

# Women Medical College

Department of Medical Education & Research

Abbottabad

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Study Guide  
EYE  
1-5 Year

# 4<sup>TH</sup> YEAR MBBS EYE TOPICS

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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)	Assessment
Theme 1: Foundation of Ophthalmology	08	180	MCQs and OSCE
Theme 2: Lid Abnormalities & Bulging Eyes	10		
Theme 3: Red Eye	17		
Theme 4: Visual loss	18		
Theme 5: Childhood Blindness & Crossed Eyes	09		
<b>Total</b>	<b>62</b>		

# 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	MITs
Standards Of Vision and Blindness	1. Discuss visual standards and blindness according to WHO classification.	01	Lecture
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	
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**Table 3: Theme 2**

<b>Theme 2: Lid abnormalities &amp; Bulging Eyes</b>			
<b>Topic</b>	<b>Learning objectives</b>	<b>Hours</b>	<b>MITs</b>
Differential Diagnosis Of Lid Bumps	1. Discuss overview of different causes of lid bumps.	01	Lectures/CBL
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	
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**Table 4: Theme 3**

<b>Theme 3: Red Eye</b>			
<b>Topic</b>	<b>Learning objectives</b>	<b>Hours</b>	<b>MITs</b>
Red eye	1. Enumerate causes of red eye. 2. Describe pathophysiology and management of different conjunctival (Bacterial/Viral/Fungal/Allergic) inflammations.	02	Lectures/CBL
Corneal Inflammations/Infections	3. Discuss the etiology, clinical features, investigation, and management of non-infectious corneal inflammations. 4. Discuss investigations for corneal ulcers.	01	
Bacterial Keratitis	5. Discuss the etiology, clinical features, investigation, and management of different bacterial corneal ulcers.	01	
Fungal, Viral & Acanthamoeba Keratitis	6. Discuss the etiology, clinical features, investigation, and management of different fungal, viral & acanthamoeba corneal ulcers.	02	
Dacryocystitis	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	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	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	Lectures/CBL
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	
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**Table 5: Theme 4**

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

Glaucoma			
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	14. Discuss the etiology, clinical features, investigation, and management of lens induced glaucoma.		Interactive lecture with clinical images, case-based discussion
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	

Central Retinal Vein Occlusion (CRVO) And	29. Discuss the etiology, clinical features, investigation, and management of CRVO.	01	Lecture/CBL
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	01	

	management of papilledema.		
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**Table 6: Theme 5**

<b>Theme 5: Childhood Blindness &amp; Crossed Eyes</b>			
<b>Topic</b>	<b>Learning objectives</b>	<b>Hours</b>	<b>MITs</b>
White pupil (leukocoria) and Retinoblastoma (RB)	<ol style="list-style-type: none"> <li>1. Describe the importance of white pupil in children.</li> <li>2. Differentiate different causes of white pupil in children.</li> <li>3. Discuss investigations in white pupil.</li> <li>4. Discuss the etiology, clinical features, investigation and management of RB.</li> </ol>	01	Interactive lecture with clinical images, case-based discussion
Congenital Cataract	<ol style="list-style-type: none"> <li>5. Define congenital cataract.</li> <li>6. Describe the types of congenital cataracts.</li> <li>7. Describe the pathogenesis and complications of congenital cataracts.</li> <li>8. Describe the management of congenital cataracts.</li> </ol>	01	
Congenital Glaucoma	<ol style="list-style-type: none"> <li>9. Discuss the etiology, clinical features, investigation and management of Congenital Glaucoma.</li> </ol>	01	
Amblyopia	<ol style="list-style-type: none"> <li>10. Define Amblyopia.</li> <li>11. Discuss the etiology, clinical features, investigation, and management of amblyopia.</li> </ol>	01	
Squint - Basics	<ol style="list-style-type: none"> <li>12. Discuss definitions, clinical evaluation of squint and principles of management</li> </ol>	01	
Concomitant Squint Esotropia	<ol style="list-style-type: none"> <li>13. Define concomitant squint.</li> </ol>	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 <sup>rd</sup> nerve palsy. 19. Discuss the etiology, clinical features, investigation, and management of 4 <sup>th</sup> nerve palsy. 20. Discuss the etiology, clinical features, investigation, and management of 6 <sup>th</sup> 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"> <li>Take detailed history in ocular conditions</li> <li>Check visual acuity.</li> </ul>	OSCE	03 + 02
3. Pupil Examination	<ul style="list-style-type: none"> <li>Perform pupillary examination.</li> </ul>	OSCE	03
4. Visual Fields (Confrontation)	<ul style="list-style-type: none"> <li>Perform visual fields examination by confrontation methods.</li> </ul>	OSCE	03
5. Slit-Lamp Examination	<ul style="list-style-type: none"> <li>Identify parts of slit-lamp</li> </ul>	OSCE	01
6. Anterior Segment Examination	<ul style="list-style-type: none"> <li>Examine anterior segment on slit lamp</li> </ul>	OSCE	01
7. Direct Ophthalmoscopy	<ul style="list-style-type: none"> <li>Perform direct ophthalmoscopy</li> </ul>	OSCE	02
8. Retinoscopy	<ul style="list-style-type: none"> <li>Identify trial lenses used in refraction.</li> </ul>	OSCE	03
9. Indirect Ophthalmoscopy	<ul style="list-style-type: none"> <li>Perform indirect ophthalmoscopy</li> </ul>	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"> <li>OCT</li> <li>Visual fields</li> <li>Biometry</li> <li>B-scan</li> <li>FFA &amp; Corneal topography</li> </ul>	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"> <li>Observe Eversion of upper lids</li> </ul>	OSCE	01
17. Ptosis Examination	<ul style="list-style-type: none"> <li>Perform ptosis examination.</li> </ul>	OSCE	03
18. Ptosis And Its Surgeries	<ul style="list-style-type: none"> <li>Observe ptosis surgery</li> </ul>	OSCE	03
19. Lids Abnormalities	<ul style="list-style-type: none"> <li>Examine common lid abnormalities (Ectropion, Entropion, Chalazion, Stye)</li> </ul>	OSCE	03
20. Lids Surgery Related Instruments	<ul style="list-style-type: none"> <li>Identify instruments used in lids surgery</li> </ul>	OSCE	03
21. Lid Reconstruction Procedures	<ul style="list-style-type: none"> <li>Observe lid reconstruction procedures</li> </ul>	OSCE	05
22. Proptosis	<ul style="list-style-type: none"> <li>Observe proptosis</li> </ul>	OSCE	03

**Table 9: Red Eye**

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

**Table 10: Visual Loss**

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

**Table 11: Childhood Blindness**

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

# Learning Resources

S#	Subjects	Resources
1.	Anatomy	<b>A. GROSS ANATOMY</b> 1. K.L. Moore, Clinically Oriented Anatomy <b>B. EMBRYOLOGY</b> 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, 9th edition. 2. Rapid Review Pathology, 4th 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. Lippincott Illustrated Pharmacology 2. Basic and Clinical Pharmacology by Katzung

7.	Physiology	<ol style="list-style-type: none"><li>1. Textbook Of Medical Physiology by Guyton And Hall</li><li>2. Ganong ' S Review of Medical Physiology</li><li>3. Human Physiology by Lauralee Sherwood</li><li>4. Berne &amp; Levy Physiology</li><li>5. Best &amp; Taylor Physiological Basis of Medical Practice</li></ol>
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# 3<sup>RD</sup> YEAR MBBS

## EYE TOPICS

<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>MITs</b>	<b>Assessment</b>	<b>Hours</b>
<b>Foundation ii</b>	<b>Introduction to the subject; Career in Ophthalmology</b>	<b>Define Ophthalmology and its branches Highlight the scope of field of Ophthalmology as a future career</b>	<b>Lecture</b>	<b>MCQs</b>	<b>1</b>
	<b>Refractory errors</b>	<b>Describe refractive error and its effect on vision. Describe the concept of myopia and its correction. Describe the concept of hypermetropia and its correction. Describe the concept of astigmatism &amp; cylindrical lens.</b>	<b>Lecture</b>	<b>MCQs</b>	<b>1</b>

		<p>Describe the concept of presbyopia, its possible causes and correction.</p> <p>Describe aphakia and possible methods of its correction.</p>			
	<p><b>Watery Eyes</b></p>	<p>Explain the structural details, development and functions of lacrimal system.</p> <p>Correlate the clinical presentation of watery eye with anatomical structures.</p> <p>Correlate the clinical features with a disease entity.</p> <p>Describe the</p>	<p>Case-based discussion (CBD) using clinical scenarios and images</p> <p>Problem-based learning (PBL) or small-group discussion</p>	<p>MCQs</p>	<p>1</p>

		<p>causes, clinical features and treatment of congenital nasolacrimal duct obstruction.</p> <p>Assess the time of probing.</p> <p>Describe the causes, clinical presentation and treatment modalities.</p> <p>Differentiate between acute and chronic dacryocystitis.</p>	Case discussion with decision-making exercises		
	<b>Cataracts</b>	<p>Define cataract</p> <p>Describe the types of cataracts</p> <p>Describe the pathogenesis and complications of cataracts</p> <p>Describe the management of cataracts</p>	<b>Lecture</b>	<b>MCQs</b>	<b>1</b>
<b>MSK</b>	<b>Anatomy of Eye</b>	<p>Describe anatomy of Orbit</p> <p>Describe anatomy</p>	<b>Interactive lecture with</b>	<b>MCQs</b>	<b>1</b>

		<b>of Eye Ball</b>	<b>anatomical diagrams, models</b>		
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**2<sup>ND</sup> YEAR**

**MBBS**

**EYE TOPICS**

<b>Module</b>	<b>Topic</b>	<b>Learning Objectives</b>	<b>MITs</b>	<b>Assessment</b>	<b>Hours</b>
<b>Neuroscience B</b>	<b>blindness</b>	Approach a patient with unilateral and bilateral blindness	<b>Case-Based Learning (CBL)</b>	<b>MCQs</b>	<b>1</b>