UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Earth Observation Data for Environmental Monitoring (Intercurricular)

2223-94R-SCGA02

Titolo

Earth Observation data for environmental monitoring

Docente(i)

Micol Rossini ; Biagio Di Mauro

Lingua

English

Breve descrizione

The aim of the course is to provide expertise in Earth Observation (EO) and monitoring. The course will be structured as follows:

Lecture I: Basic concepts of optical remote sensing: physical principles, digital images

Lecture II: Availability of Earth Observation data (in particular ESA-Sentinels): presentation of different satellite missions and their the potential applications

Lecture III & IV & hands-on exercises: two Earth Observation applications according to PhD needs and requests (e.g. hydrological and cryospheric applications; land surface and ecological applications) followed by corresponding hands-on exercises.

Suggested years of attendance: I and II

Expected outcome: introduction of EO data-based approaches in the students own PhD projects

Evaluation: YES - with a final oral presentation

CFU / Ore

2 CFU - 16 Hours (Lecture)

Periodo di erogazione

II semester