

Syllabus 2021/2022

Teacher (name and affiliation)	Micol Rossini and Biagio Di Mauro (UNIMIB, dep. Earth and Environmental Sciences)
Title	Earth Observation data for environmental monitoring
Language	<i>English</i>
CFU	2
Hours	16
Program	<p>The aim of the course is to provide expertise in Earth Observation (EO) and monitoring. The course will be structured as follows:</p> <p>Lecture I: Basic concepts of optical remote sensing: physical principles, digital images</p> <p>Lecture II: Availability of Earth Observation data (in particular ESA-Sentinel): presentation of different satellite missions and their the potential applications</p> <p>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.</p> <p>Suggested years of attendance: I and II</p> <p>Expected outcome: introduction of EO data-based approaches in the students own PhD projects</p>
Evaluation: YES/NO	YES with a final oral presentation
Calendar	<i>II semester</i>