

Syllabus

Course contents:

These are only broad guidelines and are illustrative, there may be overlap between sections.

I. Basic Sciences:

1. Orbital and ocular anatomy
 - i. Gross anatomy
 - ii. Histology
 - iii. Embryology
2. Ocular Physiology
3. Ocular Pathology
4. Ocular Biochemistry
General biochemistry, biochemistry applicable to ocular function
5. Ocular Microbiology
General Microbiology, specific microbiology applicable to the eye
6. Immunology with particular reference to ocular immunology
7. Genetics in ophthalmology
8. Community Eye Health

II. Optics

- a. Basic physics of optics
- b. Applied ophthalmic optics
- c. Applied optics including optical devices
- d. Disorders of Refraction

III. Clinical Ophthalmology

- i. Disorders of the lids
- ii. Disorders of the lacrimal system
- iii. Disorders of the Conjunctiva

- iv. Disorders of the Sclera
- v. Disorders of the Cornea
- vi. Disorders of the Uveal Tract
- vii. Disorders of the Lens
- viii. Disorders of the Retina
- ix. Disorders of the Optic Nerve and Visual Pathway
- x. Disorders of the Orbit
- xi. Glaucoma
- xii. Neuro-ophthalmology
- xiii. Paediatric ophthalmology
- xiv. Ocular involvement in systemic disease
- xv. Immune ocular disorders
- xvi. Strabismus and Amblyopia
- xvii. Ocular oncology

***MAPPING OF PROGRAMME OUTCOMES [POs] AND COURSE
OUTCOMES [COs] OF PG PROGRAMMES***

MS (SURGERY) PROGRAMME OUTCOMES

Sr • No	By the end of the programme, the Medical Postgraduate Willhave
PO 1	Knowledge and Skills
PO 2	Planning and problem solving abilities
PO 3	Communication
PO 4	Research Aptitude
PO 5	Professionalism and Ethics
PO 6	Leadership
PO 7	Societal Responsibilities
PO 8	Environment and Sustainability
PO 9	Lifelong Learner

**SURGERY COURSE OUTCOME – PGSUBJECT
CODE –01340301**

Sr.No	By the end the Course, the student will be able to
1	Recognize the importance to the concerned surgery in the context of the health needs of the community and the national priorities in the health section.
2	Practice the surgery concerned ethically and in step with the principles of primary health care.
3	Demonstrate sufficient understanding of the basic sciences relevant to the surgery specialty.
4	Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and primitive measure/strategies.
5	Diagnose and manage majority of the conditions in the surgery concerned on the basis of clinical assessment, and appropriately selected and conducted investigations.
6	Plan and advise measures for the prevention and rehabilitation of patients suffering from disease and disability related to the surgery specialty.
7	Demonstrate skills in documentation of individual case details as well as morbidity and mortality rate relevant to the assigned situation.
8	Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behavior in accordance with the societal norms and expectations.
9	Play the assigned role in the implementation of national health programme, effectively and responsibly.
10	Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation
11	Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources
12	Demonstrate competence in basic concepts of research methodology and epidemiology and be able to critically analyze relevant published research literature.
13	Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.
14	Function as an effective leader of a health team engaged in health care, research or training.

MS OPHTHALMOLOGY PROGRAMME

Course Code	Course Title
01340301	MS Ophthalmology

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
CO 1	At the end of course should be able to diagnose and manage all types of ophthalmic cases.	PO1,PO2,PO3, PO4,PO5,PO7, PO8,PO9
CO 2	At the end of course should be able to provide management of all ocular emergencies efficiently	PO1,PO2,PO3, PO5,PO6,PO7, PO8,PO9
CO 3	At the end of course should be able to recognize the need for referral to higher centres for specific diseases and disorders for further management.	PO1,PO2,PO3, PO5, PO7, PO8,PO9
CO 4	At the end of the course should be able to organize eye camps to understand the need for eye care in the society and about the need for early intervention, advice and offer suitable management to the needy, and spread awareness about eye donation.	PO1,PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9
CO 5	At the end of course should be able to educate medical and paramedical staff regarding basic diagnosis of eye diseases and procedures to promote objectives of NPCB programme and decrease preventable blindness in the society.(e.g. ROP screening, cataract screening, refractive error estimation, DR screening and corneal blindness).	PO1,PO2,PO3, PO4, PO5, PO6, PO7, PO8, PO9
CO 6	At the end of the course student should be familiar with patient counseling and demonstrate empathy towards patients and their families and convey in detail about the diagnosis and plan of management for the patient's eye condition.	PO1,PO2,PO3, PO5, PO6, PO7, PO8, PO9
CO 7	At the end of the course student should have knowledge of medico legal aspects	PO1, PO2, PO3, PO5, PO7, PO9

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
	of Ophthalmology and know the importance of meticulous documentation including proper consent taking for various procedures.	
01340301.8	At the end of the course should be able to conduct epidemiological surveys in the community to analyze morbidity of common eye disorders prevalent in the society.	PO1,PO2,PO3, PO4, PO5, PO6, PO7, PO8, PO9
01340301.9	At the end of course the student should be able to demonstrate competence in basic concepts of research methodology and epidemiology and be able to critically analyze relevant published research literature.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9
01340301.10	At the end of course student should keep himself/herself updated in the subject by attending various CME's, workshops and national and international level conferences and take keen interest in research in the field of ophthalmology.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9
01340301.11	At the end of course student should be aware about various investigative modalities and their interpretations and to apply the knowledge for the management of various diseases.	PO1, PO2, PO3, PO4, PO5, PO7, PO8, PO9