

School Name: School of Health Sciences

Program Name: BOPT

Course Title: Geometrical, Physical, Visual Optometry Optics-I

Course Code: BHOP-303

Semester: III

- What do you understand by the term optometric optics?
- State laws of refraction?
- Draw a diagram of crystalline lens
- What is phenomenon of interference of light?
- What is Snell's law?
- Explain the concept of imaging by concave mirror with limitations.
- Describe the phenomenon of refraction through a number of media.
- Write the formula for equivalent power of combination of 3 lenses.
- Explain the types of interference.
- What are the different methods for the corneal curvature?
 - Explain image formation by a convex mirror for different positions of the object with suitable and neat ray diagrams.
- Describe the structure, methods, applications and functions of ophthalmic prism.
- Discuss the manufacture of spectacle frames of human being along with its applications and functions.
- What is speed of light in vacuum? Write unit of speed of light.
- Explain spherical aberration?
- Give the maintenance of eye of human being.
- What is unpolarized light?
- Define the term wave front along with its two examples.
- Describe the phenomenon of refraction through a number of media.
- Explain the different imaging by a thin convex lens with limitations.
- What are ordinary and extraordinary rays?
- Differentiate between analyzer and polarizer.
- Elaborate the different types of real and virtual image along with its limitations.
- Describe the structure, methods, applications and functions of ophthalmic prism.
- How do you use the phenomenon of double refraction to produce a plane polarized light? Explain in detail.

- Elaborate the method of laying off the lens for glazing process along with its advantages and disadvantages.