

# COURSE DETAIL

## FINANCIAL MODELING

**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)**

Business Administration

**UCEAP Course Number**

143

**UCEAP Course Suffix****UCEAP Official Title**

FINANCIAL MODELING

**UCEAP Transcript Title**

FIN MODELING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course introduces basic concepts in Financial Modeling and Business Analytics that are typically implemented in spreadsheet models and shows how data can be used to solve business problems. The course discusses methods that are used extensively in business organizations to solve large, structured problems. Such methods generate results that support decision-making at all levels of the organization over various time horizons. This course carries the Quantitative Reasoning flag, which are courses designed to equip students with skills that are necessary for understanding the types of quantitative arguments regularly encountered in professional life. Students should therefore expect a substantial portion of the grade to come from use of quantitative skills to analyze real-world problems. This course includes the use of Excel and R to estimate financial models and variables, such as NPV and IRR, WACC, FCF, assets Beta and return, efficient frontier, CAPM, SML, variance and covariance matrixes, and options pricing. Students use basic operations in R, scripts, data manipulation, and programming using R.

## Language(s) of Instruction

English

## Host Institution Course Number

ADM 9970

## Host Institution Course Title

FINANCIAL MODELING

## Host Institution Course Details

<https://www.puc-rio.br/ferramentas/ementas/ementa.aspx?cd=ADM9970>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

**Host Institution Department**

Business Administration

**Course Last Reviewed**

2024-2025

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