SYLLABUS DEL CORSO

Laboratory of Advanced Numerical Modelling in Earth Sciences

2324-1-F7401Q115

Module description

1. Simple numerical resolutions of differential equations of various types with applications to Earth sciences
2. Spatial and temporal Fuorier transforms
3. Chaotic and stochastic models for Earth sciences
4. Use of some existing software in the field of geology, geomorphology, and natural hazards
5. Building a complete model from scratch; numerical results and writing a lab report based on it

Learning goals

basics of algorithms and programming for the geological sciences

General goal

Specific skills and competences

Sustainable Development Goals of the 2030 UN Agenda

Breakdown of meetings

2 hours

Number of participants

3

Language used in meetings

Italian and English

Delivery period of the module

second semester

Methods of assessing the outcomes of the learning process

Learning is verified at each lesson.
Request an elaboration (10-20 pages) on a specific project

Department of affiliation of the teacher

DISAT

Sustainable Development Goals

QUALITY EDUCATION