

CURRICULUM



**DIPLOMA IN OPHTHALMOLOGY
(D.O)
DEPARTMENT OF OPHTHALMOLOGY**

**Peoples University of Medical & Health Sciences,
Nawabshah, Sindh.**



DEPARTMENT OF OPHTHALMOLOGY

PEOPLES UNIVERSITY OF MEDICAL AND HEALTH SCIENCES FOR WOMEN

Dr. Khan Muhammad Nangrejo
Prof. & Chairman of Deptt

Dr. Amjad Ali Sahto
Assoc Prof
Assoc Prof

P. G. Curriculum Diploma in Ophthalmology (DO)

The infrastructure and faculty of the department of Ophthalmology will be as per pmdc regulation.

1. Duration: 2 years

2. Goals

The goal of Post graduate (DO) course in Ophthalmology is to produce a competent ophthalmologist who:

- _ Recognizes the health needs
- _ Has acquired the competencies pertaining to Ophthalmology that are required to be practiced in the community and at all levels of health care system;
- _ Has acquired skills in effectively communicating with the child, family and the community;
- _ Is aware of the contemporary advances and developments in medical sciences as related to Eye care;
- _ Is oriented to principles of research methodology; and
- _ Has acquired skills in educating medical and paramedical professionals.
- _ Diagnose ocular ailment on the analysis of history, physical examination and investigative work up;
- _ Plan and advise measures for the prevention of eye disease and visual disability.
- _ Carryout common surgical procedures independently.
- _ Plan rehabilitation of patients suffering from ocular illness and handicap, and those with special needs;
- _ Manage ocular emergencies efficiently;
- _ Recognize the emotional and behavioral characteristics of persons with moral disability patients and keep this fundamental attributes in focus while dealing with them
- _ Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities;
- _ Develop skills as a self-directed learner, recognize continuing educational needs; use appropriate learning resources, and critically analyze relevant published literature in order to practice evidence-based medicine
- _ Facilitate learning of medical/nursing students, practicing physicians, para-medical health workers and other providers as a teacher-trainer;
- _ Play the assigned role in the implementation of national programs for control of blindness, effectively and responsibly;
- _ Organize and supervise the desired managerial and leadership skills;

_ Function as a productive member of a team engaged in health care, research and education.

Syllabus and Table of contents

THEORY:

PAPER1 (100 marks)

Bcq,s covering general and ocular basic sciences

Anatomy and Physiology

- _ Embryology and Anatomy
- _ Physiology of the Eye
- _ The Physiology of Vision
- _ The Neurology of Vision

PAPER 2 (100 marks)

Short essay questions in clinical ophthalmology

- _ **Diseases of the Eye**
- _ Diseases of the Conjunctiva
- _ Diseases of the Cornea
- _ Diseases of the Sclera
- _ Diseases of the Uveal Tract
- _ The Lens
- _ The Glaucomas
- _ Diseases of the Retina
- _ Diseases of the Vitreous
- _ Diseases of the Optic Nerve
- _ Intraocular Tumours
- _ Injuries to the Eye
- _ **Disorders of Motility**
- _ Anatomy and Physiology of the Motor Mechanism
- _ Comitant strabismus
- _ Incomitant Strabismus
- _ **Diseases of the Adnexa**
- _ Diseases of the Lids
- _ Diseases of the Lacrimal Apparatus
- _ Diseases of the Orbit
- _ **Systemic Ophthalmology**
- _ Diseases of the Nervous System with Ocular Manifestations
- _ Ocular Manifestations of Systemic Disorders

- _ Systemic drugs – Effects on eye
- _ **Preventive Ophthalmology**
- _ Genetic Ophthalmology
- _ The Causes and Prevention of Blindness
- _ Eye Banking
- _ Eye Camps

PRACTICAL:

1. TOACS EXAM(50 marks)

10-12 stations—Static, Observed, interactive

Syllabus:

- **Clinical methods**

- Ophthalmoscopy direct and indirect
- Slit lamp biomicroscopy
- Gonioscopy
- Tripple mirror examination
- Ocular motility
- Visual field testing

- **Emergency cover**

- **Investigations, procedure and interpretations**

- Biometry
- FFA
- Perimetry

2. LONG CASE(50 marks)

3. SHORT CASE(50 marks)

4. REFRACTION(50 marks)

Ophthalmic Optics

- _ Elementary Optics
- _ Elementary Physiological Optics
- _ Refraction
- _ Refractive Errors of the Eye