



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Geologia Ambientale

2122-1-F7501Q003

Aims

To provide knowledge and acquire on geological environmental resources and in particular on the relationship between man and geological environment. The objective is to make the student to have autonomous judgment on the sustainable use of geological resources.

The course deals with the concept of environmental sustainability applied to geological resources; in this context will be analyzed the main geological resources and the impact that man has on these resources. Among the geological resources is also included the concept of landscape, prodrome to analyze the principles of land use planning.

The keys to the reading of the problems of environmental sustainability applied to the geological environment are then provided (concept of territorial sustainability).

Contents

Contents:

Detailed program

Contents:

1. Introduction to environmental geology

2. Human-Environment Relationship,

a) Fossil Resources

4. Sources of energy transformation

a) Non-renewable Sources

Fossil fuels

Nuclear energy

b) Renewable sources

Hydroelectric energy

Geothermal energy

Solar energy

Wind energy

Biomass energy

Tidal Energy

a) Concept of environmental sustainability and sustainable development

a) Water

a) Concept of Risk

a) PRG, municipality planning

Prerequisites

Elements of Geology, Petrography, Geophysics and Physical Geography.

Teaching form

- 48 hours of Lessons tutorials, 6 credits

- 2' hours of Laboratory experiences, 2 credits

Textbook and teaching resource

Semester

first semester

Assessment method

The student must prepare a written report on a topic chosen by him, related to the topics covered during the

course, which is then discussed with the teacher on the day of the oral test.

Office hours

every day on appointment
