

COURSE LAYOUT

1. GENERAL

SCHOOL	APPLIED ECONOMICS AND SOCIAL SCIENCES		
DEPARTMENT	AGRICULTURAL ECONOMICS & RURAL DEVELOPMENT		
STUDY LEVEL	<i>Undergraduate</i>		
COURSE CODE	262	SEMESTER	8 th
COURSE TITLE	DERIVATIVES WITH APPLICATIONS IN THE SUPPLY CHAIN OF AGRICULTURAL AND FOOD PRODUCTS		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Lectures		5	5
COURSE TYPE	Scientific area		
PREREQUISITES			
LANGUAGE	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	No		
COURSE WEB PAGE	https://mediasrv.aua.gr/eclass/courses/429/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>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:</p> <ul style="list-style-type: none"> • 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
General competences
<ul style="list-style-type: none"> • Decision-making • Individual/Independent work • Group/Team work

3. COURSE CONTENT

<ul style="list-style-type: none"> • Introduction to Financial Derivatives • Forward Contracts and Futures Contracts • Futures Contracts Market Mechanism • Risk Hedging with Futures Contracts • Forwards and Futures contracts Valuation • Interest Rates and Currency Exchange Rates Futures and Forwards Contracts • Options • Option Properties • Option Strategies

- Option Valuation Methods
- GREEKS
- Interest Rates Options
- SWAPS

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	In class	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	<ul style="list-style-type: none"> • e-class platform • Power-Point slides • Communication with students using e-class and email 	
TEACHING ORGANISATION	<i>Activity</i>	<i>Work Load</i>
	Lectures	60
	Study at home	65
	Course total (25 hours of student work load per ECTS)	125
STUDENTS EVALUATION	Written final exams (100%) including: <ul style="list-style-type: none"> ▪ Multiple choice questions ▪ Solving problems 	

5. BIBLIOGRAPHY

Suggested:

- Hull, J. C. (2017) Fundamentals of Futures and Options Markets. 9th edition, Publisher: Klidarithmos.
- Mylonas, N (2005) Derivative markets and products. Publisher: Dardanos

Scientific journals:

- Journal of Commodity Markets
- Journal of Futures Markets
- European Review of Agricultural Economics
- Journal of Agricultural Economics
- American Journal of Agricultural Economics
- Agricultural Economics
- Australian Journal of Agricultural and Resource Economics