



EYE Module

4th Year MBBS

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Khyber Medical University (KMU) Vision:

Khyber Medical University will be the global leader in health sciences academics and research for efficient and compassionate health care.

Khyber Medical University (KMU) Mission:

Khyber Medical University aims to promote professional competence through learning and innovation for providing comprehensive quality health care to the nation.

Institute of Health Professions Education & Research (IHPER) Mission:

To produce leaders, innovators and researchers in health professions education who can apply global knowledge to resolve local issues.

Teaching Hours Allocation

Table 1: Teaching Hours Allocation

| Theme | In class teaching (Hours) | Clinicals (Hours) | Total (Hours) |
|---|---------------------------|-------------------|---------------|
| Theme 1: Foundation of Ophthalmology | 08 | 25 | 33 |
| Theme 2: Lid Abnormalities & Bulging Eyes | 10 | 21 | 31 |
| Theme 3: Red Eye | 17 | 14 | 31 |
| Theme 4: Visual loss | 18 | 15 | 33 |
| Theme 5: Childhood Blindness & Crossed Eyes | 09 | 21 | 30 |
| Total | 62 | 96 | 158 |

Learning Objectives

By the end of Eye Module, 4th year MBBS students will be able to:

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.

Specific Learning Objectives

Table 2: Theme I

| Theme 1: Foundation of Ophthalmology | | |
|---|---|-------|
| Topic | Learning objectives | Hours |
| Standards Of Vision and Blindness | 1. Discuss visual standards and blindness according to WHO classification. | 01 |
| 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. | 01 |
| Visual Pathway and Visual Field Defects | 4. Describe the visual pathway. 5. Describe the common visual field defects. | 01 |
| Optical Coherence Tomography (OCT) and Visual fields (VF) | 6. Discuss the uses of OCT and VF in ophthalmology. | 01 |
| Fundus Fluorescein Angiography (FFA) and Ultrasonography | 7. Discuss the uses of FFA and Ultrasonography in ophthalmology. | 01 |
| Optics & Eye | 8. Discuss visual functions (visual acuity, color vision, contrast sensitivity, light brightness), Refraction, Pseudophakia, Aphakia, and Anisometropia | 01 |
| Refractive Errors | 9. Discuss pathophysiology and clinical presentation of myopia, hypermetropia, astigmatism and presbyopia | 01 |
| Correction of Refractive Errors | 10. Describe management of myopia, hypermetropia, astigmatism and presbyopia. | 01 |

Table 3: Theme 2

| Theme 2: Lid abnormalities & Bulging Eyes | | |
|--|--|--------------|
| Topic | Learning objectives | Hours |
| Differential Diagnosis Of Lid Bumps | 1. Discuss overview of different causes of lid bumps. | 01 |
| Chalazion, Stye | 2. Describe pathophysiology and management of chalazion and stye. | 01 |
| Tumors of Eyelids | 3. Discuss different eyelid tumors and its pathogenesis. | 01 |
| Management of Lid Bumps | 4. Describe management plan of lid bumps. | 02 |
| Ptosis | 5. Discuss causes of ptosis, assessment and their management. | 01 |
| Trichiasis, Entropion and Ectropion | 6. Discuss Trichiasis, Entropion and Ectropion, assessment and their management. | 01 |
| Proptosis - Basics | 7. Discuss the etiology, clinical features, investigation and management of proptosis in children and adults | 01 |
| Preseptal and Orbital Cellulitis | 8. Discuss the etiology, clinical features, investigation and management of proptosis in children and adults. 9. Enumerate Differential diagnosis / causes of proptosis in children and adults. | 01 |
| Thyroid Eye disease (TED) | 10. Discuss the etiology, clinical features, investigation and management of TED. | 01 |
| Myasthenia Gravis & Migraine | 11. Discuss the etiology, clinical features, investigation, and management of Myasthenia Gravis. 12. Discuss the etiology, clinical features, investigation, and management of Migraine. | 01 |

Table 4: Theme 3

| Theme 3: Red Eye | | |
|--|---|--------------|
| Topic | Learning objectives | Hours |
| Red eye | <ol style="list-style-type: none"> 1. Enumerate causes of red eye. 2. Describe pathophysiology and management of different conjunctival (Bacterial/Viral/Fungal/Allergic) inflammations. | 02 |
| Corneal Inflammations/Infections | <ol style="list-style-type: none"> 3. Discuss the etiology, clinical features, investigation, and management of non-infectious corneal inflammations. 4. Discuss investigations for corneal ulcers. | 01 |
| Bacterial Keratitis | <ol style="list-style-type: none"> 5. Discuss the etiology, clinical features, investigation, and management of different bacterial corneal ulcers. | 01 |
| Fungal, Viral & Acanthamoeba Keratitis | <ol style="list-style-type: none"> 6. Discuss the etiology, clinical features, investigation, and management of different fungal, viral & acanthamoeba corneal ulcers. | 02 |
| Dacryocystitis | <ol style="list-style-type: none"> 7. Discuss the etiology, clinical features, investigation, and management of congenital nasolacrimal duct obstruction. 8. Assess the time of probing in children. 9. Differentiate between acute, acute on chronic and chronic Dacryocystitis. 10. Discuss the etiology, clinical features, investigation, and management of Dacryocystitis. | 01 |
| Dry Eyes | <ol style="list-style-type: none"> 11. Discuss the etiology, clinical features, investigation, and management of Dry Eyes with special emphasis on Vit. A deficiency and Sjogren's syndrome. | 01 |
| Blepharitis | <ol style="list-style-type: none"> 12. Discuss the etiology, clinical features, investigation, and management of blepharitis. | 01 |

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|--|---|----|
| Pterygium, Pseudo-Pterygium, Episcleritis & Scleritis | 13. Describe differences between Pterygium, Pseudo-ptyerygium, Episcleritis & Scleritis and their management. | 01 |
| Basic Concepts In Ocular Trauma | 14. Discuss definitions, classification & clinical evaluation of ocular injuries and principles of management. 15. Discuss corneal and conjunctival foreign bodies and their treatment. | 01 |
| Open Globe Injury (OGI) / IOFB / Sympathetic Ophthalmia (SO) | 16. Classify OGI. 17. Discuss the etiology, clinical features, investigation, and management of OGI and IOFB. 18. Discuss the etiology, clinical features, investigation, and management of SO. | 01 |
| Closed Globe Injury (CGI) Orbital Floor Injury | 19. Discuss the etiology, clinical features, investigation, and management of CGI. 20. Classify CGI. | 01 |
| Radiation, Thermal, Chemical Injuries | 21. Discuss the etiology, clinical features, investigation, and management of radiation injury. 22. Discuss the etiology, clinical features, investigation, and management of thermal injury 23. Discuss the etiology, clinical features, investigation, and management of chemical injury. | 01 |
| Visual Rehabilitation | 24. Discuss various options of visual rehabilitation after ocular trauma. 25. Discuss rehabilitation services for blind people in our setup. | 01 |
| Uveitis - Basics | 26. Discuss Definitions, classifications, history & workup of uveitis. | 01 |
| Anterior & Posterior Uveitis | 27. Discuss the etiology, clinical features, investigation, and management of Anterior uveitis. 28. Discuss the etiology, clinical features, investigation, and management of Posterior Uveitis. | 01 |

Table 5: Theme 4

| Theme 4: Visual loss | | |
|--|--|--------------|
| Topic | Learning objectives | Hours |
| Visual Loss & Intraocular Pressure (IOP) | <ol style="list-style-type: none"> 1. Classify causes of visual loss in following order: 2. Visual Loss associated with Anterior segment. 3. Visual Loss associated with Posterior segment. 4. Discuss Aqueous humor dynamics and its role in IOP. 5. Enumerate causes of gradual & sudden visual loss. 6. Define and Classify Glaucoma. | 01 |
| Open angle glaucoma | <ol style="list-style-type: none"> 7. Discuss the differences between POAG, NTG and OHT. 8. Discuss the etiology, clinical features, investigation, and management of POAG. 9. Discuss the etiology, clinical features, investigation, and management of NTG. 10. Discuss the etiology, clinical features, investigation, and management of OHT. | 01 |
| Primary Angle Closure Glaucoma (PACG) | <ol style="list-style-type: none"> 11. Discuss the stages of PACG. 12. Discuss the etiology, clinical features, investigation, and management of Acute angle closure. | 01 |
| Neovascular Glaucoma & Lens Induced Glaucoma | <ol style="list-style-type: none"> 13. Discuss the etiology, clinical features, investigation, and management of Neovascular glaucoma. | 01 |

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|---|--|----|
| | 14. Discuss the etiology, clinical features, investigation, and management of lens induced glaucoma. | |
| Treatment Options In Glaucoma | 15. Enumerate different treatment options in glaucoma. 16. Discuss the indications of each treatment option. | 01 |
| Cataract | 17. Define cataract. 18. Describe the types of Age-related cataract. 19. Describe the pathogenesis and complications of cataract. 20. Describe the management of cataract. | 01 |
| Cataract Surgery Complications | 21. Discuss the etiology, clinical features, investigation, and management of Endophthalmitis. 22. Discuss the etiology, clinical features, investigation, and management of Panophthalmitis. | 01 |
| Corneal Ectasia, Dystrophy & Degeneration | 23. Discuss the etiology, clinical features, investigation, and management of keratoconus. 24. Give overview of corneal dystrophies and degenerations. | 01 |
| Diabetic Eye Disease | 25. Discuss the effects of diabetes on eye. 26. Discuss the etiology, clinical features, investigation, and management of Diabetic Eye Disease (Diabetic Retinopathy and maculopathy). | 01 |
| Hypertensive Retinopathy | 27. Discuss the effects of hypertension on eye. 28. Discuss the etiology, clinical features, investigation, and management of Hypertensive Retinopathy. | 01 |

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|---|---|----|
| Central Retinal Vein Occlusion (CRVO) And | 29. Discuss the etiology, clinical features, investigation, and management of CRVO. | 01 |
| Central Retinal Artery Occlusion (CRAO) | 30. Discuss the etiology, clinical features, investigation, and management of CRAO. | 01 |
| Retinal Detachment (RD) | 31. Discuss the etiology, clinical features, investigation, and management of RD. | 01 |
| Choroidal Melanoma | 32. Discuss the etiology, clinical features, investigation, and management of choroidal melanoma. 33. Describe the importance of this condition on mortality. | 01 |
| Night Blindness - Retinitis Pigmentosa, Vit. A Deficiency | 34. Discuss the etiology, clinical features, investigation, and management of Retinitis pigmentosa. 35. Discuss the etiology, clinical features, investigation, and management of Vit. A deficiency. | 01 |
| Optic neuritis | 36. Classify optic neuritis. 37. Discuss the etiology, clinical features, investigation, and management of optic neuritis. | 01 |
| Hereditary, Nutritional & Toxic Optic Neuropathies | 38. Discuss the etiology, clinical features, investigation, and management of these optic neuropathies. | 01 |
| Papilledema | 39. Describe the difference between papilledema and disc swelling. 40. Discuss the etiology, clinical features, investigation, and management of papilledema. | 01 |

Table 6: Theme 5

| Theme 5: Childhood Blindness & Crossed Eyes | | |
|--|---|--------------|
| Topic | Learning objectives | Hours |
| White pupil (leukocoria) and Retinoblastoma (RB) | <ol style="list-style-type: none"> 1. Describe the importance of white pupil in children. 2. Differentiate different causes of white pupil in children. 3. Discuss investigations in white pupil. 4. Discuss the etiology, clinical features, investigation and management of RB. | 01 |
| Congenital Cataract | <ol style="list-style-type: none"> 5. Define congenital cataract. 6. Describe the types of congenital cataracts. 7. Describe the pathogenesis and complications of congenital cataracts. 8. Describe the management of congenital cataracts. | 01 |
| Congenital Glaucoma | <ol style="list-style-type: none"> 9. Discuss the etiology, clinical features, investigation and management of Congenital Glaucoma. | 01 |
| Amblyopia | <ol style="list-style-type: none"> 10. Define Amblyopia. 11. Discuss the etiology, clinical features, investigation, and management of amblyopia. | 01 |
| Squint - Basics | <ol style="list-style-type: none"> 12. Discuss definitions, clinical evaluation of squint and principles of management | 01 |
| Concomitant Squint Esotropia | <ol style="list-style-type: none"> 13. Define concomitant squint. | 01 |

| | | |
|------------------------------|---|----|
| | 14. Discuss the etiology, clinical features, investigation, and management of esotropia. | |
| Exotropia | 15. Discuss the etiology, clinical features, investigation, and management of exotropia. | 01 |
| Diplopia & Incomitant Squint | 16. Discuss differential diagnosis/causes of diplopia. 17. Define incomitant squint. 18. Discuss the etiology, clinical features, investigation, and management of 3 rd nerve palsy. 19. Discuss the etiology, clinical features, investigation, and management of 4 th nerve palsy. 20. Discuss the etiology, clinical features, investigation, and management of 6 th nerve palsy. | 01 |

Clinical Schedule

Table 7: Foundation of Eye

| Theme 1: Foundation of Ophthalmology | | | |
|---|---|-------------------|------------|
| Topic | Learning objectives | Assessment method | Hours |
| 1. History Taking 2. Visual Acuity | <ul style="list-style-type: none"> Take detailed history in ocular conditions Check visual acuity. | OSCE | 03 + 02 |
| 3. Pupil Examination | <ul style="list-style-type: none"> Perform pupillary examination. | OSCE | 03 |
| 4. Visual Fields (Confrontation) | <ul style="list-style-type: none"> Perform visual fields examination by confrontation methods. | OSCE | 03 |
| 5. Slit-Lamp Examination | <ul style="list-style-type: none"> Identify parts of slit-lamp | OSCE | 01 |
| 6. Anterior Segment Examination | <ul style="list-style-type: none"> Examine anterior segment on slit lamp | OSCE | 01 |
| 7. Direct Ophthalmoscopy | <ul style="list-style-type: none"> Perform direct ophthalmoscopy | OSCE | 02 |
| 8. Retinoscopy | <ul style="list-style-type: none"> Identify trial lenses used in refraction. | OSCE | 03 |
| 9. Indirect Ophthalmoscopy | <ul style="list-style-type: none"> Perform indirect ophthalmoscopy | OSCE | 02 |
| Investigations 10. OCT 11. Visual Fields 12. Biometry 13. B-Scan 14. FFA 15. Corneal Topography | Describe/interpret the results of: <ul style="list-style-type: none"> OCT Visual fields Biometry B-scan FFA & Corneal topography | OSCE | 03 + 02 |

Table 8: Abnormalities of Lid & Bulging of Eyes

| Theme 2: Lid Abnormalities & Bulging Eyes | | | |
|--|--|--------------------------|--------------|
| Topic | Learning objectives | Assessment method | Hours |
| 16. Eversion Of Upper Lids | <ul style="list-style-type: none"> • Observe Eversion of upper lids | OSCE | 01 |
| 17. Ptosis Examination | <ul style="list-style-type: none"> • Perform ptosis examination. | OSCE | 03 |
| 18. Ptosis And Its Surgeries | <ul style="list-style-type: none"> • Observe ptosis surgery | OSCE | 03 |
| 19. Lids Abnormalities | <ul style="list-style-type: none"> • Examine common lid abnormalities (Ectropion, Entropion, Chalazion, Stye) | OSCE | 03 |
| 20. Lids Surgery Related Instruments | <ul style="list-style-type: none"> • Identify instruments used in lids surgery | OSCE | 03 |
| 21. Lid Reconstruction Procedures | <ul style="list-style-type: none"> • Observe lid reconstruction procedures | OSCE | 05 |
| 22. Proptosis | <ul style="list-style-type: none"> • Observe proptosis | OSCE | 03 |

Table 9: Red Eye

| Theme 3: Red Eye | | | |
|---|--|--------------------------|--------------|
| Topic | Learning objectives | Assessment method | Hours |
| 23. Use Of Topical Anesthesia and Staining | <ul style="list-style-type: none"> • Perform topical anesthesia and staining. | OSCE | 01 |
| 24. Removal Of Superficial Foreign Bodies | <ul style="list-style-type: none"> • Observe corneal foreign body removal. | OSCE | 01 |
| 25. Corneal Scrapping | <ul style="list-style-type: none"> • Observe corneal scrapping. | OSCE | 02 |
| 26. Keratoplasty Surgery | <ul style="list-style-type: none"> • Observe keratoplasty. | OSCE | 03 |
| 27. Lacrimal Regurgitation Test | <ul style="list-style-type: none"> • Perform lacrimal regurgitation test. | OSCE | 01 |
| 28. Dacryocystorhinostomy (DCR) Surgery & Its Instruments | <ul style="list-style-type: none"> • Observe DCR surgery and identify instruments used | OSCE | 03 |
| 29. Ocular Trauma | <ul style="list-style-type: none"> • Observe first aid to Ocular trauma • Perform eye wash in chemical injury. | OSCE | 03 |
| 30. Globe Repair Surgery | <ul style="list-style-type: none"> • Observe OGI surgery. | OSCE | 03 |

Table 10: Visual Loss

| Theme 4: Visual Loss | | | |
|---|--|--------------------------|--------------|
| Topic | Learning objectives | Assessment method | Hours |
| 31. Normal Disc 32. Disc Abnormalities 33. Swollen Disc(S) | <ul style="list-style-type: none"> • Examine normal disc • Examine glaucomatous disc. • Examine swollen disc | OSCE | 03 |
| 34. Detection Of Retinal Lesions 35. Retinal Vascular Diseases | <ul style="list-style-type: none"> • Detect common retinal conditions • Differentiate different retinal vascular conditions. | OSCE | 03 |
| 36. Retinal Detachment | <ul style="list-style-type: none"> • Identify RD in pictures • Observe Retinal detachment surgery | OSCE | 03 |
| 37. Use Of Lasers In Eye 38. Intravitreal Injections | Discuss <ul style="list-style-type: none"> • Use of lasers in eye • Intravitreal injections | OSCE | 02 |
| 39. Tonometry | Observe goldman tonometry | OSCE | 01 |
| 40. Glaucoma Filtration Surgery | Observe Glaucoma filtration surgery | OSCE | 03 |

Table 11: Childhood Blindness

| Theme 5: Childhood Blindness & Crossed Eyes | | | |
|--|---|--------------------------|--------------|
| Topic | Learning objectives | Assessment method | Hours |
| 41. Congenital Glaucoma | <ul style="list-style-type: none"> Observe congenital glaucoma examination (EUA) and surgery | OSCE | 03 |
| 42. Cataract (Adult and Ccongenital) | <ul style="list-style-type: none"> Detect cataract on ocular examination | OSCE | 03 |
| 43. Cataract surgery | <ul style="list-style-type: none"> Observe types of Adult and Congenital cataract surgery | OSCE | 03 + 03 |
| 44. Extraocular Mmovements | <ul style="list-style-type: none"> Perform extraocular movements and squint examination | OSCE | 03 |
| 45. Squint Eexamination | <ul style="list-style-type: none"> Perform cover / uncover / alternate cover tests Identify the pattern of squint (Esotropia vs. Exotropia) | OSCE | 03 |
| 46. Squint Surgery | <ul style="list-style-type: none"> Observe squint surgery | OSCE | 03 |

Learning Resources

| S# | Subjects | Resources |
|----|--------------------|--|
| 1. | Anatomy | A. GROSS ANATOMY 1. K.L. Moore, Clinically Oriented Anatomy B. EMBRYOLOGY 1. Keith L. Moore. The Developing Human 2. Langman’s Medical Embryology |
| 2. | Community medicine | 1. Preventive and Social Medicine by K Park 2. Community Medicine by M. Ilyas 3. Basic Statistics for the Health Sciences by Jan W Kuzma 4. Textbook of Community Medicine and Public Health, 2018. Saira Afzal, Sabeena Jala |
| 3. | Ophthalmology | Vaughan & Asbury's General Ophthalmology, 18th Edition |
| 4. | Pathology | 1. Robbins & Cotran, Pathologic Basis of Disease, 9 th edition. 2. Rapid Review Pathology, 4 th edition by Edward F. Goljan MD |
| 5. | Pediatrics | 1. Nelson Textbook of Pediatrics, 19th Edition 2. Textbook of Pediatrics by PPA, preface written by S. M. Haneef 3. Clinical Pediatrics by Lakshmanaswamy Aruchamy, 3rd Edition |
| 6. | Pharmacology | 1. Lippincot Illustrated Pharmacology 2. Basic and Clinical Pharmacology by Katzung |

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|----|------------|--|
| 7. | Physiology | <ol style="list-style-type: none">1. Textbook Of Medical Physiology by Guyton And Hall2. Ganong ' S Review of Medical Physiology3. Human Physiology by Lauralee Sherwood4. Berne & Levy Physiology5. Best & Taylor Physiological Basis of Medical Practice |
|----|------------|--|

Assessment Plan - 4th Year MBBS

The year-4 will be assessed in 4 blocks

- 1) Block-1 (Neurosciences-2 module) will be assessed in **paper-J**
- 2) Block-2 (GIT and hepatobiliary module) will be assessed in **paper-K**
- 3) Block-3 (Renal-2, Endocrine & Reproduction-2 module) will be assessed in **paper-L**
- 4) Block-4 (ENT and EYE modules) will be assessed in **paper-M**
- 5) Each written paper consists of 120 MCQs.
- 6) Internal assessment will be added to final marks in KMU as shown in below table.
- 7) In OSPE, each station will be allotted 6 marks, and a total of 120 (+10% marks of internal assessment) marks are allocated for each OSPE/OSCE examination.

4th Year MBBS Modules Assessment Plan

| 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, Endocrine & Reproduction-2 | 120 | 14 | 120 | 13 | 267 |
| Paper M | ENT and EYE | 120 | 13 | 120 | 13 | 266 |
| Research* | | | | 20 | 15 | 35 |
| Total Marks | | 480 | 53 | 500 | 67 | 1100 |

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

Assessment Blueprints

Table 12: Paper M (Eye & ENT)

| Subject | Total MCQs |
|--------------|------------|
| ENT | 60 |
| EYE | 60 |
| Total | 120 |

Table13: OSCE distribution

| Subject | Total OSCE stations |
|--------------|---------------------|
| ENT | 10 |
| EYE | 10 |
| Total | 20 |

A minimum of 20 stations will be used in final exams. Total marks will be 120 (6 marks for each station).