

Course Unit	Option I - Risk Management		Field of study	Management	
Master in	Management - Public Management		School	School of Technology and Management	
Academic Year	2022/2023	Year of study	1	Level	2-1
Type	Semestral	Semester	2	ECTS credits	6.0
Code	5009-518-1205-10-22				
Workload (hours)	162	Contact hours	T -	TP 42	PL -
			TC -	S 3	E -
			OT -	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Ana Paula Carvalho do Monte

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Identify, quantify and manage in an integrated way, risk in financial (Banks and Insurance companies) and non-financial institutions , with particular emphasis on operational, market and credit risk;
2. Apply risk measuring methodologies, such as VaR and others;
3. Outline strategies for hedging (interest rate) risk using derivatives.

### Prerequisites

Not applicable

### Course contents

Background: types of risk and risk factors (financial risk and operational risk) and the Basel Accord. Analysis and measurement of market and operational risk. Analysis and measurement of credit risk. Management of interest rate Risk.

### Course contents (extended version)

1. Introduction
2. The Basel Accord and its implications on risk management in banking and insurance
3. Analysis and measurement of market and operational risks
4. Analysis and measurement of credit risk
5. Interest rate risk management

### Recommended reading

1. Bessis, J. (2015). Risk Management in Banking, 4th Edition. Jonh Wiley and Sons Editors.
2. Jorion, P. (2009). Financial Risk Manager Handbook, 5th Edition. Jonh Wiley and Sons Editors (Finance).
3. Lando, D. (2004). Credit Risk Modeling: Theory and Applications. Princeton University Press.
4. Saunders, A. & Allen, L. (2002). Credit Risk Measurement: New Approaches to Value at Risk and Other Paradigms, 2nd edition. Jonh Wiley and Sons Editors.
5. Saunders, A. & Cornett, M. M. (2017). Financial Institutions Management: A Risk Management Approach, 9th international edition. McGraw-Hill Editions.

### Teaching and learning methods

Theoretical-practical classes with audiovisual resources based on "learning by doing", involving active participation of students through interventions, individual and group works and problem/case solving. Real-life case studies are incorporated into lectures to provide opportunities for students to apply theory into practice in a real world context and to help consolidate the learning outcomes.

### Assessment methods

1. Alternative A - (Regular, Student Worker) (Final, Supplementary)
  - Development Topics - 30% (Work Project, in groups of at most four elements, with presentation and discussion in the classroom.)
  - Practical Work - 30% (to develop within the classroom and/or not, individually or in group.)
  - Work Discussion - 20% (Preparation and discussion of the topics in the classroom. Minimum participation of 60% of classes.)
  - Presentations - 20% (Oral and written presentations of the work developed in class. Self and hetero-evaluation by peers.)
2. Alternative B - (Regular, Student Worker) (Final, Supplementary)
  - Development Topics - 30% (to develop within the classroom and/or not, individually or in group with oral presentation.)
  - Practical Work - 30% (to develop within the classroom and/or not, individually or in group.)
  - Final Written Exam - 40% (About all the contents of the program (all students may choose this alternative). Minimum grade 5 v.)
3. Alternative C - (Regular, Student Worker) (Supplementary, Special)
  - Final Written Exam - 100% (All students may choose this alternative (even though they had chosen other in the first call))

### Language of instruction

1. Portuguese
2. English

### Electronic validation

Ana Paula Carvalho do Monte	António Borges Fernandes	Paula Odete Fernandes	José Carlos Rufino Amaro
08-03-2023	17-03-2023	18-03-2023	25-03-2023