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AURORA

From field to lab

classifying rock types by
blending outcrop observations and lab analysis

Under the Erasmus+ BIP program, an introductory but **intensive 'field to lab' short study program** has been organized by the Universities of Napoli Federico II, the University of Innsbruck and the University of Iceland. The program gives 2nd or 3rd year bachelor students the opportunity to learn about the most important rock types both in theory and in the field and laboratory.

A series of online seminars will be followed by a field trip combining the Southern Alps and the Neapolitan Volcanic district. At the end of the program, the students will prepare a final online seminar on a selected outcrop in small, mixed groups from each partner University.



5 online classes



within March and
May 2023



7-day field trip



in the first half of
June 2023



Excursion financially
supported by Erasmus+
(see details in the call)



For info

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Rocks from field to lab: a practical course

The new Erasmus+ Blended Intensive Program (BIP) initiative has been developed with an innovative pedagogical approach, involving short periods of face-to-face activities combined with online learning and cooperation. The Universities of Napoli Federico II, the University of Innsbruck and the University of Iceland participated in the first BIP call for applications and received funding for the practical course "Rocks from field to lab".

The program gives bachelor students (10 participants for each university) the opportunity to learn about the most important rock types both in theory and in the field and laboratory. The program will begin with a series of online seminars followed by a field trip where students will be able to observe the different types of rocks covered during the online seminars in the field. The field excursions will be complemented by short units of laboratory activities in the evening at the University of Innsbruck (real time virtual) and Napoli giving the students the possibility to study in the laboratory the same rocks they have seen in the outcrop only some hours earlier. At the end of the program, the students will prepare a final online seminar on a selected outcrop in small, mixed groups from each partner University.

Virtual component

Three 2-hours online seminars the students will be given the basic knowledge on the processes responsible for the generation of the various rock types as well as how to recognize and classify them based on their mineralogical and textural features.

The online seminars will be held from March – May 2023. The exact dates will be defined together with the enrolled students.



Igneous rocks

Pro. Eniko Bali, University of Iceland



Sedimentary rocks

Prof. Diethard Sanders, University of Innsbruck



Metamorphic rocks

Prof. Lorenzo Fedele, University of Napoli Federico II

Two 2-hour online seminars will be held to introduce students to the geological features of the specific study areas they will observe during the field trip



The Alpine Orogen

Ass. Prof. Hannah Pomella, University of Innsbruck



The Neapolitan Volcanic district

Prof. Lorenzo Fedele

Field trip

The field activities will be conducted during a 6 day field trip (plus days for arrival, transfer and departure).



3 days of field trip in the Southern Alps: Southtyrol (current planning for 2th-4th June, 2023*)
Topics: Metamorphic rocks of the Austroalpine and Southalpine Basement, Permomesozoic sedimentary and magmatic succession of the Dolomites.



Transfer Southtyrol -> Napoli by train (current planning for 5th June, 2023*)



3 days of field trip in the Neapolitan Volcanic district: (current planning for 6th-8th June, 2023*)
Topics: volcanic rocks and successions from the Neapolitan districts of the Somma-Vesuvio, Campi Flegrei, Ischia and Procida islands.

* Small variations could occur depending on transport and accommodation conditions.