

NAME	PURPOSE	DESCRIPTION	SPECIFICATIONS
OPD CLINIC 1	Comprehensive eye testing for walking and Follow up patients.	Equipped with chair units,Slit Lamps (for examining the anterior structures of the eye),Auto refractor + keratometer (Computerised Automated instrument for determining eye Power) ,Auto lensometers (Computerised Automated instrument for determining the power of the spectacles). Equipment for Fundus (back portion of the eye i.e retina) examination are also available.	1 Chair unit with Auto Refractor+ Keratometer, Slit lamp, 1 Auto Lensometer
OPD CLINIC 2			1 Chair unit with Auto Refractor+ Keratometer, Slit lamp, 1 Auto Lensometer
OPD CLINIC 3			1 Chair unit with Slit lamp, 1 Manual Lensometer
OPD CLINIC 4			1 Chair unit with Slit lamp, 1 Manual Lensometer
<b>MYOPIA RESEARCH CENTER &amp; CONTACT LENS CLINIC</b>	Special investigations and Research work regarding myopia (Near-sightedness) and myopia progression. Soft , Rigid Gas permeable (RGP) and Speciality Contact lens trials and fittings.	Equipped with chair units,Slit Lamps (for examining the anterior structures of the eye),Corneal Topographer (for mapping and measuring various parameters of the cornea, the most important and very first structur of the eye to bend the lights to make a clear image at the back of the eye),Ultra sound Biometry (for measuring the length of the eye ball), Pachymetry ( for measuring the thickness of the cornea). VCOVS is a resource centre for International Association of Contact lens Educators (IACLE). Here,trails, fitting,use and maintenance teaching of various types of contact lenses for correcting the power of the eye or managing various diseased conditions which make us disable to see are done.	1 Corneal Topographer, 1 Ultra sound Bio metry, 1 Ultra sound Pachymetry, 1 Chair unit with Slit lamp and Phoropter
<b>CLINICAL LAB 1</b>	Providing proper clinical training as per the SOP	Equipped with Keratometers (measuring the power of the cornea), Lensometry ( measuring the power the spectacle),Edging machine (edging and fitting of spectacle lens).	3 Refraction units,5 B+L Keratometer,2 Lensometers, 1 Edging machine
<b>CLINICAL LAB 2</b>	Providing proper clinical training as per the SOP	Equipped with Refraction units (measuring and correcting the power of the eye), Keratometers (measuring the power of the cornea), Lensometry ( measuring the power the spectacle), Slit lamps (examining the anterior structure of the eye).	4 Refraction units, 8 B+L Keratometers, 9 Manual Lensometers,1 Slit lamp

<b>CLINICAL LAB 3 (LOW VISION AND ORTHOPTICS CLINIC)</b>	Providing proper knowledge, information, hands on session to the students and using instruction to the patients.	Equipped with various types of Low vision aids for low vision patients and various vision therapy devices for those who required eye team up therapy or eye hand co ordination excizes.	Low Vision aids and Orthoptics instruments.
<b>CLINICAL LAB 4</b>	Providing proper clinical training as per the SOP	Equipped with Refraction units (measuring and correcting the power of the eye), Keratometers (measuring the power of the cornea), Lensometry ( measuring the power the spectacle), Slit lamps (examining the anterior structure of the eye).	4 Refraction units, 9 Manual Lensometers, 7 Slit lamps
<b>MICROBIOLOG Y LAB</b>	Providing practical demonstration and hands on of various microbiological procedures,	Equipped with various advanced instruments including Microscopes(examining micro-organisms), Culture Medium (examining the growth of the micro-organisms), Incubators (maintains the culture mediums), Autoclave (to sterilize various devices and instruments).	11 Monocular microscopes, 3 Binocular microscopes, 1 Incubator, 1 Autoclave
<b>COMPUTER LAB</b>	Providing the students computer hands on and practical sessions and encouraging them to use modern technologies for their learning	Equipped with Wi-Fi connected computers to encourage the students for being engaged in modern learning.	20 Computers with Wi-Fi connectivity

## OPTICS LAB RESOURCES

Sl No.	Name of the Instrument	Usefulness
1.	Optical Bench Setup	Use to find out the focal length, Refractive index of the different types of mirrors and lenses
2.	Travelling Microscope	Use to measure refractive index of liquid
3.	Spectrometer	Prism and Diffraction Experiments
4.	Stand and clamp set up	Measure refractive index of liquid
5.	Spherometer	Use to measure radius of curvature of a lens
6.	Newton's Ring Interferometer	Observe Interference
7.	Detector Based Apparatus for Diffraction Experiments	Used for Diffraction Experiments
8.	Polarimeter	Calibration of Polarimeter and specific rotation of Polarimeter
9.	Photocell	Determination of Plank's constant
10.	LUX meter	Illumination level of different light source