

# AYUB MEDICAL COLLEGE ABBOTTABAD

DEPARTMENT OF MEDICAL EDUCATION



## EYE MODULE

4<sup>TH</sup> YEAR MBBS

BLOCK: M

DURATION: 1 YEAR

SESSION: 2024

STUDENT NAME

---

## **DISCLAIMER**

- Developing a study guide is a dynamic process and undergoes iteration according to the needs and priorities.
- This study guide is subjected to the change and modification over the whole academic year.
- However, students are advised to use it as a guide for respective modules.
- It is to declare that the learning objectives (general and specific) and the distribution of assessment tools (both theory and practical) are obtained from Khyber Medical University, Peshawar. These can be obtained from:  
<https://kmu.edu.pk/examination/guidelines>
- The time tables are for guiding purpose. It is to advise that final timetables are always displayed over the notice boards of each lecture hall.

Students are encouraged to provide feedback via coordinator.

## Contents

1	Module Committee:	2
2	What Is A Study Guide?	3
2.1	The study guide:	3
2.2	Module objectives.	3
2.3	Achievement of objectives.	3
3	Recommended List Of Icons	4
4	Organization of Module	5
4.1	Introduction:	5
4.2	Rationale	5
5	Learning Objectives	6
5.1	General Learning Outcomes	6
5.1.1	Knowledge	6
5.1.2	Skills	6
5.2	Specific learning objectives	8
5.3	Clinicals Schedule	<b>Error! Bookmark not defined.</b>
6	Examination and Methods of Assessment:	17
6.1	Instruction:	<b>Error! Bookmark not defined.</b>
7	Learning Opportunities and Resources	2
7.1	Books:	2
8	For inquiry and troubleshooting	3
9	Course Feedback Form	4

## 1 Module Committee:

s. no	Name	Departm ent	Role
1.	Prof. Dr. Umar Farooq		CEO & Dean
2.	Prof. Dr. Irfan U. Khattak		Director DME
<b>Module Team</b>			
3.	Dr. Danish Zafar	EYE	Block Coordinator
4.	Prof Hasan Sajid Kazmi	EYE	Module Coordinator
5.	Prof. Dr Zulfiqar Ali	EYE	Member
6.	Dr. Amir Zeb	EYE	Member
7.	Dr. Bushra Aaqil	EYE	Member

## 2 What Is A Study Guide?

It is an aid to Inform students how student learning program of the module has been organized, to help students organize and manage their studies throughout the module and guide students on assessment methods, rules and regulations.


### 2.1 The study guide:

- Communicates information on organization and management of the module.
- This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings.

### 2.2 Module objectives.

- Provides a list of learning resources such as books, computer-assisted learning programs, weblinks, and journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's performance.

### 2.3 Achievement of objectives.

-  Focuses on information pertaining to examination policy, rules and regulations.



### 3 Recommended List Of Icons



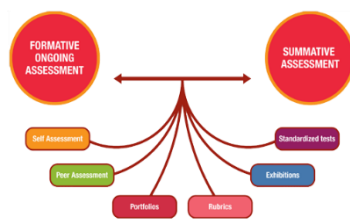
**Introduction To Case**



**For Objectives**



**Critical Questions**



**Assessment**



**Resource Material**

## 4 Organization of Module

### 4.1 Introduction:

*Welcome to the vision module. As we know that vision is one of the special senses and very important in the sense that a large percentage of new information gathered by a person is by visual means.*

*A person who is blind can be a big burden on the society. We should try to decrease the incidence of preventable blindness by taking appropriate measures to limit the disease and educate the masses by running awareness campaigns for the general public. In case of non preventable blindness we should come up with ways to make a blind person more useful to the society.*

*In this module you will learn about the structure and functions of the eye, visual pathways and the visual cortex as well as common diseases of the eye and their treatment.*

### 4.2 Rationale

*The end organ responsible for vision is the eye. It is a part of the central nervous system and as there is limited regeneration in the CNS, most of the parts of the eye also have no or very limited regeneration power.*

*The eye has got a complex structure and to understand its function it is necessary to know the different parts of the eye, their organization and functioning of the individual parts and their integration with each other. In this way we would be able to treat the diseases of the eyes in timely manner and more efficiently.*

*The main function of the eye is to transmit light into the eye, refract and focus it onto the retina, from where the photoreceptors would be stimulated and send an impulse to the brain through visual pathway. The brain processes the received signals and an image is formed.*

*The eye is affected by various internal and external factors. Moreover, many systemic diseases such as diabetes, hypertension etc. may show signs in the eye and can disturb its function.*

*The student needs to have this knowledge of structure, function and common diseases of the eye and their treatment so that he / she understands it properly and is in a better position to deal with the problems of the eye.*



## 5 Learning Objectives

### 5.1 General Learning Outcomes

By the end of this module the students would be able to;

#### 5.1.1 Knowledge

1. Describe the visual standards.
2. Define and classify blindness.
3. Describe the anatomy and physiology of visual pathway and different visual field defects.
4. Describe the basics and usage of optical coherence tomography (OCT), visual fields and ultrasonography in common eye disorders.
5. Differentiate different types of lid bumps and propose a management plan for it.
6. Discuss ptosis, ectropion and entropion and describe the treatment options.
7. Examine bulgy eyes and investigate different causes of it.
8. Describe the differential diagnosis of red eye.
9. Explain the pathophysiology, and management of different conjunctival inflammations.
10. Explain the pathophysiology, and management of different corneal inflammations.
11. Discuss the pathophysiology, and management of uveal inflammations.
12. Describe the aqueous humor dynamics and its role in glaucoma.
13. Enumerate different causes of gradual visual loss and propose their management plan.
14. Enumerate different causes of sudden visual loss (painful/painless) and propose their management plan.
15. Describe squint, its presentation and principles of management.
16. Enumerate different causes of double vision and propose their management plan.
17. Enumerate different causes of childhood blindness and propose their management plan.
18. Discuss the clinical importance of white pupil in children.
19. Define amblyopia, describe its causes and management.
20. Differentiate between different terms used in ocular trauma.
21. Propose the management plan of ocular injuries.

#### 5.1.2 Skills

1. Take detailed history in ocular conditions
2. Check visual acuity.
3. Perform pupillary examination.
4. Perform visual fields examination by confrontation methods.
5. Identify parts of slit-lamp
6. Examine anterior segment on slit lamp



7. Perform direct ophthalmoscopy
  8. Identify trial lenses used in refraction.
  9. Perform indirect ophthalmoscopy
  10. Describe/interpret the results of OCT, Visual fields, Biometry, B-scan, FFA,
- Corneal topography
11. Observe Eversion of upper lids
  12. Perform ptosis examination.
  13. Observe ptosis surgery
  14. Examine common lid abnormalities (Ectropion, Entropion, Chalazion, Stye)
  15. Identify instruments used in lids surgery
  16. Observe lid reconstruction procedures
  17. Observe proptosis
  18. Perform topical anesthesia and staining.
  19. Observe corneal foreign body removal.
  20. Observe corneal scrapping.
  21. Observe keratoplasty.
  22. Perform lacrimal regurgitation test.
  23. Observe DCR surgery and identify instruments used
  24. Observe first aid to Ocular trauma
  25. Perform eye wash in chemical injury.
  26. Observe OGI surgery.
  27. Examine normal, glaucomatous and swollen disc
  28. Detect common retinal conditions
  29. Differentiate different retinal vascular conditions.
  30. Identify RD in pictures
  31. Observe Retinal detachment surgery
  32. Use of lasers in eye
  33. Intravitreal injections
  34. Observe goldman tonometry
  35. Observe Glaucoma filtration surgery
  36. Observe congenital glaucoma examination (EUA) and surgery
  37. Detect cataract on ocular examination
  38. Observe types of Adult and Congenital cataract surgery
  39. Perform extraocular movements and squint examination
  40. Perform cover / uncover / alternate cover tests
  41. Identify the pattern of squint (Esotropia vs. Exotropia)
  42. Observe squint surgery

## 5.2 Table Of Specifications (TOS)

### VISION MODULE 4<sup>TH</sup> YEAR

#### Theme 1:- FOUNDATION OF OPHTHALMOLOGY

5.2.1	5.2.2 Learning objectives Theme 1: Foundation of Ophthalmology					
Topic	Learning objectives	MIT	Tools	Time	TEACHER NAME	Asmt
Standards Of Vision and Blindness	1. Discuss visual standards and blindness according to WHO classification.	Lecture	Multimedia +lecture hall	01	PROF DR. ZULFIQUAR	MCQ
Pupil Reflexes and Drugs Used In Common Eye Conditions	2. Describe the normal and abnormal pupil reflexes. 3. Discuss drugs used in common eye diseases.	Lecture	Multimedia +lecture hall	01	PROF DR. ZULFIQUAR	MCQ
Visual Pathway and Visual Field Defects	4. Describe the visual pathway. 5. Describe the common visual field defects.	Lecture	Multimedia +lecture hall	01	PROF DR. ZULFIQUAR	MCQ
Optical Coherence Tomography (OCT) and Visual fields (VF)	6. Discuss the uses of OCT and VF in ophthalmology.	Lecture	Multimedia +lecture hall	01	DR.AMIR	MCQ
Fundus Fluorescein Angiography (FFA) and Ultrasonography	7. Discuss the uses of FFA and Ultrasonography in ophthalmology.	Lecture	Multimedia +lecture hall	01	DR.AMIR	MCQ
Optics & Eye	8. Discuss visual functions (visual acuity, color vision, contrast sensitivity, light brightness), Refraction, Pseudophakia, Aphakia, and Anisometropia	Lecture	Multimedia +lecture hall	01	DR. DANISH	MCQ
Refractive Errors	9. Discuss pathophysiology and clinical presentation of myopia, hypermetropia, astigmatism and presbyopia	Lecture	Multimedia +lecture hall	01	DR. DANISH	MCQ
Correction Of Refractive Errors	10. Describe management of myopia, hypermetropia, astigmatism and presbyopia	Lecture	Multimedia +lecture hall	01	DR. DANISH	MCQ
Differential Diagnosis Of Lid Bumps	11. Discuss overview of different causes of lid bumps.	Lecture	Multimedia +lecture hall	01	DR. DANISH	MCQ
Chalazion, Stye	12. Describe pathophysiology and management of chalazion and stye.	Lecture	Multimedia +lecture hall	01	DR. DANISH	MCQ

Tumors of Eyelids	13. Discuss different eyelid tumors and its pathogenesis.	Lecture	Multimedia +lecture hall	01	<b>DR. DANISH</b>	<b>MCQ</b>
-------------------	---	---------	--------------------------------	----	-----------------------	------------

## Theme 2:-

5.2.3 Module name GIT & Hepatobiliary II)						
Topic	LEARNING OBJECTIVES	MIT	TOOLS	TIME	TEACHER NAME	Asmt
Management of Lid Bumps	14. Describe management plan of lid bumps.	Lecture	Multimedia +lecture hall	02	<b>DR. DANISH</b>	MCQS
Ptosis	15. Discuss causes of ptosis, assessment and their management.	Lecture	Multimedia +lecture hall	01	<b>DR. DANISH</b>	MCQS
Trichiasis, Entropion and Ectropion	16. Discuss Trichiasis, Entropion and Ectropion, assessment and their management.	Lecture	Multimedia +lecture hall	01	<b>DR. DANISH</b>	MCQS
Proptosis – Basics	17. Discuss the etiology, clinical features, investigation and management of proptosis in children and adults	Lecture	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQS
Preseptal and Orbital Cellulitis	18. Discuss the etiology, clinical features, investigation and management of proptosis in children and adults. 19. Enumerate Differential diagnosis / causes of proptosis in children and adults.	Lecture	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQS
Thyroid Eye disease (TED)	20. Discuss the etiology, clinical features, investigation and management of TED	Lecture	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQS
Myasthenia Gravis & Migraine	21. Discuss the etiology, clinical features, investigation and management of Myasthenia Gravis. 22. Discuss the etiology, clinical features, investigation and management of Migraine.	Lecture	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQS
Red eye	23. Enumerate causes of red eye. 24. Describe pathophysiology and management of different conjunctival (Bacterial/Viral/Fungal/Allergic) inflammations.	Lecture	Multimedia +lecture hall	02	<b>DR. BUSHRA</b>	MCQS
Corneal Inflammations/	25. Discuss the etiology, clinical features, investigation and	Lecture	Multimedia +lecture	01	<b>DR. BUSHRA</b>	MCQS

Infections	management of non-infectious corneal inflammations. 26. Discuss investigations for corneal ulcers.		hall			
Bacterial Keratitis	27. Discuss the etiology, clinical features, investigation and management of different bacterial corneal ulcers.	Lecture	Multimedia +lecture hall	01	<b>DR. BUSHRA</b>	MCQS
Fungal, Viral & Acanthamoeba Keratitis	28. Discuss the etiology, clinical features, investigation and management of different fungal, viral & acanthamoeba corneal ulcers.	Lecture	Multimedia +lecture hall	02	<b>DR. BUSHRA</b>	MCQS
Dacryocystitis	29. Discuss the etiology, clinical features, investigation and management of congenital nasolacrimal duct obstruction. 30. Assess the time of probing in children. 31. Differentiate between acute, acute on chronic and chronic Dacryocystitis. 32. Discuss the etiology, clinical features, investigation and management of Dacryocystitis.	Lecture	Multimedia +lecture hall	01	<b>DR. BUSHRA</b>	MCQS
Dry Eyes	33. Discuss the etiology, clinical features, investigation and management of Dry Eyes with special emphasis on Vit. A deficiency and Sjogren's syndrome.	Lecture	Multimedia +lecture hall	01	<b>DR. BUSHRA</b>	MCQS
Pterygium, Pseudo-Pterygium, Episcleritis & Scleritis	34. Describe differences between Pterygium, Pseudo-ptyerygium, Episcleritis & Scleritis and their management.	Lecture	Multimedia +lecture hall	01	<b>DR. BUSHRA</b>	MCQS

5.2.4 Module name (Renal II)						
<b>Topic</b>		<b>MIT</b>	<b>TOOLS</b>	<b>TIME</b>	<b>TEACHER NAME</b>	<b>ASSESSMENT</b>

Blepharitis	35. Discuss the etiology, clinical features, investigation and management of blepharitis.	Lecture	Multimedia +lecture hall	01	<b>DR. DANISH</b>	MCQ
Basic Concepts In Ocular Trauma	36. Discuss definitions, classification & clinical evaluation of ocular injuries and principles of management. 37. Discuss corneal and conjunctival foreign bodies and their treatment.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Open Globe Injury (OGI) / IOFB / Sympathetic Ophthalmia (SO)	38. Classify OGI. 39. Discuss the etiology, clinical features, investigation and management of OGI and IOFB. 40. Discuss the etiology, clinical features, investigation and management of SO.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Closed Globe Injury (CGI) Orbital Floor Injury	41. Discuss the etiology, clinical features, investigation and management of CGI. 42. Classify CGI.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Radiation, Thermal, Chemical Injuries	43. Discuss the etiology, clinical features, investigation and management of radiation injury. 44. Discuss the etiology, clinical features, investigation and management of thermal injury 45. Discuss the etiology, clinical features, investigation and management of chemical injury.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Visual Rehabilitation	46. Discuss various options of visual rehabilitation after ocular trauma. 47. Discuss rehabilitation services for blind people in our setup.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Uveitis – Basics	48. Discuss Definitions, classifications, history workup of uveitis.	Lecture	Multimedia +lecture hall	<b>01</b>	<b>DR. AMIR</b>	MCQ

Anterior & Posterior Uveitis	<p>49. Discuss the etiology, clinical features, investigation and management of anterior uveitis.</p> <p>50. Discuss the etiology, clinical features, investigation and management of Posterior Uveitis.</p>	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Visual Loss & Intraocular Pressure (IOP)	<p>51. Classify causes of visual loss in following order:</p> <p>52. Visual Loss associated with anterior segment.</p> <p>53. Visual Loss associated with Posterior segment.</p> <p>54. Discuss Aqueous humor dynamics and its role in IOP.</p> <p>55. Enumerate causes of gradual &amp; sudden visual loss.</p> <p>56. Define and Classify Glaucoma.</p>	Lecture	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Open angle glaucoma	<p>57. Discuss the differences between POAG, NTG and OHT.</p> <p>58. Discuss the etiology, clinical features, investigation and management of POAG.</p> <p>59. Discuss the etiology, clinical features, investigation and management of NTG.</p> <p>60. Discuss the etiology, clinical features, investigation and management of OHT.</p>	Lecture	Multimedia +lecture hall	01 01	<b>PROF DR. SAJID</b>	MCQ
Primary Angle Closure Glaucoma (PACG)	<p>61. Discuss briefly the stages of PACG.</p> <p>62. Discuss the etiology, clinical features, investigation and management of acute angle closure.</p>	Lecture	Multimedia +lecture hall	01 01	<b>PROF DR. SAJID</b>	MCQ

Neovascular Glaucoma & Lens Induced Glaucoma	63. Discuss the etiology, clinical features, investigation and management of Neovascular glaucoma. 64. Discuss the etiology, clinical features, investigation and management of lens induced glaucoma.	Lecture	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Treatment Options In Glaucoma	65. Enumerate different treatment options in glaucoma. 66. Discuss the indications of each treatment option.	Lecture	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Cataract	67. Define cataract. 68. Describe the types of Age related cataract. 69. Describe the pathogenesis and complications of cataract. 70. Describe the management of cataract.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Cataract Surgery Complications	71. Discuss the etiology, clinical features, investigation and management of Endophthalmitis. 72. Discuss the etiology, clinical features, investigation and management of Panophthalmitis.	Lecture	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Corneal Ectasia, Dystrophy & Degeneration	73. Discuss the etiology, clinical features, investigation and management of keratoconus. 74. Give overview of corneal dystrophies and degenerations.	Lecture	Multimedia +lecture hall	<b>01</b>	<b>Dr. Bushra</b>	MCQ
Diabetic Eye Disease	75. Discuss the effects of diabetes on eye. 76. Discuss the etiology, clinical features, investigation and management of Diabetic Eye Disease (Diabetic Retinopathy and maculopathy).	Lecture	Multimedia +lecture hall	<b>01</b>	<b>PROF DR. SAJID</b>	MCQ

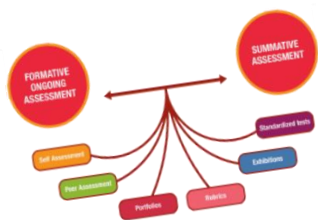
**Theme 4:-**

5.2.5 Module name (Endocrinology and Reproduction II)						
Topic		MIT	Tool	Time	Teacher name	Asmt
Hypertensive Retinopathy	77. Discuss the effects of hypertension on eye. 78. Discuss the etiology, clinical features, investigation and management of Hypertensive Retinopathy.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Central Retinal Vein Occlusion (CRVO) And	79. Discuss the etiology, clinical features, investigation and management of CRVO.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Central Retinal Artery Occlusion (CRAO)	80. Discuss the etiology, clinical features, investigation and management of CRAO.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Retinal Detachment (RD)	81. Discuss the etiology, clinical features, investigation and management of RD.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Choroidal Melanoma	82. Discuss the etiology, clinical features, investigation and management of choroidal melanoma. 83. Describe the importance of this condition on mortality.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Night Blindness – Retinitis Pigmentosa, Vit. A Deficiency	84. Discuss the etiology, clinical features, investigation and management of Retinitis pigmentosa. 85. Discuss the etiology, clinical features, investigation and management of Vit. A deficiency.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Optic neuritis	86. Classify optic neuritis. 87. Discuss the etiology, clinical features, investigation and management of optic neuritis.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ
Hereditary, Nutritional &	88. Discuss the etiology, clinical features,	<b>Lecture</b>	Multimedia +lecture	01	<b>PROF DR. ZULFIQUAR</b>	MCQ



Toxic Optic Neuropathies	investigation and management of these optic neuropathies.		hall			
Papilledema	89. Describe the difference between papilledema and disc swelling. 90. Discuss the etiology, clinical features, investigation and management of papilledema.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ
White pupil (leukocoria) and Retinoblastoma (RB)	91. Describe the importance of white pupil in children. 92. Differentiate different causes of white pupil in children. 93. Discuss investigations in white pupil. 94. Discuss the etiology, clinical features, investigation and management of RB.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>DR. AMIR</b>	MCQ
Congenital Cataract	95. Define congenital cataract. 96. Describe the types of congenital cataracts. 97. Describe the pathogenesis and complications of congenital cataracts. 98. Describe the management of congenital cataracts.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>DR.AMIR</b>	MCQ
Congenital Glaucoma	99. Discuss the etiology, clinical features, investigation and management of Congenital Glaucoma.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. SAJID</b>	MCQ
Amblyopia	100. Define Amblyopia. 101. Discuss the etiology, clinical features, investigation and management of amblyopia.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ
Squint – Basics	102. Discuss definitions, clinical evaluation of squint and principles of management	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ
Concomitant Squint Esotropia	103. Define concomitant squint. 104. Discuss the etiology, clinical features, investigation and management of	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ

	esotropia.					
Exotropia	105. Discuss the etiology, clinical features, investigation and management of exotropia.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ
Diplopia & Incomitant Squint	106. Discuss differential diagnosis/causes of diplopia. 107. Define incomitant squint. 108. Discuss the etiology, clinical features, investigation and management of 3 <sup>rd</sup> nerve palsy. 109. Discuss the etiology, clinical features, investigation and management of 4 <sup>th</sup> nerve palsy. 110. Discuss the etiology, clinical features, investigation and management of 6 <sup>th</sup> nerve palsy.	<b>Lecture</b>	Multimedia +lecture hall	01	<b>PROF DR. ZULFIQUAR</b>	MCQ



## 6 Examination and Methods of Assessment:

The year-4 will be assessed in 5 blocks.

- 1) Block-1 (Neurosciences-2 module) will be assessed in **paper-J**.
- 2) Block-2 (GIT and hepatobiliary module-2 will be assessed in **paper-K**.
- 3) Block-3 (Renal-2, Endocrine and Reproduction-2 module) will be assessed in **paper-L**.
- 4) Block-4 (ENT module) will be assessed in **paper M-1**.
- 5) Block-5 (Eye module) will be assessed in **paper M-2**.
- 6) Each written paper consists of 120 MCQs except for ENT & Eye papers which includes 90 MCQs each.
- 7) Internal assessment will be added to final marks in KMU.
- 8) For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCE station will be 5, while the rest of the modules are allotted 6 marks per OSCE station.
- 9) Practical assessment will be in the form of OSPE/OSCE which will also include embedded viva stations.

## Assessment Plan for 4<sup>th</sup> Year MBBS

Theory paper	Modules	Theory marks	Internal assessment theory (10%)	OSPE/OSPE	Internal assessment OSPE/OSPE(10%)	TOTAL MARKS
Paper J	Neurosciences-2	120	13	120	13	266
Paper K	GIT-2	120	13	120	13	266
Paper L	Renal-2 and Endocrine and Reproduction	120	14	120	13	267
Paper M-1	ENT	90	10	75*	8	183
Paper M-2	EYE	90	10	75*	8	183
Research**						35
<b>Total Marks</b>		<b>480</b>	<b>53</b>	<b>500</b>	<b>67</b>	<b>1200</b>

\*For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCE station will be 5, while the rest of the modules are allotted 6 marks per OSPE/OSCE station.

\*\*Research viva of 20 marks will be conducted in paper-L. However, the rest of the 15 marks will be decided by the concerned department internally for the contribution of the students in research project/thesis.

## Paper M-2 (Eye module)

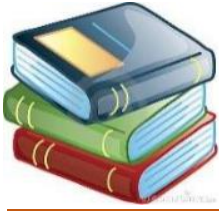
### Table-9: MCQs

Module	Total MCQs
Eye	90

### Table-10: OSCE

Module	Total OSCE stations
Eye	15

- For blocks J, K, and L, a minimum of 20 stations will be used in final exams. Total marks will be 120 (6 marks for each station).
- For M-1 and M-2, there will be 15 stations during each assessment with 5 marks per station.



## 7 Learning Opportunities and Resources

### 7.1 Books:

1. Ophthalmology Shafi Jatoi
2. Clinical Ophthalmology Jack J Kanski
3. Parsons Diseases of the Eye

## 8 For inquiry and troubleshooting



**Please contact**  
*Dr Danish Zafar*  
*Chairperson EYE Department*

*Ayub Medical Institution  
Abbottabad*

## 9 Course Feedback Form

Course Title: \_\_\_\_\_

Semester/Module \_\_\_\_\_ Dates: \_\_\_\_\_

Please fill the short questionnaire to make the course better.

Please respond below with 1, 2, 3, 4 or 5, where 1 and 5 are explained.

### THE DESIGN OF THE MODLUE

- A. Were objectives of the course clear to you?    Y     N
- B. The course contents met with your expectations   
     I. Strongly disagree                      5. Strongly agree
- C. The lecture sequence was well-planned   
     I. Strongly disagree                      5. Strongly agree
- D. The contents were illustrated with   
     I. Too few examples                      5. Adequate examples
- E. The level of the course was   
     I. Too low                                      5. Too high
- F. The course contents compared with your expectations   
     I. Too theoretical                      5. Too empirical
- G. The course exposed you to new knowledge and practices   
     I. Strongly disagree                      5. Strongly agree
- H. Will you recommend this course to your colleagues?   
     I. Not at all                                  5. Very strongly

### THE CONDUCT OF THE MODLUE

- A. The lectures were clear and easy to understand   
     I. Strongly disagree                      5. Strongly agree
- B. The teaching aids were effectively used   
     I. Strongly disagree                      5. Strongly agree
- C. The course material handed out was adequate   
     I. Strongly disagree                      5. Strongly agree
- D. The instructors encouraged interaction and were helpful   
     I. Strongly disagree                      5. Strongly agree



E. Were objectives of the course realized?    Y

F. Please give overall rating of the course

90% - 100% (     )

60% - 70% (     )

80% - 90% (     )

50% - 60% (     )

70% - 80% (     )

below 50% (     )

Please comment on the strengths of the course and the way it was conducted.

---

---

Please comment on the weaknesses of the course and the way it was conducted.

---

Please give suggestions for the improvement of the course.

Optional – Your name and contact address:

---

Thank you!!

---