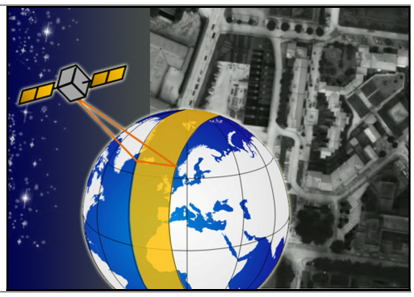
SC12 | Optronic systems



NIVEAU : ADVANCED

Publics : 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

Prérequis : Basic knowledge corresponding to EF2 - Basics of optics

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

Langue de la formation : French

Capacité maximum : 12

Prix : 2560€ HT - **Durée :** 2x3 days - 42 h

Objectifs

- 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)

et 24 november 2021 au 26 november 2021

Thèmes abordés

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

SC12 | Optronic systems

Le programme

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

Méthodologie et évaluation

Lectures and exercices
Interactive demonstrations and Labworks

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