UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Mathematical Models for Hospitality and Tourism Management

2223-1-F7601M054

Learning objectives

The course aims at providing the mathemathical instruments to be used in the framework of decision theory

Contents

Mathematical instruments for decision theory with a focus on weather derivatives and their application in the framework of tourism industry.

Detailed program

Set theory, functions, order relations.

Functions of one variable.

First and second order derivative, optimization problems.

Standard derivatives: forwards, futures, put and call options, pricing of the options.

Weather derivatives.

Prerequisites

No specific prerequisites.

Teaching methods

Lectures

Assessment methods

The examination is written with exercises and/or theoretical questions. The oral exam is optional.

Textbooks and Reading Materials

Lectures notes. Further referring texts will be suggested during the lessons.

Semester

Second semester

Teaching language

Italian

Sustainable Development Goals