



COURSE DESCRIPTION

Title: **DERIVATIVES WITH APPLICATIONS IN THE SUPPLY CHAIN OF AGRICULTURAL AND FOOD PRODUCTS**

Compulsory

Elective

Winter

Spring

Lecturer: Antonios Rezitis, Professor at AUA

COURSE GOALS

The course is the main introductory course in the concepts of derivatives with applications in the supply chain of agricultural and food products. In addition, it highlights the strategic role and modern trends in the derivatives market with applications in the supply chain of agricultural and food products. Upon successful completion of the course the student will be able to:

- define the key concepts of forward and futures contracts
- understand the market mechanism and risk hedging with futures contracts
- understand the valuation of futures contracts
- understand Options and their properties
- analyze Options and their valuation methods

understand and evaluates SWAPS

COURSE CONTENTS

Unit		Hours
1.	Introduction to Financial Derivatives	
2.	Forward Contracts and Futures Contracts	
3.	Futures Contracts Market Mechanism	
4.	Risk Hedging with Futures Contracts	
5.	Forwards and Futures contracts Valuation	
6.	Interest Rates and Currency Exchange Rates Futures and Forwards Contracts	
7.	Options	
8.	Option Properties	
9.	Option Strategies	
10.	Option Valuation Methods	
11.	GREEKS	
12.	Interest Rates Options	
13.	SWAPS	
14	Introduction to Financial Derivatives	

TEACHING METHOD

HOURS

Collaboration with lecturer	Taught	24	No of indiv. assignments
	Seminar		
	Laboratory	12	No of group assignments
	TOTAL:	36	1

EXAMINATION

Weight

Written exam	70%
Orals	
Individual assignments	
Group assignments	30%
TOTAL:	100%



BIBLIOGRAPHY

1. John C. Hull, Βασικές αρχές των αγορών συμβολαίων και δικαιωμάτων, 9η αμερικάνικη έκδοση, Εκδόσεις Κλειδάριθμος, 2017
2. Νικόλαος Μυλωνάς, Αγορές και Προιόντα Παραγώγων, Εκδόσεις Γ. ΔΑΡΔΑΝΟΣ-Κ. ΔΑΡΔΑΝΟΣ ΟΕ, 2005
3. Lowell B. Catlett and James D. Libbib, Risk Management for Agriculture: A Guide to Future, Options and Swaps, THOMSON, 2007

Colin A. Carter, Futures and Options Markets: An Introduction, REBEL TEXT, 2015