

SYLLABUS

1. Program Data

1.1 Higher education institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ECONOMICS
1.3 Department	MANAGEMENT-MARKETING DEPARTMENT
1.4 Field of study	MANAGEMENT
1.5 Cycle of studies	MASTER'S DEGREE (CYCLE II)
1.6 Study Programme/Qualification	ADVANCED MANAGEMENT

2. Data about the discipline

2.1 Name of the discipline	<i>Information system for advanced management</i> – FSTE-0152						
2.2 Course Activity Holder	Assoc. Prof. Horia DEMIAN, Ph.D.						
2.3 Seminar Activity Holder	Assoc. Prof. Horia DEMIAN, Ph.D.						
2.4 Year of study	II	2.4 Year of study	II	2.4 Year of study	II	2.4 Year of study	II

(i) imposed; (o) optional; (F) Optional

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

3.1 Number of hours per week	3	of which: 3.2 course	1	3.3 Seminar/laboratory	.../2
3.4 Total hours in the curriculum	42	of which: 3.5 course	14	3.6 Seminar/laboratory	/28
Time Fund Distribution Hours					 hours
Study by textbook, course material, bibliography and notes					46 hours
Additional documentation in the library, on specialized electronic platforms and in the field					28 hours
Preparation of seminars/laboratories, assignments, papers, portfolios and essays					28 hours
Tutorials					2 hours
Reviews					4 hours
Other activities.....					- hours
3.7 Total hours of individual study	108				
3.9 Total hours per semester	150				
3.10 Number of credits	6				

4. Preconditions (where applicable)

4.1 Curriculum	-
4.2 Competences	-

5. Conditions (where applicable)

5.1. Course Course	-
5.2. Seminar/laboratory	-

6. Specific competences acquired	
Professional skills	1 Knowledge of management theories, business strategies, organisational structures 8 Competence in use of ICT tools for supply chain, cost analysis
Transversal competences	5.Organizational & planning skills 7. Problem-solving
ESCO Skills/ Competencies	▪ Report on the overall management of a business. ▪ Use dedicated software for data analysis. ▪ Think analytically.

6. 2. Expected learning outcomes	
Knowledge	The student/graduate identifies the object of study of innovation techniques and entrepreneurial behavior, based on advanced knowledge of the innovative tools used to start and develop a business.
Skills	The student/graduate develops skills in using innovation techniques to solve complex economic-managerial problems within organizations.
Responsibilities and autonomy	The student/graduate demonstrates entrepreneurial behavior, ability to make professional decisions in resource management and business development using innovation techniques

7. Objectives of the discipline (resulting from the grid of specific competences acquired)

7.1 General objective of the discipline	▪ Using databases
7.2 Specific objectives	▪ - <i>Understanding data types</i>

8. Contents

8.1 Course (C)	Teaching methods	Observations
8.1.1. Explanation of the main concepts existing in a database.	Debate/Lecture	
8.1.2. Data types in Microsoft SQL Server	Debate/Lecture	
8.1.3. Expressions and functions	Debate/Lecture	
8.1.4. Relational expressions	Debate/Lecture	
8.1.5. Design and implementation of a database.	Debate/Lecture	
8.1.6. Types of relationships between tables in a database. Constraints. Default values. Null value.	Debate/Lecture	
8.1.7. Querying databases. Command SELECT... FOR.. WHERE.	Debate/Lecture	
8.1.8. Use of JOIN operators, Group BY, Having, Union clause.	Debate/Lecture	
8.1.9. Use of views. Granting of rights.	Debate/Lecture	
8.1.10. Perform database query using Microsoft Excel	Online	
8.1.11. Using Tables in Excel, Sorting, Filtering Data	Debate/Lecture	
8.1.12. Using Pivot Table	Debate/Lecture	
Bibliography https://docs.microsoft.com/en-us/sql/sql-server/?view=sql-server-ver15		
8.3 Laboratory (L)		
8.3.1. <i>Creating a database. Saving files related to the database.</i>	Case Study, Debate, Simulation	
8.3.2. <i>Exercises on writing sentences</i>	Case Study, Debate, Simulation	
8.3.3. <i>Using functions within expressions</i>	Case Study, Debate, Simulation	
8.3.4. <i>Relational expressions</i>	Case Study, Debate, Simulation	
8.3.5. <i>Design and implementation of a database.</i>	Case Study, Debate, Simulation	
8.3.6. <i>Types of relationships between tables in a database. Constraints. Default values. Null value.</i>	Case Study, Debate, Simulation	
8.3.7. <i>Querying databases. Command SELECT... FOR.. WHERE.</i>	Case Study, Debate, Simulation	
8.3.8. <i>Use of JOIN operators, Group BY, Having, Union clause</i>	Case Study, Debate, Simulation	
8.3.9. <i>Use of views. Granting of rights</i>	Case Study, Debate, Simulation	
8.3.10. <i>. Perform database query using Microsoft Excel</i>	Case Study, Debate, Simulation	
8.3.11. <i>Using Tables in Excel, Sorting, Filtering Data</i>	Case Study, Debate, Simulation	
8.3.12. <i>Using Pivot Table</i>	Case Study, Debate, Simulation	
Bibliography		

9. Corroboration of the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and employers representative in the field related to the program

- This course comes in support of the activity of data analysis and interpretation.

10. Rating

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in the final grade
10.4 Course (C)	• Knowledge and full understanding of the content of the discipline • Correctly solving all items in the quiz and answers	Online – the e.uoradea.ro platform	• 100%
10.5 Seminar(s)	•		•
10.6 Laboratory (L)	-	-	-
10.7 Project (P)	-	-	-
10.8 Practical Work (P)	-	-	-
10.9 Minimum Performance Standard			
▪ Knowledge and understanding of the course content at the level of essential ideas ▪ Obtaining at least 5 points (out of 10) for the seminar activity ▪ Obtaining at least 5 points (out of 10) for exam answers ▪ Obtaining at least 5 points (out of 10) as a final grade			

Date of completion

18.09.2026

Course holder:

Assoc. Prof. Horia Demian, Ph.D.
(teaching degree, name, surname and signature)

Email address:
horia_demian@yahoo.com

Seminar/laboratory/practical work holder, etc.:

Assoc. Prof. Horia Demian, Ph.D.
(teaching degree, name, surname and signature)

Email address:
horia_demian@yahoo.com

**Director of Department,
Prof. univ. dr.habil. Maria-Madela ABRUDAN**

**Date of approval in
the Department:**

25.09.2026

Contact details:

University of Oradea, Faculty of Economic Sciences, Department of Management-Marketing
Str. Universității, nr. 1, Building Building F, 3rd floor, room F 303
Postal code 410087, Oradea, county. Bihor, Romania
Tel.: 0259-408796.; Fax: 0259-408409
Email: steconomice@uoradea.ro
Website: <http://steconomiceuoradea.ro>

Dean,

Prof.univ.dr.habil. Diana SABĂU-POPA

**Date of approval in
the Council of the
Faculty of Economics:**

28.09.2026

Contact details:

University of Oradea, Faculty of Economic Sciences – Dean's Office
Str. Universității, nr. 1
Postal code 410087, Oradea, county. Bihor, Romania
Tel.: 0259-408109, 0259-408407; Fax: 0259-408409
Email: steconomice@uoradea.ro
Website: <http://steconomiceuoradea.ro>