COURSE DESCRIPTION - ACADEMIC YEAR 2022/2023

Course title: Digital Finance and Financial Markets
Course code: 76408
Scientific sector: SECS-P/09
Degree: Bachelor in Informatics and Management of Digital Business (L-31)
Semester: 1+2
Year: 2
Credits: 12
Modular: Yes

Total lecturing hours: 84
Total lab hours: --
Attendance: Highly recommended, although not compulsory as per national regulation.
Prerequisites: Accounting for Decision Making (1st year) is strongly suggested.
Course page: https://ole.unibz.it/

Specific educational objectives:
The course belongs to the type "attività formative affini o integrative". The course is designed to offer an introduction to basic concepts of financial decision-making, financial management of digital firms and how to apply them to real-life cases. In addition, the functions performed by financial markets and intermediaries within the financial system (e.g., banks) will be discussed as well as recent developments (e.g., crypto currencies). Students will understand how the interests of owners, debt holders and management of a firm may conflict, and how this influences optimal financing and decision-making. We will also study how firms choose their capital structure to make real investments, and how financial markets and intermediaries evaluate and finance business activities.

Module 1: Principles of Finance for Computer Science
Module code: 76408A
Module scientific sector: SECS-P/09
Lecturer: Claudia Curi
Contact: Office E5.10A, piazza Università 1, BZ; claudia.curi@unibz.it, +39 0471 013498
Scientific sector of lecturer: SECS-P/09
Teaching language: English
Office hours: Please refer to the course webpage
Lecturing assistant (if any): --
Contact LA: --
Office hours LA: --
Credits: 6
Lecturing hours: 42
Lab hours: --
List of topics: List of covered topics:
- Arbitrage principles in finance
- Risk and Return
- Real Investment Analysis
Teaching format

Classroom activity will alternate background lectures, applied exercises, examples based on practical short case studies, discussions and comments of current development and events in financial market and institutions related to topics covered in class.

Module 2
Financial Markets

Module code 76408A
Module scientific sector SECS-P/11
Lecturer Florian Kiesel
Contact Office E2.04, piazza Università 1, BZ; florian.kiesel@unibz.it, +39 0471 013041
Scientific sector of lecturer SECS-P/09
Teaching language German
Office hours Please refer to the course webpage
Contact LA -
Office hours LA -
Credits 6
Lecturing hours 42
Lab hours --

List of topics
List of covered topics:
- Financial system and financial intermediation
- Banks and Non-Banks
- Capital Markets and Investment Banks
- Asset Management

Teaching format

Classroom activity will alternate background lectures, applied exercises, examples based on practical short case studies, discussions and comments of current development and events in financial market and institutions related to topics covered in class.

Learning outcomes

Knowledge and understanding:
- D1.17 - Know further methods of Digital Finance and Digital Advertising and their application.
- D1.18 - Understand the interdisciplinary approach to IT projects that takes into account technical foundations, business needs, social and dynamic aspects and the regulatory framework.

Applying knowledge and understanding:
- D2.3 - Ability to analyse business problems and to develop proposals for solutions with the help of IT tools.
- D2.4 - Ability to formalise and to analyse procedures and operational processes, to recognise and use optimisation potentials.
- D2.6 - Ability to design, describe and present IT solutions to policy makers.
- D2.9 - Ability to support the management of IT departments and software companies by providing information as needed.
- D2.11 - Ability to analyse large amounts of data on economic facts and processes.
### Assessment

The course grade is based on a combination of:
- written exams with a mix of multiple-choice, open questions, quantitative problem sets
- project work
- class participation

### Assessment language

- English (M1)
- German (M2)

### Assessment Typology

Collegial

### Evaluation criteria and criteria for awarding marks

Individual written test that consists of both financial theory questions and practical exercises. Knowledge, understanding of financial problems and ability to develop financial decisions within digital corporations are assessed. Clarity in exam execution and quality of written English and Italian are essential to earn the passing grade.

### Required readings

- Principles of Finance for Computer Science:
| **Financial Markets:** | • J. Berk, P. DeMarzo, J. Harford, Fundamentals of Corporate Finance, 5th edition 2021, Pearson  
• F.S. Miskin, S.G. Eakins, Financial Markets and Institutions, 9th edition, 2018, Pearson (English)  
• D. Dietrich, U. Vollmer, Finanzverträge und Finanzintermediation, 2005, Gabler |
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<tr>
<td><strong>Supplementary readings</strong></td>
<td>A list of supplementary readings (slides, case studies, journal articles, etc.) will be provided during the courses and posted on the ole platform.</td>
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<td><strong>Software used</strong></td>
<td>Excel package</td>
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