Course Title	Financial Derivatives				
Course Code	ACF 320				
Course Type	Elective				
Level	Undergraduate				
Year / Semester	Year 3/4				
Teacher's Name	POLINA ELLINA/PHANOS IACOVOU				
ECTS	6	Lectures / week	3	Laboratories / week	
Course Purpose and Objectives	This course focuses extensively on the pricing and analytical aspects of financial derivatives and their practical applications. Skills are developed in pricing analysis, use of derivatives pricing models, derivatives trading, and hedging strategies. This course aims to cover the theoretical background for financial derivatives providing opportunities for hands-on exercises on financial derivatives through class assignments.				
Learning Outcomes	<ul> <li>Upon completion of this course, students will be able to:</li> <li>Understand the main principles of financial derivatives (forward/futures and options).</li> <li>Use derivatives for risk management purposes.</li> <li>Explain the mechanics of the Futures markets.</li> <li>Determine the price of forward and futures contracts.</li> <li>Explain the mechanics of the Options Markets.</li> <li>Analyze the various trading strategies involving options.</li> <li>Determine the price of options using binomial trees and the Black-Scholes-Merton Model.</li> <li>Understand the role of Greek letters in option risk management process.</li> </ul>				
Prerequisites	ACF 120;	MAT 101; ACF 210	Require	d	
Course Content	<ul> <li>Introduction to financial derivatives</li> <li>Future Markets and their characteristics</li> <li>Hedging Strategies using Futures Contracts</li> <li>Valuing forward and futures prices</li> <li>Types of Options and Their Characteristics</li> </ul>				

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	Properties of Stock Options				
	Option Trading Strategies				
	Pricing and Valuation of Options				
	Binomial Trees				
	The Black-Scholes-Merton Model				
	The Greek Letters				
	Exotic options				
	Volatility smiles and other methods of estimating volatilities				
	Lectures coupled with case study teaching and discussion				
Teaching Methodology	Reading and resolving problems				
	Working on problem-solving and case studies				
	Solving unstructured questions and case studies				
	Brief oral presentation before starting a new chapter and reply to queries from students				
	Homework for revision purposes				
	Interaction and collaborative learning				
Bibliography	<ul> <li>John C. Hull, 2018, Options, Futures, and Other Derivatives, 10th Edition</li> <li>CFA Program Curriculum 2020 Level I, Wiley:         <ul> <li>Derivatives and Alternative Investments (Reading 56, Reading 57)</li> </ul> </li> </ul>				
Assessment	Midterm Exam: 35%				
	Exercises and Assignments: 15%				
	Final Exam: 50%				
Language	English				