**COURSE LAYOUT**

1. **GENERAL**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SCHOOL** | APPLIED ECONOMICS AND SOCIAL SCIENCES | | | | |
| **DEPARTMENT** | AGRICULTURAL ECONOMICS & RURAL DEVELOPMENT | | | | |
| **STUDY LEVEL** | *Undergraduate* | | | | |
| **COURSE CODE** | **262** | **SEMESTER** | | 8th | |
| **COURSE TITLE** | DERIVATIVES WITH APPLICATIONS IN THE SUPPLY CHAIN OF AGRICULTURAL AND FOOF 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/> | | | | |

1. **LEARNING OUTCOMES**

|  |  |
| --- | --- |
| **Learning Outcomes** | |
| 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 | |
| **General competences** |
| ● Decision-making  ● Individual/Independent work  ● Group/Team work | |

1. **COURSE CONTENT**

|  |
| --- |
| ● 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 |

1. **TEACHING and LEARNING METHODS - Evaluation**

|  |  |
| --- | --- |
| **TEACHING METHOD** | In class |
| **USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES** | * e-class platform * Power-Point slides * Communication with students using e-class and email |
| **TEACHING ORGANISATION** | |  |  | | --- | --- | | *Activity* | *Work Load* | | Lectures | 60 | | Study at home | 65 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | ***Course total***  ***(25 hours of student work load per ECTS)*** | ***125*** | |
| **STUDENTS EVALUATION** | Written final exams (100%) including:   * + - Multiple choice questions     - Solving problems |

1. **BILBIOGRAPHY**

|  |
| --- |
| 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 |