**SNE 420 INTRODUCTION TO VISUAL IMPAIRMENT**

**Introduction**

Blindness and low vision are the types of visual impairment. It comprises individuals who experience any type of reduction in vision. This reduction can be due to the different causes at different stages of their development and has effect on the personality development. This course will help the student’s o know in detail the different causes of blindness and low vision. The course will help the students to know the implication of this disability for their education. The students will also learn the anatomy and physiology of the eye in detail.

**Objectives**

The main objectives of course are to:

1. Able the students to understand the eye anatomy, its function and physiology.
2. Able the students to know the existing difference among the causes of blindness and low vision.
3. Help the students to detect the initial symptoms of blindness and vision and then to work for its prevention.

**Course Agenda**

* 1. **Anatomy of the eye** 
     1. Major parts of the eye
     2. Fibrous coat
     3. Vascular pigmented coat
     4. Nervous coat

**2. Process of seeing or physiology**

1. Basic facto about light energy
2. Refraction
   1. **Eye conditions and their treatment** 
      1. Long-sightedness
      2. Short sightedness
      3. Astigmatism
      4. Presbypoier
      5. Strabismus
      6. Nystagmus
      7. Disorders of the cornea
      8. Disorders of the lens
      9. Disorders of the iris
      10. Disorders of the retina
      11. Retinopathy of prematurity
      12. Albinism
      13. Retinitis pimentos
      14. Disorders of the aqueous humor
      15. Disorders of the optic nerve
      16. Rubella
      17. Other eye conditions
          1. **Assessment of vision**
      18. Preferential cooking method
      19. Sty car tests
      20. Snellen tests
      21. Test of near and distant vision
      22. Visual field tests
      23. Tests of color and other aspects of vision
      24. Clinical examination
      25. Visual perception
      26. Functional vision
      27. Observation in every day settings

**References**

1. Grand. G.M.et al. (1996). *Retina and vitreous*. American academy ophthalmology
2. Heart, W.M. (1992). *Physiology of the eye: clinical application*. (9th ed.) Mosby-Year Book, Inc.
3. Kanski. J.J. (1996). *Clinical ophthalmology: a systematic approach*. (4th ed.) U.S.A.
4. Trevor-Roper, B.P. (1974). *The eye and its disorders*. Blackwell Scientific Publication.