



# Program Specifications of Ophthalmology Medical Doctorate (MD) Degree (2023)

## **Program Specifications for MD of Ophthalmology**

## (2022/2023)

University: Minia

Faculty: Medicine

**Department:** Ophthalmology

**Code: OO 100** 

## A- Basic Information:

- 1. Program title: MD Ophthalmology
- 2. Final award: Doctorate (MD) in Ophthalmology

3. Program type: <u>single</u> double multiple

4. Responsible department: Ophthalmology department

**5. Departments involved:** Ophthalmology department, Public health and community medicine department

6. Program duration:3.5 years

7. Coordinator: Prof. Dr. Ahmed El-shafie

8. External evaluators: Prof. Dr. Mahmoud Abdel-Badei

9. Internal evaluator: Prof. Dr Mohamed Farouk

10. Program management team: all staff members of ophthalmology department

#### **B- Professional Information**:

#### **1-Program aims**:

**Graduate of** Medical doctorate **in Ophthalmology the candidate should be able to:** 

- 1. Plan to improve performance in the field of Ophthalmology
- 2. Acquire skills to solve critical problems
- 3. Analyze reading of research an issues and issues related to Ophthalmology
- 4. Follow proper research methodology.
- 2- Intended learning outcomes (ILOs)

## 2.1. (a) Knowledge and understanding:

By the end of the study of MD program in **Ophthalmology** the candidate should be able to: A1. Identify basic, biomedical, clinical, epidemiological, and behavioural sciences related conditions, problem and topic

A.2. Identify basics, tools and ethics of scientific medical, clinical research.

A.3. Discuss ethical and medicolegal Principles relevant to practice in the Ophthalmology field.

A.4. Explain principles measurements of quality assurance and quality improvement in medical education and in clinical practice of Ophthalmology.

a.6. Identify surgical skills for basic ophthalmic procedures including (cataract and glaucoma surgeries, strabismus surgery, minor ophthalmic procedures).

A.7. Define post-operative complications, specially post-operative endophthalmitis and provide first aid treatment in such conditions.

## **2.2.** (b)Intellectual skills

By the end of MD program in **Ophthalmology** the candidate should be able to:

- b1. Specify medical dilemmas and complexities and how to solve them.
- b2. Conclude decisions and conduct scientific discussion.

b3. Select from different choices based on multiple determining factors as social, scientific, economic etc...

b4. Prioritize and tailor the different guidelines to individual situations, be aware of international guidelines like American Academy Ophthalmology and Royal College Guidelines.

b5. Conduct ideal management of medical and surgical emergency states.

B6. Differentiate between different emergency conditions in ophthalmology and manage them with ideal problem-solving skills.

B7. Refine the surgical skills and performance to the state of the art.

b.8.Analyze and interpret any morphological abnormalities for both eyes and other systems to find a research project.

b.9. Analyze different research papers and choose best technique, microscopy and statistical & computer programs to interpret results.

b.10. Compute research studies.

b.11. Apply safety measures during professional practicing in different ophthalmic surgery.

b.12. Design a plan for improving the departmental performance in the field of teaching and research.

b.13. Design the principles and fundamentals of quality assurance of professional practice in the field of Ophthalmology.

b.14. Compare between different decisions in various ophthalmic subspecialties.

b.15. Encourage intellectual curiosity of young ophthalmologists necessary for scientific discovery and innovation through active participation in research.

b.16. Estimate the meaning of Evidence-based medicine and its importance

## 2.3. Skills:

## 2.3.1. (c)Professional and practical skills

By the end of the study of MD program in the candidate should be able to:

c1. Perform all basic and some of the advanced professional skills in Ophthalmology.

c2. Examine properly and systematically the eye and the adenexa with an exact follow of the standard rules and interpret signs individually.

c3. Integrate data from the history and the examination done.

c4. Ask for the proper investigations to be done for a given medical problem.

C5. Train to write and evaluate professional ophthalmological reports.

C6. Write a treatment prescription for a given medical problem within a multidisciplinary management plan if needed.

C7. Select patients needing hospitalization, and those needing surgical intervention.

c.8 Analyze the collected data using different types of statistical programs as SPSS program.

C9. Train on using of all available technological means to serve Professional practice

C10. Cooperate with colleagues to plan to elevate professional practice and improve of the medical and surgical performance

## 2.3.2. (d)General and transferable skills

By the end of the study of MD program in **Ophthalmology** the candidate should be able to:

D.1. Facilitate efficient communication skills using all sorts.

D2. Use information technology to improve professional practice.

D.3. Facilitate methods of teaching and evaluating others.

D.4. Interpret data of skills of self-evaluation and identification of personal learning needs.

D.5. Analyze Skills of self-assessment and continuous learning.

D.6. Use different information resources (books, online, ...) to sustain knowledge.

D.6. Put roles and indicators for team performance evaluation and appraisal.

D.7. Plan how team will learn and perform together

D.8. Prepare and integrate scientific activities as seminars, journal clubs, scientific meetings or conferences. Improve his practice through constant self-evaluation and life-long learning with perfect time management

## **3- Program Academic Reference Standards**

- Minia faculty of medicine adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty council Decree NO. 6854 in its session NO.177 Dated 18/5/2009) **{Annex 1}.**
- Minia faculty of medicine has developed the academic standards (ARS) for Medical Doctorate (MD) program and was approved in faculty Council decree No.7528, in its session No.191, dated: 15-3-2010), last update: 20-2-2023 {Annex I}.
- Then, Ophthalmology department has developed the intended learning outcomes (ILOs) for doctorate (MD) program in Ophthalmology and the Date of program specifications first approval was by department council: 13-5-2013, last update: 5-3-2023{Annex 2}

#### **5. Program Structure and Contents:**

Торіс	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours/week
First part (6 months, 24 weeks	)		
Physiology	2	1	3
Pathology	2	1	3
Anatomy	2	1	3
Optics	2	1	3
Medical Statistics and	1	1	2
<b>Research Methodology</b>			
Use of Computer in Medicine	1	1	2
Total/week	9	5	14
Total hours for first part	216 hours	120 hours	336 hours
Second part (2 Academic Years, 60 Weeks)			
Medical Ophthalmology	4	5	9
Surgical Ophthalmology	4	5	9
Total hours/second part	480	600	1080
Third Part (18 months)			
Research Thesis and	continuous.		
discussion			

## 5. A. Program duration: ( $\geq$ 3.5 years).

#### 5. D. Program courses:

Course	Title	Total No. of		No. of hours	s /week
		Hours	Lect.	Practical	tutorial
FIRST PART (Level	l of course):	• 			
1. Anatomy	OO100	72	2	1	
2. physiology	OO100	72	2	1	

3. Optics	OO100	72	2	1	
4. Pathology	OO100	72	2	1	
5.Research design &	OO100	45	2	1	
methodology:					
6.Uses of computer	OO100	30	2	1	
in medicine:					
Training programs and visits, seminars&			Cor	ntinuous	
activities					
SECOND PART	Code No. of				
(Level of course):	course				
7.Medical Ophthalmology	OO100	540	4	5	
8.Surgical	OO100	540	4	5	
ophthalmology.					
Training programs and	l workshops, field		CONT	TINUOUS	
	other scientific				
activities					
THIRD PART (1	8 months):				
Research (thesis) and	nd discussion		CON	FINUOUS	
L					

## 6- Program admission requirements:

#### **<u>1. General requirements:</u>**

A. Candidates should have one of the following:

- MBBCh degree from any Egyptian faculty of Medicine or
- Equivalent degree from medical schools abroad approved by the Ministry of higher education.
  - B. Master's degree in Ophthalmology.

C. Follows postgraduate regulatory rules of postgraduate studies of Faculty of Medicine, Minia University.

#### 2. Specific requirements:

- A. Candidates graduated from Egyptian universities should get at least "Good Rank" in their final year / cumulative year examination and grade "Good Rank "in Ophthalmology course too.
- B. Master degree in Ophthalmology with at least" Good Rank".

#### 7- Regulations for progression and program completion:

Duration of program is (Minimum 3.5 years), starting from registration till acceptance of the thesis; divided to:

#### First Part (≥6 months):

- All courses as specified in the internal bylaw
- At least six months after registration should pass before enrolling for the first part examination.
- The exam is set twice a year in April and in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.
- Those who fail in one curriculum need to re-exam it only.

## <u>Second Part</u>: ( $\geq$ 24 months):

• Program related specialized Courses.

• Actual work for 36 months as a demonstrator /trainee in the department of Ophthalmology.

- The student should pass the  $1^{st}$  part before asking for examination in the  $2^{nd}$  part.
- Two sets of exams: 1st in April 2nd in October.

- For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% in the written exam).
- Fulfillment of the requirements in each course as described in the template and registered in the **log book** is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:
  - a. Training courses
  - b. Grand rounds
  - c. Case presentation
  - d. Seminars
  - e. Thesis discussion
  - f. Workshops
  - g. Conference attendance
  - h. Journal club
  - i. Other scientific activities requested by the department

**Thesis/essay:** (2-4 years from the date of enrolment):

• Candidate can start working on the thesis after enrolment.

• It is obligatory to complete the thesis and to get it approved after passing the second part final examination and after a minimum of 24 months following official registration of the thesis protocol.

• For approval of the thesis, it is obligatory to get 2 research papers published out of the thesis with at least one published in international journal (listed in WOS or/ and Scopus, cite score  $\geq$  0.5, have ISSN).

• Thesis discussion with approval is enough to pass this part.

• The maximum duration for completion and approval of thesis is 4 years. Extension for a maximum of 8 years is allowed under certain conditions but this is subjected to the approvals of the supervisors, the dean and the university president.

## 8. Teaching and learning methods:

Teaching and learning methods	The ILOs
Lectures	a1,a2, a3,a4,a6,a7
	b1,b2,b3,b4,b5,b6,b8,b9,10,11,13,14,15
	,16
Practical sessions	c1,c2, c3,4,5,6,7,8,9,10
Case based discussions	
	a1-a5, d1,d2,d3,d4,d5,d6,d7,d8
Self-training activities	
seminars, presentations and assignments.	
Training courses & workshops.	
Thesis discussion.	
Conference attendance	

#### 9-Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	a1,a2, a3,a4,a5,a6.a7 b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16 c1, c2, c2,c3,c4,c5,c6,c7,c8,c9,c10 d1, d2, d3,d4,d5,d6,d7,d8
2. PaperbasedExams:••Short essay	a1,a2, a3,a4,a5,a6.a7 b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16
3. OSCE- CIVA ( clinical image and video assessment)	a1,a2, a3,a4,a5,a6,a7 b1,b2,b3, c1, c2, 3,4,5,6,7,8,9,10, d1, d2, d3, d5, d6, d7,d8
4. Seminars, presentations, assignments	a1,a2, a3,a4,a5,a6 b1,b2,b3, c1, c2, d1, d2, d3, d4,d5,d6,d7,d8
5. Oral Exams	a1,a2, a3,a4,a5,a6.a7 b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16

## **10. Weighting of assessment:**

Course	Written	Oral	Practical
Anatomy	100	100	
Physiology	100	100	
Optics	100	100	
Ophthalmic Pathology	100	100	
Medical Statistics and Research Methodology	100	100	100
Use of Computer in Medicine	100	100	100
Ophthalmic medicine	100	50	100
Ophthalmic surgery	100	50	100

#### **11. Methods of Program Evaluation:**

Evaluator	Method/tool	Sample
1. Senior students	Questionnaires	All students
(Students of last		
year		
2. Graduates (Alumni)	Questionnaires	At least 10
3. Stakeholders	Meeting	10
	Questionnaires	
4. External & Internal	Reports	1
evaluators and		
external examiners		
5. Quality Assurance	Reports	
Unit	Questionnaires	
6. Exam results	Results analysis reports	All the students

Program coordinators:

Prof Dr Ahmed Mohamed Kamal Elshafie Prof Dr Mahmoud Mohamed Genidy Dr Mohamed Esmail Khalil

Date of <u>last update</u> & approval by <u>department council</u>: 5/3/2023

#### Head of Department:

- Prof Dr Ahmed Mohamed Kamal Elshafie

Annex (1): Con	nparison between General	
Academic Reference Standards (GARS) and		
Faculty Academic Ref	erence Standards (ARS)	
برامج الد كتوراه	Faculty	
NAQAAE	Doctorate (MD) Program	
<ol> <li>مواصفات الخريج:</li> </ol>	1. Graduate attributes:	
خريج برنامج الدكتوراه في أي تخصص يجب أن يكون قادرا على:	Graduate of doctorate (MD) program in any specialty should be able to:	
١,١. إتقان أساسيات ومنهجيات البحث العلمي.	<b>1.1.</b> Mastery of basic research skills and types of study design.	
٢,١. العمل المستمر علي الإضافة للمعارف في مجال التخصص.	<b>1.2.</b> Contribute to development, application, and translation of new medical knowledge in his scholarly field through research.	
٣,١. تطبيــق المــنهج التحليلــي والناقــد للمعــارف فــي مجــال التخصــص والمجالات ذات العلاقة .	<b>1.3.</b> use analytical and critical skills in observing, collecting and interpreting data.	
٤,١. دمــج المعــارف المتخصصــة مــع المعـارف ذات العلاقـة مســتنبطا ومطورا للعلاقات البينية بينها.	<b>1.4.</b> Integrate biomedical sciences with clinical information to explore scientific basis of medical practice for improvement of management of diseases.	
, ١, ٥ إظهار وعيا عميقا بالمشاكل الجارية والنظريات الحديثة في مجال التخصص .	<b>1.5.</b> Demonstrate an awareness of current health problems and recent theories in his scholarly field	

٦,١. تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها.	<b>1.6.</b> Identify and create solutions for occupational problems and medical malpractice conditions.
٧,١. إتقان نطاقا واسعا من المهارات المهنية في مجال التخصص	<b>1.7.</b> perform a wide range of professional skills in his scholarly field.

٨,١. التوجه نحو تطوير طرق و أدوات و أساليب جديدة للمزاولة المهنية.	<b>1.8.</b> Develop and improve new methods and approaches in the professional medical practice of the specific field.
٩,١. استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية	<b>1.9.</b> Use information technology to improve his professional medical practice including online medical information manage information and researches.
١٠,١ . التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة .	<b>1.10.</b> communicate effectively as a member or leader of health care group or other professional group and gain leadership skills.
١١,١١ اتخاذ القرار في ظل المعلومات المتاحة.	<b>1.11.</b> Make informed decisions based on available data (e.g. patient information, up to date scientific evidence and clinical judgement).
١٢,١. توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على إيجاد موارد جديدة .	<b>1.12.</b> Effective management, development & improvement of available resources and have the competency to get new resources.
١٣,١ الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة .	<b>1.13.</b> Be aware of his community needs related to his field and have the ability to improve & maintain health care and carryout system-based improvement.

١٤,١ التصرف ب ما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة.	<b>1.14.</b> Demonstrate ethical behavior, moral reasoning, honesty, integrity, dependability, and commitment to service and health equity.
١,١٥ الالتزام بالتنمية الذاتية المستمرة ونقل علمه و خبراته للأخرين.	<b>1.15.</b> Critically reflect on one's own performance to set learning and improving goals and sharing his knowledge.

المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for MD Programs	2. Faculty Academic Reference Standards (ARS) for MD Program
2.1.المعرفة والفهم : بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من :	2.1. Knowledge and understanding: Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	<b>2.1.1.</b> Theories, basics and updated knowledge in his scholarly field and related basic sciences.
٢,١,٢. أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	2.1.2. Basic, methods and ethics of medical research.
٢,١,٣. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1. 3. Ethical and medicolegal principles of medical practice.

٢,١,٤. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	<b>2.1. 4.</b> Identify Principles and fundamental of quality in professional medical practice.	
٢,١,٥ المعارف المتعلقة بآثار	2.1.5. Knowledge related to effects	
ممارسته المهنية على البيئة وطرق	of professional practice on public	
تنمية البيئة وصيانتها	health and methods of	
	maintenance and	
	system-based improvement of	
	public health.	
.2.2المهارات الذهنية :	2.2. Intellectual skills:	
بانتهاء دراسة برنامج الدكتوراه يجب	Upon completion of the	
أن يكون الخريج قادرا على:	doctorate program (MD), the graduate must be able to:	

٢,٢,١ تحليل وتقبيم المعلومات في مجال	2.2.1 Analysis and evaluation
التخصص والقياس عليها والاستنباط منها	of information to correlate and deduce from
	it.
۲,۲,۲ حل المشاكل المتخصصة استنادا	
	2.2.2. Problem solving skills
على المعطيات المتاحة	based on analysis of available data for common
	health problems related to his scholarly field <mark>.</mark>
۲٫۲٫۳. إجراء دراسات بحثية تضيف إلى	<b>2.2.3.</b> Carryout research
المعارف	projects related to his scholarly field.
٢,٢,٤. صياغة أوراق علمية	2.2.4. Write and publish
	scientific papers.
٢,٢,٥ تقييم المخاطر في الممارسات	2.2.5. Assess risk in
المهنية	professional medical practice.

٢,٢,٦. التخطيط لتطوير الأداء في مجال	<b>2.2.6.</b> Establish goals,
التخصص	commitments and strategies for improved
	productivity and performance.
٢,٢,٧. اتخاذ القرارات المهنية في سياقات	2.2.7. Making professional decisions in
مهنية مختلفة	different professional contexts.
۲٫۲٫۸ الابتکار/الإبداع	2.2.8. Demonstrate intellectual
	curiosity necessary for scientific discovery and
	innovation through active participation in
	research.
۲,۲,۹ الحوار والنقاش المبنى على	
البراهين والأدلة	2.2.9. Using Evidence-based
البراهين والأكله	strategies to during discussion or teaching others.
	others.
2.3. مهارات المهنية :	2.3. Professional skills:
بانتهاء دراسة برنامج الدكتوراه بحب أن	Upon completion of the
بانتهاء دراسة برنامج الدكتوراه يجب أن	Upon completion of the doctorate program (MD) the
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على :	doctorate program (MD), the
C C	
C C	doctorate program (MD), the graduate must be able to:
يكون الخريج قادر اعلى : ٢,٣,١. إتقان المهارات المهنية الأساسية	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well
يكون الخريج قادرا على :	doctorate program (MD), the graduate must be able to:
يكون الخريج قادر اعلى : ٢,٣,١. إتقان المهارات المهنية الأساسية	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical
يكون الخريج قادر اعلى : ٢,٣,١. إتقان المهارات المهنية الأساسية	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical
يكون الخريج قادرا على : ٢,٣,١. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical skills.
يكون الخريج قادر اعلى : ٢,٣,١. إتقان المهارات المهنية الأساسية	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical skills. 2.3.2. Write and evaluate professional
يكون الخريج قادرا على : ٢,٣,١. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical skills.
يكون الخريج قادرا على : ٢,٣,١. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical skills. 2.3.2. Write and evaluate professional reports.
يكون الخريج قادرا على : . ٢,٣,١ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص والحديثة في مجال التخصص ٣,٣. ٢. كتابة وتقييم التقارير المهنية	doctorate program (MD), the graduate must be able to:         2.3.1. Master the basic as well as modern professional practical and/or clinical skills.         2.3.2. Write and evaluate professional reports.         2.3.3. Evaluate and improve
يكون الخريج قادرا على : ٢,٣,١. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص	doctorate program (MD), the graduate must be able to: 2.3.1. Master the basic as well as modern professional practical and/or clinical skills. 2.3.2. Write and evaluate professional reports.
يكون الخريج قادرا على : . ٢,٣,١ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص والحديثة في مجال التخصص ٣,٣. ٢. كتابة وتقييم التقارير المهنية	doctorate program (MD), the graduate must be able to:         2.3.1. Master the basic as well as modern professional practical and/or clinical skills.         2.3.2. Write and evaluate professional reports.         2.3.3. Evaluate and improve
يكون الخريج قادرا على : . ٢,٣,١ إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص والحديثة في مجال التخصص ٣,٣. ٢. كتابة وتقييم التقارير المهنية	doctorate program (MD), the graduate must be able to:         2.3.1. Master the basic as well as modern professional practical and/or clinical skills.         2.3.2. Write and evaluate professional reports.         2.3.3. Evaluate and improve
يكون الخريج قادرا على : 	doctorate program (MD), the graduate must be able to:         2.3.1. Master the basic as well as modern professional practical and/or clinical skills.         2.3.2. Write and evaluate professional reports.         2.3.3. Evaluate and improve the methods and tools in the specific field

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.٣,٢ التخطيط لتطوير الممارسة المهنية	2.3.5. Planning for the development of
وتنمية أداء الآخرين.	professional practice and improve of the
	performance of others
.2.4 المهارات العامة والمنتقلة :	2.4. General and transferable
بانتهاء دراسة برنامج الدكتوراه يجب أن	skills
يكون الخريج قادرا على:	Upon completion of the
	doctorate program (MD), the
	graduate must be able to:
٢,٤,١. التواصل الفعال بأنواعه المختلفة	<b>2.4.1.</b> Communicate (in writing and orally)
	effectively and respectfully with peers,
	faculty, colleagues, and other members of
	the health care team, understanding the role of consultations and referrals.
۲,٤,۲ استخدام تكنولوجيا المعلومات ب ما	<b>2.4.2.</b> Use of information technology
يخدم تطوير الممارسة المهنية	to serve Professional Practice
	Development.
٢,٤,٣. تعليم الأخرين وتقييم أداءهم	2.4.3. Demonstrate effective teaching and
	evaluating others.
٤,٢,٤] التقييم الذاتني والتعلم	<b>2.4.4.</b> Self-assessment and continuous
ع ( ، , ، , ، , ، ، ، ، ، ، ، ، ، ، ، ، ،	learning.
المسمر	icaning.
٢,٤,٥ استخدام المصادر المختلفة	2.4.5. use physical information resources
للحصول على المعلومات والمعارف	(print, analog), online (electronic, digital,) text,
	audio-video, book and journal to address medical questions and knowledge to sustain
	professional growth
٢,٤,٦. العمل في فريق وقيادة فرق	<b>2.4.6.</b> Work as a member in larger teams and
العمل	as well as a team leader knows how to develop "teaming strategy" to plan how people will
	act and work together.

	4.7. Manage of scientific meetings and the
abi والقدرة علي إدارة الوقت	ity to manage Time effectively.

# Annex [2] Matrix Between Faculty Academic Reference Standards (ARS), and Program ILOS for MD in Ophthalmology

۲ المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for MD Programs	2. Faculty Academic Reference Standards (ARS) for MD Program	MD Program of Ophthalmology
2.1.المعرفة والفهم : بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من :	2.1. Knowledge and understanding: Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:	<b>2.1. Knowledge and Understanding</b> Upon completion of the MD Program in Ophthalmology the graduate should be able to:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	<b>2.1.1.</b> Theories, basics and updated knowledge in his scholarly field and related basic sciences.	A1. Identify basic, biomedical, clinical, epidemiological, and behavioral sciences related conditions, problem and topic

٢,١,٢ أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	2.1.2. Basic, methods and ethics of medical research.	A.2. Identify basics, tools and ethics of scientific medical, clinical research.
٢,١,٣. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1. 3. Ethical and medicolegal principles of medical practice.	A.3. Discuss ethical and medicolegal Principles relevant to practice in the Ophthalmology field.
٢,١,٤. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	<b>2.1. 4.</b> Identify Principles and fundamental of quality in professional medical practice.	A.4. Explain principles measurements of quality assurance and quality improvement in medical education and in clinical practice of Ophthalmology.
٢,١,٥. المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.	<ul> <li>A.6. Identify surgical skills for basic ophthalmic procedures including (cataract and glaucoma surgeries, strabismus surgery, minor ophthalmic procedures).</li> <li>A.7. Define the post operative complications, specially post operative endophthalmitis and provide first aid treatment in such conditions.</li> </ul>
.2.2المهارات الذهنية: بانتهاء دراسة برنامج الدكتوراة يجب أن يكون الخريج قادرا على:	<b>2.2. Intellectual skills:</b> Upon completion of the doctorate program (MD), the graduate must be able to:	<b>2.2. Intellectual skills:</b> Upon completion of the MD program in Ophthalmology, the graduate must be able to:
٢,٢,١ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها	2.2.1 Analysis and evaluation of information to correlate and deduce from it.	<ul> <li>b1. Specify medical dilemmas and complexities and how to solve them.</li> <li>b2. Conclude decisions and conduct scientific discussion.</li> </ul>

		<ul> <li>b3. Select from different choices based on multiple determining factors as social, scientific, economic etc</li> <li>b4. Prioritize and tailor the different guidelines to individual situations, be aware of international guidelines like American Academy Ophthalmology and Royal College Guidelines.</li> <li>b5. Conduct ideal management of medical and surgical emergency states.</li> </ul>
۲,۲,۲ حل المشاكل المتخصصة استنادا على المعطيات المتاحة	<b>2.2.2.</b> Problem solving skills based on analysis of available data for common health problems related to his scholarly field.	<ul> <li>B6. Differentiate between different emergency conditions in ophthalmology and manage them with ideal problem solving skills.</li> <li>B7. Refine the surgical skills and performance to the state of the art.</li> </ul>
۲,۲,۳. إجراء دراسات بحثية تضيف إلى المعارف	<b>2.2.3.</b> Carryout research projects related to his scholarly field.	b.8.Analyze and interpret any morphological abnormalities for both eyes and other systems to find a research project.
٢,٢,٤. صياغة أوراق علمية	<b>2.2.4.</b> Write and publish scientific papers.	<ul> <li>b.9. Analyze different research papers and choose best technique, microscopy and statistical &amp; computer programs to interpret results.</li> <li>b.10. Compute research studies.</li> </ul>
٢,٢,٥ ـ تقييم المخاطر في الممارسات المهنية	<b>2.2.5.</b> Assess risk in professional medical practice.	b.11. Apply safety measures during professional practicing in different ophthalmic surgery.
٢,٢,٦. التخطيط لتطوير الأداء في مجال التخصص	<b>2.2.6.</b> Establish goals, commitments and strategies for improved productivity and performance.	b.12. Design a plan for improving the departmental performance in the field of teaching and research.

		b.13. Design the principles and
		fundamentals of quality assurance of professional practice in the field of Ophthalmology.
٢,٢,٧. اتخاذ القرارات المهنية في	2.2.7. Making professional	b.14. Train on decision making in
سياقات مهنية مختلفة	decisions in different professional contexts.	different ophthalmic subspecialities.
۲,۲,۸ الابتکار / الإبداع	<b>2.2.8.</b> Demonstrate intellectual curiosity necessary for scientific discovery and innovation through active participation in research.	b.15. Encourage intellectual curiosity of young ophthalmologists necessary for scientific discovery and innovation through active participation in research.
٢,٢,٩. الحوار والنقاش المبني على البراهين والأدلة	<b>2.2.9.</b> Using Evidence-based strategies to during discussion or teaching others.	b.16. Estimate the Evidence-based medicine and its importance
.3.2المهارات المهنية:	2.3. Professional skills:	2.3. (c) Professional and practical skills
بانتهاء دراسة برنامج الدكتوراة يجب	Upon completion of the	Upon completion of the MD program in
أن يكون الخريج قادرا على:	doctorate program (MD), the graduate must be able to:	Ophthalmology, the graduate must be able to:
إتقان المهارات المهنية الأساسية 2.3.1. والحديثة في مجال التخصص	2.3.1. Master the basic as well as modern professional practical and/or clinical skills.	<ul> <li>C.1. Perform all basic and some of the advanced professional skills in Ophthalmology</li> <li>C.2.Examine properly and systematically the eye and the adenexa with an exact follow of the standard rules and interpret signs individually.</li> <li>C.3. Integrate data from the history and the examination done.</li> <li>C.4. Ask for the proper investigations to be done for a given medical problem.</li> </ul>
٢,٣. ٢. كتابة وتقييم التقارير المهنية	<b>2.3.2.</b> Write and evaluate professional reports.	<b>C5</b> . Train to write and evaluate professional ophthalmological reports.

٣,٣. ٢. تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص	2.3.3. Evaluate and improve the methods and tools in the specific field	<ul> <li>C6. Write a treatment prescription for a given medical problem within a multidisciplinary management plan if needed.</li> <li>C7. Identify patients needing hospitalization, and those needing surgical intervention.</li> <li>C.8 Analyze the collected data using different types of statistical programs as SPSS program.</li> </ul>	
٢,٣,٤ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية	<b>2.3.4.</b> use of technological means to serve Professional practice	C.9. Train on using of all available technological means to serve Professional practice	
٥,٣,٢. التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين.	2.3.5. Planning for the development of professional practice and improve of the performance of others	C.10. Cooperate with colleagues to plan to elevate professional practice and improve of the medical and surgical performance	
4.2.المهارات العامة والمنتقلة : بانتهاء دراسة برنامج الدكتوراة يجب أن يكون الخريج قادرا على:	2.4. General and transferable skills Upon completion of the doctorate program (MD), the graduate must be able to:	<b>4.2. (d) General and transferable skills</b> Upon completion of the MD program in Ophthalmology, the graduate must be able to:	
٢,٤,١. التواصل الفعال بأنواعه المختلفة	<b>2.4.1.</b> Communicate (in writing and orally) effectively and respectfully with peers, faculty, colleagues, and other members of the health care team, understanding the role of consultations and referrals.	D.1. Facilitate efficient communication skills using all sorts.	

٢,٤,٢. استخدام تكنولوجيا المعلومات ب ما يخدم تطوير الممارسة المهنية ٢,٤,٣. تعليم الأخرين وتقييم أداءهم	<ul> <li>2.4.2. Use of information technology to serve Professional Practice Development.</li> <li>2.4.3. Demonstrate effective teaching and evaluating others.</li> </ul>	<ul> <li>D2. Use information technology to improve professional practice.</li> <li>D.3. Facilitate methods of teaching and evaluating others.</li> </ul>
٤,٢,٤. التقييم الذاتي والتعلم المستمر.		<ul> <li>D.4. Interpret data of skills of self- evaluation and identification of personal learning needs.</li> <li>D.5. Analyze Skills of self-assessment and continuous learning.</li> </ul>
٢,٤,٥. استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	<b>2.4.5.</b> use physical information resources (print, analog), online (electronic, digital,) text, audio-video, book and journal to address medical questions and knowledge to sustain professional growth	D.6. Use different information resources (books, online,) to sustain knowledge.
٢,٤,٦. العمل في فريق وقيادة فرق العمل	<b>2.4.6.</b> Work as a member in larger teams and as well as a team leader knows how to develop "teaming strategy" to plan how people will act and work together.	<ul><li>D.6. Put roles and indicators for team performance evaluation and appraisal.</li><li>D.7. Plan how team will learn and perform together</li></ul>
٢,٤. ٧ إدارة اللقاءات العلمية والقدرة علي إدارة الوقت	<b>2.4.7.</b> Manage of scientific meetings and the ability to manage Time effectively.	D.8. Prepare and integrate scientific activities as seminars, journal clubs ,scientific meetings or conferences. Improve his practice through constant self- evaluation and life-long learning with perfect time management

## ANNEX [3] Matrix of Coverage of program ILOs By Contents

Courses (List of	Program	Intended Learning Outcon	nes (ILOs)	
courses in first and second parts)	A. Knowle dge and Unders tanding	B. Intellectua I skills	C. Profession al and Practical Skills	D. General and Transfera ble skills
	A	В	C	D
1.Physiology	A1,2,3,4,6	B1,2	C1,2,3	D1,2,4
2.Anatomy	A1,8	B1,2	C1,2,3	D1,3
3.Optics	A1,8	B.1,7	C.2	D.1,4
4.Pathology	A1,A2,A3	B1, B3, B8, B9	C3, C5	D1,D4
5. Medical	A2,4,5	B3,4,6,7,8	C2,3,8	D1,2,3,4
statistics and		,9		,5,6,7,8
Research Design				
6.Use of	A5	B3,4	C7,8	D1,3,4,8
computer in				
medicine				
7. Ophthalmic	A1,3,4,5,	B2,5,7,8,9,1	C.1,2,3,4,	D.1,2,3,
medicine	6,7	0,11,12,13,1	5,6,7,8,9,	4,5,6,7,8
		4,15,16	10	

8. Ophthalmic	A.1,2,3,4	B.1,2,3,4,	C.1,2,3,4,	D.1,2,3,
surgery	5,6,7	5,6,7,8,9	5,6,7,8,9,	4,5,6,7,8
			10	

ANNEX [4] Matrix of Coverage of program ILOs by Methods of Teaching and learning:

Metho	Intended Learning Outcomes (ILOs)						
ds of							
Teachi	A. Knowledge	B. Intellectual					
ng	& Understandin	Skills	Practical skills	Transferable Skills			
&	g						
Learni	Α	В	С	D			
ng							

Lecture	A1,2,3,4,5,6,7	b1,b2,b3,b4,b5,b6, b8,b9,10,11,13,14, 15,16		
Clinical			C.1,2,3,4,5,6,7,8,9,1	
(Including case presentation and			0	
bed side clinical)				
Presentation/semi nar			C.1,2,3	D.1,2,3,4,5,6,7,8
Journal club	A1,2,3,4,5			D.1,2,3,4,5,6,7,8
Thesis discussion				D.1,2,3,4,5,6,7,8
Training courses		b1,b2,b3,b4,b5,b6,	C.1,2,3,4,5,6,7,8,9.1	D.1,2,3,4,5,6,7,8
& workshops		b8,b9,10,11,13,14, 15,16	0	
Online webinars	A1,2,3,4,5	B.1,2,3,4,5,6,7,8,9		D.1,2,3,4,5,6,7,8

## ANNEX[5] Matrix of Coverage of program ILOs by Methods of Assessment

Intended Learning Outcomes (ILOs)	
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Methods of	A.Knowled	<b>B.Intellectual</b>	C. Professional	D. General &
Assessmen	ge	Skills	& Practical	Transferable Skills
t	&Understa		skills	
	nding			
	Α	В	C	D
Written	a1,a2,	b1,b2,b3,b4,b		
exam	a3,a4,a5,a6	5,b6,b7,b8,b9		
	.a7	,b10,b11,b12,		
		b13,b14,b15,b		
		16		
Clinical			C.1,2,3,4,5,6,7,	
exam			8,9,10	
Oral Exam	a1,a2,	b1,b2,b3,b4,b		
	a3,a4,a5,a6	5,b6,b7,b8,b9		
	.a7	,b10,b11,b12,		
		b13,b14,b15,b		
		16		
Assignment				D.1,2,3,4,5,6,7,8
Case	A.1,2,3,4,5	B.1,2,3,4,5,6,7	C.1,4	
presentation		,8		
and				
discussion				

Thesis	a1,a2,	b1,b2,b3,b4,b	c1, c2,	d1, d2,
	a3,a4,a5,a6	5,b6,b7,b8,b9	c2,c3,c4,c5,c6,c	d3,d4,d5,d6,d7,
	.a7	,b10,b11,b12,	7,c8,c9,c10	d8
		b13,b14,b15,b		
		16		

#### **Course Specifications of Physiology in Medical Doctorate in Ophthalmology**

University: Minia

Faculty: Medicine

**Department:** Ophthalmology

• Academic Year/level: first part	• Course Title: course specification of Physiology in Doctorate degree in Ophthalmology	• <b>Code</b> OO100 MD
• Number of teaching	hours:	
Lectures: Total of 48	hours	
Practical/clinical: To	tal of 24 hours	
2. Overall Aims of the course	<ul> <li>physiology of the Ey</li> <li>2. To integrate physiology basic sciences: anatomic clinical applications.</li> <li>3. To develop the basic</li> </ul>	almologist oriented with
0	utcomes of course (ILOs): course, the student should be abl	le to:
A- Knowledge and	central nervous sy	describe visual tract and stem connections. scribe cranial nerves relation
and Understanding	with visual sensati	

Faculty of Medicine, Minia University: Course specifications & Matrices

B- Intellectual Skills	B1. link between knowledge for professional problems solving.				
C- Professional and Practical Skills			e Ophthalmology rej		
D- General and transferable Skills	<ul><li>D1. The use of different sources to obtain information and knowledge.</li><li>D2. manage time efficiently.</li><li>D3. learn himself continuously.</li></ul>				
4. Course Contents		1			
Торіс		Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week	
Corneal physiology		15 min	15 min	30 min	
Protective mechanisms of the	ne eye	15 min	15 min	30 min	
Physiology of aqueous hum	or	15 min	15 min	30 min	
Lens metabolism		15 min	15 min	30 min	
Entoptic phenomenon		15 min	15 min	30 min	
Physiology of color vision		15 min	15 min	30 min	
Visual pathway		15 min	15 min	30 min	
Electrophysiology of vision	l	15 min	15 min	30 min	
Total		2 hours	2 hours	4	
5. Teaching and Learni Methods	ng	Lectures and	practical sessions		
6. Teaching and Learni Methods for students limited Capacity		tutori	Didactic (lectures, al) according to the d rounds according	eir needs	
7. Student Assessment					
understanding.				ss knowledge &	

B. Assessment Schedule (Timing of Each Method of Assessment)	<ul> <li>1-Assessment 1: written examination week 25</li> <li>2-Assessment 2: oral examination week 25</li> <li>3-Assessment of attendance &amp; absenteeism throughout the course</li> </ul>			
C. Weighting of Each Method of Assessment	Final term written examination 100 marks Oral 100 marks Total 200 marks			
8. List of References				
A. Course Notes/handouts	Course Notes: lecture notes prepared by staff members in its department			
B. Recommended Text Books	Hugh Davson, The physiology of the eye,3 <sup>rd</sup> edition, ISBN: 978-0-12-206740-2			

- Head of Department:
- Prof Dr Ahmed Mohamed Kamal Elshafie

Ry hang

Date of <u>last update</u>& approval by department Council:

5/3/2023

	الدوره الخاصىه بتدريس ماده	مسمى المقرر
	الفسيولوجي لطلاب درجه	
	الدكتوراة	
	OO 100	كود المقرر
	: جامعة/أكاديمية	المتنا
2	الطب البشرى :كلية / معهد	
	فسم: طب وجراحة العين	

	A. Matrix of Coverage of Course HOS by Contents					
	W	Intended Learning Outcomes (ILOs)				
	e					
Contents	e	A. Knowledge &	<b>B. Intellectual Skills</b>	C. Professional &	D. General & Transferable	
(List of course	k	Understanding		Practical skills	Skills	
topics)	Ν	Α	В	С	D	
	0.					
Corneal physiology		1-3		1	3	

#### A. Matrix of Coverage of Course ILOs By Contents

Faculty of Medicine, Minia University: Course specifications & Matrices

Aqueous humor	1-3	1	1	1,2
Lens metabolism	1-3			1,2
Color vision	1-3	1	1	
Entoptic phenomenon	1-3		1	
Visual pathway	1-3	1		
Electrophysiology of vision	1-3			2,3

Methods of	Intended Learning Outcomes (ILOs)			
Teaching		D. Indalla daval	C Durforniou al 8	D. Companyal 8
	A. Knowledge	<b>B. Intellectual</b>	C. Professional &	D. General &
& Learning	&	Skills	Practical skills	Transferable Skills
	Understanding			
	Α	В	С	D
Lecture	1, 2, 3	1	1	1, 2
Practical	1,2,3	1	1	1, 2, 3

## B) Matrix of coverage by methods of teaching

Faculty of Medicine, Minia University: Course specifications & Matrices

C) Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of	Intended Learning Outcomes (ILOs)							
Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills				
	A	В	С	D				
Paper based	1-2-3	1		1-3				
OSCE		1		1-3				
CIVA			1-2	1-3				
Oral Exam	1,2,3,4	1		1,3				

#### <u>Blueprint of Postgraduate Physiology Course for MD degree (1<sup>st</sup> part) of</u> <u>Ophthalmology Department (Code: OO 100) (100 marks)</u>

Торіс	H ou rs	K no wl ed ge %	In tel lec tu al %	W eig ht %	Ac tu al M ar k	Modifie d mark
1. <b>Physiology of Cornea:</b> corneal transparency	6	75	25	12.5	12.5	12.5
2. Protective mechanisms of the eye	6	75	25	12.5	12.5	12.5
3. Physiology of aqueous humor	6	75	25	12.5	12.5	12.5
4. Physiological basis of lens Metabolism:	6	75	25	12.5	12.5	12.5
5. Physiological basis of color vision	6	75	25	12.5	12.5	12.5
6. Physiology of Entoptic phenomenon	6	75	25	12.5	12.5	12.5
7. Physiology of visual pathway	6	75	25	12.5	12.5	12.5
8. Electrophysiology of vision	6	75	25	12.5	12.5	12.5
Total	48			100%	100	

# Head of Ophthalmology department:

#### Prof.Dr/ Ahmed Mohamed Kamal EL-Shafie

# **Course Specifications of Anatomy in MD degree in Ophthalmology**

#### University: Minia

Faculty: Medicine

**Department:** Ophthalmology

Course Information						
• Academic Year/level: First part	• Course Title: anatomy related to ophthalmology	• <b>Code</b> : OO100				
• Number of teaching	hours:					
- Lectures: Total of did	lactic :48 hours; 2 hours/week					
- <b>Practical/clinical:</b> To	tal of 24 hours; 1 hour/week					
Overall Aims of the course	By the end of the course the student must be able to: The student should acquire the anatomic facts necessary for ophthalmology.					
e	Intended learning outcomes of course (ILOs): Upon completion of the course, the student should be able to:					
A- Knowledge and Understanding	<ul> <li>A.1 Mention anatomic Principles of</li> <li>Lid</li> <li>Orbit</li> <li>Anterior segment</li> <li>Posterior segment</li> </ul>					

B- Intellectual Skills	clii	B.1 Correlates the facts of Anatomy with clinical reasoning, diagnosis and management of common diseases related to ophthalmology.				
C- Professional and Practical Skills	<ul><li>C.1 Master the basic skills in the Anatomy related to ophthalmology.</li><li>C.2 Master Use of information technology to support decisions related to Anatomy of ophthalmology.</li></ul>					
D- General and transferable Skills	D.1 Perform data management including data entry and analysis.					
Course Contents		Testeres		T-4-1 NI- of home		
Торіс		Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week		
1- Lid		15 min	15 min	30 min		
2-Cornea and sclera		15 min	15 min	30 min		
3- Lens and zonular syste	em	15 min	15 min	30 min		
4- Uveal tissue		15 min	15 min	30 min		
5- Retina		15 min	15 min	30 min		
6- Optic nerve and pathway	15 min	15 min	30 min			
7- Orbital nerves and ves	15 min	15 min	30 min			
8- Extraocular muscles		15 min	15 min	30 min		
Total		2 hours	2 hours	4		

Faculty of Medicine, Minia University: Course specifications & Matrices

<b>9.</b> Teaching and Learning Methods	<ul> <li>Didactic (lectures, seminars, tutorial)</li> <li>Observation and supervision</li> <li>Written &amp; oral communication</li> <li>Senior staff experience</li> </ul>
<b>10.</b> Teaching and Learning Methods for students with limited Capacity	<ul> <li>Extra Didactic (lectures, seminars, tutorial) according to their needs</li> <li>Grand rounds according to their needs</li> </ul>
Student Assessment	
A. Student Assessment Methods	<ul> <li>Written and oral examination</li> <li>Assessment of practical skills)</li> <li>Log book</li> </ul>
B. Assessment Schedule (Timing of Each Method of Assessment)	1-Assesment 1: written examination week 252-Assessment 2: oral examination week 253-Assessment of attendance & absenteeismthroughout the course
C. Weighting of Each Method of Assessment	100 marks written         100 marks oral
List of References	
Course Notes/handouts	<ul> <li>Course notes</li> <li>Staff members print out of lectures and/or CD copies</li> </ul>
Recommended Text Books	Wolff's anatomy of the eye and orbit, 8 <sup>th</sup> edition

#### - Head of Department:

Prof Dr Ahmed Mohamed Kamal Elshafie

# Date of <u>last update</u> & approval by department Council:

5/3/2023

	الدوره الخاصىه بتدريس ماده	مسمى المقرر
	التشريح لطلاب درجه	_
	الدكتوراه	
	OO 100	كود المقرر
	: جامعة/أكاديمية	
2	الطب البشري :كلية / معهد	
فسم	طب و جراحة العين	

	***		age of Course ILOs By		
	Wee		Intended Learning	g Outcomes (ILOs)	
	k				
Contents	No.	A. Knowledge &	<b>B. Intellectual Skills</b>	C. Professional &	D. General & Transferable
(List of course		Understanding		Practical skills	Skills
topics)		Α	В	С	D
LID		1	1		

#### A. Matrix of Coverage of Course ILOs By Contents

Orbit	1	1	2	1
Cornea and sclera	1	1	1	
Uveal tissue	1	1	2	
Lens and zonules	1	1	2	1
Visual pathway	1	1	2	
Extraocular muscles	1	1	1,2	
Post segment	1	1	2	1

Methods of	Intended Learning Outcomes (ILOs)						
Teaching							
	A. Knowledge	<b>B. Intellectual</b>	C. Professional &	D. General &			
& Learning	&	Skills	Practical skills	Transferable Skills			
	Understanding						
	Α	В	С	D			
Lecture	1	1					
Practical		1	1,2	1			

# B. Matrix of coverage Course IILOs by Methods of Teaching & Learning

#### **B-** Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of	Intended Learning Outcomes (ILOs)					
Assessment	A. Knowledge &	B. Intellectual	C. Professional & Practical skills	D. General & Transferable Skills		
	& Understanding	Skills	Practical skills	I ransieradie Skills		
	Α	В	С	D		
Paper based	1					
CIVA exam		1	1-2			
Oral Exam	1	1				

# <u>Blueprint of Postgraduate Anatomy Course for MD degree (1<sup>st</sup> part) of</u> <u>Ophthalmology Department (Code: OO 100) (100 marks)</u>

Торіс	Ho urs	Kn owl edg e %	Int elle ctu al %	Wei ght %	Act ual Ma rk	Modified mark
1. Anatomy of Cornea and sclera	6	75	25	12.5	12.5	12.5
2. The eyelid	6	75	25	12.5	12.5	12.5
3. Anatomy of lens	6	75	25	12.5	12.5	12.5
4. Anatomy of uveal tissue	6	75	25	12.5	12.5	12.5
5. Anatomy of retina	6	75	25	12.5	12.5	12.5
6. Orbital nerves and vessels	6	75	25	12.5	12.5	12.5
7. Optic nerve and visual pathway	6	75	25	12.5	12.5	12.5
8. Extraocular muscles	6	75	25	12.5	12.5	12.5
Total	48			100%	100	

Head of Ophthalmology department:

Prof.Dr/ Ahmed Mohamed Kamal EL-Shafie

# **Course Specifications of Optics in MD degree in Ophthalmology**

#### University: Minia

Faculty: Medicine

<b>Department:</b>	Ophthalmology	department

Department: Opitinalmology				
Course Information				
• Academic Year/level: First part	• Course Title: optics	• <b>Code</b> : OO100		
• Number of teaching	hours:			
- Lectures: Total of 48	hours; 2 hours/week			
- <b>Practical/clinical:</b> To	tal of 24 hours; 1 hours/week			
Overall Aims of the course	By the end of the course the student must be able to:			
	The student should acquire the optical facts necessary for <b>ophthalmology</b>			
Intended learning outcomes of course (ILOs): Upon completion of the course, the student should be able to:				
	a.1. Mention the basic	s of general optics.		
a. Knowledge and Understanding	a.2.Describe optic ophthalmological devic			
b. Intellectual Skills	B.1.Correlates the facts reasoning, diagnosis common diseases relate	and management of		

c. Professional and Practical Skills	C.1. Master the basics of general optics. C.2.Use information technology to support decisions related to optics of ophthalmology.			
d. General and transferable		D.1. Examir ophthalmolo	ne optics of device	ces related to
Course Contents		Lecture	Practical/Clinical	Total No. of hours
Торіс		hours/week	hours/week	hours/week
1-light refraction		15 min	15 min	30 min
2- Intraocular lenses		15 min	15 min	30 min
3-light reflection	3-light reflection		15 min	30 min
4- Optics of prisms		15 min	15 min	30 min
5- Errors of refraction		15 min	15 min	30 min
6- Optics of ophthalmic d	evices	15 min	15 min	30 min
7- Ophthalmic Lasers		15 min	15 min	30 min
8- Low vision Aids		15 min	15 min	30 min
Total		2 hours	2 hours	4
Teaching and Learnin Methods		<ul> <li>Didactic (lectures, seminars, tutorial)</li> <li>Observation and supervision</li> <li>Written &amp; oral communication</li> <li>Senior staff experience</li> </ul>		
Teaching and Learnir Methods for students limited Capacity		• Extra Didactic (lectures, seminars, tutorial) according to their needs		

Faculty of Medicine, Minia University: Course specifications & Matrices

Student Assessment	
A-Student Assessment Methods	<ul> <li>Written and oral examination</li> <li>Assessment of practical skills)</li> <li>Log book</li> </ul>
B- Assessment Schedule (Timing of Each Method of Assessment)	<ul> <li>1-Assessment 1: written examination week 25</li> <li>2-Assessment 2: oral examination week 25</li> <li>3-Assessment of attendance &amp; absenteeism throughout the course</li> </ul>
C- Weighting of Each Method of Assessment	100 marks paper based 100 marks oral
List of References	
Course Notes/handouts	<ul> <li>Course notes</li> <li>Staff members print out of lectures and/or CD copies</li> </ul>
• Essential Books	• Text books written by the department of ophthalmology
Recommended Text Books	Clinical Optics, American Academy of ophthalmology, Basic and clinical science course 2017-18

- Head of Department:
- Prof Dr Ahmed Mohamed Kamal Elshafie

Date of <u>last update</u> & approval by department Council: 5/3/2023



# نموذج رقم (۱۱۱)

الدوره الخاصه بتدريس ماده لطلاب درجه البصريات	مسمى المقرر
الدكتواره	
OO 100MD	كود المقرر

#### **Intended Learning Outcomes (ILOs)** Contents A. Knowledge & D. General & B. C. Understanding Intellectual **Professional** Transferable (List of course Skills & Practical Skills topics) skills С B D Α 1-light 1 1-2 2 refraction 2 2-Prisms 1 1 1 3-light 1-2 1 1 reflection

# A- Matrix of Coverage of Course ILOs By Contents

4-Describe optics of devices	1-2	1		1
5- Errors of refraction	1-2	1		
6-Lasers	2	1	2	1
7- Intraocular lenses	1-2	1	1	
8- Low vision aids	1-2	1		

Methods of	Intended Learning Outcomes (ILOs)					
Teaching						
	A. Knowledge	В.	C.	D. General &		
& Learning	&	Intellectual	Professional	Transferable		
	Understanding	Skills	& Practical	Skills		
			skills			
	Α	В	С	D		
<b>T</b>	1.0					
Lecture	1-2					
Practical		1	1-2	1		

B-Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Assessment	Inte	tended Learning Outcomes (ILOs)			
Assessment	A. Knowledge	B.	C.	D. General &	
	&	Intellectual	Professional	Transferable	
	Understanding	Skills	& Practical	Skills	
			skills		
	Α	В	С	D	
Paper based exam	1-2				
OSCE		1	1-2		
Oral Exam	1-2	1	1-2	1	

#### C-Matrix of Coverage of Course ILOs by Methods of Assessment

#### <u>Blueprint of Postgraduate Optics Course for MD degree (1<sup>st</sup> part) of</u> <u>Ophthalmology Department (Code: OO 100) (100 marks)</u>

Торіс	Ho ur s	Kn ow led ge %	Int ell ect ual %	We igh t %	Ac tu al M ar k	Modifie d mark
1. Light reflection	6	75	25	12.5	12.5	12.5
2. Light refraction	6	75	25	12.5	12.5	12.5
3. Prisms	6	75	25	12.5	12.5	12.5
4. Errors of refraction	6	75	25	12.5	12.5	12.5
5. Intraocular lenses	6	75	25	12.5	12.5	12.5
6. Ophthalmic devices	6	75	25	12.5	12.5	12.5
7. Lasers	6	75	25	12.5	12.5	12.5
8. Low vision aids	6	75	25	12.5	12.5	12.5
Total	48			100%	100	

Head of Ophthalmology department:

Prof.Dr/ Ahmed Mohamed Kamal EL-Shafie

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Faculty of Medicine, Minia University: Course specifications & Matrices Page 54

# **Course Specifications of Pathology in Medical Doctorate in Ophthalmology**

University: Minia

Faculty: Medicine

**Department**: ophthalmology

Course Information					
• Academic Year/level: First part	Code: OO 100     Course Title:     pathology				
Number of teaching	hours:				
- Lectures: Total of 48	bours; 2 hours/week				
- <b>Practical/clinical:</b> To	tal of 24 hours; 1 hour/week				
Overall Aims of the course	By the end of the course the student must be able to:				
	the pathological facts necessary for ophthalmology.				
8	utcomes of course (ILOs): course, the student should be able to:				
	A1. Describe Pathologic Details of:				
A- Knowledge and Understanding	<ol> <li>Lid pathology</li> <li>Anterior segment pathology</li> <li>Posterior segment pathology</li> <li>Pathology of the orbit</li> <li>Infection</li> </ol>				
B- Intellectual Skills	B.2. Correlates the facts of Pathology with clinical reasoning, diagnosis and management				

Faculty of Medicine, Minia University: Course specifications & MatricesPage 55

	of common diseases related to ophthalmology.			
C- Professional and Practical Skills	<ul> <li>C1. Master the basic skills in the Pathology of ophthalmology</li> <li>C2. Master Use of information technology to support decisions related to pathology of ophthalmology.</li> <li>C3. Examine Pathological slides of common disorders related to ophthalmology.</li> </ul>			
D- General and transferable Skills	D.1. Perform data management including data entry and analysis.			
Course Contents				
Tonio		Lecture	Practical/Clinical	Total No. of hours
Торіс		hours/week	hours/week	hours/week
a-lid pathology		30 min	15 min	45 min
b-Anterior segment pathology		30 min	15 min	45 min
c- Posterior segment pathology		30 min	15 min	45 min
d- Orbit pathology		30 min	15 min	45 min
e- Infection	e- Infection		15 min	45 min
f- Ocular tumors		30 min	15 min	45 min

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Teaching and Learning Methods Teaching and Learning Methods for students with limited Capacity	<ul> <li>Didactic (lectures, seminars, tutorial)</li> <li>Observation and supervision</li> <li>Written &amp; oral communication</li> <li>Senior staff experience</li> <li>Extra Didactic (lectures, seminars, tutorial) according to their needs</li> </ul>		
Student Assessment			
1-Student Assessment	Assessment tools:		
Methods	<ol> <li>Written and oral examination</li> <li>Assessment of practical skills)</li> <li>Log book</li> </ol>		
2-Assessment Schedule (Timing of Each Method of Assessment)	<ul> <li>1-Assesment 1: written examination week 25</li> <li>2-Assessment 2: oral examination week 25</li> <li>3-Assessment of attendance &amp; absenteeism throughout the course</li> </ul>		
3-Weighting of Each Method	100 marks paper based		
of Assessment	100 marks oral		
List of References			
Course Notes/handouts	<ul> <li>Course notes</li> <li>Staff members print out of lectures and/or CD copies</li> </ul>		
Recommended Text     Books	Ophthalmic Pathology, American Academy of ophthalmology, Basic and clinical science course 2017-18		

# - Head of Department:

- Prof Dr Ahmed Mohamed Kamal Elshafie

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# نموذج رقم (۱۱۱)

	الدوره الخاصه بتدريس ماده الباثولوجي لطلاب درجه الدکتوراه Medical Doctorate OO 100	مسمى المقرر كود المقرر			
,	جامعة/أكاديمية: المنيا كلية / معهد: الطب البشر ي				
	ميد ريمي . قسم: طب و جراحة العين				

#### A-Matrix of Coverage of Course ILOs By Contents

	Int	Intended Learning Outcomes (ILOs)			
Contents	A. Knowledge	<b>B. Intellectual</b>	С.	D. General &	
(List of course	&	Skills	Professional	Transferable	
topics)	Understanding		& Practical skills	Skills	
	Α	В	С	D	
a-lid pathology	1	1	1,3	1	
b-Anterior segment pathology	1	1	2	1	
c- Posterior segment pathology	1	1		1	

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d- Orbit pathology	1	1	2	1
e- Infection	1	1		1
f- Ocular tumors	1	1		

# Matrix of Coverage of Course ILOs by Methods of teaching and learning

Methods of	Intended Learning Outcomes (ILOs)			
Teaching	A. Knowledge	B.	C.	D. General &
& Learning	&	Intellectual	Professional	Transferable
	Understanding	Skills	& Practical	Skills
			skills	
	Α	В	С	
Lecture	1			1
Practical		1	1-2-3	

Methods of	Intended Learning Outcomes (ILOs)			
Assessment	A. Knowledge	B.	C.	D. General &
	&	Intellectual	Professional	Transferable
	Understanding	Skills	& Practical	Skills
			skills	
	Α	В	С	D
Paper based	1			
exam				
Practical exam		1	1-2	
CIVA exam		1	1-3	
Oral Exam	1	1		

#### Matrix of Coverage of Course ILOs by Methods of Assessment

#### <u>Blueprint of Postgraduate Pathology Course for MD degree (1<sup>st</sup> part) of</u> <u>Ophthalmology Department (Code: OO 100) (100 marks)</u>

Торіс	Ho ur s	Kn ow led ge %	Int ell ect ual %	We igh t %	Ac tu al M ar k	Modifie d mark
1. Lid pathology	8	75	25	16.6	16.6	16.6
2. Anterior segment	8	75	25	16.6	16.6	16.6
3. Posterior segment	8	75	25	16.6	16.6	16.6
4. Orbital pathologies	8	75	25	16.6	16.6	16.6
5. Infections	8	75	25	16.6	16.6	16.6
6. Orbital tumors	8	75	25	16.6	16.6	16.6
Total	48			100%	100	

#### Head of Ophthalmology department:

Prof.Dr/ Ahmed Mohamed Kamal EL-Shafie

C

Faculty of Medicine, Minia University: Course specifications & Matrices Page 61

**Course specification of:** 

# "Medical Statistics and Research Methodology"

In MD degree

University: Minia

Faculty: Medicine

Department offering the course: Public health and preventive medicine department

**Department offering the programme**: Ophthalmology

**Programme(s) on which the course is given**: First part MD for all postgraduates

Academic year/ Level: First part of MD

1. Course Information		
Academic Year/level:	Course Title:	Code:
First part MD	Medical Statistics and Research Methodology	OO 100

(i) Number of teaching hours:				
- Lectures: 30 hours				
- Practical/clinical: 15 hou	rs			
- Total: 45 hours				
	By the end of the course the student must be able to:			
course	<ol> <li>Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision-making skills.</li> </ol>			
	<ol> <li>Apply ethical principles of scientific research with good awareness about patient's rights.</li> </ol>			
	3. Use precisely the research methodology in researches			
	4. Influence the students to adopt an analytical thinking for evidence-based medicine			
	5. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data			
	6. To use precisely computer programs SPSS, Epi Info and Excel in data analysis			
<b>3. Intended learning outcomes of course (ILOs):</b> Upon completion of the course, the student should be able to:				
A. Knowledge and	A.1. Define terms of research methodology.			
understanding	A.2. Describe the spectrum of research methodology.			
	A.3. Explain tie strategies and design of research.			
	A.4. Describe the study design, uses, and limitations.			
	A.5. Explain evidence-based Medicine			
	A.6. Define causation and association.			
	A.7. Tell the principles and fundamentals of ethics.			
	A.8. Describe the different sampling strategies			

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	A.9. Summarize the advantages and disadvantages of different sampling strategies			
	A.10. Summarize different methods of samples size calculation			
	A.11. Recognize the sources and the recent methods in data collection and analysis.			
	A.12. Identify the types of variables			
	A.13. Identify types of tabular and graphic presentation of data			
	A.14. Describe the normal curves and its uses			
	A.15. Identify the characters of normal distribution curve			
	A.16. Identify measures of central tendency and measures of dispersion			
	A.17. Explain regression analysis, its use and differentiate its types			
	A.18. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests			
	A.19. Explain the usefulness of screening tests			
<b>B. Intellectual Skills</b>	B.l. Apply research methods to different community health problems.			
	B.2. Apply appropriate research strategies for use.			
	B.3. Select appropriate research methods.			
	B.4. Teach and advocate appropriately in the research design.			
	B.5. Describe the normal curves			
	B.6. Describe and summarize data			
	B.7. Select the proper test of significance for a specific data.			
	B.8. Interpret selected tests of significance and the inferences obtained from such tests			
C. Professional and Practical Skills	<ul><li>C.1. Plan a research proposal for community diagnosis.</li><li>C.2. Design questionnaires.</li></ul>			

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	C.3. Conduct research.
	C.4. Judge association and causation.
	C.5. Criticize for bias and confounding factors
	C.6. Design data entry file
	C.7. Validate data entry
	C.8. Manage data files
	C.9. Construct tables and graphs
	C.10. Calculate different samples sizes
	C.11. Calculate measures of central tendency and measures of dispersion
	C.12. Calculate sensitivity, specificity, and predictive values
D. General and transferable Skills	D.l. Lead a research team to conduct a specific study.
transferable Skins	D.2. Take part and work coherently with his associates to in research.
	D.3. Write scientific papers.
	D.4. Appraise scientific evidence
	D.5. Analyze and interpret data
	D.6. Use standard computer programs for statistical analysis effectively

# 4. Course Contents

Торіс	No. of hours	Lecture	Tutorial/ Practical
Research methods			
Introduction :			
- Introduction to research.		3	
- Terminology and Rationale		5	
- Originality			
- Study design :			
-Cross sectional study and the prevalence rate			
-Cohort study, incidence rate, relative & attributable		4	
risk		+	
-Case-control study, Odd's ratio sampling			
-Experimental study and clinical trials			
- Sources of Errors in Medical Research		3	
- Bias and confounding and its Control.		3	

Faculty of Medicine, Minia University: Course specifications & Matrices Page 65

- Validity and reliability		2	
- The questionnaire design		2	
- Writing the Research Paper or Manuscript			2
- Protocol Writing		2	2
- Critic technique for the literature review		2	2
- Association and causation		1	
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
Statistics	1	1	
Sampling		1	1
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		30	15
5. Teaching and Learning Methods	learning ap mixes virtu activities wit study metho is online	proach was ual face-to-fa h the online lo d is offline an	emic, blended adopted that ace interaction earning. 60% of ad 40% of study
	Minia Unive	rsity site	are available at
		ures: Face to far ded video lect	ace lectures, Pre- ures
	<ul> <li>Pract</li> </ul>	ical lessons	
		gnment	
		ne quizzes	
6. Teaching and Learning Methods for students with limited Capacity		ciation due to	varded certificate o high level of

	• Limited students divided into small group to make learning more effective
7. Student Assessment	
D. Student Assessment Methods	7.1- <b>Research assignment:</b> to assess general transferable skills, intellectual skills.
	7.2- Written exams:
	• Short essay: to assess knowledge.
	• Commentary: to assess intellectual skills.
	7.3- <b>Practical Exams:</b> to assess practical skills, intellectual skills.
	7.4- Oral Exams: Oral exams to assess knowledge and understanding, attitude, communication
	7.5- <b>Structured oral exams:</b> to assess knowledge.
E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28
	Assessment 2: Oral exam week: 24-28
	Assessment 3: Practical exam week: 24-28
F. Weighting of Each Method of Assessment	<ul> <li>Final Written Examination 100%</li> <li>Oral Examination 100%</li> <li>Practical Examination 100%</li> <li>Total 100%</li> </ul>
8- List of References	
A. Course Notes/handouts	- Department notes, lectures and handouts
B. Essential Books	- The Lancet Handbook of Essential Concepts in Clinical Research

C. Recommended Textbooks	<u>Research methods:</u>
	- Introducing Research Methodology; A Beginner's Guide to Doing a Research Project
	- Understanding Clinical Research, Renato Lopes and Robert Harrington; ISBN-10: 0071746781   ISBN-13: 978- 0071746786
	- Users' guides to the medical
	literature: a manual for evidence-
	based clinical practice: Guyatt, G., D.
	Rennie, M. Meade and D. Cook (2002),
	AMA press Chicago.
	- <b>Research Methods in Community</b> <b>Medicine:</b> Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition Joseph Abramson, Z. H. Abramson
	<u>Computer:</u>
	- Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage.
	<ul> <li>Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd EditionEveritt, Brian S.</li> </ul>
	<ul> <li>Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021.</li> </ul>
	- Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley & Sons, 2019.

	<ul> <li>Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd, ed., Philadelphia</li> </ul>
D. Periodicals, websites	- <u>https://phrp.nihtraining.com/users/logi</u> <u>n.php</u>
	<ul> <li><u>http://www.jhsph.edu/</u></li> <li>Journal of Biomedical Education</li> </ul>
	<u>https://lagunita.stanford.edu/courses/M</u> <u>edicine/MedStats-</u> <u>SP/SelfPaced/about?fbclid=IwAR3nfir</u> LM4wpuFagLiiLik%TCP7lzPdppGgwi
	LM4wnuEqqUjLjk8TCR7lzPdnpGqwi n06L-GjFq32a62w3j6R5s9c

• Course Coordinators:

➤ Coordinators:

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

Assistant Coordinator: Assis .lecturer Shaza Fadel

Head of Department:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1<sup>st</sup> approval by <u>department council</u>: 13 /5/2013.

Date of last update & approval by department council: 6/3/2023

Mashin N.K.

Medical Statistics and	مسمى	جامعة/أكاديمية : المنيا
<b>Research Methodology</b>	المقرر	كلية / معهد: الطب
CM 100	كود المقرر	قسم: الصحة العامة والطب الوقائي

# Matrix of Coverage of Course ILOs By Contents

Contents	W ee	Intended Learning Outcomes (ILOs)			
(List of course topics)	k No	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		Α	В	С	D
Introduction : - Introduction to research. - Terminology and Rationale - Originality - Study design : -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials		A.1, A.2, A.3, A.4,	B.1, B.2, B.3, B.4,	C.1,	
- Sources of			B.3,	C.5	

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

<b></b>				
Errors in				
Medical				
Research				
- Bias and				
confounding and				
its Control.				
- Validity and				
reliability				
- The			C.2,	
questionnaire			,	
design				
- Writing the		B.3,	C.3,	D.1, D.2, D.3
<b>Research</b> Paper		,	,	, ,
or Manuscript				
- Protocol				
Writing				
- Critic				
technique for				
the literature				
review				
- Association	A.6,		C.4,	
and causation	,		,	
- Evidence -	A.5,			
based approach				
in medical				
practice				
- Ethics of	A.7			
medical				
research				
<u>Statistics</u>				
Sampling	A.8, A.9, A.11			D.4
Introduction to	A.10		C.10	D.4
Sample Size				
Calculation				
Data	A.13, A.14	B.6	C.9	D.4
presentation				
Tests of	A.15, A16	B.5	C.11	D.4
significance				
Introduction to	A.12	B.6	C.6, C7, C8	D.5, D.6
SPSS				
Proportion test	A.11	B.7, B8		D.5, D.6
Chi-square test	A.11	B.7, B8		D.5, D.6
Student T test,	A.11	B.7, B8		D.5, D.6
Paired T test				
· · ·	•	·	·	· ·

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

ANOVA test	A.11	B.7, B8		D.5, D.6
Correlation (simple and multiple)	A.11	B.7, B8		D.5, D.6
Regression	A.17	B.7, B8		D.5, D.6
Screening	A.18, A.19	B.7, B8	C.12	D.4

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

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		U						
	Intended Learning Outcomes (ILOs)							
Methods of Teaching & Learning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills				
	Α	В	С	D				
Lecture	A.1, A.2, A.3, A.4, A.5,	B.1, B.2,						
	A.6, A.7,	B.3, B.4,						
	A.8,A9,A10,A11,A12,A1	B5,B.6,						
	3 A.14, A.15, A.16,A17,	B.7, B.8						
	A.18							
Practical			C1, C.3, C4,					
			C.5, C.6,					
			C.7, C.8.					
			C.9, C.10,					
			C11,C.12					
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8,	D.1, D.2., D.4,				

C.9, C.10,

C.12

D.5, D.6

## Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

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	Assessment						
	Intended Learning Outcomes (ILOs)						
Methods of Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills			
	Α	В	С	D			
Written paper based exam	A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.14, A.15, A16, A18	B.3, B.5,					
Practical exam (Statistical exam)			C.1, C.2, C.5, C.6, C.7,C.8, C.9, C.10, C.11, C.12				
Oral exam	A.10, A11, A.12, A13, A.15, A.16, A.17, A18	B.1, B.2, B.6, B.7, B.8		D.1, D.2, D.5, D.6			

### Matrix of Coverage of Course ILOs by Methods of Assessment

#### • Course Coordinators:

► Coordinators:

Lecturers: Dr / Chrestina Monir, Dr Shaimma Mahmoud

Assistant Coordinator: Assis .lecturer Shaza Fadel

Head of Department:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1<sup>st</sup> approval by <u>department council</u>: 13 /5/2013.

Date of <u>last update</u> & approval by <u>department council</u>: 6 / 3 / 2023

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

Wathen N.K.

Торіс	Hour	Iour % of No. of		Written exam (100 marks)		Marks	Modified marks
	noui	topic	items	Knowledge	Intellectual	(%)	(%)
Research							
<ul> <li>Introduction to research.</li> <li>Terminology and Rationale</li> <li>Originality</li> </ul>	3	10%	5	4	1	7%	5%
- Writing the Research Paper or Manuscript - Protocol Writing	2	6.67%	4	1	3	13%	10%
- Association and causation	1	3.33%	3	2	1	7%	8%
- Evidence -based approach in medical practice	2	6.67%	1	1		3%	5%
- Ethics of medical research	2	6.67%	2	2		3%	6%
Statistics							
Sampling	1	3.33%	2	1	1	4%	4%
Introduction to Sample Size Calculation	1	3.33%	1	1		2%	2%
Data presentation	1	3.33%	3	2	1	5%	4%
Tests of significance	2	6.67%	2	1	1	8%	8%
Introduction to SPSS	1	3.33%	1	1		3%	3%
Screening	1	3.33%	2	1	1	3%	3%
Total	30	100%					100%

### Test blueprint for Research methodology course

Faculty of Medicine, Minia University: MD Program of Medical Parasitology

### **Course specification of :**

## "Use of Computer in Medicine"

in MD degree

University: Minia

Faculty: Medicine

**Department offering the course:** Public health and preventive medicine department

**Programme(s) on which the course is given**: First part MD in Ophthalmology

Academic year/ Level: First part of MD

OO 100					
able to:					
<b>Se</b> 1. Recognize knowledge about the software and their applications in Medicine					
2. Gain skills necessary for using and managing heath care information systems					
a					

A. Knowledge	and	A.1. Define each part of computer hardware and its function					
understanding		-	of various comput nformation managi				
		A.3. Define tele	emedicine and its	importance			
		e e	e importance of ent of healthcare	health information	on technology in		
		A.5. Describe e	electronic medical	records and obsta	cles facing it		
		A.6. Identify th	e concept of big of	lata analysis			
B. Intellectual Skills		B.1. Criticize a	doption of teleme	dicine			
		B.2. Discover factors constraining adoption of telemedicine					
C. Professional Practical Skills	and	C.1. Design framework for understanding of health information system performance					
D. General	and	D.1. Utilize computers in conducting research					
transferable Skills		D.2. Appraise adoption of telemedicine					
		D.3. Discover skills to carry out the process of improving health information system performance					
4. Course Contents	5						
Торіс			No. of hours	Lecture	Tutorial/ Practical		
Use of Computer in Mee	dicine						
General concepts Introduction to Microsoft PowerPoint			6	4	2		
	IL POW	erronn					
Health Information Syst	tems (H	HIS)	6	4	2		
Telemedicine			6	4	2		

Software Used in the Health Care

Big Data Analysis in Health

Total

5. Teaching and Learning Methods	Since COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to- face interaction activities with the online learning. 60% of study method is offline and 40% of study is online
	Online learning materials are available at Minia University site
	<ul> <li>Lectures: Face to face lectures, Pre- recorded video lectures</li> </ul>
	Practical lessons
	Assignment
	Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	• Outstanding student rewarded certificate of appreciation due to high level of achievement
	• Limited students divided into small group to make learning more effective
7. Student Assessment	
A. Student Assessment Methods	7.1- <b>Research assignment:</b> to assess general transferable skills, intellectual skills.
	7.2- Written exams:
	• Short essay: to assess knowledge.
	• Commentary: to assess intellectual skills.
	7.3- <b>Practical Exams:</b> to assess practical skills, intellectual skills.
	7.4- <b>Oral Exams:</b> Oral exams to assess knowledge and understanding, attitude, communication
	7.5- Structured oral exams: to assess knowledge.
B. Assessment Schedule (Timing of Each Method	Assessment 1: Final written exam week: 24-28
of Assessment)	Assessment 2: Oral exam week: 24-28
	Assessment 3: Practical exam week: 24-28
C. Weighting of Each Method of Assessment	Final Written Examination 100%
	Oral Examination 100%
	Practical Examination 100%

	Total 100%
8. List of References	
A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition
C. Recommended Textbooks	Data Management and Analytics for Medicine and Healthcare: Begoli, Edmon, Fusheng Wang, and Gang Luo. Springer, 2017.
D. Periodicals, websites	<ul> <li>National Institutes of Health: <u>http://www.nih.gov</u></li> <li>American Medical Informatics Association: <u>http://www.amia.org/</u></li> </ul>

- Course Coordinators:
  - ► Coordinators:
  - 1) Lecturers: Dr / Shaimma Mahmoud, Dr/ Chrestina Monir (2Assistant coordinator: Assistant lecture Shaza Fadel
- Head of Department:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1<sup>st</sup> approval by <u>department council</u>: 13 /5/2013.

Date of last update & approval by department council: 6/3/2023

Marthin N.K.

جامعة/ أكاديمية :المنيا

كلية /معهد :الطب

قسم :الصحة العامة والطب الوقائي

Use of Computer in Medicine	مسمى المقرر
CM 100	كود المقرر

### Matrix of Coverage of Course ILOs By Contents

	W e	Intended Learning Outcomes (ILOs)				
Contents (List of course topics)	e k N o	A. Knowledge & Understandin g	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
		Α	В	С	D	
Use of Computer in Medicine						
General concepts Introduction to Microsoft PowerPoint		A.1, A.2,			D.1	
Health Information Systems (HIS)		A.4, A.5		C1	D.3	
Telemedicine		A.3	B.1, .2		D.2	
Software Used in the Health Care		A.5, A.6			D.1	
Big Data Analysis in Health		A.6				

	In	Intended Learning Outcomes (ILOs)						
	f A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills				
	A	В	С	D				
Lecture	A.1 to A.6	B.1,						
Practical			C1					
Assignment	A.4	B.2		D1.D.2,D3				

### Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

## Matrix of Coverage of Course ILOs by Methods of Assessment

	Intended Learning Outcomes (ILOs)					
Methods of Assessment	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills		
	Α	В	С	D		
Written paper based exam	A.1, to A.6	B.1				
Practical computer exam			C1	D.1		
(For SPSS, PowerPoint)						
Oral Exam	A.4, A6	B.2	C.1	D.2, D.3		

• Course Coordinators:

### ► Coordinators:

2) Lecturers: Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

### (2Assistant coordinator: Assistant lecture Shaza Fadel

• Head of Department:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1<sup>st</sup> approval by <u>department council</u>: 13 /5/2013.

Date of last update & approval by department council: 6/3/2023

Mashin N.K.

Торіс	Hour	% of topic			Marks (%)	Modified marks (%)	
			items	Knowledge	Intellectual		
Use of Computer in Medicine							
General concepts Introduction to Microsoft PowerPoint	4	20%	6	4	2	30%	30%
Health Information Systems (HIS)	4	20%	4	4		20%	15%
Telemedicine	4	20%	6	2	4	25%	30%
Software Used in the Health Care	4	20%	5	4	1	20%	15%
Big Data Analysis in Health	4	20%	1	1		5%	10%
Total	20	100%	20			100%	100%

Test blueprint for Uses of computer in Medicine course

# Course Specifications of Ophthalmic Medicine in MD degree in Ophthalmology

University: Minia

Faculty: Medicine

**Department:** Ophthalmology

1-Course Information	1-Course Information			
• Academic Year/level: Second part	• Course Title: Medical ophthalmology	• <b>Code</b> OO 100		
• Number of teaching ho	ours:			
- Lectures: Total of didad	ctic -240 hours; 4 hours/week			
- <b>Practical/clinical:</b> Total	l of 300 hours; 5 hours/week			
2-Overall Aims of the course	level of clinical skills, addition to update med as clinical experience area of ophthalmolog candidates of making ap sub-specialist	to Acquire satisfactory bedside care skills, in ical knowledge as well and competence in the gy and enabling the ppropriate referrals to a		
3-Intended learning outco	mes of course (ILOs):			

Upon completion of the con	urse, the student should be able to:
A- Knowledge and understandin g	<ul> <li>A.1. Describe the etiology, clinical picture, diagnosis and management of the clinical conditions related to different aspects of ophthalmology:</li> <li>General rules of ophthalmology</li> <li>lid diseases</li> <li>Corneal diseases</li> <li>lens diseases</li> <li>uveitis</li> <li>Retinal diseases</li> <li>conjunctival diseases</li> <li>orbital diseases</li> <li>vascular diseases of the eye</li> <li>Glucoma</li> <li>Ocular tumors</li> <li>A.2. Mention the principles of :</li> <li>Epidemiology of ophthalmology related problems</li> <li>ophthalmology related radiology</li> <li>Diagnostic procedures</li> </ul>

	A.3. Memorize the facts and principles of the relevant basic and clinically supportive sciences related to ophthalmology.
	A.4. Mention the basic ethical and medicolegal principles that should be applied in practice and are relevant to ophthalmology.
	A.5. Mention the basics and standards of quality assurance to ensure good clinical practice in the field of ophthalmology.
	A.6. Mention the ethical and scientific principles of medical research methodology.
	A.7. State the impact of common health problems in the field of ophthalmology on the society and how good clinical practices improve these problems.
	B.1.Correlates the facts of relevant basic and clinically supportive sciences with clinical reasoning, diagnosis and management of common diseases related to ophthalmology
B- Intellectual Skills	B.2. Relate investigatory and analytic thinking (problem solving) approaches to common clinical situations related to ophthalmology.
SKIIS	B.3. Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the field of ophthalmology.
	B.4. Formulate management plans and alternative decisions in different situations in the field of the

	ophthalmology	
	C.1. Take proper history and examine patients in caring and respectful behaviours.	
	C.2. Perform the non-invasive/ invasive diagnostic procedures Such as X-rays, C.T & M.R.I	
	C.3. Interpret the non-invasive/invasive diagnostic procedures Such as X-rays, C.T & M.R.I	
	C.4. Perform the following non-invasive/invasive therapeutic procedures	
	C.5Assist staff in different ophthalmology	
C- Professional	C.6. Carry out patient management plans for common conditions related to ophthalmology	
and Practical Skills	C.7. Use information technology to support patient care decisions and patient education in common clinical situations related to Procedure presentation.	
	C.8. Provide health care services aimed at preventing health problems related to Procedure presentation like:	
	C.8. surgical infection of lid skin & soft tissue	
	C.9. Provide patient-focused care in common conditions related to ophthalmology, while working with health care professionals, including those from other disciplines for the conditions mentioned above in A.A.	

D- General and transferable	<ul> <li>C.10. Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets (Write a consultation note, Inform patients of a diagnosis and therapeutic plan, completing and maintaining medical records).</li> <li>D.1. Facilitate learning of junior students and other health care professionals including</li> </ul>			
Skills	their	evaluation	and assessment	
4-Course Contents				
Торіс		Lecture	Practical/Clinical	Total No. of hours
Topic		hours/week	hours/week	hours/week
lid diseases		30 min	30 min	1
Conjunctival diseases		30 min	30 min	1
Corneal diseases		30 min	30 min	1
lens diseases		30 min	30 min	1
Glaucoma		30 min	30 min	1
Uveitis		30 min	30 min	1
Intraocular tumors		30 min	30 min	1
Retinal diseases		30 min	30 min	1
Neuro-ophthalmology		30 min	30 min	1
orbital diseases		30 min	30 min	1
<ul> <li>B- Student Assessment Methods</li> <li>Didactic (lectures, seminars, tutorial)</li> <li>Clinical rounds</li> <li>(Service teaching) Observat</li> </ul>				

	<ul> <li>Perform under supervision of senior staff</li> <li>Simulations</li> <li>Case presentation</li> <li>Written &amp; oral communications</li> <li>Seminar</li> <li>journal club</li> <li>Operative</li> <li>Outpatient</li> <li>Inpatient</li> </ul>
C- Assessment Schedule (Timing of Each Method of	1-Assesment 1: written examination 2-Assessment 2: oral examination
Assessment)	3-Assessment 2: OSCE, and CIVA
	4- Logbook of attendance & absenteeism throughout the course
D- Weighting of Each Method of Assessment	Paper based exam: 100
	Clinical (OSCE and CIVA): 150
	Total: 250
8-List of References	
Course Notes/handouts	• Staff members print out of
	lectures and/or CD copies
Recommended Text Books	Kanski's Clinical Ophthalmology: A
	systematic Approach, 9 <sup>th</sup> edition, Elsevier
	2019

- Head of Department:

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C

- Prof Dr Ahmed Mohamed Kamal Elshafie

Date of <u>last update</u> & approval by department Council: 5/3/2023

## نموذج رقم (۱۱۱)

	الدوره الخاصبه بتدريس ماده	مسمى المقرر
	طب العيون لطلاب درجه	
	الدكتوراه	
	OO 100 MD	كود المقرر
	• المنيا	جامعة/أكاديمية
•	الطب البشرى	كلية / معهد
	جراحة العين	قسم

## Matrix of Coverage of Course ILOs By Contents

Intended Learning Outcomes (ILOs)				
A. Knowledge &	B. Intellectual Skills	C. Professional &	D. General & Transferable	
Understanding		Practical skills	Skills	
A	В	С	D	
1,2,3,4	1-4	1,2,3,6		
1,2,3,4	1-4	1,2,3,4,5	1	
1,2,3,4,7	1-4	1,2,3,8		
1,2,3,4,6	1-4	1,2,3,7,10	1	
1,2,3,4,5	1,3	1,2,3	1	
1,2,3,4	1-4	1,2,3	1	

1,2,3,4	1,2	1,2,3	1
1,2,3,4	1-4	1,2,3	1
1,2,3,4	1-4	1,2,3	1
1,2,3,4	1-4	1,2,3	1

E- Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

of	Intended Learning Outcomes (ILOs)				
	A. Knowledge	B. Intellectual	C. Professional &	D. General &	
5	&	Skills	Practical skills	Transferable Skills	
	Understanding				
	Α	В	С	D	
	1-2-3-4-5-6-7			1	
		1-2-3	1-2-3		
ing		1-4	1-10		

### Matrix of Coverage of Course ILOs by Methods of Assessment

ds of nent	Intended Learning Outcomes (ILOs)				
	A. Knowledge	B. Intellectual	C. Professional &	D. General & Transferable Skills	
	&	Skills	Practical skills		
	Understanding				
	A	В	С	D	
exam	1-2-3-4-5-6-7				
		1,2,3	1-2-3	1	
		1-4	1,2,3	1	
	1-2-3	1-2			

## <u>Blueprint of Postgraduate Ophthalmic medicine Course for MD degree</u> (2<sup>nd</sup> part) of Ophthalmology Department (Code: OO 100) (100 marks)

Торіс	H ou rs	K no wl ed ge %	In tel lec tu al %	W eig ht %	Ac tu al M ar k	Modifie d mark
1. Cornea and sclera	54	75	25	10	10	10
2. The eyelid	54	75	25	10	10	10
3. Disesases of lens	54	75	25	10	10	10
4. Uveitis	54	75	25	10	10	10
5. Diseases of retina	54	75	25	10	10	10
6. Orbital diseases	54	75	25	10	10	10
7. Neuro-ophthalmology	54	75	25	10	10	10
8. Glaucoma	54	75	25	10	10	10
9. Conjunctiva	54	75	25	10	10	10
10. Intraocular tumors	54	75	25	10	10	10
Total	540			100%	100	

Head of Ophthalmology department:

Prof.Dr/ Ahmed Mohamed Kamal EL-Shafie

# Course Specifications of Ophthalmic Surgery in MD degree in Ophthalmology

University: Minia

Faculty: Medicine

**Department:** Ophthalmology

Course Informat	ion	
• Academic Year/level: Second part	• Course Title: Ophthalmic surgery	• <b>Code</b> : OO 100
• Number of teaching	hours:	
- Lectures: Total of 24	0 hours; 4 hours/week	
- <b>Practical/clinical:</b> To	tal of 300 hours; 5 hours/week	
Overall Aims of the course	By the end of the course the	
	The student should	-
	Knowledge and surg	•
	for ophthalmological reasoning, diagnosis	0.
	diseases including	U
	Patients.	manipie injuieu
e	utcomes of course (ILOs): ourse, the student should be abi	le to:
	A.1. Surgeries of:	
a. Knowledge	• Lid	
and Understanding	• Anterior segment	
8	• Posterior segment	

	1.
	• orbit
	• Squint
	• Lacrimal
	- Probing
	- Plugs insertion
	- Intubation
	- Dacrocystorhinostomy
	- Dacrocystectomy
	• A.2. Mention the principles of :
	- Local anaesthesia
	- Sterilization
	• A.3. State update and evidence-based
	Knowledge of
	-Multiple injured patients
	• A.4. Memorize the facts and principles of the
	relevant basic and clinically supportive
	sciences related to ophthalmological Surgery.
	• A.5. Mention the basic ethical and medicolegal
	principles revenant to the ophthalmological
	Surgery.
	<ul> <li>A.6. Mention the basics of quality assurance to</li> </ul>
	ensure good clinical care in
	6
	ophthalmological Surgery.
	• A.7. Mention the ethical and scientific
	principles of medical research
	D 1 Completes the factor of all of
	• B.1. Correlates the facts of relevant
	basic and clinically supportive sciences
b. Intellectual Skills	with clinical reasoning, diagnosis and
JKIIIS	management of common diseases
	related to ophthalmologial Surgery.
	• B.2. Relate investigatory and analytic

	thinking (problem solving) approaches						
	to common clinical situations related to						
	<ul><li>ophthalmological Surgery.</li><li>B.3.Design and present cases ,</li></ul>						
	• B.3.Design and present cases, seminars in common problem						
	<ul> <li>B.4.Formulate management plans and</li> </ul>						
	alternative decisions in different						
	situations in the field of the						
	ophthalmological Surgery.						
	C.1. Obtain proper history and examine patients						
	in caring and respectful behaviours.						
	C.2. Order the following non-invasive/invasive						
	diagnostic procedures						
	Basal laboratory investigation						
c. Professional	-C.T. and MRI orbit						
and Practical Skills	C.2. Interment the fallenting man interview (interview						
	C.3. Interpret the following non-invasive/invasive						
	diagnostic procedures						
	-Basal laboratory investigation						
	- C.T. and MRI orbit.						

F- General and transferable Skills		<ul> <li>D.1. Perform practice-based improvement activities using a systematic methodology (audit, logbook)</li> <li>D.2. Appraises evidence from scientific studies (journal club)</li> <li>D.3. Conduct epidemiological Studies and surveys</li> <li>D.4. Perform data management including data entry and analysis.</li> <li>D.5. Facilitate learning of junior students and other health care professionals.</li> </ul>						
Course Contents		1	F					
Торіс	Торіс		Practical/Clinical hours/week	Total No. of hours hours/week				
Lid Surgeries		40 min	1 hour	2 hours				
Cornea and refr Surgeries			1 hour	2 hours				
Cataract and Glaucom	a	40 min	1 hour	2 hours				
Posterior segment Sur	geries	40 min	1 hour	2 hours				
Lacrimal surgery		40 min	1 hour	2 hours				
Orbital surgeries		40 min	1 hour	2 hours				
Teaching and Learnin Methods	<ul> <li>Clin</li> <li>Obse</li> <li>Perfestaff</li> <li>Simu</li> <li>Case</li> </ul>	ulations e presentation ten & oral comm	ision of senior					

Teaching and Learning Methods for students with limited Capacity	<ul><li>Lectures</li><li>Simulations</li></ul>
Student Assessment 1- Student Assessment	a. Written and oral
Methods	examination b. Surgical Examination: perform phaco cataract surgery c. Logbook
2- Assessment Schedule (Timing of Each Method of Assessment)	<ul> <li>1-Assesment 1: written examination</li> <li>2-Assessment 2: oral examination</li> <li>3-Assessment 3: Surgical and CIVA</li> <li>4- Logbook of attendance &amp; absenteeism throughout the course</li> </ul>
3- Weighting of Each Method of Assessment	Paper based exam: 100 Surgical and CIVA: 150 Total: 250
List of References	
Course Notes/handouts	• Staff members print out of lectures and/or CD copies
Recommended Textbooks	Ophthalmic Surgery, Principles and Practice, George L Spaeth, 4 <sup>th</sup> edition

### Head of Department: -

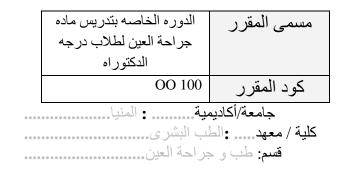
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- Prof. Dr. Ahmed Mohamed Kamal El-Shafie



Date of <u>last update</u> & approval by department Council:

5/3 /2023



### A-Matrix of Coverage of Course ILOs By Contents

	Intended Learning Outcomes (ILOs)							
Contents (List of course	A. Knowledge & Understanding	<b>B. Intellectual Skills</b>	C. Professional & Practical skills	D. General & Transferable Skills				
topics)	Α	В	С	D				
-Lid Surgeries	1-5	4	1-3	1-3				

Refractive surgeries	1-7	4	2	
Posterior segment Surgeries	1-7	4	2	5
orbit Surgeries	1-5	1-4	2	4
Cataract and glaucoma	1-5	4	2	
Lacrimal surgeries	1-5	4	1-3	

Methods of	Intended Learning Outcomes (ILOs)							
Teaching								
	A. Knowledge	<b>B. Intellectual</b>	C. Professional &	D. General &				
& Learning	&	Skills	Practical skills	Transferable Skills				
	Understanding							
	Α	В	С	D				
Lecture	1-2-3-4-5-6-7	B1-2-3-4						
Practical								
Clinical (Including grand rounds)		1-2-3-4	1-3					
Presentation/seminar				1-5				

### B-Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Training courses &	1-7	1-4	1-3	1-5
workshops				

### C- Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of	Intended Learning Outcomes (ILOs)							
Assessment								
	A. Knowledge	B. Intellectual	C. Professional &	D. General &				
	&	Skills	Practical skills	Transferable Skills				
	Understanding							
	Α	В	С	D				
			-					
Paper based exam	1-2-3-4-5-6-7							
Surgical exam		1-2	1-2					
CIVA exam	1-5	1,2,3.4	1-3					
Oral Exam	1-3	1-5						

### <u>Blueprint of Postgraduate Ophthalmic medicine Course for MD degree</u> (2<sup>nd</sup> part) of Ophthalmology Department (Code: OO 100) (100 marks)

Торіс	H ou rs	K no wl ed ge %	Su rgi cal ski lls %	W eig ht %	Ac tu al M ar k	Modifie d mark
1. Lid surgeries	90	50	50	16.6	16.6	16.6
2. Cornea and refractive	90	50	50	16.6	16.6	16.6
3. cataract and glaucoma	90	50	50	16.6	16.6	16.6
4. Posterior segment	90	50	50	16.6	16.6	16.6
5. Lacrimal surgeries	90	50	50	16.6	16.6	16.6
6. Orbital Surgeries	90	50	50	16.6	16.6	16.6
Total	540			100%	100	

Head of Ophthalmology department:

Prof. Dr/ Ahmed Mohamed Kamal EL-Shafie

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