

# Syllabus

## *Descrizione corso*

<b>Titolo insegnamento</b>	Big data e blockchain
<b>Codice insegnamento</b>	25418
<b>Titolo aggiuntivo</b>	
<b>Settore Scientifico-Disciplinare</b>	ING-INF/05
<b>Lingua</b>	Inglese
<b>Corso di Studio</b>	Corso di laurea magistrale in Accounting e Finanza
<b>Altri Corsi di Studio (mutuati)</b>	
<b>Docenti</b>	dr. Paolo Coletti, Paolo.Coletti@unibz.it <a href="https://www.unibz.it/en/faculties/economics-management/academic-staff/person/6359">https://www.unibz.it/en/faculties/economics-management/academic-staff/person/6359</a>
<b>Assistante</b>	
<b>Semestre</b>	Secondo semestre
<b>Anno/i di corso</b>	1
<b>CFU</b>	3
<b>Ore didattica frontale</b>	24
<b>Ore di laboratorio</b>	-
<b>Ore di studio individuale</b>	-
<b>Ore di ricevimento previste</b>	9
<b>Sintesi contenuti</b>	The course focuses on: <ul style="list-style-type: none"><li>- basic Python</li><li>- using an LLM for automatically writing Python programs</li><li>- major quantitative analysis of financial data</li><li>- Python representations of data to correct and improve LLM-generated Python scripts</li><li>- basic cryptocurrencies and blockchain technology</li></ul>
<b>Argomenti dell'insegnamento</b>	<ul style="list-style-type: none"><li>- basic Python</li><li>- using an LLM for automatically writing Python programs</li></ul>

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<b>Parole chiave</b>	Python, financial analysis, LLM code generation, blockchain, cryptocurrencies
<b>Prerequisiti</b>	
<b>Insegnamenti propedeutici</b>	
<b>Modalità di insegnamento</b>	<p>3-4 hours on cryptocurrencies as a traditional frontal lecture with examples.</p> <p>2 hours on basic Python as an exercise lesson with examples that students must replicate.</p> <p>Rest of the course on generating code with LLM as laboratory course, where each student experiments on her own computer the effects of commands given to the LLM.</p>
<b>Obbligo di frequenza</b>	Regular attendance is suggested, but not required
<b>Obiettivi formativi specifici e risultati di apprendimento attesi</b>	
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<b>Modalità di esame</b>	Acquired knowledge on blockchain and basic cryptocurrencies is evaluated through a written test. Acquired skills on the rest are tested through a practical exam on a real case.
<b>Criteri di valutazione</b>	<p>15% of the grade comes from the written test. Particular emphasis is done on the explanation skills of the students and the knowledge of the topics.</p> <p>85% of the grade come from the practical test. The outcome of this test depends on the obtained results and, in particular, on the methodology used and the ability of the student to choose the right tools and to check the partial results produced by the computer.</p>
<b>Bibliografia obbligatoria</b>	Videos are provided for each lesson. No further reading is necessary.
<b>Bibliografia facoltativa</b>	

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<b>Altre informazioni</b>	
<b>Obiettivi di Sviluppo Sostenibile (SDGs)</b>	Innovazione e infrastrutture