

COURSE DETAIL

SEISMIC ANALYSIS

Country

Chile

Host Institution

Pontifical Catholic University of Chile

Program(s)

Pontifical Catholic University of Chile

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

SEISMIC ANALYSIS

UCEAP Transcript Title

SEISMIC ANALYSIS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course focuses on the performance of structural systems in relation to seismic forces. It encompasses basic concepts of seismology, seismic threat, and characterization of earthquakes and analyzes the seismic response of structures on elastic and inelastic performance. This course presents the scopes and limitations of the seismic design codes as well as the foundations for performance-based seismic analysis and design.

Language(s) of Instruction

Spanish

Host Institution Course Number

ICE3743

Host Institution Course Title

SEISMIC ANALYSIS

Host Institution Campus

SAN JOAQUÍN

Host Institution Faculty

ESCUELA DE INGENIERÍA

Host Institution Degree

Host Institution Department

INGENIERÍA ESTRUCTURAL Y GEOTÉCNICA

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