

Curriculum
Department of Ophthalmology

(C) OPHTHALMOLOGY

(i) **GOAL:**

The Broad Goal of the Teaching of undergraduate Students is to provide such knowledge and skills to the student that shall enable him/her to practice as a clinical and as a primary Eye care physician and also to function effectively as a community health leader to assist in the implementation of national programme for the prevention of Blindness and Rehabilitation of the visually impaired, and to prepare him to be a teacher of ophthalmology.

(ii) **OBJECTIVES:**

(a) **KNOWLEDGE:**

At the end of the Course, The student shall have knowledge of:

1. Common problems affecting the eye;
2. Principles of Management of major Ophthalmic Emergencies;
3. Main Systematic Diseases Affecting the eye;
4. Effect of Local and Systematic Diseases on Patient's Vision and the necessary action required to minimize the sequale of such diseases;
5. Adverse drug reactions with special reference to ophthalmic manifestations;
6. Magnitude of Blindness in India and its Main causes;
7. National Programme for control of Blindness and its implementation at various levels;
8. Eye care education for prevention of eye problems;
9. Role of Primary Health Center in Organization of Eye Camps;
10. Organization of Primary Health Care and the Functioning of the Ophthalmic Assistant;\
11. Integration of the National Programme for the Control of Blindness with the other national health programmes.
12. Eye Bank organization;

(B) **SKILLS:**

At the end of the course, the student shall be able to:

1. Elicit a history pertinent to general health and ocular status;
2. Assist in diagnostic procedure such as visual acuity testing, examination of eye, Schiötz tonometry, staining for corneal pathology, confrontation perimetry, subjective

refraction including correction of presbyopia and aphakia, direct ophthalmoscopy and conjunctival smear examination and cover test;

3. Diagnose and treat common problems affecting the eye;
4. Interpret Ophthalmic Signs in relation to common systemic disorders;
5. Assist/observe therapeutic procedure such as subconjunctival injections, corneal & conjunctival foreign body removal, carbolic cautery for corneal ulcers, nasolacrimal duct syringing & tarsorrhaphy.
6. Provide first aid in major ophthalmic emergencies;
7. Assistant to organize community surveys for visual check-up;
8. Assistant to organize primary eye care service through primary health centers;
9. Use effective means of communication with the public and individual to motivate for surgery in cataract and for eye donation;
10. Establish rapport with his seniors' colleagues and paramedical workers, so as to effectively function as a member of the eye care team;
11. He/She shall be able to diagnose and manage common ophthalmologic conditions such as: trauma, acute conjunctivitis, allergic conjunctivitis, xerosis, entropion, corneal ulcer, Iridocyclitis, myopia, hypermetropia, cataract, glaucoma, ocular injury and sudden loss of vision;
12. He shall be able to carry out assessment of refractive errors and advise its correction;
13. He shall be able to diagnose ocular changes in common systemic Disorders;
14. He/She shall be able to perform investigative procedures such as:
tonometry, syringing, direct ophthalmoscopy, subjective refraction and fluorescein staining of cornea;
15. He/She shall have carried out or assisted the following procedures:
 1. Subconjunctival Injection; Ocular Bandaging;
 3. Removal of Concretions; epilation and electrolysis
 5. Corneal foreign body removal
 6. Cauterization of corneal Ulcers;
 7. Chalazion Removal
 8. Entropion Correction
 9. Suturing conjunctival Tears
 10. Lids repairs
 11. Glaucoma surgery (Assisted);
 12. Enucleation of eye in cadaver

16. He/She shall have full knowledge on available methods for rehabilitation of the blind.

(C) **INTEGRATION:**

The undergraduate training in ophthalmology will provide an integrated approach towards other disciplines especially neuro sciences.