



COURSE DESCRIPTION

1. Information about the programme

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| 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

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|-------------------------|--|--------------|---|------------------------|-----|-------------------|---|
| 2.1 Course name | Information Systems And Business Processes | | | | | | |
| 2.2 Course coordinator | Vasile-Daniel PĂVĂLOAIA (Prof., PhD) | | | | | | |
| 2.3 Seminar coordinator | Vasile-Daniel PĂVĂLOAIA (Prof., PhD) | | | | | | |
| 2.4 Year of study | 1 | 2.5 Semester | 1 | 2.6 Type of assessment | EVP | 2.7 Course status | E |

* C – Compulsory / E - Elective

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

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|---|----|-----------------------|----|-----------------|-----|
| 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 | | | | | hrs |
| Study of the textbook, course book, bibliography and lecture notes | | | | | 26 |
| Additional research in the library, online and on the field | | | | | 12 |
| Preparation of seminars/labs, homework, projects, portfolios and essays | | | | | 37 |
| Tutorials | | | | | 6 |
| 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)

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| 4.1 Curriculum-based | - |
| 4.2 Competence-based | - |

5. Conditions (if applicable)

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|-------------------------|--------------------------------------|
| 5.1 For lectures | N/A |
| 5.2 For seminars / labs | Computer lab with MS Dynamics AXAPTA |



**6. Specific competencies**

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|----------------------------------|---|
| Professional competencies | <p>C1. Analysis of the theoretical and practical aspects of financial markets, models, instruments that are used in the management of risks.</p> <p>C2. Adequate use of mathematical and statistical concepts, methods and techniques in assessing risks and performing independent research in finance.(1,5 credits)</p> <p>C3. Evaluation of the main risk factors for organizations and financial systems.</p> <p>C4. Implementing effective financial management and reporting within the business environment to ensure value creation.(0,5 credits)</p> <p>C5. Ensuring effective and appropriate governance and management of risk within an organization, in the context of an overall ethical framework.(1,5 credits)</p> |
| Transversal competencies | <p>CT1. Application of the professional ethical norms and values in decision-making and undertaking of complex professional tasks, independently or within a team.(1 credits)</p> <p>CT2. Human resources planning within a group or organization, in the context of awareness of own responsibility for professional outcomes.</p> <p>CT3. Assuming the need for continuous development to create prerequisites for career progression and adapt own professional and managerial competencies to the economic dynamics.(0,5 credits)</p> |

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

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| 7.1. Main objective | <p>The students will acquire general information about the integrated information systems, also known as ERP; ill learn about the decision and selection process of ERP products, based on a good knowledge of the market; will gain strong abilities related to the ERP adoption projects, the management of ERP projects and implementation methodologies. There will be held general discussions on organizational transformations generated by the information redesign of the enterprise information integration.</p> <p>During the laboratories, the students will learn how to use ERP products in order to solve business problems involving different business processes. They will use one of the top ERP software Microsoft Dynamics Axapta and will have a preview of another ERP product: WinMentor Enterprise. For the purpose of business process modelling, the students will be trained on using BET, a web-based business modelling application provided by Avantera.</p> |
| 7.2. Specific objectives | <p>On completion of the course, the students will be able:</p> <ul style="list-style-type: none"> • to understand the usefulness of information systems • to identify the main categories of information systems • to know the defining aspects of business processes • to initiate themselves in computer modelling of the financial activity of an institution using modelling software • to apply the modelling software for enterprise modelling • to identify the financial aspects of the enterprise which allow modelling • to take steps into modelling the financial aspects of enterprise • to critically evaluate the results of new research in information systems and business processes • to relate to the members of a team to achieve a group project • to apply creative techniques specific research information systems • to be able to act independently and creatively in addressing and solving problems • to assess objectively and constructively critical state of an enterprise information system |



**8. Content**

| 8.1 | Lectures | Teaching methods | Observations (hours & readings) |
|-----|---|----------------------|---------------------------------|
| 1. | Evolution of information systems | Interactive lectures | 2hrs, T0 - Chapter 1 |
| 2. | Enterprise Resource Planning – History and evolution | Interactive lectures | 4hrs, T0 - Chapter 2 |
| 3. | Extensions of ERP: SCM, CRM | Interactive lectures | 6hrs, T2 - Chapters 11, 12 |
| 4. | Business Processes : Procurement process, Production process, Integration process | Interactive lectures | 7hrs, T1 - Chapters 3, 5, 6 |
| 5. | Organizational change and Business process reengineering | Interactive lectures | 7hrs, T2 - Chapter 9 |
| 6. | Theoretical test | Blackboard platform | 2hrs |

Bibliography**Main readings:**

- T0 – Hurbean, L., Fotache, D., Păvăloaia, V.D, Modern Information Systems. The ERP and its Functions, Vol. 1, LAP Lambert Academic Publishing, Saarbruchen, 2016
- T1 - Simha R. Magal, Jeffrey Word, Essentials of Business Processes and Information Systems, Willey 2009
- T2 - Luvai Motiwalla, Jeffrey Thompson, Enterprise Systems for Management: International Version, 2/E, Pearson Higher Education 2009-2012 (available in FEAA library)

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. | Introduction to Microsoft Dynamics AXAPTA | Presentation Discussions | 1hrs, T4 |
| 2. | The purchase process in Microsoft Dynamics AXAPTA | Presentation Discussions Case studies/Problem solving | 1hrs, T4 |
| 3. | The sale process in Microsoft Dynamics AXAPTA (1) | Presentation Discussions Case studies/Problem solving | 1hrs, T4 |
| 4. | The sale process in Microsoft Dynamics AXAPTA (2) | Presentation Discussions Case studies/Problem solving | 1hrs, T4 |
| 5. | Advanced Sales and Distributions in Microsoft Dynamics AXAPTA | Presentation Discussions Case studies/Problem solving | 1hrs, T4 |
| 6. | Summary exercise: Acquisition-Sale process | Problem solving | 1hrs, T4 |
| 7. | HR in Microsoft Dynamics AXAPTA (1) | Presentation Discussions Case studies/Problem solving | 1hrs, T3 |
| 8. | HR in Microsoft Dynamics AXAPTA (2) | Presentation Discussions Case studies/Problem solving | 1hrs, T3 |





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| 9. | Payroll in Microsoft Dynamics AXAPTA | Presentation Discussions Case studies/Problem solving | 1hrs, T3 |
| 10. | Review + laboratory skills evaluation | Discussions Problem solving | 1hrs, T4,T3 |
| 11. | Microsoft Dynamics AXAPTA – Practical evaluation | Presentation Discussions Case studies | 1hrs, T4,T3 |
| 12. | The use of Avantera BET Modelling software in business process (1) | Presentation Discussions Case studies/Problem solving | 1hrs, T5 |
| 13. | The use of Avantera BET Modelling software in business process (2) | Presentation Discussions Case studies/Problem solving | 1hrs, T5 |
| 14 | Preview of manufacturing process in WinMentor Enterprise. | Presentation Discussions | 1hrs, T6 |

Bibliography**Laboratory support**

T3 - Luszczak, Andreas - Exercise Guide Using Microsoft Dynamics AX 2012, Springer Vieweg, 2nd Edition 2012, ISBN 978-3-8348-1742-6

T4 - Fotache, D., Hurbean, L., Dospinescu, O., Păvăloaia, D. - Procese organizaționale și integrare informațională. Enterprise Resource Planning, Ed. Universității Al.I.Cuza Iași, 2010 (available in Feaa library):

T5 - Fotache, D., Hurbean, L., Pavaloaia, D., Dospinescu, O.- Platforme integrate pentru afaceri. ERP, ISBN 978-973-709-673-9, Ed. Economica, Bucuresti, 2013

T6 - http://portal.winmentor.ro/winmentor/down/Schema_functionala_productie.pdf

Additional readings:

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 Chartered 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.

10. Assessment



| Type of activity | 10.1 Assessment criteria | 10.2 Assessment methods | 10.3 Weight in final grade (%) |
|--|---|--|--------------------------------|
| 10.4 Lectures | The correctness of answers provided | Theoretical exam (multiple-choice, true-false) using the Blackboard platform | 30% |
| | Quality of essay and presentation. Questions, discussions, power of arguments | Individual Essay elaborated on a subject designated by the course coordinator during the first 2 weeks of the semester. The essay will be presented in the last weeks according to the schedule | 40% |
| 10.5 Labs | Quality and complexity of solving the problem | Laboratory practical evaluation will take part during the laboratory hours in one of the weeks, according with the course calendar. The students will be solving problems similar to those presented and practiced during the laboratories. They will be using Microsoft Dynamics AXAPTA for the purpose of solving the problems. | 30% |
| 10.6 Minimum performance standard – A passing grade of 5.00, computed as presented below: | | | |
| 30%*Laboratory practical evaluation + 30%*Theoretical Exam (Blackboard) + 40%*Individual Essay | | | |

Date
09.09.2023

Course Coordinator
Prof. Vasile-Daniel PĂVĂLOAIA

Seminar Coordinator
Prof. Vasile-Daniel PĂVĂLOAIA

Date of approval
26.09.2023

Head of Department
Prof. dr. Ovidiu STOICA

