



**INTEGRAL
UNIVERSITY**



INSPIRING EXCELLENCE

**INTEGRAL INSTITUTE OF MEDICAL
SCIENCES & RESEARCH
(IIMSR)**

**DEPARTMENT
OF
OPHTHALMOLOGY**



PhD. Entrance Syllabus

Session: 2024-25

Alchandra
Prof. ABHA CHANDRA
MBBS, MS, MCh (CVTS), DIB (CVTS), MNAMS, FACS (Thoracic)
FICS (CVTS), FIACS (CVTS), FAS, FVSI (Vascular)
Cardiovascular and Thoracic Surgeon
Dean
Integral Institute of Medical Sciences and Research
Integral University
Lucknow, Uttar Pradesh.



**INTEGRAL INSTITUTE OF MEDICAL SCIENCES & RESEARCH
PhD. ENTRANCE SYLLABUS-2024
OPHTHALMOLOGY**

A: Basic and applied sciences related to ophthalmology

1. Orbital and ocular anatomy-
 - a) Gross anatomy
 - b) Histology
2. Ocular physiology
3. Pathology-
 - a) General pathology
 - b) ocular pathology: gross pathology, histopathology
4. Biochemistry: general biochemistry, biochemistry applicable to ocular function
5. Microbiology-
 - a) specific microbiology applicable to the eye
 - b) immunology with particular reference to ocular immunology
6. Geometric and ophthalmic optics-
 - a) basic physical optics,
 - b) ophthalmic optics
 - c) applied optics including optical devices

B: Clinical ophthalmology –I

1. Disorders of refraction
2. Strabismus and amblyopia
3. Disorders of the sclera
4. Disorders of uveal tract
5. Immune ocular disorders
6. Disorders of the cornea

C: Clinical ophthalmology-II

1. Disorders of conjunctiva
2. Disorders of orbit.
3. Disorders of the lids
4. Disorders of the lacrimal system
5. Neuro ophthalmology
6. Paediatrics ophthalmology

D: Clinical ophthalmology-III

1. Disorders of lens
2. Disorders of retina
3. Disorders of the optic nerve and visual pathway
4. Glaucoma
5. Systemic ophthalmology (ocular involvement in systemic disease)

E: Miscellaneous

1. Recent advances in ophthalmology.
2. Ocular trauma
3. Community ophthalmology