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COURSE DESCRIPTION

1. Information about the programme

1.1 Institution of higher education	Alexandru Ioan Cuza University of Iasi
1.2 Faculty	Faculty of Economics and Business Administration
1.3 Department	Department of Finance, Money and Public Administration
1.4 Field of study	Finance
1.5 Level	Master
1.6 Study programme/ Qualification	Finance and Risk Management

2. Information about the course

2.1 Course name			Market Risk Management				
2.2 Course coording	nator		Prof. Bogdan Căpraru				
2.3 Seminar coord	inato	r	Prof. Bogdan Căpraru				
2.4 Year of study	2	2.5 Semester	3	2.6 Type of assessment	Е	2.7 Course status	Е

^{*} C – Compulsory / E - Elective

3. Total estimated time (hours alloted to teaching activities per semester)

3.1 Number of hours per week	3	of which: 3.2 lecture	2	3.3 seminar/lab	1
3.4 Number of hours in the curriculum	42	of which: 3.5 lecture	28	3.6 seminar/lab	14
Time distribution					
Study of the textbook, coursebook, bibliography and lecture notes					
Additional research in the library, online and on the field					11
Preparation of seminars/labs, homework, projects, portfolios and essays					37
Tutorials					8
Assessment					2
Other activities					

3.7 Total number of self-study hours	83
3.8 Total number of hours per semester	125
3.9 Number of credits	5

4. Prerequisites (if applicable)

4.1 Curriculum-based	
4.2 Competence-based	

5. Conditions (if applicable)

5.1 For lectures	General conduct and behavior Students are expected to conduct themselves with consideration and respect for the needs of their fellow students and teaching
3.1 Torrectures	staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students may be asked to leave the class.







	Attendance Your regular and punctual attendance at lectures and seminars is expected in this course.
5.2 For seminars / labs	General conduct and behavior Students are expected to conduct themselves with consideration and respect for the needs of their fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students may be asked to leave the class. Attendance Attendance is compulsory at minimum 80% of the seminars. In case of absence, the instructor should be informed in advance.

6. Specific competencies

0. Sp	ecinc competencies
Professional competencies	C1. Analysis of the theoretical and practical aspects of financial markets, models, instruments that are used in the management of risks. C2. Adequate use of mathematical and statistical concepts, methods and techniques in assessing risks and performing independent research in finance. C3. Evaluation of the main risk factors for organizations and financial systems. C4. Implementing effective financial management and reporting within the business environment to ensure value creation. C5. Ensuring effective and appropriate governance and management of risk within an organization, in the context of an overall ethical framework.
Transversal competencies	CT1. Application of the professional ethical norms and values in decision-making and undertaking of complex professional tasks, independently or within a team. CT2. Human resources planning within a group or organization, in the context of awareness of own responsibility for professional outcomes. CT3. Assuming the need for continuous development to create prerequisites for career progression and adapt own professional and managerial competencies to the economic dynamics.

7. Course objectives (provided by the specific competencies grid)

7.1. Main objective	This course will discuss the best practices in developing an effective market risk management infrastructure to manage market risk within the bank. Methods, instruments and activities used to identify, measure, control and monitor market risk will be discussed with special attention paid to implementation issues for large and small banks in both developed and emerging markets. The objective is to help build a world class market risk management capability which not only minimizes risk but also maximizes profit and optimizes capital allocation decisions for the bank.
7.2. Specific objectives	 By the end of this course, it is expected that students will: Understand the latest developments in banking regulations that are the main driving force behind changes in our approaches to risk measurement Outline the foundations of market risk analysis and the basic models for assessing market risk Describe the market risk measurement techniques that are used daily in the front and middle offices of banks; particular emphasis is placed on the appraisal of the covariance matrices that are used to measure the market risk of portfolios Be able to build various Value-at-Risk (VaR) models for market risk for international portfolios of equities, FX, interest rate products, commodities, derivatives etc.





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8. Content

8.1	Lectures	Teaching methods	Observations
1.	Introduction to Market Risk Management	Lecturing and class participation	2 hrs: AS(1)
2.	The Characteristics of Markets and Market Risk & Capital Requirements	Lecturing and class participation	2 hrs: AS(2), A(IV.1.1-2)
3.	VaR: Definition and Measurement	Lecturing and class participation	2 hrs: AS(3.1), A(IV.1.4-8)
4.	VaR Models	Lecturing and class participation	2 hrs: AS (3.2-3), A(IV.1.9)
5.	Advanced VaR models	Lecturing and class participation	2 hrs: A (IV.4), AS (3)
6.	Advanced VaR models	Lecturing and class participation	2 hrs: A (IV.5), AS (3)
7.	Applied market risk: Equities and foreign exchange	Lecturing and class participation	2 hrs: AS (4.3)
8.	Applied market risk: Equities and foreign exchange	Lecturing and class participation	2 hrs: AS (4.3)
9.	Applied market risk: Fixed income products	Lecturing and class participation	2 hrs: AS (4.2)
10.	Applied market risk: Fixed income products	Lecturing and class participation	2 hrs: AS (4.2)
11.	Applied market risk: Equity and interest rate derivatives	Lecturing and class participation	2 hrs: AS (4.4)
12.	Applied market risk: Equity and interest rate derivatives	Lecturing and class participation	2 hrs: AS (4.4)
13.	Applied market risk: Fund management, banking & non-financial firms	Lecturing and class participation	2 hrs: AS (7,8)
14.	Applied market risk: Fund management, banking & non-financial firms	Lecturing and class participation	2 hrs: AS (7,8)

Bibliography Main readings:

- Alexander, C. (2009), Market Risk Analysis, Volume IV: Value at Risk Models, Wiley. (A)
- Alexander, C., Sheedy, E. (2015), The Professional Risk Manager's Handbook: A Comprehensive Guide to Current Theory and Best Practices, Volume III: Book 3 – Market Risk, Asset Liability Management and Funds Transfer Pricing, www.prmia.org. (AS)

Additional readings:

■ Dowd, K. (2005), Measuring Market Risk, 2nd Edition, Wiley Finance. (D) Other readings such as cases, simulations, journal papers, press articles will be provided periodically throughout the course via FEAA eLearning platform, e-mail or handed-in in class.







8.2	Seminars / Labs	Teaching methods	Observations (hours & readings)
1.	The characteristics of markets and market risk & capital requirements	Small group discussion, Simulation, Random calling	2 hrs: AS(1), A(IV.1.1-2)
2.	VaR models	Small group discussion, Simulation, Random calling	2 hrs: AS (3.1), A(IV.1.9)
3.	VaR models	Small group discussion, 2 Presentations (
4.	Advanced VaR models	R models Small group discussion, Presentations	
5.	Applied market risk: Equities and foreign exchange	Small group discussion, Presentations	2 hrs: AS (4.3-4)
6.	Applied market risk: Fixed income products Small group discussion, Presentations		2 hrs: AS (4.2)
7.	7. Applied market risk: Fund management, banking & non-financial firms Small group discussion, Presentations		2 hrs: AS (7,8)

Bibliography Main readings:

- Alexander, C. (2009), Market Risk Analysis, Volume IV: Value at Risk Models, Wiley. (A)
- Alexander, C., Sheedy, E. (2015), The Professional Risk Manager's Handbook: A Comprehensive Guide to Current Theory and Best Practices, Volume III: Book 3 – Market Risk, Asset Liability Management and Funds Transfer Pricing, www.prmia.org. (AS)

Additional readings:

- Dowd, K. (2005), Measuring Market Risk, 2nd Edition, Wiley Finance. (D)
- PRMIA Case studies (http://www.prmia.org/risk-resources/case-studies)

Other readings such as cases, simulations, journal papers, press articles will be provided periodically throughout the course via FEAA eLearning platform, e-mail or handed-in in class.

9. Corroboration of the course content with the expectations of community representatives, professional associations and representative employers from the programme's related field

This course provides students with the core knowledge, skills, and abilities that are generally accepted and applied by finance and investments professionals throughout the world. Topics are selected in accordance to the requirements of Charted Financial Analyst (CFA) and Professional Risk Manager (PRM) world-leading certifications for finance and risk management, to offer the adequate preparation for CFA and PRM exams. The course content is correlated to that of similar courses taught at renowned universities and is continuously updated based on the feedback of students and alumni.

Moreover, this is a student-centered course that follows the best practices of learning and teaching in undergraduate education through the adoption of a variety of active-learning instructional methods.





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10. Assessment

10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in final grade (%)
Coverage: topics covered in the lectures from week 1 to week 14.		
Format: Multiple choice questions + Calculation questions+ Open questions.	Final exam (multiple- choice, true-false and open questions)	60%
Criteria: Clarity of explanation and Accuracy of answers		
Active attitude during class, giving comments to fellow students etc.	Active Participation	10%
Presentation and Accuracy of solutions	Case study and Individual assignments	30%
	Coverage: topics covered in the lectures from week 1 to week 14. Format: Multiple choice questions + Calculation questions+ Open questions. Criteria: Clarity of explanation and Accuracy of answers Active attitude during class, giving comments to fellow students etc. Presentation and Accuracy of	Coverage: topics covered in the lectures from week 1 to week 14. Format: Multiple choice questions + Calculation questions + Open questions. Criteria: Clarity of explanation and Accuracy of answers Active attitude during class, giving comments to fellow students etc. Presentation and Accuracy of methods Final exam (multiple-choice, true-false and open questions) Active Participation Case study and

• A minimum passing grade of 5, computed as $P = 0.40 \ A + 0.60 \ E$, where P – final grade, A – Active participation and individual Assignments, E – final exam grade.

Date Course Coordinator Seminar Coordinator 14.09.2020 Prof. Bogdan CĂPRARU Prof. Bogdan CĂPRARU

Date of approval Head of Department 23.09.2020 Prof. Ovidiu STOICA



