Objective:

To understand the pathophysiology of the eye and comprehensive understanding of the diseases in the eye also covering the drug delivery into the eye.

Unit 1

Anatomy and physiology of the eye: Overview, Cornea, Conjunctiva, Sclera, Lacrimal Gland, Tear secretion and outflow, Ciliary Body, Aqueous humor secretion and outflow, Choroid, Retina Photo-transduction, Blood Circulation to the Eye, Extra ocular Muscles.

Unit 2

Pathophysiology: Major ocular diseases, Dry Eye, Corneal disorders (Keratoconus and Fuchs dystrophy), Corneal wound healing, Glaucoma, Uveitis, Age related Macular degeneration, Diabetic Retinopathy.

Unit 3


TEXT BOOKS/ REFERENCES:

   http://webvision.med.utah.edu/