathology and Bacteriology

(Code) OPHTH 704

Academic Year (2013-2014)

• Department offering the course: Ophthalmology department

• MD degree of Ophthalmology: Level: 1st part

Date of specification approval:

-Department council, date: 1/9/2013

- Faculty council no 356, date: 15/9/2013

A) Basic Information:

Allocated marks: 100 marks

Course duration: <u>15</u> weeks of teaching

• **Teaching hours:** <u>1.5</u> hours/week = <u>37.5</u> teaching hours

Theoretical: 1 credit hour (total 15 hours)

Practical: 0.5 credit hour (total 22.5 hours)

B) **Professional Information**:

1- Overall Aim of the Course:

- 1.1- To educate students the basic features of Ocular Microbiology :bacteriology, virology, mycology and parasitolog
- 1.2- To familiarize students with the common ocular infections, their microbial causes, as well as laboratory diagnosis.
- 1.3- To familiarize students with the pathologic bases of diseases which affect the eye and ocular adnexae.
 - 1.4- To promote lifelong competencies necessary for continuous professional development.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

2.a 1-Ocular Microbiology:

- 2.a .1.1-Understand pathogenicity of microorganisms of ocular importance.
- 2.a.1..2- Describe the morphology, culture and virulence factors of microorganisms of ocular importance.

2.a.2- Ocular Pathology:

- 2.a.2.1- Define and discuss the main disease categories that may affect the eye and ocular adnexae as well as the basic mechanisms underlying these disorders (etiology, pathogenesis & natural history).
- 2.a.2.2- Describe the morphologic (gross & microscopic) changes occurring as a result of such disease processes in the eye and ocular adnexae.
- 2.a.2.3- Determine the fate & complications of each particular disease

2.c. Intellectual Skills:

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

2.b.1To integrate clinical findings in ophthalmic diagnosis.

- 2.b.2To formulate proper plans of treatment.
- 2.b.3Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation , statistical analysis & interpretation .

2.c. Practical and professional Skills

By the end of the study of master program in ophthalmology, the Graduate should be able to:

- 2.c.1-know the gross lesion of different structures of the eye ball and its adnexa.
- 2.c.2-document the clinical picture with the pathological findings of specimen to reach the proper diagnosis.
- 2.c.3-differentiate the pathological lesions into inflammatory ,degenerative or malignant
- 2.c.4-Assess data show slides covering Ocular microbiology and pathology (General & Systemic)

2.d. Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2.d.1Work effectively both individually and in team work.
- 2.d.2Make effective use of information technology eg, Internet
- 2.d.3Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

3-A Topics: covered in lectures

I) Ocular Microbiology

- Ocular Bacteriology
 - Introduction to bacteriology
 - Bacteria of ocular importance
 - Staphylococci

- Streptococcus pyogenes & streptococcus pneumonia
- Neisseria
- Corynebacterium diphtheria & diphteroids
- Actinomyces & nocardia
- Pseudomonas aeruginosa & hemophilus
- Moraxella
- Enterobacteriaceae (Proteus, Klebsiella, Escherichia)
- Mycobacterium T.B & treponema palidum
- > Chlamydia
- Ocular virology:
 - > Introduction to virology
 - ➤ Viruses of ocular importance:
 - Herpes simplex & H. zoster
 - Adenovirus
 - Molluscum contagiosum
 - HIV & CMV
- Ocular mycology:
 - > Introduction to mycology
 - > Fungi of ocular importance:
 - Candida alpicans
 - Fusarium sp.

- Aspergillus sp.
- Ocular parasites:
 - > Parasites of ocular importance:
 - Protozoa: acanthamoeba, toxoplasma gondii
 - Helminthes: toxocara canis, onchocerciasis (river blindness)
 - Ocular myiasis

II. Ocular pathology

A) General pathology:

- 1. Introduction, cell injury, accumulations & depositions
- Cell response to injury: degenerative changes, necrosis & apoptosis
- Accumulations, depositions, abnormal calcifications & pigmentations
- Diseases of ageing
- 2. Inflammation & repair:
- Acute inflammation and Chronic inflammation
- Repair: regeneration organization & healing in special conditions
- 3. Growth disturbances & neoplasia:
- Hyperplasia metaplasia dysplasia hypertrophy atrophy hamartoma
- Benign and Malignant tumors

4. Ocular immunology: Immunity & hypersensitivity Autoimmunity Immunodeficiency

B- Systemic / special pathology:

All diseases in each adnexal or ocular structure are studied covering:

- a) Definition, incidence of disease and its epidemiology
- b) Etiology and pathogenesis
- c) Morphologic aspects: gross & microscopic changes
- d) Fate & complications
- e) Others (clinical presentation, differential diagnosis, prognosis etc...)

Studied adnexal or ocular structures include the following:

- 1. Eyelid & conjunctiva
- 2. Lacrimal system & orbit
- 3. Cornea & sclera
- 4. Uvea
- 5. Intraocular tumors
- 6. Cataract
- 7. Glaucoma
- 8. Retina & vitreous
- 9. Optic nerve
- 10. Wound healing and ocular trauma

11. Congenital & hereditary ophthalmic disorders & phakomatosis

Subject	Total (hrs)	Lectures (hrs)	Practical (hrs)	% of Total
I- Ocular Microbiology				
Ocular Bacteriology	3.75	1.25	2.5	10%
Ocular Virology	1.25	0.5	0.75	3.33%
Ocular Mycology	1.25	0.5	0.75	3.33%
Ocular Parasites	1.25	0.5	0.75	3.33%
total	7.5	2.75	4.75	20%
II. Ocular				
Pathology				
General Pathology	3.75	1.5.	2.25	10%
Introduction, Cell injury, Accumulations & depositions	0.5	0.25	0.25	1.66%
2. Inflammation & Repair	1.25	0.5	0.75	3.33%
3. Growth Disturbances & Neoplasia	1.25	0.5	0.75	3.33%
4. Ocular Immunology	0.75	0.25	0.5	1.66%
Special Pathology	26.25	10.5	15.75	70 %
1.Eye lid & Conjunctiva	4.25	2	2.25	11.6 %
2.Lacrimal system & Orbit	1.75	0.75	1	5%
3. Cornea and sclera	1.75	0.75	1	5%

4.Uvea	1.5	0.5	1	4.2%
5. Intraocular	5.5	2.5	3	15%
tumors				
6. Cataract	1.5	0.5	1	4.2%
7. Glaucoma	1.5	0.5	1	4.2%
8. Retina and	3.25	1.75	1.5	8.4%
vitreous				
9. Optic nerve	1.5	0.5	1	4.2%
10. Wound healing	1.5	0.5	1	4.2%
and Ocular trauma				
11.Oph.gentic dis.&	1.5	0.5	1	4.2%
Phakomatosis				
Total	37.5	15	22.5	100%

4- Teaching and learning methods:

METHODS USED:

7. Modified Lectures

8. Small group discussions

9. Problem solving.

10. Data show slides: Microbiology and Pathology of the eye.

TEACHING PLAN:

Lectures: 1 hour /week, Time from 9.0 AM to 10.0 AM

Practical classes: 1 hour /week, Time from 10:30 AM to 12.00 PM

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	<u>\hour</u> /week ;each 1 hour	15	40%
Practical/Tutorial	<u>1</u> hour /week;each 1.5 hr	22.5	60%

5- Students Assessment methods:

5-A) Attendance Criteria:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & understanding, intellectual skills
Oral examination	To assess knowledge & understanding, skills of analysis and discussion
Practical examination	To assess descriptive & diagnostic abilities and theory application (intellectual skills) and professional / practical skills & general and transferable skills

5-C) TIME SCHEDULE: Faculty by laws

Exam	Week
Final exam	15
a- Written	
b- Practical	
c- Oral	

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks	
Final exam:			
a- Written	50	50%	
b- Practical	20	20%	
c- Oral	30	30%	
Total	100	100%	

The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Practical	Slides
c- Oral	
2- Assignments &	practical books
other activities	
Total	

6- List of references:

I. Ocular Microbiology

- Ocular therapeutics hand book. A clinical manual. By Bruce E. et al (Ch.1:ocular microbiology & Ch.3: ophthalmologic Lab & diagnostic tests).
 2nd edition, 2005, Lippincott Williams & Wilkins.
- 2. Ocular Infection By Seal D. et al. 2nd edition, 2007, Informa Health Care USA.

II. Ocular Pathology

- 1. Ocular Pathology Text book. Ed. Yanoff M.
- 2. Ophthalmic Pathology: An Atlas, Textbook. Ed. Spencer W H
- 3. Basic and Clinical science Course-American Academy of Ophthalmology-Section 4
- 4. Ophthalmic Pathology An illustrated guide for Clinicians. Ed. Sehu KW and Lee WR. Blackwell Publishing.
- 5. Principles and Practice of Ophthalmology. Ed. Albert DM. Jakobiec FA, Vol.4

Related web sites

- http://eyepathologist.com
- http://www.ouhsc.edu/ocupath/main.html
- http://pathmicro.med.sc.edu/book/welcome.htm

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

Lecture halls:

- Small group classes
- Laboratory
- Information technology / AV aids
- Models etc

Course Coordinators:

Dr. Tarek Mohammad Zaghloul

Professor of Ophthalmology Banha University

.

Head of Department:

Dr.Essam Elmatbouly

Professor of Ophthalmology Banha University

Date: 2013-2014





Benha University

Faculty of Medicine

Department of Ophthalmology.

Course Specification

Course title: Optics

(Code) OPTH 703

Academic Year (2013 - 2014)

- **Department offering the course:** Ophthalmology department
- Academic year of M.D. program: Level: 1st part
- Date of specification approval:

-Department council, date: 1/9/2013

- Faculty council no 356, date: 15/9/2013

A) Basic Information:

- Allocated marks: <u>100</u> marks
- Course duration: <u>15</u> weeks of teaching
- Teaching hours: <u>1.5 hours/week = 37.5</u> total teaching hours
 - Theoretical: 1 credit hour (15 total hours)
 - Practical: 0.5 credit hour (22.5 total hours)

B) Professional Information:

1- Overall Aim of the Course:

The broad aim of the course is to educate students about Optics of the Eye also to provide the students with updated data and researches concerned the eye, including the application of physical, geometric and physiological optics to clinical management and an appreciation of the principles of instrumentation and clinical practice in these areas.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

By the end of the study the Graduate should be able to:

- 2.a.1- Describe the physical properties of light and lasers
- 2.a.2- Describe the geometrical principles of light and the laws governing lights interaction with

materials.

2.a.3-Describe the physiological optics of the human eye and optical instruments and how to test this.

2.b Intellectual Skills:

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

- 2 .b.1To integrate clinical findings in ophthalmic diagnosis .
- 2.b.2To formulate proper plans of treatment.
 - 2.b.3Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation, statistical analysis & interpretation

2.c. Practical and professional Skills

By the end of the study the Graduate should be able to:

- 2.c.1-Master of the basic and modern professional clinical skills in the area of optics and refraction.
- 2.c.2-Assess methods and tools existing in the area of ophthalmology.

2.d. Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2.d.1 Work effectively both individually and in team work .
- 2.d.2 Make effective use of information technology eg, Internet
- 2.d.3 Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Total (hrs)	% of Total
Properties of light		0.5	0.5	1.39%
Reflection of light		0.5	0.5	1.39
Refraction of light		0.5	0.5	1.39%
Prisms	0.5	0.5	1	2.78%
Refraction by lenses	0.5	0.5	1	2.78%

		1		
Refraction of the eye	0.5	0.5	1	2.78%
Aberrations	0.5	0.5	1	2.78%
Ametropia	0.5	1.5	2	5.56%
Accommodation	0.5	0.5	1	2.78%
Binocular muscular coordination	0.25	0.75	1	2.78%
Retinoscopy	0.5	1.5	2	5.56%
Ophthalmoscopy	0.5	1.5	2	5.56%
Verification of refraction	1	1.5	2.5	6.94%
Spectacles	1	1.5	2.5	6.94%
Contact lenses	1	1.5	2.5	6.94%
Intraocular lenses	1	1.5	2.5	6.94%
Low vision aids	0.5	1	1.5	4.17%
Ophthalmoptic instruments:	4	7.5	11.5	30.56%
Microscopy,				
operating microscope				
, Slit Lamp , Fundus				
Camera				
Refractometers,				
Keratometers,				

Orthoptic, and laser				
Total	15	22.5	37.5	100%

4- Teaching and learning methods:

METHODS USED:

- 1. Lectures
- 2. Small group discussions
- 3. Workshops
- 4. Practical classes: Data show slides: optics of the eye.
- 5. Seminars
- 6. Tutorial

TEACHING PLAN:

Lectures: Division of students into 2 groups

1 HOUR /week, Time from 9.0am to 10.0 am.

Tutorials: 2 HOUR /week, Time from 10.0am to 10:45 am

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	_1HOUR/week;	15	40%
Tutorial	2 hour / week; each 34 hr	22.5	60%

Total	37.5	100%
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5- Students Assessment methods:

5-A) <u>ATTENDANCE CRITERIA</u>:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & understanding, intellectual skills
Oral examination	To assess knowledge & understanding, skills of analysis and discussion
Practical examination	To assess descriptive & diagnostic abilities and theory application (intellectual skills) and professional / practical skills & general and transferable skills

5-C) **TIME SCHEDULE**: Faculty bylaws

Exam	Week
4- Practical exam	24
5- Final exam	24

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- Final exam:		
a- Written	50	50%
b- Practical	25	25%
c- Oral	25	25%
Total	100	100%

• The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Practical	
c- Oral	
2- Assignments & other activities	practical books
Total	

6- <u>List of references</u>:

- **6.1- Essential Books (Text Books)**
- **6.1Course notes: lecture notes prepared by the staff members of the**

department

6.2- Essential Books (Text Books)

Alrefaay clinical optics of the eye, 2009

6.3- Recommended Books

Clinical Optics AR Elkington and HJ Frank, Blackwell Science, 3rd Ed, 2000

Optics, Refraction and Contact Lenses, Basic and Clinical Science Course, American

Academy Ophthalmology, 2003

Optics MH Freeman, Butterworths-Heinemann Medical; 10th Ed, 1990

Optics for Clinicians M Rubin, Triad Publishing, 3rd Ed, 1993

6.4: Periodicals, and Web Sites:

American journal of optics and refraction

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Lecture halls: available in the department
- Small group classes
- Information technology / audio visual aids
- Models etc

Course Coordinators:
Dr. Essam El Matbouly
Professor of Ophthalmology
Banha University
Head of Department:
Dr. Essam El matbouly
Professor of Ophthalmology
Banha University

Date:

2013-2014





Benha University Faculty of Medicine Department of Ophthalmology.

Course Specification

Course title: Medical Ophthalmology

(Code) OPHT 706

Academic Year (2013-2014)

• **Department offering the course:** Ophthalmology department

• **MD degree program:** Level: 2nd part

Date of specification approval:

-Department council, date: 1/9/2013

- Faculty council no 356 , date : 15/9/2013

A) Basic Information:

• Allocated marks: 300 marks

Course duration: 45 weeks of teaching

• **Teaching hours:** 12 hours/week = 810 total teaching hours

Theoretical: 9 credit hour (405 total hours)

Practical: 3 credit hour (405 total hours)

B) **Professional Information**:

1- Overall Aim of the Course:

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

1.1- Deal with common ophthalmological conditions on the basis of adequate history taking, physical examination

interpretation of relevant supportive investigations and Management.

- 1.2- Deal with ocular emergencies.
- 1.3- Perceive and integrate progress in ophthalmological technology.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

- 2.a.1 Demonstrate in depth knowledge and understanding of theories, basics and updated biomedical, clinical and socio-behavioral science relevant to his specialty as well as the evidence based application of this knowledge to patient care.
- 2.a.2 Know in depth the fundamentals of ophthalmic diseases
- 2.a.3 Know the ethics of scientific research
- 2.a.4 Mention the basis of high quality assurance and quality improvement in ophthalmology
- 2.a.5 Understand in detail investigations to be ordered to help reaching diagnosis (lab, ophthalmic investigations).
- 2.a.6 Describe the various therapeutic methods and other alternative use.
- 2.a.7 Know the principles and fundamentals of prevention control and avoiding further complications
- 2.a.8 Know the principles, basics and ethics of scientific research.

2.b. Intellectual Skills:

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

- 2.b.1To integrate clinical findings in ophthalmic diagnosis.
- 2.b.2To formulate proper plans of treatment.
- 2.b. 3 Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation, statistical analysis
- & interpretation.

2.c. Practical and professional Skills

By the end of the study of master program in ophthalmology the Graduate should be able to:

- 2.c.1 Gaining clinical skills in writing full sheet for patient and how to interpret data to reach diagnosis.
- 2.c.2 Use of direct and indirect ophthalmoscope and interpretation of fundus picture.
- 2.c.3 Interpretation of clinical findings with the history of the patient illness.
- 2.c.4 To differentiate between ophthalmological symptoms and other medical diseases.
- 2.c.5 Ask for further investigations and laboratory test to help in reaching the proper diagnosis.
- 2.c.6 Know the differential diagnosis of such illnesses .
- 2.c.7 To establish a defentive clinical diagnosis and initiating appropriate treatment.
- 2.c.8 Mastering the use of different diagnostic tools used in ophthalmology (Fluroscein angiography, A & B-scan US & OCT)
- 2.c.9 Sorting out ocular diseases early in the course of the evaluation of importantance for avoiding unnecessarly and often expensive investigations.
- 2.c.10 Interpretation of clinical findings and results of photostress test, color vision, field chart, flurosceine angiography, UBM , OCT , ORA , corneal topography & electrical physiology)

2.d. Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2.d.1 Work effectively both individually and in team work.
- 2.d.2 Make effective use of information technology eg, Internet
- 2.d.3 Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total (hrs)	% of Total
Introduction: Ocular	14	7	7	28	3.47%
Symptoms and Signs					
Diseases of the eye	26	13	13	52	6.6%
lids: blepharitis,					

allergy, lid retraction, madarosis, blepharospasm, infections Disease of the Cornea: 30 14 14 58 7.18% Keratitis (Bacterial, Viral, Mycotic), pigmentation, precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the 22 10 10 42 5.21% Conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous disorders, dry eye						
blepharospasm, infections Disease of the Cornea: 30	= -					
infections Disease of the Cornea: 30 14 14 58 7.18% Keratitis (Bacterial, Viral, Mycotic), pigmentation, precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous						
Disease of the Cornea: 30						
Keratitis (Bacterial, Viral, Mycotic), pigmentation, precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	infections					
Viral, Mycotic), pigmentation, precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous		30	14	14	58	7.18%
pigmentation, precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	•					
precipitates, peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	Viral, Mycotic),					
peripheral corneal disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	pigmentation,					
disorders, degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	precipitates,					
degenerations, dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	peripheral corneal					
dystrophies, ectasia Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous						
Diseases of the conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	degenerations,					
conjunctiva: conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	dystrophies, ectasia					
conjunctivitis (Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	Diseases of the	22	10	10	42	5.21%
(Bacterial, Viral, Chlamydial, Allergic) Mucocutaneous	conjunctiva:					
Chlamydial, Allergic) Mucocutaneous	conjunctivitis					
Mucocutaneous	(Bacterial, Viral,					
	Chlamydial, Allergic)					
disorders, dry eve	Mucocutaneous					
	disorders, dry eye					
Diseases of the 22 10 10 42 5.21%	Diseases of the	22	10	10	42	5.21%
lacrimal apparatus:	lacrimal apparatus:					
dacryoadenitis,	dacryoadenitis,					
dacryocystitis,	dacryocystitis,					
canaliculitis	canaliculitis					
Glaucomas: ocular 39 20 20 79 9.75%	Glaucomas: ocular	39	20	20	79	9.75%
hypertension, primary	hypertension, primary					
open angle glaucoma,	open angle glaucoma,					
normotensive	normotensive					
glaucoma, primaery	glaucoma, primaery					
angle closure	angle closure					
glaucoma, secondary	glaucoma, secondary					
open angle glaucoma,	open angle glaucoma,					
secondary angle	secondary angle					
closure glaucoma,	closure glaucoma,					
infantile & juvenile	infantile & juvenile					
glaucoma	glaucoma					

Diseases of Sclera :	22	11	11	44	5.44%
Scleritis- Episcleritis					
Disease of Uvea:	24	13	13	50	6.48%
Uveitis (Infective, Non-					
infective, Chrornic)					
Diseases of Retina:	39	18	18	75	9.26%
Dystrophies					
(Receptors, Retinal					
pigment epithelium &					
Choroidal (
Degenerations					
Vascular:					
Retinopathies					
(Diabetic,					
Hypertensive, Renal,					
Toxaemia,					
Arteriosclerotic),					
retinal artery					
occlusion & retinal					
vein occlusion					
Diseases of optic	32	14	14	60	7.29%
nerve: Neuropathy,					
Neuritis, Papilledema,					
congenital.					
Strabismus:	36	18	18	72	9.03%
amblyopia, clinical					
evaluation, horizontal					
& vertical patterns,					
alphabet patterns					
Disease of the Orbit:	22	11	11	44	5.44%
thyroid eye diseases,					
infections,					
inflammations					
Diseases of Macula:	34	17	17	68	8.45%
age related macular					
degeneration, centrall					
serous chorio					
	t	<u>l</u>	<u> </u>	<u> </u>	<u> </u>

	1	1	1		,
retinopathy, Cystoid					
macular oedema,					
Maculopathies.					
Systemic diseases and	24	11	11	46	5.67%
the eye: Metabolic					
(Diabetes- Gout)-					
Hypovitaminosis-					
Endocrinal (Pituitary-					
Thyroid- Parathyroid-					
Thymus)- Blood					
diseases- Collagen					
diseases (systemic					
lupus erythematous –					
rheumatic arthritis -					
Gaint cell arthritis)-					
Chronic					
granulomatous					
diseases (Tuberculosis					
, syphilis, Leprosy &					
Sarcoidosis)-					
Phacomatoses-					
Musculer diseases.					
Ocular therapeutics	26	12	12	50	6.25%
Total	405	202.5	202.5	810	100%

4- Teaching and learning methods:

METHODS USED:

1. Modified Lectures

2.	Small	group	discu	ussions
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- 3. Problem solving.
- 4. Practical classes
- 5. Data show slides

TEACHING PLAN:

Lectures: Division of students into 2 groups

<u>3 hour</u> /week, Time from <u>9.0am</u> to <u>12.00 pm</u> .

Tutorials: 2 hours /week, Time from 12.00 pm to 2:15 pm

Practical classes <u>2 hours</u> /week, Time from <u>12.00 pm</u> to <u>2:15 pm</u>

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	<u>3 hours</u> /week;	405	50%
Practical	2 hours /week	202.5	25%
Tutorial	<u>2 hours</u> /week	202.5	25%
Total		810	100%

5- Students Assessment methods:

5-A) <u>ATTENDANCE CRITERIA</u>:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & understanding, intellectual skills
Oral examination	To assess knowledge & understanding, skills of analysis and discussion
Practical examination	To assess descriptive & diagnostic abilities and theory application (intellectual skills) and professional / practical skills & general and transferable skills

5-C) TIME SCHEDULE: Faculty bylaws

Exam	Week
Final exam	72 weeks after complete passing the 1st
	part
Practical exam	After finishing the written exam
Thesis	Not less than 24 weeks after complete
	passing the 2nd part
Assignments & other activities	Conferences, scientific meetings & work
	shops

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- Final exam:		
a- Written	150	50%
b- Practical	75	25%
c- Oral	75	25%
Total	300	100%

The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinations description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Practical	Slides, case examination, diagnosis, interpretation &
	investigations
c- Oral	
2- Assignments &	practical books, conferences
other activities	
Total	

6- List of references:

6.1- Course Notes

Lecture notes prepared by staff members in the department

- 6.2- Essential Books (Text Books)
- Jack J. Kanski, Brad Bowling Clinical Ophthalmology: A Systematic Approach Kanski textbook of ophthalmology 7th Ed. Elsevier 2011
- **Myron Yanoff, Jay S. Duker** Ophthalmology: Expert Consult, Yanoff, Ophthalmology 3rd Ed. Mosby 2008

6.3- Recommended Books:

• William Tasman, Edward A. Jaeger Duane's Ophthalmology Duane's clinical ophthalmology, Wolters Kluwer 2013

- Bruce E. Onofrey, Leonid Skorin, Jr., Nicky R. Holdeman **Ocular Therapeutics Handbook: A Clinical Manual**, Lippincott Williams & Wilkins, 2005
- 6.4- periodicals and websites:
- British Journal of ophthalmology bjo.bmj.com
- American journal of ophthalmology www.ajo.com

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Lecture halls:
- Small group classes
- Laboratory
- Information technology / AV aids
- Models etc

Course Coordinators:

Dr. Ayman Nassar

Professor of Ophthalmology

Banha University

Head of Department:

Dr . Essam Elmatbouly

Professor of Ophthalmology Banha University

Date: 2013-2014





Benha University Faculty of Medicine Department of Ophthalmology.

Course Specification

Course title: ophthalmic surgery

(Code) OPHT 705 - 714

Academic Year (2013-2014)

- **Department offering the course:** Ophthalmology department
- **M.D degree program:** Level: 2nd part
- Date of specification approval:

-Department council, date: 1/9/2013

- Faculty council no 356 , date: 15/9/2013

A) Basic Information:

• Allocated marks: 300 marks

Course duration: 45 weeks of teaching

• Teaching hours: 12 hours/week = 810 total teaching hours

Theoretical: 9 credit hour (405 total hours)

Practical: 3 credit hour (405 total hours)

B) Professional Information:

1- Overall Aim of the Course:

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

- 1.1- Deal with common ophthalmological conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- 1.2- Surgical management of ocular emergencies.
- 1.3- Know and perform surgical management of common ophthalmological diseases .

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

- 2.a.1 Demonstrate in depth knowledge and understanding of theories, basics and updated biomedical, clinical and socio-behavioral science relevant to his specialty as well as the evidence based application of this knowledge to patient care.
- 2.a.2 Know in depth the symptoms of which an ophthalmic patient complain & its analysis
- 2.a.3 Know the signs and manifestations of ophthalmic diseases .
- 2.a.4 Know the ocular manifestations of general medical diseases (D.M, HTN, Thyrotoxicosis)
- 2.a.5 Enumerate concepts in the common diagnostic & laboratory techniques necessary to establish diagnosis of ophthalmic illnesses .
- 2.a.6 know the indications and complications of ophthalmic surgeries.
- 2.a.7 Describe the various therapeutic methods and other alternative use.
- 2.a.8 Know different surgical principles to correct different surgical problems.
- 2.a.9 Know the principles, basics and ethics of scientific research.

2.b. Intellectual Skills:

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

- 2.b.1 To integrate clinical findings in ophthalmic diagnosis.
- 2.b.2 To formulate proper plans of treatment.
- 2.b.3 Link between given data and problem solving.
- 2.b.4 Demonstrate competence in data presentation , statistical analysis & interpretation .

2.c. Practical and professiona Skills

By the end of the study of master program in ophthalmology the Graduate should be able to:

- 2.c.1 Use of different priminary methods of examination and slit lamp, staining of the cornea, shirmer's test, IOP measurement, gonioscopy, AC depth measurement.
- 2.c.2 Use of direct and indirect ophthalmoscope and interpretation of fundus picture.
- 2.c.3 Interpretation of clinical findings with the history of the patient illness.
- 2.c.4 To differentiate between ophthalmological symptoms and other medical diseases .
- 2.c.5 Ask for further investigations and laboratory test to help in reaching the proper diagnosis.
- 2.c.6 Know the differential diagnosis of such illnesses .
- 2.c.7 To establish a defentive clinical diagnosis and initiating appropriate treatment.
- 2.c.8 know and practice different techniques in removal of pterygium and chalazion, cataract and glaucoma surgery and retinal detachment correction.
- 2.c.9 know how to deal with traumatic injuries of the eye and orbit.
- 2.c.10 know how to deal with chemical injuries of the eye and adnexa.

2.d. Communication skills & transferable Skills:

By the end of the program the graduate will be able to:

- 2.d. 1 Work effectively both individually and in team work.
- 2.d.2 Make effective use of information technology eg, Internet
- 2.d.3 Demonsrate self-direction & some originality in taking and solving problem

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total teaching (hrs)	% of Total
General principles of ocular Surgery (sutures,needles,instruments)	20	10	10.5	40.5	5.02
Sterilization and Disinfection(methods used & its principle)	30	8	8.25	36.25	4.48
Ocular anesthesia (peribulbar,retrobulbar,etc)	20	7	6.75	33.75	4.17
surgical diseases of eye Lids(Ectropion,entropion,etc)	30	10	16.75	56.75	7.02
Surgical diseases of the Cornea(perforated corneal ulcer,keratoconus,keratoplasty,corneal&anterior segment trauma&conj.flap surgury)	35	17	20	72.5	8.95

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Surgical diseases of the Conjunctiva(symblepharon,pterygium,etc)	30	15.25	16	61.25	7.56
Surgical disease of the	15	10	10	35	4.32
lacrimal system (dacryocystitis,lacrimal	13		10		1.32
fistula,dacrocystorhinostomy,etc)					
Surgical diseases of the	30	20	15	65	8.02
Lens(cataract,aphakia,sub-					
laxation,IOLs,pediatric cataract					
surgery,postop.care and phaco					
complications)					
Surgical management of	50	25	22.5	97.5	12.04
Glaucoma (Penetrating,non					
penetrating, aqueous tube shunts, coincident					
cataract&glaucoma surgery,surgical ttt for					
developmental glaucoma,laser					
trabecuplasty&PI&cyclophotocoagulation)					
Surgical diseases of the	58	25	25	108	13.35
Retina &vitreous:					
Principals of VR surgery.					
Application of intravitreal drugs.					
Endophthalmitis diagnosis&ttt.					
AMD&macular hole surgury.					
PP lensectomy for retained lens material					
Refractive surgery:	30	15	15	60	7.41
LASIK pt evaluation &selection.					
Laser technology(Excimer&Femto).					
Surface ablation :PRK,LASEK,&Epi-					
LASIK)					
LASIK for					
myopia,hyperopia&astigmatism.					
Phakic IOL.					
Refractive lens exchang.					
Intracorneal rings.					
Biomechanics in refractive surgery.					
Strabismus (Esotropia, exotropia, clinical	20	15.25	1.0	61.25	7.50
evaluation,management,special syndromes)	30	15.25	16	61.25	7.56
Surgical diseases of the orbit:	20	0	7 5	25.5	1 1
Surgical approaches to the orbit.	20	8	7.5	35.5	4.4
Surgical rehabilitation of					
Graves" Orbetopathy.					
Enuculation&evisceration.					
Manegment of post-enuculation socket					
syndrome.					
Surgical management of	18	10	10	38	4.71
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ocular trauma(rupture globe,lid					
trauma,IOFB etc)					
Total	450	202.5	202.5	810	100

4- Teaching and learning methods:

METHODS USED:

- 1. Modified Lectures
- 2. Small group discussions
- 3. Problem solving.
- 4. Practical classes
- 5. Data show slides

TEACHING PLAN:

Lectures: Division of students into 1 group

3 hours /week, Time from 9.0am to 12.00 pm .

Tutorials: 1 hours /week, Time from 12 pm to 3.00 pm

Practical classes 2 hours /week, Time from 12pm to 3.00 pm

Time plan:

Item	Time schedule	Teaching hours	Teaching hours
Lectures	3 hours	450	50%
	/week;each		
	3hours		
Practical	2 hours	202.5	33.33%
	/week;each		
	3hours		
Tutorial	1 hours	202.5	16.67%
	/week;each		

	3hour		
Total		810	100%

5- Students Assessment methods:

5-A) <u>ATTENDANCE CRITERIA</u>:

The minimum acceptable attendance is 75%, Students who fail to meet their attendance requirements are not allowed to sit for their exams.

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge & understanding, intellectual skills
Oral examination	To assess knowledge & understanding, skills of analysis and discussion
Practical examination	To assess descriptive & diagnostic abilities and theory application (intellectual skills) and professional / practical skills & general and transferable skills

5-C) TIME SCHEDULE: Faculty by laws

• Two sets of exams: 1st in April – 2nd in October.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- Final exam:		
a- Written	150	50%
b- Practical	75	25%
c- Oral	75	25%
Total	300	100%

The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- Final exam:	
a- Written	(Short essay) questions, case study, problem solving
b- Practical	Slides, live surgeries
c- Oral	
2- Assignments &	practical books
other activities	
Total	

6- List of references:

6.1- Course Notes

Lecture notes prepared by staff members in the department

- 6.2- Essential Books (Text Books)
- Jack J. Kanski, Brad Bowling Clinical Ophthalmology: A Systematic Approach Kanski textbook of ophthalmology 7th Ed. Elsevier 2011
- Myron Yanoff, Jay S. Duker Ophthalmology: Expert Consult, Yanoff, Ophthalmology
- 3rd Ed. Mosby 2008
- George L. Spaeth Ophthalmic surgery: principles and practice $3r^d$ Ed. Elsevier Health Sciences, 2003
- •Norman S. Jaffe, Mark S. Jaffe, Gary F. Jaffe Cataract Surgery And Its Complications 6th Ed. Mosby 1997
- Robert L. Stamper, Marc F. Lieberman, Michael V. Drake **Becker-Shaffer's Diagnosis and Therapy of the Glaucomas** 8th Ed. Elsevier Health Science
- •Frederick Hampton Roy, Carlos W. Arzabe, **Master Techniques in Cataract and Refractive Surgery** Slack Incorporated, 2004
- 6.3- Recommended Books:
- William Tasman, Edward A. Jaeger Duane's Ophthalmology Duane's clinical ophthalmology, Wolters Kluwer 2013
- 6.4- periodicals and websites:
- British Journal of ophthalmology bjo.bmj.com
- American journal of ophthalmology www.ajo.com

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Lecture halls:
- Small group classes
- Laboratory
- Information technology / AV aids
- Models etc

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Course Coordinators:

Dr. Yosri fekri

Professor of Ophthalmology Banha University

Head of Department: Dr.Essam Elmatbouly

Professor of Ophthalmology Banha University

Date: 2013-2014

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