



## REFRESHER COURSES

### Quantitative Methods

Quarter: Introductory Course.  
Professor(s): Sergio Vicente.  
Office Hours: 14.45-15.30 or by appointment.

#### SHORT COURSE DESCRIPTION

#### OBJECTIVES

COURSE OBJECTIVES	PROGRAM LEARNING OUTCOMES (see Appendix)										Evaluation Methods/instruments
	1.1	1.2	1.3	1.4	2.1.a	2.1.b	2.2.a	2.2.b	2.3.a	2.3.b	
Understand the idea of the time-value of money.	X	X	X								Exam/Homeworks
Learn techniques to discount cash flows.	X	X	X								Exam/Homeworks
Develop the knowledge required to use Financial Mathematics for the decision-making process inside the firm.	X	X	X								Exam/Homeworks

#### EVALUATION CRITERIA:

- Final Exam: 60%.
- Continuous Evaluation (40%): Homework (30%) and class participation (10%).

#### SUPPORTING TEACHING MATERIAL:

- Class Slides and textbook.

#### OFFICE HOURS:

- 14.45-15.45 or by appointment



## **DETAILED PROGRAM OF THE COURSE**

1. Present Value.
2. Annual Equivalent Rate.
3. Credit Market Instruments.
4. Secondary Markets and Rates of Return.
5. Yield to Maturity.
6. Loans: French Method.
7. Increasing Coupons.

## **BASIC BIBLIOGRAPHY**

### **REFERENCE BOOK**

R.A. Brealey , S.C. Myers and F. Allen: "Principles of Corporate Finance"; McGraw-Hill, 11th Ed.

### **COMPLEMENTARY READINGS**

J. Berk and P. DeMarzo: "Corporate Finance"; Pearson, 3rd Ed.

M. Grinblatt and S. Titman: "Financial Markets and Corporate Strategy". McGraw-Hill, 2nd Ed.