

III rd PROFESSIONAL - PART – I SYLLABUS

(2) OPHTHALMOLOGY:

(i) Goal :

The broad goal of the teaching of under graduate students in ophthalmology 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.

(ii) Objectives:

a) KNOWLEDGE :

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

- 1) common problems affecting the eye;
- 2) principles of management of major ophthalmic emergencies;
- 3) main systemic diseases affecting the eye;
- 4) effects of local and systemic diseases on patient's vision and the necessary action required to minimise the sequela 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 centre 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 control of blindness with the other national health programmes.
- 12) Eye bank organization;

b) SKILLS:

By the end of the course the student shall be able to:

- 1) Elicit a history pertinent to general health and ocular states;
- 2) Assist in diagnostic procedures such as visual acuity testing, examination of eye, Schiotz 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 procedures such as subconjunctival injection, corneal/conjunctival foreign body removal, carbolic cautery for corneal ulcers, Nasolacrimal duct syringing and tarsorrhaphy;
- 6) Provide first aid in major ophthalmic emergencies;
- 7) Assist to organise primary eye care service through primary health centres;
- 8) assist to organise community surveys for visual check up;
- 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 senior colleagues and paramedical workers, so as to effectively function as a member of the eye care team;

NOTE: 40 Hrs. teaching for theory in VI & VII Semesters.

60 Hrs. for Practical based Learning, Seminars, Group discussions.

Theory - 25 Hrs VI Semester

Seminars - 30 Hrs VI Semester

Theory - 15 Hrs VII Semester

P.B. Learning & seminars - 30 Hrs VII semester

Theory Syllabus in Ophthalmology

Sl. No.	Name of the Unit
1)	Introduction to Ophthalmology.
2)	Anatomy and Physiology, colour vision:- Visual acuity, Photo Chemistry of vision.
3)	Orbit, Ocular adnexa (Lids and Lacrimal apparatus) and optic nerve pathways.
4)	Conjunctiva, Cornea, Sclera, Contact Lenses and Eye Banking, Bacterial, Viral and Fungal Keratitis.
5)	Lens, Glaucoma.
6)	Iris, Choroid and Ocular Tumors.
7)	Ocular Manifestation of Systemic diseases.
	1) Hypertension 2) Leprosy 3) Thyroid
	4) Tuberculosis and 5) Diabetes 6) AIDS
8)	Fundus and Ophthalmoscopy Examination : (Theory),
	RETINA AND OPTIC NERVE.
9)	Refraction and Optics,
	Drugs acting on Eye.
10)	Squint, Amblyopia and Neuro Ophthalmology.
11)	Primary Eye care:
	a) Progressive loss of vision
	b) Sudden loss of Vision.
12)	Ocular Trauma, FIRST AID
13)	Visual Standards, Certification, Ocular Hygiene
14)	National Programme for control of Blindness.
15)	Eye Bank Organisation and its procedures.

TEXT BOOKS RECOMMENDED:

- 1) Parsons' Diseases of the Eye By Stephen J.H. Miller
- 2) Ophthalmology by Khurana
- 3) Text book of Ophthalmology by Sarma
- 4) Text book of Ophthalmology by neema

REFERENCE BOOKS:

- 1) Ophthalmology by Yanoff
- 2) Ophthalmology by Duans
- 3) System of Ophthalmology by Sir Duke-Elder