COURSE DETAIL

INTRODUCTION TO ANALYSIS

Country
Brazil

Host Institution
Pontifical Catholic University of Rio de Janeiro

Program(s)
Pontifical Catholic University of Rio de Janeiro

UCEAP Course Level
Lower Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
22

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO ANALYSIS

UCEAP Transcript Title
INTRO TO ANALYSIS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course offers an introduction to analysis including: sets and relations; demonstrations by induction and contradiction; natural numbers; finite and infinite cardinalities, enumerability; rational and real numbers; limits and convergence of numerical sequences and series; straight topology-- open, closed, compact, connected, dense; Cantor ternary set; continuous functions-- Bolzano-Weierstrass Theorem, Intermediate Value Theorem, uniform continuity.

Language(s) of Instruction

Portuguese

Host Institution Course Number

MAT 1605

Host Institution Course Title

INTRODUCTION TO ANALYSIS

Host Institution Campus

PUC-Rio

Host Institution Faculty

Host Institution Degree

Host Institution Department

Departamento de Matemática

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