



STUDY GUIDE

THIRD YEAR and FOURTH YEAR COURSE

Department of Ophthalmology
Ameer-ud-Din Medical College, Lahore

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INTRODUCTION TO STUDY GUIDE

Dear student,

Welcome to the Third and Fourth year Ophthalmology Course. The department of Ophthalmology will be facilitating the course. There are three teaching units in the department to assist in your learning. You will spend 107 Study hours in fourth year, learning the different aspects of the subject.

The purpose of the study guide is to help you learn the subject of Ophthalmology. It is designed to help you manage your learning and access the resources available to you. It takes you through the general objectives of learning the subject, divides the subject into modules for easy learning and helps you understand the course work, clinical skills and attitudes that are desired of a good doctor.

The basic sciences courses you did in the last three years are pre-requisites for the course of Ophthalmology and will help you in better understanding of the subject and its application to actual patients. We advise you to refer back to these subjects if there are any issues in understanding the subject. We hope you will realize how integrated these subjects are to your clinical practice.

Methods of assessment, have also been written so that you can relate teaching to assessment and have a fair idea of the assessment methods and what internal and external assessment is all about.

We hope the students take time out to go through the guide and to use it effectively to learn the subject of Ophthalmology. We look forward to feedback from the students and faculty so that the guide can be improved further.

For any assistance please do not hesitate to contact the teaching faculty of the department of Ophthalmology. (Details available at AMC website, DME and student section office). Alternatively, please feel free to visit the head of the department for any issues that you face in learning of the subject or otherwise.

We hope that your rotation in our department will be very fruitful and enjoyable and will equip you for future practical life.

With compliments from:

Head of department and members of faculty, Department of Ophthalmology.

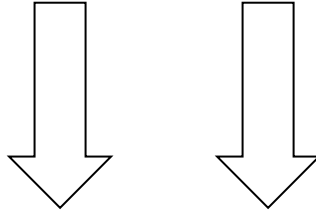
OBJECTIVES OF CURRICULUM

General objectives of under graduate Ophthalmology teaching and training are to equip the students with essential knowledge, skills and attitudes, so that they are able to:

- Identify ophthalmic diseases including emergencies, provide primary eye care, refer to appropriate center and provide follow-up to the patients
- Perform essential required skills.
- Communicate effectively with the patient, the family and the community regarding eye diseases and relevant issues.
- Practice the medical ethics and its application pertaining to ophthalmology and maintain the confidentiality of the patient.
- Identify the prevalence and prevention of the common public health problems related to ophthalmology
- Apply principles of patient safety and quality of care.
- Use the principles of medical research including fundamentals of information technology.

CURRICULUM MAP

You will study details here



First year	Second Year	Third Year	Fourth Year	Fourth Year	House Job
------------	-------------	-------------------	--------------------	-------------	-----------

You are entering in first year of clinical classes. Here you are going to study General Principles in Ophthalmology along with other subjects. In Fourth year you are supposed to get lectures and ward rotations also. In the Fourth assessment you will be assessed in all aspects of Ophthalmology. So, learn carefully and revise it very often till your Fourth professional examination.

STRUCTURE OF THIRD and FOURTH YEAR

THIRD YEAR

In third year there are no classes or class tests for the subject of Ophthalmology, however there is ward rotation 2 days a week for 4 weeks. In the clinical rotation, students get an introduction to Ophthalmology and its different topics and clinical methods.

At the end of rotation ward test is taken in form of OSPE and clinical methods evaluation.

FOURTH YEAR

- In fourth year, the whole curriculum is divided into 19 modules; each module will be covered by the end of the year.
- Lectures - Twice a week.
 - Lecture are scheduled on every Monday and Tuesday.
 - Every lecture will be of 50 minutes duration.
 - At the end of every Lecture feedback from the students will be collected for quality assurance and evaluation.
 - Sixty Four lecture slots are there throughout the year.
 - Fifty eight lectures will be for interactive teaching.
 - Six sessions will be utilized for formative written assessment: Class Tests in the form of MCQs and SEQs.
- Collective feedback along with results are provided during lectures after Class Tests
- Every student has to go through clinical attachment or ward rotation for **four weeks**. Students are divided into batches and batches are divided among the three units. At the end of each ward rotation ward test in the form of OSPE, two short cases and two clinical methods evaluation is conducted.
- Send ups are scheduled at the end of fourth year around two months before the professional exam.



TIME TABLE FOURTH YEAR MBBS SESSION 2015-2020
POSTGRADUATE MEDICAL INSTITUTE/
AMEER-UD-DIN MEDICAL COLLEGE, LAHORE.
 Valid from 26.11.2018 to 31.08.19



DAY & LOCATION	08:00-08:45 AM	08:45 AM-9:30 AM	9:30 AM-10:15 AM	10:15 AM-10:30 AM	10:30 - 12:30 PM	12:30 - 02:30 PM
Monday (LGH)	Ophthalmology	ENT	Pediatrics	Break	Ward	
Tuesday (LGH)	ENT	Ophthalmology	Internal Medicine		Ward	
Wednesday (PGM)	Community Medicine	Community Medicine	Community Medicine		Community Medicine Tutorial/Practical/Trip	
Thursday (LGH)	Pathology	Pathology	Internal Medicine		Practical/Tutorial Pathology	
Friday (LGH)	Gynae & Obstt	General Surgery	Pathology		10:30-12:00	
Saturday (LGH)	Pathology	General Surgery	Neurology/Neurosurgery Urology/ Pulmonology Dermatology/Anesthesia Orthopedic/Radiology		Ward	

- Lectures of Neurology will start from 26.11.18 to 22.12.18.
- Lectures of Neurosurgery will start from 01.01.19 to 02.02.19.
- Lectures of Urology will start from 04.02.19 to 09.03.19.
- Lectures of Pulmonology will start from 11.03.19 to 13.04.19.
- Lectures of Dermatology will start from 15.04.19 to 11.05.19.
- Lectures of Anaesthesia will start from 13.05.19 to 01.06.19
- Lectures of Orthopedics will start from 08.07.19 to 03.08.19
- Lectures of Radiology will start from 05.08.19 to 31.08.19
- Printed On 22.11.18**

[Signature]
 Head of Community
 Medicine Department

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 Head of Pathology
 Department

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 Head of ENT
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WARD ROTATION PROGRAM/ FOURTH YEAR MBBS SESSION 2015-2020
POSTGRADUATE MEDICAL INSTITUTE/AMEER-UD-DIN MEDICAL COLLEGE, LAHORE.
 Valid from 26.11.2018 to 31.08.19



Date & Half	A (1-10)	B (11-20)	C (21-30)	D (31-40)	E (41-50)	F (51-60)	G (61-70)	H (71-80)	I (81-90)	J (91-101)
Student Coordinator	R. No.07	R. No.11	R. No.28	R. No.39	R. No.48	R. No.57	R. No.67	R. No.71	R. No.85	R. No.93
26.11.18 to 22.12.18 4 Weeks	1 st Half 26 Nov-8 Dec S2=1-4 S3=5-7 S1=8-10	Ortho=11-15 Rad=16-20	Anae=21-25 Psy=26-30	G2=31-34 G3=35-37 G1=38-40	Neuro*=41-45 Uro=46-50	Pulmo=51-55 Paeds=56-60	ENT2=60-65 ENT1=66-70	Eye2=71-74 Eye3=75-77 Eye1=78-80	Eye2=81-83 Eye3=84-86 Eye1=87-90	M1=91-93 M2=94-97 M3=98-101
01.01.19 to 19.01.19 3 Weeks	1 st Half 01-9 Jan M2=1-4 M3=5-7 M1=8-10	S2=11-14 S3=15-17 S1=18-20	Ortho=21-25 Rad=26-30	Anae=36-40 Psy=31-35	G2=41-44 G3=45-47 G1=48-50	Pulmo=56-60 Paeds=51-55	Neuro*=51-55 Uro=56-60	ENT2=71-75 ENT1=76-80	Eye2=91-93 Eye1=98-101	
21.01.19 to 09.02.19 3 Weeks	1 st Half 21-30 Jan Eye2=1-4 Eye3=5-7 Eye1=8-10	M2=11-14 M3=15-17 M1=18-20	S2=21-24 S3=25-27 S1=28-30	Ortho=36-40 Rad=31-35	Anae=41-45 Psy=46-50	G2=51-53 G3=54-56 G1=57-60	Neuro*=61-65 Uro=66-70	Pulmo=71-75 Paeds=76-80	ENT2=81-85 ENT1=86-90	
11.2.19 to 09.03.19 3 Weeks	1 st Half 11-20 Feb 2 nd Half 21 Feb-9 Mar	Eye2=11-14 Eye3=15-17 Eye1=18-20	M2=21-24 M3=25-27 M1=28-30	S2=31-34 S3=35-37 S1=38-40	Ortho=41-45 Rad=46-50	Anae=51-55 Psy=56-60	G2=61-64 G3=65-67 G1=68-70	Neuro*=71-75 Uro=76-80	Pulmo=81-85 Paeds=86-90	ENT2=91-95 ENT1=96-101
11.03.19 to 30.03.19 3 Weeks	1 st Half 11-20 Mar 2 nd Half 21-30 Mar	ENT2=1-5 ENT1=6-10	Eye2=21-24 Eye3=25-27 Eye1=28-30	M2=31-34 M3=35-37 M1=38-40	S2=41-44 S3=45-47 S1=48-50	Ortho=51-55 Rad=56-60	Anae=61-65 Psy=66-70	G2=71-74 G3=75-77 G1=78-80	Neuro*=81-85 Uro=86-90	Pulmo=91-95 Paeds=96-101
09.04.19 to 27.04.19 3 Weeks	1 st Half 09-17 Apr 2 nd Half 18-27 Apr	Pulmo=1-5, Paeds=6-10	ENT2=11-15 ENT1=16-20	Eye2=31-34 Eye3=35-37 Eye1=38-40	M2=41-44 M3=45-47 M1=48-50	S2=51-53 S3=54-56 S1=57-60	Ortho=61-65 Rad=66-70	Anae=71-75 Psy=76-80	G2=81-83 G3=84-86 G1=87-90	Neuro*=91-95 Uro=96-101
29.04.19 to 18.05.19 3 Weeks	1 st Half 29 Apr-8 May 2 nd Half 9 - 18 May	Neuro*=1-5, Psy=6-10 Uro=1-5	Pulmo=11-15 Paeds=16-20	ENT2=21-25 ENT1=26-30	Eye2=41-44 Eye3=45-47 Eye1=48-50	M2=51-53 M3=54-56 M1=57-60	S2=61-64 S3=65-67 S1=68-70	Ortho=71-75 Rad=76-80	Anae=81-85 Psy=86-90	G2=91-93 G3=94-97 G1=98-101
20.05.19 to 13.07.19 3 Weeks	1 st Half 20 - 29 May 2 nd Half 30 May-13 Jul	G2=1-4 G3=5-7 G1=8-10	Neuro*=11-15 Uro=16-20	Pulmo=21-25 Paeds=26-30	ENT2=31-35 ENT1=36-40	Eye2=51-53 Eye3=54-56 Eye1=57-60	M2=61-64 M3=65-67 M1=68-70	S2=71-74 S3=75-77 S1=78-80	Ortho=81-85 Rad=86-90	Anae=91-95 Psy=96-101
15.07.19 to 03.08.19 3 Weeks	1 st Half 15-24 July 2 nd Half 25 Jul-3 Aug	Anae=1-5, Psy=6-10	G2=11-14 G3=15-17 G1=18-20	Neuro*=21-25 Uro=26-30	Pulmo=31-35 Paeds=36-40	ENT2=41-45 ENT1=46-50	Eye2=61-64 Eye3=65-67 Eye1=68-70	M2=71-74 M3=75-77 M1=78-80	S2=81-83 S3=84-86 S1=87-90	Ortho=91-95 Rad=96-101
05.08.19 to 31.08.19 3 Weeks	1 st Half 05-17 Aug 2 nd Half 19 Aug-31 Aug	Ortho=1-5 Rad=6-10	Anae=11-15 Psy=16-20	G2=21-24 G3=25-27 G1=28-30	Neuro*=31-35 Uro=36-40	Pulmo=41-45 Paeds=46-50	ENT2=51-55 ENT1=56-60	Eye2=71-74 Eye3=75-77 Eye1=78-80	M2=81-83 M3=84-86 M1=87-90	S2=91-93 S3=94-97 S1=98-101

- Winter Vacation Break 24th Dec to 31st Dec.
- Spring Vacation Break 1st April to 8th April.
- Sports + Extra Curricular Activities from last week of Feb.
- *First Week Neurosurgery while Second Week Neurology
- Summer Vacation from 3rd June to 6th July 2019.
- Printed on 22.11.2018



TIME TABLE, FINAL YEAR MBBS SESSION 2014-2019
POSTGRADUATE MEDICAL INSTITUTE/AMEER-UD-DIN MEDICAL COLLEGE,
LAHORE.

Valid from 12.12.18 to 14.09.19



DAY	08:00 – 08:50 AM	08:50 – 09:40 AM	09:40 – 10:30 AM	10:30 – 10:45 AM	10:45 – 12:30 PM	12:30 – 02:30 PM
Monday	General Surgery	Internal Medicine	Obstetrics & Gynaecology	X X X X X X	Wards	Wards
Tuesday	Internal Medicine	Plastic Surgery* Dermatology/**	Psychiatry** Urology/** CPC last week of Month		Wards	Wards
Wednesday	Paediatric	Neurology* Neurosurgery**	Internal Medicine		Wards	Wards
Thursday	Obstetrics & Gynaecology	Internal Medicine	Paediatric		Wards	Wards
Friday	General Surgery	Orthopedic* Pulmonology*	09:30 – 12:00 PM Wards		Wards	Wards
Saturday	General Surgery	Radiology* Anaesthesia**	Obstetrics & Gynaecology		Wards	Wards

- * Lectures from 12.12.18 to 17.04.19.
- ** Lectures from 18.04.19 to 14.09.19.
- Winter Vacation Break 24th Dec to 31st Dec.
- Spring Vacation Break 1st April to 8th April.

- Sports + Extra Curricular Activities in last week of Feb.
- Summer Vacation Break 03.06.19 to 06.07.19.
- Printed On 06.12.2018.

Head of Paediatrics
Department

Head of Medicine
Department

Head of Surgery
Department

Prof. Muhammad Moïn
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WARD ROTATION PROGRAM, FINAL YEAR MBBS SESSION 2014-2019
POSTGRADUATE MEDICAL INSTITUTE/AMEER-UD-DIN MEDICAL COLLEGE,
LAHORE.

Valid from 12.12.18 to 14.09.19



Rotation No.	Periods / Weeks Student Coordinator	A=1-8	B=9-17	C=18-26	D=27-34	E (35-43)	F (44-51)	G (52-61)	H (62-69)	I (70-78)	J (79-86)	K (87-95)	L (96-103)
		R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.	R. No.
1.	12.12.18 to 05.01.19	S1	S3	S2	P1	P2	P2	G1	G2	G3	M1	M3	M2
2.	07.01.19 to 23.01.19	S3	S2	S1	P2	P1	P1	G2	G3	G1	M3	M2	M1
3.	24.01.19 to 09.02.19	S2	S1	S3	Derma/ Pschy	Derma/ Pschy	Derma/ Pschy	G3	G1	G2	M2	M1	M3
4.	11.02.19 to 06.03.19	P1	P2	P2	S1	S3	S2	M1	M3	M2	G1	G2	G3
5.	07.03.19 to 23.03.19	P2	P1	P1	S3	S2	S1	M3	M2	M1	G2	G3	G1
6.	25.03.19 to 17.04.19	Derma/ Pschy	Derma/ Pschy	Derma/ Pschy	S2	S1	S3	M2	M1	M3	G3	G1	G2
7.	18.04.19 to 04.05.19	G1	G2	G3	M1	M3	M2	S1	S3	S2	P1	P2	P2
8.	06.05.19 to 22.05.19	G2	G3	G1	M3	M2	M1	S3	S2	S1	P2	P1	P1
9.	23.05.19 to 13.07.19	G3	G1	G2	M2	M1	M3	S2	S1	S3	Derma/ Pschy	Derma/ Pschy	Derma/ Pschy
10.	15.07.19 to 31.07.19	M1	M3	M2	G1	G2	G3	P1	P2	P2	S1	S3	S2
11.	01.08.19 to 24.08.19	M3	M2	M1	G2	G3	G1	P2	P1	P1	S3	S2	S1
12.	26.08.19 to 14.09.19	M2	M1	M3	G3	G1	G2	Derma/ Pschy	Derma/ Pschy	Derma/ Pschy	S2	S1	S3

- Winter Vacation Break 24th Dec to 31st Dec.
- Spring Vacation Break 1st April to 8th April.
- Sports + Extra Curricular Activities in last week of Feb.
- Summer Vacation Break 03.06.19 to 06.07.19.

- Each Half consists of 7 + 8 = 15 Days.
- Printed on 06.12.2018

Head of Paediatrics
Department

Head of Medicine
Department

Head of Surgery
Department

Prof. Muhammad Moïn
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ASSESSMENT

Formative Assessment

Third year

Sr.#	Assessment	Tools	Frequency
1.	Ward Tests	OSPE Short Cases Clinical Methods	1 test at the end of clinical rotation

Formative Assessment Fourth Year (internal Assessment)

Sr.#	Assessment	Tools	Frequency
2.	Class Tests	20 MCQs 5 SEQs	Total 6 Tests taken during the academic year
3.	Ward Tests	OSPE Short Cases Clinical Methods	After the ward rotation
4.	Send Ups (Written)	MCQs SEQs	After completion of fourth year session

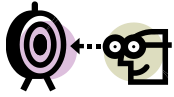
Summative Assessment

Summative Assessment: Fourth Year

Sr.#	Assessment	Tools
1.	Ophthalmology Sendup Exam for Knowledge Assessment	50 MCQs 10 SEQs
2.	Skill Assessment	14 stations of OSPE (12 unobserved and 2 observed)
3.	Oral Assessment	2 short cases

ICONS

The following icons have been used to help you identify the various experiences you will be exposed to.



Learning objectives



Assessments



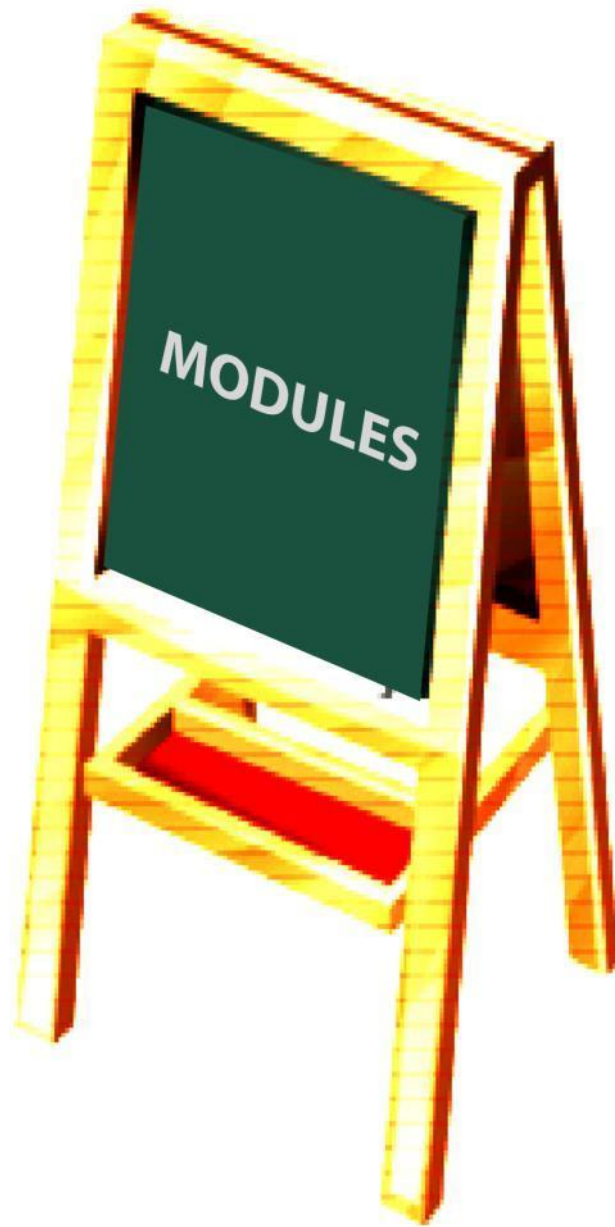
Learning Resources



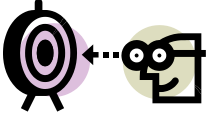


Independent learning from the Internet



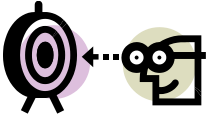


Specific Learning Objectives



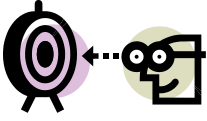


MODULE 01

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 1: ANATOMY,PHYSIOLOGY AND EMBRYOLOGY OF EYEBALL	
Duration	Lectures: 03	
Outcomes 	Acquire appropriate knowledge in relation to topics mentioned below: <ul style="list-style-type: none"> • Anatomy of the eyeball • Anatomy of the adjacent structures • Physiology of the Eyeball and its structures • Embryological Development of Eyeball and its structures • Anatomy and Physiology of the Orbit 	
Specific learning Objectives 	Collect reliable and accurate information, have firm knowledge on anatomy, physiology and embryology of each structure in the eyeball and orbit.	
Teaching & Learning Strategies (MIT)	Lectures, Multimedia Presentations	
Assessments 	MCQs, SEQs	

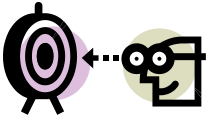


MODULE 02

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 2: PHARMACOLOGY AND THERAPEUTICS AND VITAMIN A	
Duration	Lectures: 02	
Outcomes 	Demonstrate the required knowledge, skill and attitude in : pharmacology and Therapeutics related to Eye role of vitamin A in eye vitamin A deficiency and its management	
Specific learning Objectives 	Describe the medical treatment of ophthalmic problems with regards to eye drops (names, composition, dosage) Recognise the role and importance of Vitamin A in the eye.	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture, small group discussion, CBL • Audio Visual support 	
Assessments 	MCQs, SEQs, OSPE/TOACS	

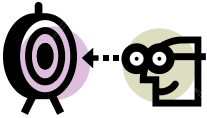


MODULE 03

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 3: ORBIT	
Duration	Lectures: 01	
Outcomes 	Discuss the concept of orbit Describe the shape, walls, diameters and boundaries of the orbit Define proptosis and its causes Explain Orbital cellulitis	
Specific learning Objectives 	Recognise the basic concept of proptosis and its causes and treatment Identify orbital cellulitis and know about its causes and treatment Differentiate between orbital cellulitis and pre-septal cellulitis	
Teaching & Learning Strategies (MIT)	Lecture Eye ward duties (inpatient and outpatient)	
Assessments 	MCQs, SEQs, OSPE	

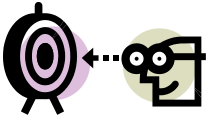


MODULE 04

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 4: EYELIDS AND LACRIMAL DRAINAGE SYSTEM	
Duration	Lectures: 04	
<p>Outcomes</p> 	<p>Enumerate the diseases related to eyelid</p> <p>Identify and measure ptosis and know about its treatment options</p> <p>Differentiate between ectropion and entropion and their complications and treatment</p> <p>Describe Blepharitis and its management</p> <p>Explain Tear film composition and disorders</p> <p>Define Epiphora</p>	
<p>Specific learning Objectives</p> 	<p>Diagnose, outline management</p> <p>Assist in managements and justify investigations</p> <p>Observe the significance of different management options and their timeliness</p> <p>Describe Chalazion, Trichiasis, Stye and their treatment options</p> <p>Enlist about common tumours of eyelids</p> <p>Define Dry Eye Syndrome, acute and chronic Dacryocystitis</p>	
<p>Teaching & Learning Strategies (MIT)</p>	<p>Lecture</p> <p>Small group discussion</p> <p>Case based learning</p> <p>Case presentation/ bed side teaching</p>	
<p>Assessments</p> 	<p>MCQs, SEQs, OSPE, case presentation</p>	

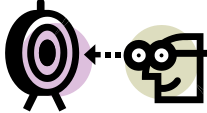


MODULE 05

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 5: CORNEA	
Duration	Lectures: 02	
Outcomes 	Demonstrate appropriate knowledge skills and attitudes in relation to corneal diseases Identify types of keratitis and describe its management	
Specific learning Objectives 	Differentiate between bacterial, fungal, viral and amoebic corneal ulcers Identify keratitis and describe its management	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture with Audio Visual support • Case Presentation • Group discussion • Case based learning • One minute preceptor, Drills • Eye ward & outpatient visit 	
Assessments 	MCQs, SEQs, OSPE, Case presentations	

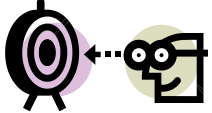


MODULE 06

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 6: CONJUNCTIVA AND SCLERA	
Duration	Lectures: 04	
Outcomes 	Demonstrate appropriate knowledge, skill and attitude in relation to diseases of conjunctiva and sclera	
Specific learning Objectives 	Describe Infective conjunctivitis, Allergic conjunctivitis, pterygium and their management Define Scleritis and episcleritis	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Audio Visual support • Group discussion • Case based learning • Teaching in Outpatient Department 	
Assessments 	MCQs, SEQs, OSPE, Case presentation	

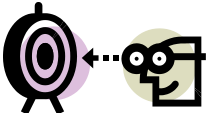


MODULE 07

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 7: UVEITIS	
Duration	Lectures: 02	
Outcomes 	Demonstrate appropriate knowledge, skill and attitude about uveitis and its diagnosis and management	
Specific learning Objectives 	Describe basic concept of uveitis, its causes and symptoms, its diagnosis and investigations, its treatment and management Define red eye and enlist its differentials Define Sympathetic Ophthalmitis	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Audio Visual support • Group discussion • Case Presentation • Eye ward round and bedside teaching 	
Assessments 	MCQs, SEQs, OSPE	

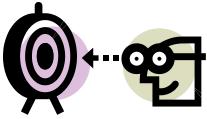


MODULE 08

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 8 : GLAUCOMA	
Duration	Lectures: 06	
Outcomes 	Demonstrate appropriate knowledge skill and attitude in relation to Glaucoma, its classification and its management	
Specific learning Objectives 	Describe the basic concept of Glaucoma, aqueous humour formation and circulation, IOP measurement, primary and secondary open angle glaucoma, primary and secondary angle closure glaucoma, glaucoma due to hyper mature cataract and uveitis. Enlist the principles of medical and surgical management of glaucoma	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Audio Visual support • Group discussion • Case Presentation • Postnatal ward & KMC ward round 	
Assessments 	MCQs, SEQs, OSPE	

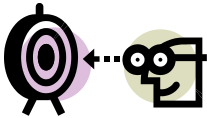


MODULE 09

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 9 : TRAUMA AND INJURIES	
Duration	Lectures: 04	
Outcomes 	Demonstrate the knowledge, skills and attitude in relation to Introduction, history taking, examination, investigations and management of cases of ocular trauma	
Specific learning Objectives 	Identify the cases of extraocular foreign bodies, intraocular foreign bodies, closed globe injuries, burns and chemical injuries	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Audio Visual support • Case Presentation • Small group discussion • Bedside teaching in ward • Rotation in operation theatre 	
Assessments 	MCQs, SEQs, OSPE	

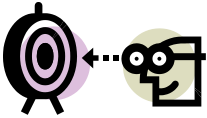


MODULE 10

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 10 : LENS	
Duration	Lectures: 05	
Outcomes 	Demonstrate the appropriate knowledge, skills and attitude in relation to cataract and its types, its diagnosis and management	
Specific learning Objectives 	Make clinical diagnosis and outline management of cataract Classify cataract, describe its management and discuss visual rehabilitation after cataract surgery	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture with Audio Visual support • Case Presentation • Case based learning • Skill demonstrations (Torch examination) 	
Assessments 	MCQS, SEQs, OSPE, Case presentations	

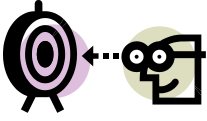


MODULE 11

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 11: NEURO-OPHTHALMOLOGY	
Duration	Lectures: 07	
Outcomes 	Demonstrate the knowledge, skills and attitude in relation to Optic Nerve and visual pathway in the brain	
Specific learning Objectives 	Describe the neurological pathways and mechanism of pupillary light reflex and its abnormalities Discuss optic nerve including optic atrophy, optic neuritis, papilledema and papillitis Explain visual pathway and visual field defects	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture with Audio Visual support • Bed side teaching • Group discussion • Case based learning • Skill demonstration • Demonstration of visual field analysis (computed perimetry) in laser room in eye ward 	
Assessments 	MCQs, SEQs, OSPE, Case presentation	

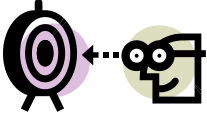


MODULE 12

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 12 : RETINA	
Duration	Lectures: 07	
Outcomes 	Define the retina, its layers, its function and its diseases Discuss Visual Rehabilitation	
Specific learning Objectives 	Describe retinal detachment, diabetic retinopathy, hypertensive retinopathy their diagnosis and evaluation and their management Discuss congenital diseases such as retinoblastoma and retinitis pigmentosa	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Small group discussion • Case Presentation in outpatient and inpatient • Direct Ophthalmoscopy workshops 	
Assessments 	MCQs, SEQs, OSPE, Case presentation	

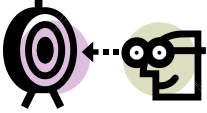


MODULE 13

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 13 : ERRORS OF REFRACTION	
Duration	Lectures: 04	
Outcomes 	Demonstrate the knowledge, skills and attitude in relation to errors of refraction	
Specific learning Objectives 	Define emmetropia, myopia, hypermetropia, presbyopia and astigmatism Differentiate between phakia, pseudophakia and aphakia	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Small Group discussion • Case Presentation • Torch Examination 	
Assessments 	MCQs, SEQs, OSPE, Short Cases	

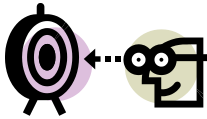


MODULE 14

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 14 : HISTORY TAKING AND CLINICAL METHODS	
Duration	Lectures: 01	
Outcomes 	Demonstrate the appropriate knowledge, skills and attitude in relation to proper history taking Demonstrate all the relative clinical methods	
Specific learning Objectives 	Take relative appropriate history Perform all clinical methods properly	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture • Audio Visual support • Small group discussion • Practical Demonstration in class • Demonstration and practice in ward 	
Assessments 	MCQs, OSPE, Short Case	

MODULE 15

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 15 : SQUINT	
Duration	Lectures: 01	
Outcomes 	Describe concept of squint, its types and management	
Specific learning Objectives 	Enlist the types of squint Describe their management	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Lecture for knowledge component • Audio Visual Support • Practical Demonstration in Ward 	
Assessments 	MCQs, OSPE	

MODULE 16

Title	Ophthalmology	Student Notes
Target Students	Fourth year	
Course Title	Module 16 : SURGICAL INSTRUMENTS	
Duration	Lectures: 01	
Outcomes 	Discuss the usage of various surgical instruments in ophthalmology	
Specific learning Objectives 	Identify various surgical instruments and describe their usage in ophthalmic surgery	
Teaching & Learning Strategies (MIT)	<ul style="list-style-type: none"> • Small group discussion • Audio Visual Support • Operation Theatre Rotations 	
Assessments 	MCQs, OSPE	

SKILLS

In every module skills required are mentioned. To highlight the requirement a separate list of skills which you are expected to learn is given below.

During your clinical attachment, you are required to spend one hour daily in the ward with patients, where the required skills will be demonstrated to you and you will be given time to practice the skills. Please be careful with the patients and respect the norms of the skills.

Sr.No.	Skill
1.	History Taking
2.	Visual Acuity Assessment
3.	Torch Examination
4.	Pupillary Light Reflex
5.	Extraocular Motility Exam
6.	Visual Field Assessment by Confrontation method
7.	Cover and Uncover Test
8.	Ptosis Exam
9.	Proptosis Exam

ATTITUDES

Attitude is a collection of behaviors. "Attitude is a learned predisposition to respond in a favorable or unfavorable manner towards people, an object, an idea or a situation" - - Martin Fishbein. Attitudes are based on predispositions and emotions and result in specific human behaviors. They are very difficult to learn. However observation and mentoring for attitudes or giving them weightage as in exams can influence learning of attitudes.

Sr.	
01.	Appearance of a doctor – professional dress up
02.	How to address a patient – polite, "Mr", "Mrs", "Miss"
03	Body language – Behave with dignity
04	Respectful to patient
05	Empathetic & humane
06	Listen & examine (thorough)
07	Informed consent
08	Privacy - Covering the patient
09	Counseling & communication
10	Hard working
11	Documentation



LEARNING RESOURCES

RECOMMENDED BOOKS:

1. **Parson's Diseases of the Eye** by Ramanjit Sihala and Radhika Tandor.3rd Edition
2. **Ophthalmology** by- Renu Jogi
3. **Clinical Textbook of Ophtahlmology** by Dr. Saleem Akhtar
4. **Kanski and Bowling** ----- Clinical textbook of Ophthalmology
5. **Ophthalmology Priciples and Concepts** by Newill F W
6. **Online Journals and Reading Material through HEC Digital Library Facility**