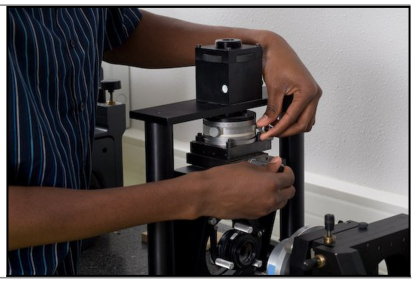
INSTITUT d'OPTIQUE GRADUATE SCHOOL | Continuing Education
Formation Continue

EF6 | Visual optical measurements



Nouvelle Formation

NIVEAU : BASIC
Publics : Engineers or technicians required to perform optical visual measurements
Prérequis : Basic knowledge corresponding to EF1-Optics without calculation will be useful
Responsable(s) pédagogique(s) : Lionel Jacubowiez - Chargé de cours à l'Institut d'Optique
Langue de la formation : French
Capacité maximum : 12
Prix : 1010€ HT - **Durée :** 2 days - 14 h

Objectifs

- Master the principles, methods and instruments associated with visual measurements

Thèmes abordés

Optical instruments
Ophthalmic optics
Experiments on benches, microscopes and glasses

EF6 | Visual optical measurements

Le programme

Classroom lessons

- Reminders about geometric optics and aberrations
- Optical properties of the eye: performance, limitations
- The various visual instruments: eyepieces, telescopes, microscopes (objectives)
- Choice and implementation of a visual instrument, optimization of resolution and depth of field
- Study of measurement uncertainties

Labwork

- Implementation of a goniometer (angle and index measurements)
- Measurements of focal distances and radii of curvatures. Implementation of a microscope and an afocal telescope

Méthodologie et évaluation

Lectures and exercises with many examples
Demonstrations on laboratory equipment, according to the wishes of the trainees
Labwork on instruments

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