



KHYBER MEDICAL UNIVERSITY

STUDY GUIDE SEMESTER 6

BS OPTOMMETRY CURRICULUM

16 Weeks Activity Planner
2024-25

**CENTRAL CURRICULUM & ASSESSMENT COMMITTEE FOR NURSING,
REHABILITATION SCIENCES & ALLIED HEALTH SCIENCES**

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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 Sciences Kohat (IHS) Mission:

To produce allied health professionals who excel in their skills, research, compassionate care, and community involvement, thereby enhancing the healthcare system.

Program Introduction

The BS Optometry program at Khyber Medical University is a comprehensive four-year undergraduate degree designed to equip students with the knowledge, skills, and competencies required to become competent Optometrists. Optometry is a healthcare profession dedicated to the examination, diagnosis, treatment and management of visual disorders and eye diseases. Optometrists are primary eye care providers who perform comprehensive eye exams, prescribe corrective lenses, and manage various eye conditions.

The program emphasizes both theoretical knowledge and practical skills required for the diagnosis, treatment, and management of common and complex visual disorders. This Program is structured to provide students with a strong foundation in the sciences and specialized training in the field of Optometry. Students will learn about the principles to introduce and impart standard technical education with new modern techniques, to provide full-scope eye care.

To provide optometrists a status and recognition in the eye care delivery system through improving their capacity along with increasing awareness of their responsibilities, authority and job description. The program emphasizes both theoretical knowledge and practical skills required for the diagnosis, treatment, and management of common and complex cases in gynecology and obstetrics.

To equip and encourage involvement in research to contribute to the advancement of optometric science and evidence-based practice and bring them as per with other national and international level.

Objectives

By the end of the BS Optometry Degree, the students will be able to:

Cognitive Domain:

1. Understanding basic concepts, terminology and theories related to optometry.
2. Using learned information in practical scenarios.
3. Breaking down complex information into components to understand structure and relationships.
4. Combining different pieces of knowledge to form a new whole, such as developing a treatment plan.
5. Assessing the validity and reliability of information and making informed decisions.

Psychomotor Domain:

1. Accurately performing eye examinations and diagnostic tests.
2. Mastering various clinical procedures, including refraction, contact lens fitting, and binocular vision assessments.
3. Integrating hand-eye coordination for tasks like inserting and removing contact lenses, and performing minor surgical procedures.
4. Modifying techniques based on patient needs and responses to ensure comfort and accuracy, and effectively perform clinical tasks and provide high-quality patient care.
5. Ensuring all procedures are performed in a manner that prioritizes patient safety and comfort.

Affective Domain:

1. Being open to learning and willing to listen to others, including patients and colleagues.
2. Actively participating in class, clinical sessions, and discussions, and showing enthusiasm for the field of optometry.
3. Demonstrating commitment to ethical standards, patient care, and continuous professional development.
4. Integrating personal values with professional responsibilities, such as balancing empathy with clinical objectivity.
5. Consistently displaying professional behavior, such as maintaining patient confidentiality, showing respect, and being dependable.

Sixth Semester Subjects for BS Optometry

S. No	Subjects	Duration
1	BSO-617 INSTRUMENT OPTICS	16 weeks
2	BSO-618 DISPENSING OPTICS	16 weeks
3	BSO-619 CONTACT LENSES	16 weeks
4	BSO-620 LOW VISION	16 weeks
5	BSO-621 BASICS OF ORTHOPTICS	16 weeks
6	BSO-622 COMMUNITY OPTOMETRY	16 weeks

Course Description

This course provides an in-depth understanding of the optical principles and functioning of various instruments used in optometry and ophthalmology. It covers the design, working mechanisms, and clinical applications of optical instruments. Students will learn about image formation, magnification, resolution, aberrations, and maintenance of these instruments. The course also includes practical sessions to enhance hands-on experience in handling and calibrating optical instruments used in eye examinations and research.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Identify and define optical instruments and explain how specific instruments function.
 2. Describe the optical principles of each instrument.
 3. Compare the performance of manual versus automated instruments.
 4. Analyze errors in optical measurements.
5. Assess the accuracy of instrument readings and justify the selection of specific instruments for different clinical tasks.

Psychomotor Domain

By the end of this course, students should be able to

1. Observe and replicate basic handling of instruments like lensometers or slit lamps.
2. Practice adjusting the keratometer or retinoscope to obtain accurate measurements.
 1. Perform lens power measurements.
 2. Achieve accuracy in aligning the optical center during lensometry.
3. Integrate multiple instruments during a clinical exam and combine manual vs automated tools to cross-check results.

Affective Domain

By the end of this course, students should be able to

1. Show interest in learning about optical instruments and their clinical significance.
 2. Participate actively in hands-on sessions and ask relevant questions.
3. Appreciate the importance of precise instrument usage in patient care and recognize the ethical responsibility of maintaining accurate measurements.
 4. Prioritize regular calibration and proper maintenance of instruments.
5. Exhibit professionalism, empathy and confidence while performing procedures on patients.

TABLE OF SPECIFICATION

TOS-INSTRUMENTS OPTICS 3(2+1)

S. No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/Hours	Assessment	No of Items
				C	P	A				

TOPIC: DIRECT OPHTHALMOSCOPE										
1	Week -1	Introduction	Introduction to direct ophthalmoscope	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
2		Working principle & optics	Described the working principle & optics of direct ophthalmoscope	C 2						
4		Clinical uses	Explain the clinical uses of direct ophthalmoscope	C 3						
5		Maintenance	Discuss the maintenance of direct ophthalmoscope	C 4						
6		Practical performance	Perform practical examination using the direct ophthalmoscope independently		P 4		Demo	1	OSPE/O SCE	1
7		Comply to SOP	Comply to SOPs of direct ophthalmoscope and proper maintenance			A 4	Role Play			
TOPIC: INDIRECT OPHTHALMOSCOPE										
8	Week -2	Introduction	introduction to indirect ophthalmoscope	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
9		Working principle & optics	Describe the working principle and optics of indirect ophthalmoscope, 20D and 30D lenses	C 2						
10		Clinical uses	Explain the clinical uses of direct ophthalmoscope	C 2						
11		Maintenance	Discuss the maintenance of indirect ophthalmoscope	C 3						
15		Practical performance	Perform practical examination using the indirect ophthalmoscope independently		P 4		Demo	1	OSPE/O SCE	1
16		Comply to SOP	Comply to SOPs of indirect ophthalmoscope and proper maintenance			A 4	Role Play			
TOPIC: RETINOSCOPE										

17	Week -3	Introduction	Introduction to retinoscope	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
18		Working principle	Described the working principle of retinoscope	C 2						
19		Optics	Discuss the optics of retinoscope	C 2						
20		Clinical uses	Explain the clinical uses of retinoscope	C 3						
21		Practical performance	Perform practical examination using the retinoscope independently		P 4		Demo	1	OSPE/O SCE	1
22		Comply to SOP	Comply to SOPs of retinoscope and proper maintenance			A 4	Role Play			
TOPIC: CROSS CYLINDER, MADDOX ROD AND MADDOX WING										
23	Week -4	Introduction	Introduction to cross cylinder, maddox rod and maddox wing	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	5
24		Working principle	Described the working principle of cross cylinder, maddox rod and maddox wing	C 2						
25		Optics	Discuss the optics of cross cylinder, maddox rod and maddox wing	C 3						
26		Clinical uses	Explain the clinical uses of cross cylinder, maddox rod and maddox wing	C 4						
27		Practical performance	Perform practical examination using the cross cylinder, maddox rod and maddox wing independently		P 4		Demo	1	OSPE/O SCE	1
28		Comply to SOP	Comply to SOPs of cross cylinder, maddox rod and maddox wing and proper maintenance			A 4	Role Play			
TOPIC: SLIT LAMP										
29		Introduction	Introduction to slit lamp	C 1						

30	Week -5	Working principle	Described the working principle of slit lamp	C 2			Interactive Lecture/SGD	2	MCQs/S EQs	4	
31		Optics	Discuss the optics of slit lamp	C 3							
32		Clinical uses	Explain the clinical uses of slit lamp including 70D, 90D and gonio lenses	C 4							
34		Practical performance	Perform practical examination using the slit lamp independently		P 4		Demo	1	OSPE/O SCE		1
35		Comply to SOP	Comply to SOPs of slit lamp and proper maintenance			A 4	Role Play				
TOPIC: TONOMETER											
36	Week -6	Introduction	Introduction to the various types of tonometer	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4	
37		Working principle	Described the working principle of tonometer	C 2							
38		Calibration & Optics	Discuss the calibration and optics of tonometer	C 3							
39		Clinical uses	Explain the clinical uses of tonometer	C 4							
41		Practical performance	Perform practical examination using the tonometer independently		P 4		Demo	1	OSPE/O SCE		1
42		Comply to SOP	Comply to SOPs of tonometer and proper maintenance			A 4	Role Play				
TOPIC: SYNOPTOPHORE											
43		Introduction	Introduction to synoptophore	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4	
44		Working principle	Described the working principle of synoptophore	C 2							

45	Week -7	Optics	Discuss the optics of synoptophore	C 2						
46		Clinical uses	Explain the clinical uses of synoptophore	C 3						
48		Practical performance	Perform practical examination of the synoptophore independently		P 4		Demo	1	OSPE/O SCE	1
49		Comply to SOP	Comply to SOPs of synoptophore and proper maintenance			A 4	Role Play			
TOPIC: FOCIMETER										
50	Week -8	Introduction	Introduction to focimeter	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
51		Working principle	Described the working principle of focimeter	C 2						
52		Optics	Discuss the optics of focimeter	C 2						
54		Clinical uses	Explain the clinical uses of focimeter	C 3						
55		Practical performance	Perform practical examination using the focimeter independently		P 4		Demo	1	OSPE/O SCE	1
56		Comply to SOP	Comply to SOPs of focimeter and proper maintenance			A 4	Role Play			
TOPIC: KERATOMETER										
57	Week -9	Introduction	Introduction to keratometer	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
58		Working principle	Described the working principle of keratometer	C 2						

59		Optics	Discuss the optics of keratometer	C 3						
60		Clinical uses	Explain the clinical uses of keratometer	C 4						
62		Practical performance	Perform practical examination using the keratometer independently		P 4		Demo	1	OSPE/O SCE	
63		Comply to SOP	Comply to SOPs of keratometer and proper maintenance			A 4	Role Play			
TOPIC: CORNEAL TOPOGRAPHY AND PENTACAM										
65	Week -10	Introduction	Introduction to corneal topography	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
66		Working principle	Described the working principle of corneal topography	C 2						
67		Optics	Discuss the optics of corneal topography	C 3						
68		Interpretation & Clinical uses	Explain the interpretation and clinical uses of corneal topography	C 4						
70		Practical performance	Perform practical examination of corneal topography independently		P 4		Demo	1	OSPE/O SCE	1
71		Comply to SOP	Comply to sops of corneal topography and proper maintenance			A 4	Role Play			
TOPIC: PACHYMETER										
72	Week -11	Introduction	Introduction to pachymeter	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
73		Working principle	Described the working principle of pachymeter	C 2						
74		Optics	Discuss the optics of pachymeter	C 3						

75		Clinical uses	Explain the clinical uses of pachymeter	C 4						
77		Practical performance	Perform practical examination of using the pachymeter independently		P 4		Demo	1	OSPE/O SCE	1
78		Comply to SOP	Comply to SOPs of pachymeter and proper maintenance			A 4	Role Play			
TOPIC: AUTOREFRACTOMETER										
79	Week -12	Introduction	Introduction to autorefractometer	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
80		Working principle	Described the working principle of autorefractometer	C 2						
81		Optics	Discuss the optics of autorefractometer	C 3						
82		Clinical uses	Explain the clinical uses of autorefractometer	C 4						
83		Practical performance	Perform practical examination using the autorefractometer independently		P 4		Demo	1	OSPE/O SCE	1
84		Comply to SOP	Comply to SOPs of autorefractometer and proper maintenance			A 4	Role Play			
TOPIC: PHOROPTER										
85	Week -13	Introduction	Introduction to phoropter	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
86		Working principle	Described the working principle of phoropter	C 2						
87		Optics	Discuss the optics of phoropter	C 3						

88		Clinical uses	Explain the clinical uses of phoropter	C 4						
89		Practical performance	Perform practical examination phoropter independently		P 4		Demo	1	OSPE/O SCE	
90		Comply to SOP	Comply to SOPs of phoropter and proper maintenance			A 4	Role Play			
TOPIC: LOW VISION AIDS										
91	Week -14	Introduction	Introduction to low vision aids	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
92		Working principle	Described the working principle of low vision aids	C 2						
93		Optics	Discuss the optics of low vision aids	C 2						
94		Clinical uses	Explain the clinical uses of low vision aids	C 3						
95		Practical performance	Perform practical examination using the low vision instruments independently		P 4		Demo	1	OSPE/O SCE	1
96		Comply to SOP	Comply to SOPs of low vision instruments and proper maintenance			A 4	Role Play			
TOPIC: OCULAR COHERENCE TOMOGRAPHY										
97	Week -15	Introduction	Introduction to ocular coherence tomography	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
98		Working principle	Described the working principle of ocular coherence tomography	C 2						
99		Optics	Discuss the optics of ocular coherence tomography	C 3						

100		Clinical uses	Explain the clinical uses of ocular coherence tomography	C 4						
101		Practical performance	Perform practical examination of ocular coherence tomography		P 4		Demo	1	OSPE/O SCE	1
102		Comply to SOP	Comply to SOPs of ocular coherence tomography and proper maintenance			A 4	Role Play			
TOPIC: ELECTRO DIAGNOSTIC TESTS										
103	Week -16	Introduction	Introduction to electro diagnostic tests	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
104		Working principle	Described the working principle of electro diagnostic tests	C 2						
105		Types	Discuss the various types electro diagnostic tests	C 3						
106		Clinical uses	Explain the clinical uses of electro diagnostic tests	C 4						
107		Practical performance	Perform practical examination of electro diagnostic tests		P 4		Demo	1	OSPE/O SCE	1
108		Comply to SOP	Comply to SOPs of electro diagnostic tests and proper maintenance			A 4	Role Play			

Recommended Books:

1. Clinical optics by Elkington
2. Clinical optics American academy ,edition 2021
3. Clinical optics by Boorish

ASSESSMENT BREAKDOWN

S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Direct ophthalmoscope	4	1	Interactive
2	Indirect ophthalmoscope	4	1	Static

3	Retinoscope	4	1	Interactive
4	Cross Cylinder, Maddox Rod and Maddox Wing	5	1	Static and Interactive
5	Slit Lamp	4	1	Static
6	Tonometer	4	1	Static
7	Synoptophore	4	1	Static
8	Focimeter	5	1	Static and interactive
9	Keratometer	5	1	Static
10	Corneal Topography and Pentacam	5	1	Static
11	Pachymeter	4	1	Static
12	Autorefractometer	5	1	Static
13	Phoropter	4	-	-
14	Low Vision Aids	4	1	Static
15	Ocular Coherence Tomography (OCT)	5	1	Static
16	Electro Diagnostic Tests	4	-	-
Total	16	70	14	14

Course Description

Dispensing Optics is a specialized course that focuses on the selection, fitting, and dispensing of ophthalmic lenses and frames. It covers the principles of lens materials, coatings, and designs, along with the anatomical and physiological considerations for proper eyewear fitting. The course also emphasizes patient communication, troubleshooting optical issues, and the application of modern dispensing techniques.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Identify different frame material and frame designs, optical center and lens coatings.
 1. Explain the role of lens materials in patient-specific recommendations.
2. Calculate lens thickness, decentration and match frame size, shape, and lens type to the patient's prescription and facial features.
3. Evaluate the pros and cons of various lens materials and coatings for different lifestyles.
 4. Analyze frame fitting issues and suggest appropriate adjustments.

Psychomotor Domain

By the end of this course, students should be able to

1. Observe and replicate basic frame fitting and lens alignment techniques.
 2. Practice interpupillary distance measurements.
 3. Adjust frame arms and nose pads for a proper fit.
4. Ensure accurate placement of optical centers during lens fitting and verify the final product using a lensometer to check for prescription accuracy.
 5. Perform dispensing tasks with efficiency and confidence, minimizing errors.

Affective Domain

By the end of this course, students should be able to

1. Show genuine interest in understanding patient needs and preferences.
2. Actively engage with patients during the selection process of frames and lenses.
 3. Address patient concerns and provide guidance empathetically.
4. Value ethical practices like honest recommendations and transparent communication.
 5. Prioritize patient safety, comfort and satisfaction in all dispensing activities.

TABLE OF SPECIFICATION

TOS-DISPENSING OPTICS 3(2+1)

S. No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/H ours	Assess ment	No of Items
				C	P	A				

TOPIC: OPTICAL SHOP										
1	WEEK 1	Introduction	Introduction to optical shop	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	1
2		Rules & Regulations	Discuss various rules & regulation of optical shop	C 2						
3		Importance	Explain the importance of optical shop	C 2						
4		Satisfaction	Describe how to satisfied the community	C 3						
6		Demonstration	Explain the optical shop through charts/videos		P 4		Demo	1	OSPE/O SCE	1
7		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: ROLE OF DISPENSING OPTICS IN OPHTHALMOLOGY										
8	Week -2	Introduction	introduction to role of dispensing optics in ophthalmology	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
9		Importance	Discuss importance of dispensing optics in ophthalmology	C 2						
10		Roles	Explain the role of dispensing optics in ophthalmology	C 2						
11		Out come	Discuss the outcome of role of dispensing optics in ophthalmology	C 3						
12		Demonstration	Demonstrate the role of dispensing optics in ophthalmology through videos		P 4		Demo	1	OSPE/O SCE	1
13		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: MAANAGING INVENTORY AND RECORD KEEPING										

14	Week - 3	Introduction	Introduction to managing inventory and record keeping	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	3
15		Management	Discuss the management of managing inventory and record keeping	C 2						
16		Importance	Explain the importance of managing inventory and record keeping	C 2						
17		Out come	Discuss the outcome of role of managing inventory and record keeping	C 3						
18		Demonstration	Demonstrate the managing inventory and record keeping through charts/videos		P 4		Demo	1	OSPE/O SCE	1
19		Behavior	Adopt how to observe the behavior of charts demonstration			A 4	Role Play			
TOPIC: LENSES AND PRESCRIPTION FOR SPECTACLES										
20	Week -4	Introduction	Introduction to different types of lenses	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	5
21		How to prescribed	Discuss how to prescribe the spectacles prescription	C 2						
22		Analysis	Explain the analysis of spectacles prescription	C 3						
23		Importance	Describe the importance of spectacles prescription	C 4						
24		Demonstration	Demonstrate the lenses and prescription for spectacles through charts/videos		P 4		Demo	1	OSPE/O SCE	1
25		Behavior	Adopt how to observe the behavior of charts and videos demonstration.			A 4	Role Play			
TOPIC: FOCIMETRY AND ITS APPLICATION IN DISPENSING OPTICS										
26		Introduction	Introduction to focimeter	C 1						

27	Week -5	Types	Describe the focimetry and its application in dispensing optics	C 2			Interactive Lecture/SGD	2	MCQs/S EQs	8	
28		Importance	Explain the principles of focimetry	C 3							
29		Demonstration	Demonstrate the focimetry and its application in dispensing optics through practical demonstration/videos		P 4		Demo	1	OSPE/O SCE		1
30		Behavior	Adopt how to observe the behavior of practical/video demonstration			A 4	Role Play				
TOPIC: INTERPUPILLARY DISTANCE AND OPTICAL CENTER DISTANCE MEASUREMENT											
31	Week -6	Introduction	Introduction to interpupillary distance and optical center distance	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	8	
32		Measurement	Describe the measurement of interpupillary distance and optical center distance	C 1							
33		Importance	Discuss the importance of interpupillary distance measurement and optical center distance	C 2							
34		Methods	Discuss the different methods of interpupillary distance measurement	C 3							
35		Demonstration	Perform the practical measurement of interpupillary distance independently		P 4		Demo	1	OSPE/O SCE		2
36		Behavior	Adopt how to observe the behavior during the interpupillary distance measurement			A 4	Role Play				
TOPIC: BACK VERTEX DISTANCE											
37	Week -7	Introduction	Introduction to back vertex distance	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5	
38		Measurement	Discuss the measurement of back vertex distance	C 2							
39		Importance	Discuss the importance of back vertex distance	C 2							

40		Demonstration	Perform the practical measurement of back vertex distance independently		P 4		Demo	1	OSPE/O SCE	1				
41		Behavior	Adopt how to observe the behavior during the back vertex distance measurement			A 4	Role Play							
TOPIC: BLANK SIZE AND CENTRATION														
42	Week -8	Introduction	Introduction to blank size and centration	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5				
43		Measurement	Discuss the measurement of blank size and centration	C 2										
44		Importance	Discuss the importance of blank size and centration	C 2										
45		Problems	Explain the various problems related to blank size and centration	C 3										
46		Demonstration	Perform practically the blank size and centration measurement		P 4						Demo	1	OSPE/O SCE	1
47		Behavior	Adopt how to observe the behavior during the blank size and centration measurement			A 4					Role Play			
TOPIC: FRAME SELECTION														
48	Week -9	Introduction	Introduction to frame selection	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5				
49		Criteria	Discuss the criteria for frame selection	C 2										
50		Types	Discuss the various types of frames	C 3										
51		Issues	Describe the various issues regarding frame selection	C 3										
52		Importance	Elaborate the importance of frame selection	C 4										

53		Demonstration	Demonstrate the frame selection through charts/videos		P 4		Demo	1	OSPE/O SCE	1
54		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: PROBLEMS WITH SPECTACLES										
55	Week -10	Introduction	Introduction to problems with spectacles	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
56		Diagnoses	Discuss the diagnoses of different problems with spectacles	C 2						
57		Management	Explain the management issues regarding spectacles	C 3						
58		Demonstration	Demonstrate the problems related to spectacles through charts/videos		P 4		Demo	1	OSPE/O SCE	1
59		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: SELECTION OF SPECTACLES										
61	Week -11	Introduction	Introduction to checklist for customers for selection of his/her spectacles	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
62		Criteria	Discuss the criteria for checklist of customers for selection of his/her spectacles	C 2						
63		Importance	Elaborate the importance of checklist for customers for selection of his/her spectacles	C 3						
64		Demonstration	Demonstrate the checklist for customers for selection of his/her spectacles through charts/videos		P 4		Demo	1	OSPE/O SCE	1
65		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: CHECKING AND NECESSARY ADJUSTMENT FOR FITTING										

66	Week -12	Introduction	Introduction to checking and necessary adjustment for fitting	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
67		Issues	Discuss the various issues to the adjustment of fitting	C 2						
68		Types	Discuss the various types of fitting	C 3						
69		Complications	Describe the various complications of fitting	C 3						
70		Management	Elaborate the management of fitting adjustment	C 4						
71		Demonstration	Demonstrate checking and necessary adjustment for fitting through videos/charts		P 4		Demo	1	OSPE/O SCE	1
72	Behavior	Adopt how to observe the behavior of charts/ videos demonstration			A 4	Role Play				
TOPIC: SPECTACLES FOR PRESBYOPIA										
73	Week -13	Introduction	Introduction to spectacles for presbyopia	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
74		Types	Describe the various types of lenses uses for the correction of presbyopia	C 2						
75		Management	Elaborate the various management of presbyopia	C 3						
76		Demonstration	Demonstrate spectacles for presbyopia through videos/charts demonstration		P 4		Demo	1	OSPE/O SCE	1
77		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: HIGH INDEX LENSES										
78	Week -14	Introduction	Introduction to high index lenses	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4

79		Types	Discuss the various types high index lenses	C 2						
80		Selection	Discuss the selection of high index lenses	C 2						
81		Importance	Explain the importance of high index lenses	C 3						
81		Demonstration	Demonstrate the high index lenses through charts/videos		P 4		Demo	1	OSPE/O SCE	1
83		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: ASPHERIC LENSES										
84	Week -15	Introduction	Introduction to aspheric lenses	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
85		Selection	Discuss the selection of aspheric lenses	C 2						
86		Types	Discuss the various types of aspheric lenses	C 2						
87		Importance	Describe the importance of aspheric lenses	C 3						
88		Demonstration	Demonstrate the aspheric lenses through charts and videos		P 4		Demo	1	OSPE/O SCE	1
89		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: PRISMS										
90	Week -16	Introduction	Introduction to prisms	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
91		Identification	Discuss the identification of prisms	C 2						

92	Selection	Discuss the selection of prisms	C 3						
93	Importance	Explain the importance of prisms	C 3						
94	Demonstration	Demonstrate prisms through charts and videos		P 4		Demo	1	OSPE/O SCE	1
95	Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			

Recommended Books:

1. Obsctfeld H. Spectacle Frames and their dispensing WB. Saunders, London
2. Brooks CE. Borish Im. System for ophthalmic dispensing
3. Wakefield, KG, Bennett AG, Bennett's Ophthalmic Prescription work

ASSESSMENT BREAKDOWN

S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Optical Shop	1	-	-
2	Role of Dispensing Optics in Ophthalmology	4	1	Interactive
3	Managing inventory and Record keeping	3	1	Static
4	Lenses and Prescription for Spectacles	5	1	Static and Interactive
5	Focimetry and Its Application in Dispensing Optics	8	1	Static and Interactive
6	Interpupillary Distance (IPD) and optical center distance(OCD) Measurement	8	1	Interactive
7	Back Vertex Distance (BVD)	5	1	Static
8	Blank Size and Centration	5	1	Static
9	Frame Selection	5	-	-
10	Problems with Spectacles	4	1	Static
11	Selection of Spectacles	4	1	Static

12	Checking and Necessary Adjustment for Fitting	5	1	Static
13	Spectacles for Presbyopia	4	1	Static
14	High Index Lenses	4	1	Static
15	Aspheric Lenses	4	1	Static
16	Prisms	5	1	Static
Total	16	70	14	14

BSO-619 Contact Lenses-I 3(2+1)

Course Description

Contact Lenses I is an introductory course that covers the fundamental principles of contact lenses, including their history, classification, materials, and basic fitting techniques. The course provides a foundation in the anatomy and physiology of the cornea and tear film, essential for understanding contact lens adaptation. Emphasis is placed on patient selection, lens prescribing, and the assessment of lens performance.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Understand material properties, replacement schedules and indications for contact lens use.
2. Explain the benefits and limitations of different lens types for specific refractive errors or eye conditions and describe the fitting process and how lens parameters affect lens performance.
3. Apply knowledge to select the appropriate lens type and design for a given prescription.
4. Evaluate the fit of a contact lens using fluorescein patterns or slit-lamp examination.
5. Assess the success of lens fittings based on patient comfort, vision and ocular health.

Psychomotor Domain

By the end of this course, students should be able to

1. Observe and replicate the proper techniques for inserting and removing contact lenses.
2. Perform contact lens fitting procedures, including trial lens application and over-refraction.
3. Achieve accurate insertion and removal of contact lenses during patient training.
4. Conduct thorough slit-lamp evaluations to assess lens fit, movement and patient eye health.
5. Use multiple diagnostic tools to refine fittings.

Affective Domain

By the end of this course, students should be able to

1. Show interest in understanding patient needs and concerns about contact lenses.
2. Listen attentively to patient preferences for vision correction.
3. Appreciate the importance of proper lens hygiene and compliance for patient safety.
4. Encourage patients to follow recommended wearing schedules and care routines.
5. Prioritize patient safety and ocular health in all decision-making processes.

TABLE OF SPECIFICATION

TOS-CONTACT LENSES-I 3(2+1)

S. No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/ Hours	Assess ment	No of Items
				C	P	A				
TOPIC: CONTACT LENSES AND ITS OPTICS										
1	Week-1	Introduction	Introduction to contact lenses	C 1			Interactive Lecture/SGD	2	MCQs/ SEQs	4
2		Uses	Discuss uses of contact lenses	C 2						
3		Optics	Describe the optics of contact lenses	C 3						
4		Contact Lenses & Glasses	Describe contact lenses better or glasses	C 3						
5		Risks of Contact lenses	Explain the risks of contacts lenses	C 4						
7		Practical demonstration	Demonstrate the concept of contact lenses and its optics through presentation/videos demonstration		P 4		1	OSPE/ OSCE	1	
8		Behavior	Adopt how to observe the behavior of videos demonstration			A 4				
TOPIC: BRIEF HISTORY OF DEVELOPMENT OF CONTACT LENSES										

9	Week-2	Introduction	Define history of contact lenses	C 1			Interactive Lecture/SGD	2	MCQs/ SEQs	4
10		Contact Lens Development	Discuss the history of contact lens development	C 2						
11		Facts	Describe the facts about the first contact lens	C 3						
12		Principle	Describe the contact lenses principle	C 3						
13		Purpose	Explain the purpose of contact lenses invention	C 4						
14		Practical demonstration	Demonstrate the concept of development of contact lenses through videos demonstration		P 4		Demo	1	OSPE/ OSCE	1
15	Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play				
TOPIC: CONTACT LENS MATERIAL										
16	Week-3	Introduction	Define the contact lens material	C 1			Interactive Lecture/SGD	2	MCQs/ SEQs	4
17		Main Material	Discuss the main material of contact lenses	C 2						
18		Safest & Best Material	Discuss the safest and best material for contact lenses	C 2						
19		Ingredients	Describe the ingredients in silicone hydrogel contact lenses	C 3						
20		Water Content	Explain the water content of silicone hydrogel lenses	C 4						
21		Practical demonstration	Demonstrate the concept of contact lenses material through videos demonstration		P 4		Demo	1	OSPE/ OSCE	1

22		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: PROPERTIES OF CONTACT LENS MATERIALS										
23	Week-4	Introduction	Introduction to properties contact lens materials	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	5
24		Oxygen permeability	Describe oxygen permeability	C 2						
25		Transmissibility	Discuss the transmissibility	C 3						
26		Wettability	Discuss the wettability	C 3						
27		Water absorption	Explain water absorption	C 4						
28		Practical demonstration	Demonstrate properties of contact lens materials through videos		P 4		Demo	1	OSPE/ OSCE	1
29		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: CONTACT LENS MANUFACTURING TECHNIQUES										
23	Week-5	Introduction	Define the manufacturing techniques	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	4
24		Manufacturing Process	Discuss the manufacturing process of contact lenses	C 2						
25		Raw Materials	Discuss the raw materials for contact lenses	C 2						
26		Optical Manufacturing Techniques	Describe the optical manufacturing techniques of contact lenses	C 3						
27		Polymer	Explain which polymer is used in contact lenses manufacturing	C 4						

28		Practical demonstration	Demonstrate the concept of contact lenses manufacturing techniques through videos demonstration		P 4		Demo	1	OSPE/ OSCE	1
29		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: INDICATIONS AND CONTRA-INDICATIONS OF CONTACT LENSES										
30	Week-6 & 7	Introduction	Define indications and Contra-indications	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	8
31		Indications	Discuss the indications of contact lenses	C 2						
32		Contra-indications	Discuss the contra-indication of contact lenses	C 2						
33		Therapeutic Indications	Describe the therapeutic indications for contact lenses	C 3						
34		Indications of Contact lens in Children	Describe the indications of contact lens in children	C 3						
35		Indications of Contact lens in Adults	Describe the indications of contact lens in adults	C 3						
36		Scleral Lenses Indication	Explain the indication for scleral lenses	C 4						
37		Scleral Lenses Contra-indication	Explain the contra-indication for scleral lenses	C 4						
38			Practical demonstration	Demonstrate indications and contra-indications of contact lenses through presentation/ videos demonstration		P 4				
39		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: PATIENT SELECTION CRITERIA FOR CONTACT LENSES										
40	Week-8	Introduction	Define criteria for contact lens patient	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	4

41		Medically necessary Contacts lenses	Describe the requirements for medically necessary contacts lenses	C 2						
42		Patient Suitability	Discuss how to assess patient suitability for contact lenses	C 2						
43		Patient Motivation	Describe patient motivation plays an important role in any form of contact lens fitting	C 3						
44		Good candidate for Contact lenses	Explain the good candidate for contact lenses	C 4						
45		Practical demonstration	Demonstrate patient selection criteria for contact lenses through presentation/videos		P 4		Demo	1	OSPE/ OSCE	1
46		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: SOFT CONTACT LENSES										
47	Week-9	Introduction	Define soft contact lenses	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	5
48		Advantages	Discuss the advantages of soft contact lenses	C 2						
49		Disadvantages	Discuss the disadvantages of soft contact lenses	C 3						
50		Duration	Describe how many hours an individual can wear soft contact lenses	C 3						
51		Characteristics	Explain characteristics soft lenses	C 4						
52		Practical demonstration	Perform the fitting of soft contact lenses independently		P 4		Demo	1	OSPE/ OSCE	
53	Behavior	Adopt how to observe the behavior during fitting of soft contact lenses			A 4	Role Play				
TOPIC: HARD CONTACT LENSES										

54	Week-10 & 11	Introduction	Define hard contact lenses	C 1			Interactive Lecture/SDG	2	MCQs/SEQs	8				
55		Advantages	Discuss the advantages of hard contact lenses	C 2										
56		Disadvantages	Discuss the disadvantages of hard contact lenses	C 2										
57		Duration	Describe how long an individual can wear hard contact lenses	C 2										
58		Eye Condition	Describe which eye condition requires hard contact lenses	C 3										
59		Lens design	Discuss hard contact lens design	C 3										
60		BOZR, BOZP & BPZD	Describe the measuring of BOZR, BOZP, BPZD	C 3										
61		Other radii	Describe the measuring technique of back vertex power, diameters and thickness	C 3										
62		Water content	Discuss the measuring technique of water content	C 4										
63		DK value and Wettability	Explain the DK value and Wettability	C 4										
64		Practical demonstration	Perform the fitting of hard contact lenses		P 4						Demo	1	OSPE/OSCE	1
65		Behavior	Adopt how to observe the behavior during fitting of hard contact lenses			A 4					Role Play			
TOPIC: REFRACTION FOR CONTACT LENSES														
66	Week-12	Introduction	Define the refraction rule for contact lenses	C 1			Interactive Lecture/SDG	2	MCQs/SEQs	5				

67		Refractive Errors	Describe the contact lenses for refractive errors	C 2							
68		Myopia	Discuss the contact lenses uses to correct problems that are associated with myopia	C 3							
69		Hypermetropia	Discuss the contact lenses uses to correct problems that are associated with hypermetropia	C 3							
70		Astigmatism	Discuss the contact lenses uses to correct problems that are associated with astigmatism	C 3							
71		Presbyopia	Explain the different types of contact lenses for presbyopia correction	C 4							
72		Practical demonstration	Demonstrate the protocol of contact lenses through videos		P 4			Demo	1	OSPE/ OSCE	1
73	Behavior	Adopt how to observe the behavior of videos demonstration			A 4		Role Play				
TOPIC: CONTACT LENS FITTING											
74	Week-13	Introduction	Define fitting of contact lenses	C 1							
75		Process	Discuss the process of contact lens fitting	C 2							
76		Trial sets	Discuss the trial sets of contact lenses	C 2				Interactive Lecture/SDG	2	MCQs/ SEQs	5
77		Fitting Technique	Describe the common fitting technique	C 3							
78		Fluorescein Patterns	Explain the fluorescein patterns in lens fitting	C 4							
79		Practical demonstration	Demonstrate contact lens fitting through videos		P 4			Demo	1	OSPE/ OSCE	1

80		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: CONTACT LENS SOLUTION AND STORAGE										
81	Week-14	Introduction	Define solution and storage of contact lenses	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	5
82		Process	Discuss the process of contact lenses storage	C 2						
83		Technique	Discuss the contact lens solution manufacturing technique	C 2						
84		Ingredients	Describe the main ingredients in contact lens solution	C 3						
85		Types	Explain the different types of contact lens solutions	C 4						
86		Practical demonstration	Demonstrate solution and storage of contact lenses through videos		P 4		Demo	1	OSPE/ OSCE	1
87	Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play				
TOPIC: CONTACT LENS COMPLICATIONS										
95	Week-15	Introduction	Define the complication of contact lens wear	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	5
96		Side effects	Discuss the side effects of contact lenses	C 2						
97		Most common complication	Describe most common complication of contact lens wear	C 2						
98		Risk factors	Enlist the risk factors for contact lens complications	C 3						
99		Complications	Explain the contact lens complications	C 4						

100		Practical demonstration	Demonstrate contact lens complications through videos		P 4		Demo	1	OSPE/ OSCE	1
101		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: SPECIAL PURPOSE CONTACT LENSES										
102	Week-16	Introduction	Define special purpose contact lenses	C 1			Interactive Lecture/SDG	2	MCQs/ SEQs	4
103		Effect	Define special effect of contact lenses	C 2						
104		Specialty contact Lenses	Discuss the specialty contact Lenses	C 3						
105		Extended wear lenses	Describe the extended wear lenses	C 3						
106		Astigmatism and contact lenses	Explain the astigmatism and contact lenses	C 4						
107		Practical demonstration	Demonstrate special purpose contact lenses through videos		P 4		Demo	1	OSPE/ OSCE	1
108	Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play				

Recommended Books:

1. Gasson A, Morries J. The contact lens. A practical fitting guide Butterworth, Oxford.
2. Tomlinson a complications of contact lens Ear. Mosby.
3. Bennett ES Grohe RM. Rigid Gas Permeable lenses, Fairchild Publications.
4. Practical guide to contact lens fitting
5. ICCLE module course

ASSESSMENT BREAKDOWN

S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Contact Lenses and Its Optics	4	-	-

2	Brief History of Development of Contact lenses	4	1	Interactive
3	Contact Lens Material	4	1	Static
4	Properties of Contact lens Materials	5	1	Static and Interactive
5	Contact lens Manufacturing Techniques	4	1	Static and Interactive
6	Indications and Contra-indications of Contact Lenses	4	1	Interactive
7	Indications and Contra-indications of Contact Lenses	4	1	Interactive
8	Patient Selection Criteria for Contact Lenses	4	1	Static
9	Soft Contact Lenses	5	1	Static
10	Hard Contact Lenses	4	1	Static
11	Hard Contact Lenses	4	1	Static
12	Refraction for Contact Lenses	5	1	Static
13	Contact Lens Fitting	5	1	Static
14	Contact Lens Solution and Storage	5	-	-
15	Contact lens Complications	5	1	Static
16	Special Purpose Contact Lenses	4	1	Static
Total	16	70	14	14

BSO-620 Low Vision-I 3(2+1)

Course Description

Low Vision I is an introductory course that provides a fundamental understanding of low vision, its causes, and its impact on daily life. The course covers the assessment and management of patients with visual impairment, emphasizing the use of optical and non-optical low vision aids. Students will learn how to evaluate residual vision, prescribe appropriate devices, and provide rehabilitation strategies to enhance the quality of life for individuals with low vision.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Understand visual acuity, visual field and contrast sensitivity assessments.
2. Explain the functional impact of low vision on daily activities.
3. Use clinical techniques to assess residual vision and recommend appropriate aids.
4. Evaluate the effectiveness of low vision aids in improving quality of life.
5. Assess the suitability of various rehabilitation strategies and tools for specific patient needs.

Psychomotor Domain

By the end of this course, students should be able to

1. Observe and replicate the use of low vision assessment tools.
2. Administer tests to measure residual vision and functional abilities.
3. Integrate multiple techniques to optimize low vision rehabilitation.
4. Master the ability to tailor rehabilitation plans for a wide range of visual impairment.
5. Confidently handle complex cases requiring multidisciplinary collaboration.

Affective Domain

By the end of this course, students should be able to

1. Show interest in understanding the emotional and functional challenges faced by low-vision patients and pay attention to patients' specific goals and preferences.
2. Actively engage with patients during counseling and training sessions.
3. Encourage patients to express their concerns and experiences with low vision aids.
4. Demonstrate a commitment to empowering low-vision patients through education and advocacy.
5. Exhibit empathy, patience and professionalism in all interactions.

TABLE OF SPECIFICATION

TOS-LOW VISION-I 3(2+1)

S.No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/Hours	Assessment	No of Items
				C	P	A				
TOPIC: LOW VISION										
1		Introduction	Introduction to low vision	C 1						
2		Causes	Discuss the causes of low vision	C 2				2		

3	WEEK 1	Importance	Discuss the importance of diagnoses of low vision patients	C 2			Interactive Lecture/SGD		MCQs/SE Qs	
4		Criteria	Describe the criteria for low vision	C 3						
5		Management	Explain the management of low vision patients	C 4						
6		Demonstration	Demonstrate the low vision through charts/videos		P 4		Demo	1	OSPE/OS CE	
7		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: EPIDEMIOLOGY OF LOW VISION										
8	Week- 2	Introduction	Introduction to epidemiology of low vision	C 1			Interactive Lecture/SGD	2	MCQs/SE Qs	5
9		Burden	Discuss the epidemiology of low vision, its prevalence and incidence to estimate its burden	C 2						
10		Community needs	Discuss various community needs regarding to low vision	C 2						
12		Management	Describe the various management for low vision patients	C 3						
15		Demonstration	Demonstrate the epidemiology of low vision through charts/videos		P 4		Demo	1	OSPE/OS CE	
16		Behavior	Adopt how to observe the behavior of charts/ Videos demonstration			A 4	Role Play			
TOPIC: LOW VISION SERVICES										
17		Introduction	Introduction to low vision services	C 1				2	MCQs/SE Qs	4
18		Level	Discuss the level of low services	C 2						

19	Week-3	Team	Explain the teams at the different level of low vision services	C 2			Interactive Lecture/SGD			1
20		Importance	Describe the importance of level of low services	C 3						
21		Demonstration	Demonstrate the low vision services through charts/videos		P 4		Demo	1	OSPE/OS CE	
22		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: ROLE OF OPTOMETRIST / PATIENTS / FAMILY AND COMMUNITY										
23	Week-4	Introduction	Introduction to the role of optometrist/patients/family and community	C 1			Interactive Lecture/SGD	2	MCQs/SE Qs	3
24		Participants	Discuss the various participants in low vision services	C 2						
25		Importance	Explain the importance of role of optometrist/patients/family and community	C 3						
27		Demonstration	Demonstrate the role of optometrist/patients/family and community through charts/videos		P 4		Demo	1	OSPE/OS CE	
28		Behavior	Adopt how to observe the behavior of charts and videos demonstration.			A 4	Role Play			
TOPIC: PSYCHOLOGICAL IMPLICATION										
29	Week-5	Introduction	Introduction to psychological implication low vision	C 1			Interactive Lecture/SGD	2	MCQs/SE Qs	4
30		Effect	Discuss the different psychological effect of low vision	C 2						
31		Basic loses	Explain the basic psychological loses to low vision	C 3						
32		Stages	Discuss the various stages in adjusting to low vision	C 4						

34		Demonstration	Demonstrate the psychological implication through charts/videos		P		Demo	1	OSPE/OSCE	1
35		Behavior	Adopt how to observe the behavior of videos demonstration		A	4	Role Play			
TOPIC: MULTIDISCIPLINARY APPROACH										
36	Week-6	Introduction	Introduction to multidisciplinary approach	C			Interactive Lecture/SDG	2	MCQs/SE Qs	4
37		Types	Discuss various multidisciplinary approach	C						
38		Importance	Discuss the various stages in adjusting to low vision	C						
39		Team	Elaborate the team which can participate in low vision	C						
41		Demonstration	Demonstrate the multidisciplinary approach through charts/videos		P	4	Demo	1	OSPE/OSCE	1
42	Behavior	Adopt how to observe the behavior of videos demonstration		A	4	Role Play				
TOPIC: CLINICAL ASSESSMENT OF LOW VISION										
43	Week-7	Introduction	Introduction to clinical assessment of low vision	C			Interactive Lecture/SDG	2	MCQs/SE Qs	5
44		Assessment	Discuss assessment of low vision patients	C						
45		Test	Explain the various special test for low vision	C						
47		Management	Discuss the various management of low vision	C						
48		Demonstration	Demonstrate clinical assessment of low vision patients through charts/videos		P	4	Demo	1	OSPE/OSCE	1

49		Behavior	Adopt how to observe the behavior of videos demonstration			A 4	Role Play			
TOPIC: MAGNIFICATION										
50	Week-8	Introduction	Introduction to magnification	C 1				2	MCQs/SE Qs	5
51		Types	Discuss different types of magnification	C 2						
52		Importance	Discuss the importance of magnification	C 2						
55		Demonstration	Demonstrate the magnification through charts/videos		P 4		Demo	1	OSPE/OS CE	1
56		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: EVD AND EVP										
57	Week-9	Introduction	Introduction to EVD and EVP amplification implication	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	5
58		Calculation	Discuss the calculation of EVD and EVP	C 2						
59		Amplification	Described the amplification of EVD and EVP	C 3						
60		Importance	Explain the importance of EVD and EVP	C 4						
62		Demonstration	Demonstrate the EVD and EVP through charts/videos		P 4		Demo	1	OSPE/OS CE	1
63		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: LOW VISION DEVICES										

65	Week-10	Introduction	Introduction to low vision devices	C 1			Interactive Lecture/SDG	1	MCQs/SE Qs	5
66		Types	Discuss the different types of low vision devices	C 2						
67		Specification	Explain the specification of low vision devices for specific patients	C 2						
68		Importance	Describe the importance of low vision devices for low vision	C 4						
70		Demonstration	Demonstrate the low vision devices through charts/videos		P 4		Demo	1	OSPE/OS CE	1
71	Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play				
TOPIC: AIDS FOR PERIPHERAL FIELD LOSS										
72	Week-11	Introduction	Introduction to aids for peripheral field loss	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	5
73		Types	Discuss different types of aids for peripheral field loss	C 2						
74		Prescription	Discuss the prescription for peripheral field loss	C 3						
75		Importance	Explain the importance of aids for peripheral field loss	C 4						
77		Demonstration	Demonstrate aids for peripheral field loss through charts/videos		P 4		Demo	1	OSPE/OS CE	1
78	Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play				
TOPIC: SPECIAL TECHNIQUES FOR LOW VISION PATIENTS										
79	Week-12	Introduction	Introduction to special techniques	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4

80		Types	Discuss the types of special techniques	C 2						
81		Implification	Described the implication of special techniques	C 3						
82		Importance	Explain the importance of special techniques	C 4						
83		Demonstration	Demonstrate special techniques through videos/charts		P 4		Demo	1	OSPE/OS CE	1
84		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: ORIENTATION AND MOBILITY										
85	Week- 13	Introduction	Introduction to orientation and mobility	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4
86		Techniques	Discuss the techniques for orientation and mobility	C 2						
87		Training	Described the training for orientation and mobility	C 3						
88		Importance	Explain the importance of orientation and mobility	C 4						
89		Demonstration	Demonstrate orientation and mobility through videos/charts demonstration		P 4		Demo	1	OSPE/OS CE	1
90		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: COUNSELLING AND REHABILITATION										
91	Week- 14	Introduction	Introduction to counselling to rehabilitation	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4
92		Techniques	Discuss the techniques for counselling and rehabilitation	C 2						

93		Training	Described the training for counselling and rehabilitation	C 2						
94		Importance	Explain the importance of counselling and rehabilitation	C 3						
95		Demonstration	Demonstrate the counselling and rehabilitation through charts/videos		P 4		Demo	1	OSPE/OS CE	1
96		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: ENVIRONMENTAL MODIFICATION										
97	Week- 15	Introduction	Introduction to environmental modification	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	5
98		Modification	Discuss the environmental modification	C 2						
99		Importance	Explain the importance of environmental modification	C 3						
100		Management	Elaborate the management for environmental modification	C 4						
101		Demonstration	Demonstrate the environmental modification through Charts and videos		P 4		Demo	1	OSPE/OS CE	1
102		Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play			
TOPIC: BUILDING DESIGN & DAILY SKILLS										
103	Week- 16	Introduction	Introduction to building design and daily skills	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4
104		Building	Discuss the various modification needed in building for low vision patients	C 2						
105		Daily skills	Explain the different skills needed for low vision patients	C 3						

106	Importance	Describe the importance of building design and daily skills	C 3					
107	Demonstration	Demonstrate building design and daily skills through charts and videos		P 4		Demo	1	OSPE/OSCE
108	Behavior	Adopt how to observe the behavior of charts/videos			A 4	Role Play		

Recommended Books:

1. Foundations of Low Vision: Clinical and Functional Perspectives by Anne L. Corn & Jane N. Erin
2. Low Vision Rehabilitation by Mitchell Scheiman & Maxine Scheiman
3. Clinical Procedures for Ocular Examination by Nancy B. Carlson & Daniel Kurtz
4. The Low Vision Handbook by Elaine Kitchel
5. Freeman PB. The area and practice of Low Vision Butterworth- Heienmann
6. Fonda G. Management of low vision. Thieme Stration

ASSESSMENT BREAKDOWN

S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Low Vision	3	-	-
2	Epidemiology of Low Vision	5	-	-
3	Low Vision Services	4	1	Static
4	Role of Optometrist / Patients / Family and Community	3	1	Static and Interactive
5	Psychological Implication	4	1	Interactive
6	Multidisciplinary Approach	4	1	Static
7	Clinical Assessment of low vision	5	1	Static
8	Magnification	5	1	Static
9	EVD and EVP	5	1	Static
10	Low Vision Devices	5	1	Interactive
11	Aids for Peripheral Field Loss	5	1	Static
12	Special Techniques for Low Vision Patients	5	1	Static

13	Orientation and Mobility	4	1	Static
14	Counselling and Rehabilitation	4	1	Static
15	Environmental Modification	5	1	Static
16	Building design & Daily skills	4	1	Static
Total	16	70	14	14

BSO-621 Basics of Orthoptics 3(2+1)

Course Description

Basics of orthoptics introduces students to the principles of binocular vision, eye movement disorders, and the diagnosis and management of strabismus and amblyopia. The course covers essential assessment techniques, including cover testing, motility evaluation, and sensory fusion tests. Emphasis is placed on understanding the neurological and anatomical basis of ocular motility disorders and the role of optometrists in orthoptic management.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Identify common binocular vision disorders and understand the principles of orthoptic tests.
2. Use theoretical knowledge to perform basic orthoptic evaluations and interpret findings.
3. Analyze the results of orthoptic tests to identify specific conditions such as esotropia, exotropia or vertical deviations.
 4. Evaluate the effectiveness of therapeutic interventions like vision therapy exercises.
 5. Assess patient progress during follow-ups and modify the treatment plan if necessary.

Psychomotor Domain

By the end of this course, students should be able to

1. Observe and replicate the use of basic orthoptic tools.
2. Perform detailed binocular vision assessments and use prisms to measure and correct ocular deviations.
 3. Integrate multiple tests to diagnose complex binocular vision anomalies.
4. Combine orthoptic exercises with optical corrections or patching to enhance treatment outcomes.
 5. Perform orthoptic evaluations and therapy sessions confidently and efficiently.

Affective Domain

By the end of this course, students should be able to

1. Show interest in understanding the challenges faced by patients with binocular vision anomalies.

2. Actively engage with patients during evaluations and therapy sessions.
3. Provide clear instructions and feedback to ensure patient understanding and cooperation.
4. Appreciate the importance of early detection and management of binocular vision disorders.
5. Develop structured routines for orthoptic evaluations and therapy sessions.

TABLE OF SPECIFICATION

TOS-BASICS OF ORTHOPTICS 3(2+1)

S.No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/Hours	Assessment	No of Items
				C	P	A				
TOPIC: EXTRAOCULAR MUSCLES										
1	Week-1&2	Introduction	Introduction to extraocular muscles	C 1			Interactive Lecture/SGD	2	MCQs/SEQs	8
2		Anatomy	Discuss the anatomy of extraocular muscles	C 2						
3		Course	Discuss the course of extraocular muscles	C 2						
4		Origin	Discuss the origin of extraocular muscles	C 2						
5		Insertion	Describe insertion of extraocular muscles	C 3						
6		Innervation	Describe the innervation of extraocular muscles	C 3						
7		Action	Explain the action of extraocular muscles	C 4						
8		Demonstration	Demonstrate the extraocular muscles through charts, dummies/videos		P 4		Demo	1	OSPE	1
9		Behavior	Adopt how to observe the behavior of charts/ videos demonstration			A 4	Role Play			
TOPIC: LAWS OF EXTRAOCULAR MOVEMENTS										

10	Week-3	Introduction	Introduction to the law of extraocular muscles	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
11		Yoke & Synergist	Discuss the yoke and synergist muscles actions	C 2						
12		Equal innervation	Explain the law of equal innervation	C 3						
13		Reciprocal innervation	Describe the law of reciprocal innervation	C 3						
14		Demonstration	Demonstrate the laws of extraocular muscles through charts/videos		P 4		Demo	1	OSPE/O SCE	1
15		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: POSITION OF GAZES										
16	Week-4	Introduction	Introduction to position of gazes	C 1			Interactive Lecture/SGD	2	MCQs/S EQs	4
17		Types	Explain various cardinal position of gazes	C 2						
18		Tests	Discuss various tests for position of gazes	C 3						
19		Muscles	Describe the various muscles involve in different position of gazes	C 4						
20		Demonstration	Demonstrate the position of gazes through charts/videos		P 4		Demo	1	OSPE/O SCE	1
21		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: BINOCULAR SINGLE VISION										
22		Introduction	Introduction to binocular single vision	C 1						

23	Week-5&6	Anatomy	Discuss the anatomy of binocular single vision	C 2			Interactive Lecture/SGD	2	MCQs/S EQs	8				
24		Requirements	Discuss the requirements for binocular single vision	C 2										
25		Development	Discuss the development of binocular single vision	C 2										
26		Importance	Discuss the importance of binocular single vision	C 2										
27		NRC & ANRC	Describe the normal retinal correspondence and abnormal retinal correspondence	C 3										
28		Panum's Fusion Area	Describe the panum's fusion area	C 3										
29		Horoptyer	Describe the horoptyer	C 3										
30		Importance	Explain the importance of binocular single vision	C 4										
31		Demonstration	Demonstrate the binocular single vision through charts/videos		P 4						Demo	1	OSPE/O SCE	1
32		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4					Role Play			
TOPIC: GRADES OF BINOCULAR SINGLE VISION														
33	Week-7	Introduction	Introduction to grades of binocular single vision	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4				
34		Types	Discuss various types of grades of binocular single vision	C 2										
35		Tests	Describe the various tests for grades of binocular single vision	C 3										

36		Importance	Elaborate the importance of grades of binocular single vision	C 4						
37		Demonstration	Demonstrate the grades of binocular single vision through charts/videos		P 4		Demo	1	OSPE/O SCE	1
38		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: QUALITIES AND ABNORMALITIES OF BINOCULAR SINGLE VISION										
39	Week-8	Introduction	Introduction to qualities and abnormalities of binocular single vision	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
40		Qualities	Discuss the different qualities of binocular single vision	C 2						
41		Abnormalities	Describe the various abnormalities of binocular single vision	C 3						
42		Diagnoses	Explain the various diagnostic procedures for the qualities and abnormalities of binocular single vision	C 4						
43		Demonstration	Demonstrate the qualities and abnormalities of binocular single vision through charts/videos		P 4		Demo	1	OSPE/O SCE	1
44		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: VISUAL ACUITY AND VISUAL DEVELOPMENT										
45	Week-9	Introduction	Introduction to visual acuity	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
46		Visual development	Discuss the visual development	C 2						
47		Assessment	Discuss the assessment of visual acuity in different age groups	C 2						
48		Methods	Describe the various methods for assessment of visual acuity	C 3						

49		Importance	Explain the importance of visual acuity and visual development	C 4						
50		Demonstration	Demonstrate the grades of binocular single vision through charts/videos		P 4		Demo	1	OSPE/O SCE	1
51		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: QUALITATIVE AND QUANTITATIVE VISUAL ASSESSMENT										
52	Week- 10	Introduction	Introduction to qualitative and quantitative assessment	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
53		Qualitative	Discuss the qualitative visual assessment	C 2						
54		Quantitative	Discuss the quantitative visual assessment	C 2						
55		Factors effecting	Explain the various factors that effecting the qualitative and quantitative visual assessment	C 3						
56		Demonstration	Demonstrate the qualitative and quantitative visual assessment through charts/videos		P 4		Demo	1	OSPE/O SCE	1
57		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: ACCOMMODATION										
58	Week- 11	Introduction	Introduction to accommodation	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
59		Types	Discuss different types of accommodation	C 2						
60		Anomalies	Describe the various anomalies of accommodation	C 3						
61		Management	Explain the various management of accommodative anomalies	C 4						

62		Demonstration	Demonstrate the accommodation through charts/videos		P 4		Demo	1	OSPE/O SCE	1
63		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: CONVERGENCE										
64	Week- 12	Introduction	Introduction to convergence	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
65		Types	Discuss the various types of convergence	C 2						
66		Anomalies	Describe the various anomalies of convergence	C 3						
67		Management	Explain the various management of convergence anomalies	C 4						
68		Demonstration	Demonstrate the convergence through charts/videos		P 4		Demo	1	OSPE/O SCE	1
69	Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play				
TOPIC: AC/A RATIO (ACCOMMODATIVE-CONVERGENCE/ACCOMMODATION)										
70	Week- 13	Introduction	Introduction to AC/A ratio	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
71		Methods	Discuss the various method of measurement of AC/A ratio	C 2						
72		Anomalies	Describe the various anomalies of AC/A ratio	C 3						
73		Management	Explain the various management of AC/A ratio anomalies	C 4						
74		Demonstration	Demonstrate the AC/A ratio through charts/videos		P 4		Demo	1	OSPE/O SCE	1

75		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: STRABISMUS										
76	Week-14	Introduction	Introduction to strabismus	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	5
77		Types	Discuss the different types of Strabismus	C 2						
78		Tests	Discuss the various tests for investigation and assessment of strabismus	C 2						
79		Importance	Describe the importance of investigation and assessment of strabismus	C 3						
79		Management	Explain the various management of strabismus	C 4						
80		Demonstration	Demonstrate the strabismus through chart/videos		P 4		Demo	1	OSPE/O SCE	1
81	Behavior	Adopt how to observe the behavior of charts/ videos demonstration			A 4	Role Play				
TOPIC: AMBLYOPIA										
82	Week-15	Introduction	Introduction to amblyopia	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
83		Causes	Discuss the causes of amblyopia	C 2						
84		Importance	Describe the importance of investigation and assessment of amblyopia	C 3						
85		Management	Explain the management of amblyopia	C 4						
86		Demonstration	Demonstrate the amblyopia through charts and videos		P 4		Demo	1	OSPE/O SCE	1

87		Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play			
TOPIC: CONCOMITANT AND INCOMITANT HETROPHORIA										
88	Week-16	Introduction	Introduction to heterophoria	C 1			Interactive Lecture/SDG	2	MCQs/S EQs	4
89		Concomitant	Discuss the concomitant heterophoria	C 2						
90		Incomitant	Discuss the incomitant heterophoria	C 3						
91		Tests	Describe the various tests for assessment of concomitant and incomitant heterophoria	C 4						
92		Management	Explain the various management methods for concomitant and incomitant heterophoria	C 4						
93		Demonstration	Demonstrate concomitant and incomitant heterophoria through charts and videos		P 4		Demo	1	OSPE/O SCE	1
94	Behavior	Adopt how to observe the behavior of charts/videos demonstration			A 4	Role Play				

Recommended Books:				
1. Clinical orthoptic by Fiona J. Rowe 2. Theory practice squint and orthoptics by A.k Khurana 3. Binocular vision and orthoptic by Bruce Evans 4. Pediatric ophthalmology and strabismus American academy of ophthalmology 5. Pediatric ophthalmology and strabismus by David Tylor				
ASSESSMENT BREAKDOWN				
S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Extraocular Muscles	4	1	Static
2	Extraocular Muscles	4	1	Static
3	Laws of Extraocular Movements	4	-	-

4	Position of Gazes	4	1	Interactive
5	Binocular Single Vision (BSV)	4	1	Static
6	Binocular Single Vision (BSV)	4	1	Static
7	Grades of Binocular Single Vision	4	1	Static and Interactive
8	Qualities and Abnormalities of Binocular Single VisionV	5	1	Static
9	Visual Acuity and Visual Development	4	1	Static
10	Qualitative and Quantitative Visual Assessment	5	1	Static
11	Accommodation	5	1	Static
12	Convergence	5	-	I-
13	AC/A Ratio (Accommodative-Convergence/Accommodation)	5	1	Static
14	Strabismus	5	1	Interactive
15	Investigation and Assessment of Strabismus	4	1	Interactive
16	Concomitent and Incomitent Hetrophoria	4	1	Static
Total	16	70	14	14

BSO-621 Community Optommetry 2(2+0)

Course Description

Community optometry focuses on the role of optometry in public health, emphasizing the prevention, detection, and management of visual impairment at the community level. The course covers epidemiology, strategies for primary eye care, school vision screenings, and outreach programs. Students will learn how to conduct community-based eye health assessments, develop vision care programs and collaborate with healthcare professionals to improve eye health services.

Learning Objectives

Cognitive Domain

By the end of this course, students should be able to

1. Define community optometry and its role in public health.
2. List common ocular diseases and visual impairments affecting communities.
3. Recall key global initiatives such as VISION 2020 and WHO eye care programs.

4. Identify different levels of preventive eye care (primary, secondary, tertiary).
5. Describe the principles of epidemiology in relation to eye health.

TABLE OF SPECIFICATION

TOS-COMMUNITY OPTOMETRY 2(2+0)

S.No	Weeks	Contents	Learning Outcome	Domain			MIT's	Time/Hours	Assessment	No of Items
				C	P	A				
TOPIC: HEALTH										
1	Week-1	Introduction	Introduction to health	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4
2		Determinants	Discuss the determinants of health	C 1						
3		Factors	Enlist the factors affecting health	C 2						
4		Tips	Describe the tips for effective health	C 3						
5		Holistic & One Health	Explain the concept of holistic and one health	C 4						
TOPIC: HEALTH CARE REFERRAL SYSTEM										
6	Week-2	Introduction	Define health care	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	5
7		Concept	Define the concept of referral system	C 1						
8		Goal	Discuss the goal of health care and referral system	C 2						
9		Purpose	Describe the purpose of health care and referral system	C 3						

10		Importance	Explain the importance of referral system	C 4						
TOPIC: PRIMARY HEALTH CARE										
11	Week-3	Introduction	Define primary health care	C 1			Interactive Lecture/SGD	2	MCQs	5
12		Elements	Enlist the elements of primary health care	C 2						
13		Components	Describe the components of primary health care	C 3						
14		Principles	Explain the principles of primary health care	C 4						
TOPIC: COMPREHENSIVE HEALTH CARE										
15	Week-4	Introduction	Define comprehensive health care	C 1			Interactive Lecture/SGD	2	MCQs	4
16		Advantages	Discuss the advantages comprehensive health care	C 2						
17		Technique	Enlist the assessment technique of comprehensive health care	C 3						
18		Tools	Describe the tools for comprehensive health care assessment	C 3						
19		Importance	Explain the importance comprehensive health care	C 4						
TOPIC: PREVENTION										
20	Week-5	Introduction	Define the prevention	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4
21				Discuss the elements of prevention	C 2					

22		Levels	Explain the levels of prevention	C 3					
23		Different Diseases	Explain the prevention of different diseases with examples	C 4					
TOPIC: PUBLIC HEALTH									
24	Week-6	Introduction	Introduction to public health	C 1			Interactive Lecture/SDG	2	MCQs
25		Services	Discuss the essential services of public health	C 2					
26		Role	Discuss the role of public health	C 2					
27		Importance	Describe the importance of public health	C 3					
28		Programs	Explain the public health programs	C 4					
TOPIC: HEALTH EDUCATION									
29	Week-7	Introduction	Introduction to health education	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs
30		Aims	Discuss the aims of health education	C 2					
31		Objective	Describe the objectives of health education	C 2					
32		Importance	Describe the importance of health education	C 3					
33		Strategies	Explain the strategies of health education	C 4					
TOPIC: HEALTH PROMOTION									

34	Week-8 & 9	Introduction	Introduction to health promotion	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	10
35		OTTAWA CHARTER	Discuss the OTTAWA CHARTER	C 2						
36		Strategies	Discuss the basic strategies for health promotion	C 2						
37		Action	Describe the health promotion action	C 2						
38		Approaches	Describe the approaches in health promotion	C 3						
39		Methods	Enlist the methods of health promotion	C 3						
40		Levels	Illustrate the levels of health promotion	C 4						
41		Models	Explain the health promotion models	C 4						
TOPIC: SCREENING										
42	Week-10 & 11	Introduction	Introduction to screening	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	8
43		Principles	Discuss the principles of screening	C 1						
44		Types	Describe the types of screening	C 2						
45		Levels	Enlist the different levels screening programs	C 2						
46		School Screening	Describe the school screening	C 2						

47		Diabetic Retinopathy Screening	Describe the screening for diabetic retinopathy	C 2						
48		Glaucoma screening	Describe the screening for glaucoma	C 3						
49		Low Vision Screening	Describe the screening for low vision	C 3						
50		Vitamin A Deficiency Screening	Explain the screening for vitamin A deficiency	C 4						
51		Trachoma Screening	Explain the screening for trachoma	C 4						
TOPIC: REHABILITATION										
52	Week-12 & 13	Introduction	Introduction to rehabilitation	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	8
53		Benefits	Discuss the benefits of rehabilitation	C 1						
54		Stages	Enlist the stages of rehabilitation	C 2						
55		Barriers	Discuss the barriers in rehabilitation	C 2						
56		Elements	Illustrate the elements of rehabilitation	C 2						
57		Principle	Describe the principle of rehabilitation	C 2						
58		Objectives	Describe the objectives of rehabilitation	C 3						
59		Outcome	Illustrate the outcomes of rehabilitation	C 3						

60		Low Vision	Explain the rehabilitation of low vision	C 4						
61		visually impaired	Explain the rehabilitation of the visually impaired blinds	C 4						
TOPIC: PROFESSIONAL ETHICS										
62	Week-14 & 15	Introduction	Introduction to ethics	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	8
63		Types	Discuss the types of ethics	C 1						
64		Professional ethics	Discuss the professional ethics	C 2						
65		Ethical Principles	Discuss the ethical principles	C 2						
66		Components/Qualities	Describe the components/qualities of professional ethics	C 2						
67		Dimensions	Describe the dimensions of ethics	C 2						
68		Code	Enlist the code of ethics	C 3						
69		Importance	Describe the importance of ethics	C 3						
70		Medical Ethics	Explain the medical ethics	C 3						
71		Ethical Issue	Explain the individual and community rights and public health ethical issues	C 4						
TOPIC: THE ROLE OF ICE IN THE POSITIVE DEVELOPMENT OF KAP										
72	Week-16	Introduction	Introduction to integrated health care	C 1			Interactive Lecture/SDG	2	MCQs/SE Qs	4

73	Integrated Eye Care	Discuss the integrated eye care	C 1					
74	Role	Discuss the integrated health care role in development of integrated eye care	C 2					
75	Integrated Approaches	Describe the integrated approaches: knowledge, attitude and practice synergies	C 3					
76	Challenges & Solutions	Explain the challenges and solutions in knowledge dissemination, language and cultural barriers	C 4					
77	Strategies	Explain the strategies for positive attitude and practice	C 4					

Recommended Books:

1. Community Eye Health by Gordon J. Johnson
2. Community Optometry: A Guide to Practice by Peter P. Cole
3. Public Health for Eye Care by Richard Wormald
4. Primary Eye Care in Developing Countries by Bruce Moore
5. Epidemiology of Eye Diseases by Gordon J.J. Johnson & Darwin C. Minassian
6. Essentials of Public Health by Bernard Turnock

ASSESSMENT BREAKDOWN

S. No	Topics	No of MCQ	No of OSPE / OSCE Stations	Static / Interactive
1	Health	4	-	-
2	Health Care Referral System	5	-	-
3	Primary Health Care	5	-	-
4	Comprehensive Health Care	4	-	-
5	Prevention	4	-	-
6	Public Health	5	-	-
7	Health Education	5	-	-
8	Health Promotion	5	-	-

9	Health Promotion	5	-	-
10	Screening	4	-	-
11	Screening	4	-	-
12	Rehabilitation	4	-	-
13	Rehabilitation	4	-	-
14	Professional Ethics	4	-	-
15	Professional Ethics	4	-	-
16	The Role Of Ice In The Positive Development Of KAP	4	-	-
Total	16	70	-	-

END