

| Main course information | |
|-------------------------|------------------------|
| Academic subject | Petrography laboratory |
| Degree course | Bachelor's degree |
| Degree class | L/32 |
| ECTS credits (CFU) | 2 |
| Compulsory attendance | suggested |
| Teaching language | Italian |
| Accademic Year | 2020/2021 |

| Professor/Lecturer | |
|--------------------|--|
| Name & SURNAME | Annamaria Fornelli |
| email | annamaria.fornelli@uniba.it |
| Tel. | 080-5442661 |
| Tutorial time/day | Monday and Thursday 11-13, room 33 third floor of Earth Science palace Campus Bari |

| Course details | Pass-fail exam/Exam with mark out of 30 | SSD code | Type of class |
|----------------|---|----------|---------------|
| | Exam with mark out of 30 | Geo07 | Workshop |

| Teaching schedule | Year | Semester |
|-------------------|---------|----------|
| | 2° year | 2° |

| Lesson type | CFU/ECTS | Lessons (hours) | CFU/ECTS lab | Lab hours | CFU/ECTS tutorial/workshop | Tutorial/workshop hours | CFU/ECTS field trip | Field trip Hours |
|-------------|----------|-----------------|--------------|-----------|----------------------------|-------------------------|---------------------|------------------|
| | | 2 | 0 | 2 | 30 | 0 | 0 | 0 |

| Time management | Total hours | Teaching hours | Self-study hours |
|-----------------|-------------|----------------|------------------|
| | 50 | 30 | 20 |

| Academic Calendar | First lesson | Final lesson |
|-------------------|---------------|--------------|
| | 01 March 2021 | 15 June 2021 |

| Syllabus | |
|--|--|
| Course entry requirements | Matematic, physic, chemistry, mineralogy |
| Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS) | |
| <i>Knowledge and understanding</i> | Observations of macroscopic samples of magmatic, sedimentary and metamorphic rocks (effusive, intrusive and pyroclastic). Ability to recognize the structural and mineralogical features of the rocks for a correct classification. The achievement of this goal is promoted during the exercises in the laboratory. |
| <i>Applying knowledge and understanding</i> | Ability to understand the environment in which different rock types are formed through the recognition of macroscopic rock samples. This ability is promoted through continuous talks during the laboratory activities. |
| <i>Making informed judgements and choices</i> | The students acquire the scientific method in the study of environment for its petrographic features. Development of scientific procedures and judgements during the lectures. |
| <i>Communicating knowledge and understanding</i> | Acquisition of the specific and technical language of Petrography. Ability to organize a scientific talk even with digital support. |
| <i>Capacities to continue learning</i> | Ability to understand English scientific works. The students develop the capacities to select the fundamental concepts of petrography and make connections with other geological disciplines. The capacities to continue learning is actuated during the laboratory activities. |

Syllabus

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|---|---|
| Course content | The main objectives of the course are to provide the principles of magmatism, sedimentary process and metamorphism, and to provide the basis for the recognition and classification of igneous, sedimentary and metamorphic rocks using textural and mineralogical parameters at the macroscopic scale on hand samples. Observations of some minerals under optical microscopy. |
| Course books/Bibliography | Winter –An introduction igneous and metamorphic petrology. Prentice Hall Slides of teacher, lecture notes. D'Argenio, Innocenti, Sassi, - Introduzione allo studio delle rocce (Utet) Cornelis Klein Anthony R. Philpotts Mineralogia e Petrografia. Zanichelli |
| Notes | |
| Teaching methods | Description of hand samples and group work |
| Assessment methods (indicate at least the type written, oral, other) | Oral evaluation starting from the observation of macroscopic samples of rocks. The evaluation of this module is strongly integrated with that of the Petrography teaching. |
| Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are) | Recognize hand samples of the main lithologies. Petrographic descriptions (rock descriptions) of metamorphic, sedimentary and igneous rocks through the hand specimen. The students should be able to apply their observations to interpret the formation of igneous, sedimentary and metamorphic rocks. The highest grade is achieved by showing reasoning skills and appropriate scientific language. The evaluation will be negative if the student shows that he learned the notions using wrong terms. |
| Further information | |