Geriatric & Pediatric Optometry BVOCOP-502

**Unit: 1**

GERIATRIC OPTOMETRY Structural , and morphological changes of eye in elderly Physiological changes in eye in the course of aging. Introduction to geriatric medicine – epidemiology , need for optometry care, systemic diseases (Hypertension, Atherosclerosis, coronary heart disease, congestive Heart failure, Cerebrovascular disease, Diabetes, COPD) Optometric Examination of the Older Adult

**Unit: 2**

Ocular diseases common in old eye, with special reference to cataract, glaucoma, macular disorders, vascular diseases of the eye Contact lenses in elderly Pharmacological aspects of aging Low vision causes, management and rehabilitation in geriatrics. Spectacle dispensing in elderly – Considerations of spectacle lenses and frames

**Unit: 3**

PEDIATRIC OPTOMETRY Pediatric optometry The Development of Eye and Vision History taking Paediatric subjects Assessment of visual acuity Normal appearance, pathology and structural anomalies of a) Orbit, Eye lids, lacrimal system, b) Conjunctiva, Cornea, Sclera Anterior chamber, Uveal tract, Pupil c) Lens, vitreous, Fundus Oculomotor system

**Unit: 4**

Refractive Examination Determining binocular status Determining sensory motor adaptability Compensatory treatment and remedial therapy for : Myopia, Pseudomyopia, Hyperopia, Astigmatism, Anisometropia, Amblyopia Remedial and Compensatory treatment of Strabismus and Nystagmus

**Unit: 5**

Paediatric eye disorders : Cataract, Retinopathy of Prematurity, Retinoblastoma, Neuromuscular conditions (myotonic dystrophy, mitochondrial cytopathy), and Genetics Anterior segment dysgenesis, Aniridia, Microphthalmos, Coloboma, Albinism Spectacle dispensing for children Paediatric contact lenses Low vision assessment in children

**Text books :**

1.DE Rosenblatt, VS Natarajan: Primer on geriatric Care- A clinical approach to the older patient, Printers Castle, Cochin, 2002

2. A.J. ROSSENBLOOM Jr & M.W.MORGAN: Vision and Aging, ButterworthHeinemann, Missouri, 2007

3. Pediatric Optometry - JEROME ROSNER, Butterworth, London 1982

4. Paediatric Optometry – William Harvey/ Bernard Gilmartin, Butterworth –Heinemann, 2004 **References:**

1. OP Sharma: Geriatric Care – A textbook of geriatrics and Gerontology, viva books, New Delhi, 2005

2. VS Natarajan: An update on Geriatrics, Sakthi Pathipagam, Chennai, 1998

34. Binocular Vision and Ocular Motility - VON NOORDEN G K Burian Von Noorden’s, 2nd Ed., C.V.Mosby Co. St. Louis, 1980.

5. Assessing Children’s Vision. By Susan J Leat, Rosalyn H Shute, Carol A Westall.45 Oxford: Butterworth-Heinemann, 1999.

6. Clinical pediatric optometry. LJ Press, BD Moore, Butterworth- Heinemann, 1993