



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

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

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 : This activity is not concerned with framed autonomy activities outside personal work.

Méthodes : This activity is not concerned with framed autonomy activities outside personal work.

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