

# Syllabus

## *Descrizione corso*

<b>Titolo insegnamento</b>	Digital Finance and Financial Markets
<b>Codice insegnamento</b>	76408
<b>Titolo aggiuntivo</b>	
<b>Settore Scientifico-Disciplinare</b>	
<b>Lingua</b>	Inglese; Tedesco
<b>Corso di Studio</b>	Corso di laurea in Informatica e Management delle Aziende digitali
<b>Altri Corsi di Studio (mutuati)</b>	
<b>Docenti</b>	prof. dr. Florian Kiesel, Florian.Kiesel@unibz.it <a href="https://www.unibz.it/en/faculties/economics-management/academic-staff/person/46474">https://www.unibz.it/en/faculties/economics-management/academic-staff/person/46474</a>
<b>Assistant</b>	
<b>Semestre</b>	Tutti i semestri
<b>Anno/i di corso</b>	2
<b>CFU</b>	12
<b>Ore didattica frontale</b>	84
<b>Ore di laboratorio</b>	0
<b>Ore di studio individuale</b>	216
<b>Ore di ricevimento previste</b>	36
<b>Sintesi contenuti</b>	<ul style="list-style-type: none"><li>• Time Value of Money</li><li>• Risk and Return</li><li>• Investment Decision Rules</li><li>• Capital Budgeting</li><li>• Capital Structure</li><li>• Equity and Debt Financing</li><li>• Financial system and Financial intermediation</li><li>• Banks and Non-Banks</li><li>• Capital Markets and Investment Banks</li><li>• Asset Management</li></ul>

<b>Argomenti dell'insegnamento</b>	<p>This module combines two interconnected courses: Principles of Corporate Finance and Financial Markets. The first part focuses on understanding key financial decisions within companies: Which projects should be pursued? How do we value investments? What financing options are available, and how do capital structure and firm value interact? The goal is to build a solid foundation for analyzing and making financial decisions.</p> <p>The second part looks at the broader environment: How do financial markets work? What is the difference between banks and markets? How do bonds, stocks, and derivatives function? And what happens when markets are affected by information problems or crises?</p> <p>Topics include:</p> <ul style="list-style-type: none"><li>- Time value of money, investment decision tools, cost of capital</li><li>- Equity and debt financing, capital structure, payout policy</li><li>- Functioning of bond and equity markets</li><li>- Role of banks, intermediaries, and central banks</li><li>- Portfolio choice, risk assessment, derivatives</li><li>- Alternative finance (e.g., crowdfunding, cryptocurrencies)</li></ul> <p>The courses are practical in nature. Exercises, real-world examples, and short case discussions are part of the teaching approach. The aim is not to memorize formulas but to understand core financial logic – and to speak the language of finance.</p>
<b>Parole chiave</b>	<ul style="list-style-type: none"><li>- Investment analysis</li><li>- Capital structure</li><li>- Time value of money</li><li>- Cost of capital (WACC, CAPM)</li></ul>

	<ul style="list-style-type: none"> <li>- Financial markets and institutions</li> <li>- Bonds, stocks, derivatives</li> <li>- Information asymmetry</li> </ul>
<b>Prerequisiti</b>	Accounting for Decision Making (1st year) is strongly suggested.
<b>Insegnamenti propedeutici</b>	
<b>Modalità di insegnamento</b>	Classroom activity will alternate background lectures, applied exercises, examples based on practical short case studies, discussions and comments of current developments and events in financial markets and institutions related to topics covered in class.
<b>Obbligo di frequenza</b>	Highly recommended, although not compulsory as per national regulation.
<b>Obiettivi formativi specifici e risultati di apprendimento attesi</b>	<p>The course belongs to the type "attività formative affini o integrative".</p> <p>The course is designed to introduce the basic concepts of financial decision-making and financial management, and to demonstrate how these can be applied to real-life cases, with a particular but not exclusive focus on IT projects, digital firms, and technology-driven industries. 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., token offerings). 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 the factors that influence a firm's capital structure, how these decisions affect investment choices, and how financial markets and intermediaries evaluate and finance business activities.</p> <p>Knowledge and understanding:</p> <ul style="list-style-type: none"> <li>• D1.17 - Know further methods of Digital Finance and Digital Advertising and their application.</li> <li>• D.1.18 - Understand the interdisciplinary approach to IT projects that takes into account technical foundations, business needs, social and dynamic aspects and the regulatory framework.</li> </ul> <p>Applying knowledge and understanding:</p> <ul style="list-style-type: none"> <li>• D2.3 - Ability to analyse business problems and to develop</li> </ul>

	<p>proposals for solutions with the help of IT tools.</p> <ul style="list-style-type: none"><li>• D2.4 - Ability to formalise and to analyse procedures and operational processes, to recognise and use optimisation potentials.</li><li>• D2.6 - Ability to design, describe and present IT solutions to policy makers.</li><li>• D2.9 - Ability to support the management of IT departments and software companies by providing information as needed.</li><li>• D2.11 - Ability to analyse large amounts of data on economic facts and processes.</li><li>• D2.13 - Ability to apply additional knowledge in the subjects of Digital Finance and Digital Marketing.</li><li>• D2.18 - Know how to communicate with the client in written and oral form on a professional level in English, Italian and German.</li></ul> <p>Making judgments</p> <ul style="list-style-type: none"><li>• D3.1 - Ability to collect and interpret data useful for forming independent judgments on IT and economic aspects of information systems.</li><li>• D3.3 - Ability to compare and evaluate different IT solutions based on their technical characteristics and key business figures.</li><li>• D3.4 - Ability to assess fundamental economic and business facts on the basis of numerical data.</li></ul> <p>Communication skills</p> <ul style="list-style-type: none"><li>• D4.1 - Be able to use the three languages English, Italian and German and, in particular in English, be able to use appropriate technical terminology and communication style.</li><li>• D4.2 - Ability to use modern means of communication also for remote interactions.</li><li>• D4.3 - Ability to negotiate with people with different professional experiences the definition and requirements of corporate information systems.</li></ul> <p>Learning skills</p> <ul style="list-style-type: none"><li>• D5.2 - Learning ability to carry out strategic and IT project activities in corporate communities, also distributed.</li><li>• D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of</li></ul>
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	information technology and systems.
<b>Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)</b>	
<b>Modalità di esame</b>	<p>The assessment is based on three parts.</p> <ul style="list-style-type: none"> <li>- One case study on investment decisions during the M1 "Principles of Finance for Computer Science".</li> <li>- A written exam divided in two parts, one for each module: <ul style="list-style-type: none"> <li>• the first part of the written exam covers the topics related to principles of finance (in English).</li> <li>• the second part covers the topic related to financial markets (German language).</li> </ul> </li> </ul> <p>The first part of the written exam can also be passed in the form of a midterm held during the last lecture of the M1.</p> <p>Non-attending students will have only a final exam which covers all topics of the module.</p>
<b>Criteri di valutazione</b>	<ul style="list-style-type: none"> <li>• The case study counts 20% of the total grade.</li> </ul> <p>The case study is an individual project. For the case study, students have to evaluate an investment case and provide a solution to the problem.</p> <p>The case study is evaluated based on the assumptions made by the student, the level of detail and the final presentation of the results.</p> <ul style="list-style-type: none"> <li>• The two parts of the written exams count 40% each.</li> </ul> <p>The exams contain questions regarding financial theory but also practical exercises.</p> <p>Relevant for the first part of the written exam: clarity of answers, ability of problem solving, transferring knowledge, showing understanding of financial problems, ability to summarize knowledge, developing financial decision choices.</p> <p>Relevant for the second part of the written exam: understanding of financial markets, ability to summarize answers in own words, establish relationships between corporates and financial markets.</p> <p>Clarity in exam execution and quality of written English and German are essential to earn the passing grade.</p>

	All three parts need to be passed independently.
<b>Bibliografia obbligatoria</b>	<p>Principles of Finance for Computer Science:</p> <ul style="list-style-type: none"> <li>· J. Berk and P. DeMarzo, Corporate Finance, 5th Edition (2020), Pearson.</li> </ul> <p>Financial Markets:</p> <ul style="list-style-type: none"> <li>· F.S. Miskin, S.G. Eakins, Financial Markets and Institutions, 9th edition, 2018, Pearson (English)</li> <li>· A. Saunders, M. Cornett und O. Erhemjamts, Financial Markets and Institutions, 9th edition, 2024, McGraw-Hill.</li> <li>· D. Dietrich, U. Vollmer, Finanzverträge und Finanzintermediation, 2005, Gabler</li> </ul> <p>Subject Librarian: David Gebhardi, <a href="mailto:David.Gebhardi@unibz.it">David.Gebhardi@unibz.it</a></p>
<b>Bibliografia facoltativa</b>	A list of supplementary readings (slides, case studies, journal articles, etc.) will be provided during the courses and posted on the OLE platform.
<b>Altre informazioni</b>	Software used: Excel package
<b>Obiettivi di Sviluppo Sostenibile (SDGs)</b>	Innovazione e infrastrutture, Istruzione di qualità

## *Modulo del corso*

<b>Titolo della parte costituente del corso</b>	Principles of Finance for Computer Science
<b>Codice insegnamento</b>	76408A
<b>Settore Scientifico-Disciplinare</b>	ECON-09/A
<b>Lingua</b>	Inglese
<b>Docenti</b>	prof. dr. Florian Kiesel, Florian.Kiesel@unibz.it <a href="https://www.unibz.it/en/faculties/economics-management/academic-staff/person/46474">https://www.unibz.it/en/faculties/economics-management/academic-staff/person/46474</a>
<b>Assistente</b>	
<b>Semestre</b>	Primo semestre

<b>CFU</b>	6
<b>Docente responsabile</b>	
<b>Ore didattica frontale</b>	42
<b>Ore di laboratorio</b>	0
<b>Ore di studio individuale</b>	108
<b>Ore di ricevimento previste</b>	
<b>Sintesi contenuti</b>	<ul style="list-style-type: none"> <li>• Time Value of Money</li> <li>• Risk and Return</li> <li>• Investment Decision Rules</li> <li>• Capital Budgeting</li> <li>• Capital Structure</li> <li>• Equity and Debt Financing</li> </ul>
<b>Argomenti dell'insegnamento</b>	
<b>Modalità di insegnamento</b>	Classroom activity will alternate background lectures, applied exercises, examples based on practical short case studies, discussions and comments of current developments and events in financial markets and institutions related to topics covered in class.
<b>Bibliografia obbligatoria</b>	<p>Principles of Finance for Computer Science:</p> <ul style="list-style-type: none"> <li>· J. Berk and P. DeMarzo, Corporate Finance, 5th Edition (2020), Pearson.</li> </ul>
<b>Bibliografia facoltativa</b>	A list of supplementary readings (slides, case studies, journal articles, etc.) will be provided during the courses and posted on the OLE platform.

## *Modulo del corso*

<b>Titolo della parte costituente del corso</b>	Financial Markets
<b>Codice insegnamento</b>	76408B
<b>Settore Scientifico-Disciplinare</b>	ECON-09/B
<b>Lingua</b>	Tedesco
<b>Docenti</b>	
<b>Assistente</b>	

<b>Semestre</b>	Secondo semestre
<b>CFU</b>	6
<b>Docente responsabile</b>	
<b>Ore didattica frontale</b>	36
<b>Ore di laboratorio</b>	6
<b>Ore di studio individuale</b>	108
<b>Ore di ricevimento previste</b>	
<b>Sintesi contenuti</b>	<ul style="list-style-type: none"> <li>• Financial system and Financial intermediation</li> <li>• Banks and Non-Banks</li> <li>• Capital Markets and Investment Banks</li> <li>• Asset Management</li> </ul>
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<b>Bibliografia obbligatoria</b>	<p>Financial Markets:</p> <ul style="list-style-type: none"> <li>• F.S. Miskin, S.G. Eakins, Financial Markets and Institutions, 9th edition, 2018, Pearson (English)</li> <li>• A. Saunders, M. Cornett und O. Erhemjamts, Financial Markets and Institutions, 9th edition, 2024, McGraw-Hill.</li> <li>• D. Dietrich, U. Vollmer, Finanzverträge und Finanzintermediation, 2005, Gabler</li> </ul>
<b>Bibliografia facoltativa</b>	A list of supplementary readings (slides, case studies, journal articles, etc.) will be provided during the courses and posted on the OLE platform.