**ID**

***VP112_TER***

# Visiting Professor Program
# Academic Year 2023/2024

**TEACHING COMMITMENT:** **28 hours**

**COURSE TITLE**

**Geotechnical Works**

**TEACHING PERIOD**

1st term

**SCIENTIFIC AREA**

Geotechnics

**LANGUAGE USED TO TEACH**

English

**COURSE SUMMARY**

The course deals with the fundamental aspects of soil mechanics, applied to the most common geotechnical engineering works, such as surface foundations and rigid support works.

**LEARNING OBJECTIVES**

The skills learned during the course are a tool for the planning and interpretation of geological and geotechnical surveys to support the design of engineering works such as supporting works and surface foundations, in line with the latest legislation on the subject.

**TUTORSHIP ACTIVITIES**

Tutorship activities for PhD works and final works for masters students

**LAB ACTIVITIES**
Laboratory activity on numerical moddelling with application to getechncial works

**OTHER ACTIVITIES BESIDES THE COURSE**
PHD coruses devoted for numerical moddeling in rock mechanics and rock engineering

## ADDITIONAL COURSE

**COURSE TITLE**
**Slope Stability**

**TEACHING PERIOD**
1st term

**SCIENTIFIC AREA**
Geotechnics

**LANGUAGE USED TO TEACH**
English

**COURSE SUMMARY**
The course aims to describe main computational methods adopted in slope stability.

Limit equilibrium method will be developed for slope stability in different configurations..

**LEARNING OBJECTIVES**
To learn how to quantifity stability condition of slopes of different natures also by using commercial codes.

**TUTORSHIP ACTIVITIES**
N/D

**LAB ACTIVITIES**
Laboratory for the use of codes for stability analysis evaluation.

**OTHER ACTIVITIES BESIDES THE COURSE**
N/D

## VISITING PROFESSOR PROFILE

The professionalism required concerns the ability to numerically model fractured and porous media using continuous and discontinuous methods with specific reference to rock materials and rock masses.

## FURTHER INFORMATION

Lessons and seminars could be held in co-presence with UNITO Professors.

## CONTACT REFERENT

anna maria ferrero
anna.ferrero@unito.it