



## GÉOTECHNIQUE

### ADVANCED SOIL ENGINEERING

Lecturers: Eric VINCENS

| Lecturers : 0.0 | TC : 28.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

#### Objectives

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This course presents the design of the foundations of structures as well as the techniques for retaining soils in the works or final phase. It is based on knowledge of soil mechanics which should have been acquired through MOD2.6 or ELC-C6.

**Keywords :** shallow foundations, deep foundations, retaining wall, reinforcement

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#### Programme

Shallow foundations  
Deep foundations  
Retaining walls and soil reinforcement

#### Learning outcomes

- - how to analyze the data constraints of a geotechnical project - sizing a geotechnical system (foundation, reinforcement) - how to choose a technological solution

#### Independent study

Objectifs :

Méthodes :

#### Core texts

Georges Filliat, *LA PRATIQUE DES SOLS ET FONDATIONS*, EDITIONS DU MONITEUR, 1981  
Philippe Mestat *DE LA RHÉOLOGIE DES SOLS À LA MODÉLISATION DES OUVRAGES GÉOTECHNIQUES*, LCPC, 2000

#### Assessment

- knowledge score: a final test with part without documents and part with documents
- know-how score: reports from BE