

PhD programme in Earth, Environmental and Resources Sciences

Instructor	Lorenzo Fedele, DiSTAR - UNINA
Course Title	Petrology of Campania volcanoes
Total Number of Hours	12
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Course Description (max 150 words)

The course aims to provide a brief comprehensive overview on the petrology of the volcanoes sited in the Campania region, namely the Roccamonfina volcano, the Campi Flegrei volcanic field, the Procida and Ischia volcanic fields and the Somma-Vesuvius volcano. As generally many of the PhD students are dealing with research projects that are rooted in the region, this course will give them some useful basic knowledge about the local geology. The Campania volcanism will be first framed within the larger context of the Italian Cenozoic magmatism, then the main volcanological, chronological, petrographic, mineral chemical and whole-rock geochemical features of the emplaced products will be described, and their current petrological interpretations will be presented.

Course Contents

1. Topic 1 – Cenozoic magmatism in Italy
2. Topic 2 – Petrology of the Roccamonfina volcano
3. Topic 3 – Petrology of the Campi Flegrei volcanic field
4. Topic 4 – Petrology of the Procida and Ischia volcanic fields
5. Topic 5 – Petrology of the Somma-Vesuvius volcano

Learning Outcomes

By the end of the course, doctoral students will acquire a general knowledge on the main petrological aspects of the Campania volcanoes.

Teaching Format

Lectures.

Essential Bibliography (optional)

Peccerillo, A., 2017. Cenozoic volcanism in the Tyrrhenian Sea Region. Springer Cham, 399 pp.

Assessment Method (optional)

In-class discussion, active participation.