



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Geology of Volcanic Areas

2122-1-F7401Q086

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#### Aims

The aim is to provide students with the basic knowledge to realize a field work in volcanic areas

#### Contents

Summary of volcanology:

Geology of volcanic areas

Geology of volcanic areas for volcanic hazard and geothermal assessment

Field work in volcanic areas

#### Detailed program

1) Summary of volcanology: volcanoes and their deposits, classification of volcanic eruptions, types of volcanic deposits, geomorphology in volcanic areas, evolution of volcanoes; volcanic successions and their meaning.

2) Geology of volcanic areas: field survey and different methods, stratigraphy, U.B.S.U., regional description and analysis of the genesis and evolution of volcanism in different geodynamic contexts; hazard assessment in a volcanic environment; evaluation of the geothermal potential.

3) Field work in volcanic areas: geological survey exercises and main examples of what was discussed in class.

### **Prerequisites**

Knowledge of stratigraphy, field survey, structural geology and petrography

### **Teaching form**

Lessons in Italian, but papers are in English

28 hours of lessons and 6 days of field work (generally on Mt. Etna)

### **Textbook and teaching resource**

PDF files from my powerpoints

scientific papers

Karoly Nemeth and Ulrike Martin, Practical Volcanology

Probably movies of each lesson

### **Semester**

second semester

### **Assessment method**

Oral discussion on the field work and on the topics introduced during the lessons

## **Office hours**

Usually on Monday, 15.30 to 16.30. Please ask for a confirmation by e-mail

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