

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Big Data in Business, Economics and Society

2122-2-F9101Q030-F9101Q030M

Aims

To show some classical model for portfolio management

Contents

Markowitz's portfolio selection model and some extensions

Detailed program

Markowitz's (1952) portfolio selection model: introduction, mathematical derivation and weaknesses The minimum variance extension The risk parity extension

Prerequisites

Basic notions of probability and constrained optimization

Teaching form

Textbook and teaching resource

Lecturer's teaching notes

Semester

Lectures' schedule:

March 2022

Tuesday 8th (10:30am-12:30pm)

Thursday 10th (11:30am-1:30pm)

Friday 11th (10:30am-1:30pm)

Tuesday 15th (10:30am-12:30pm)

Thursday 17th (11:30am-1:30pm)

Tuesday 22th (10:30am-12:30pm)

Thursday 24th (11:30am-1:30pm)

Friday 25th (1:30pm-4:30pm)

Tuesday 29th (10:30am-12:30pm)

Thursday 31st (11:30am-1:30pm)

April 2022

Friday 1st (1:30pm-4:30pm)

Assessment method

The oral exam will be based:

- on the topics covered during the lab with the implementation of a numerical analysis
- a report on a topic not covered in class (to be settled with the instructor)

Office hours

Office hours' schedule will be provided on a weekly basis. Office hours will be held remotely