

# **ECTS - Instituto Superior de Contabilidade e Administração do Porto**

## **Degree: Marketing (evening Courses)**

### **Course: Financial Mathematics**

**Academic Year: 2014/2015**

**Academic year: 3**

**Term: Winter Semester**

**Attendance: Mandatory**

**Course Responsible Teacher: Mestre Cláudia Neto**

**Number of Credits (ECTS): 5.0**

Theoretical/Practical Work (hours): 3.0 h

#### **Objectives:**

At the end of the course unit the learner is expected to be able to understand the concepts of interest, future and present values and its practical application. The learner is also expected to analyze, comprehend and resolve routine situations at organizations using the concepts and tools of the financial calculus.

#### **Syllabus:**

- 1- Simple interest system.
- 2- Simple discounting system. Discount in the Bank system.
- 3- Compound interest system: compound interest and discount. Constant Annuities. Leasing.
- 4- Repayment loans. Conventional types of reimbursement.

#### **Objectives:**

Expositive and practical sessions; perform work on presented subjects with tutorial guidance.

#### **Assessment Methods:**

Final exam or continuous evaluation

#### **References:**

Barroso, Maria Nazaré, Couto, Eduardo e Crespo, Nuno  
Cálculo e Instrumentos Financeiros: da prática para a teoria  
Lisboa: Escolar Editora, 2008.  
Cadilhe, Miguel  
Matemática Financeira Aplicada, 3ª Edição, Edições ASA, 1994.  
Chaves C., Guimarães, P., Maciel, E., Ribeiro, J.  
The Mathematics of Finance (Schaum's Outline)  
By: Petr Zima, Robert L. Brown  
Webster, Allen L., Estatística Aplicada à Administração e Economia

**Mestre Cláudia Neto**

S. Mamede Infesta, 30 de Outubro de 2014