

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

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
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