College of Optometry

The discipline of learning. The art of caring.

Course Summary

Advanced Technologies in Diabetes and Glaucoma

COPE #36616-GL

Pinakin Gunvant Davey, OD, PhD, FAAO
Associate Professor

Course Description

This course will discuss use and interpretation of output of various imaging, intraocular pressure and ultrasound devices and its use in management of patients with diabetes or glaucoma.

Course Learning Objectives

1. Understand technology behind each device and its limitation
2. Understand when the use of device is appropriate
3. Understand interpretation of each device and the findings of the tests

Course Outline

1. Intraocular pressure measuring devices
    a. Pascal Dynamic Contour Tonometer
    b. Ocular response Analyzer
2. Imaging devices
    a. Confocal scanning Laser Ophthalmoscopy
    b. Scanning Laser Polarimetry
3. Optical coherence tomography
        i. Errors in imaging
4. Fundus evaluation
    a. Fluorescein angiography
    b. Indocyanine Green Angiography
    c. Optos
5. Ultrasound devices
    a. B-Scan
    b. Ultrasound Biomicroscope
6. Anterior Segment optical coherence tomography