

COURSE DETAIL

FOUNDATIONS IN GEOTECHNICAL ENGINEERING

Country

Brazil

Host Institution

Pontifical Catholic University of Rio de Janeiro

Program(s)

Pontifical Catholic University of Rio de Janeiro

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

FOUNDATIONS IN GEOTECHNICAL ENGINEERING

UCEAP Transcript Title

GEOTECHNICAL ENG

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course offers an introduction to geotechnical engineering. Topics include: origin and formation of soils; geological-geotechnical profiles-- direct and indirect surveys; undisturbed and dented sampling; soil characterization-- granulometric distribution, physical indexes, limits of consistency, geotechnical classification systems; soil structures, mineralogy of clays, and compacted soils; tensions in soil masses-- geostatic stresses and induced stresses; effective stress and pressure; capillarity; percolation in soils-- concept of loads, permanent flow, permeability coefficient.

Language(s) of Instruction

Portuguese

Host Institution Course Number

ENG 1209

Host Institution Course Title

FUNDAMENTOS DE GEOTECNIA

Host Institution Campus

PUC-Rio

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Departamento de Engenharia Civil

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