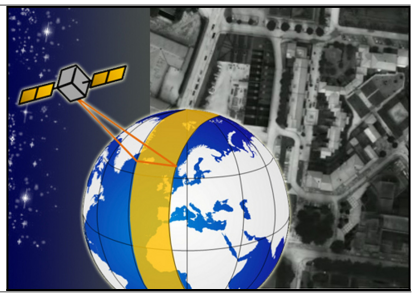
INSTITUT d'OPTIQUE GRADUATE SCHOOL | Continuing Education
Formation Continue

SC12 | Optronic systems



LEVEL: ADVANCED

Audience: Engineers from companies or administrations working in the field of defense, surveillance, aerospace and wishing to master the analyse and the design of optronic systems

Prerequisites: Basic knowledge corresponding to EF2 - Basics of optics

Pedagogical manager(s): Isabelle Ribet - Experte Onera, enseignante à l'Institut d'Optique

Language of the training: French

Maximum capacity: 12

Price: 2560€ HT - **Duration:** 2x3 days - 42 h

Objectives

- Have an overview of the design of an optronic system (passive or active)
- Understand the key parameters associated to this design
- Discover the state-of-the art of the different components
- Be able to specify, design and evaluate optronic systems (passive or active)

Next sessions

- 08 november 2021 au 10 november 2021 et 24 november 2021 au 26 november 2021 - Palaiseau

Addressed topics

Building blocks
- Sources, paropagation media
- Optical systems, detectors

Infrared systems
- Thermal camera, near infrared imaging

Laser systems
- Laser range finder, Lidar
- Target designation

Image intensifiers

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SC12 | Optronic systems

The program

Radiometry of optical systems
- Radiometry basics
- Optical systems
- Atmospheric transmission
- Exercices

Detectors
- Infrared technologies
- Image intensifiers

Design and evaluation of optronic systems
- Design of optronic systems
- Evaluation of optronic systems
- Laser systems
- Infrared systems
- Image processing

Labworks
- Infrared camera
- MTF measurements
- Laser range finder

Methodology and assessment

Lectures and exercices
Interactive demonstrations and Labworks

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