COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	*KNITTING AND CLOTHING TECHNOLOGY*

I. Course Name: Management information systems

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI-0404	VI	5	2	-	2	-

III. Course coordinator (title, name, surname, e-mail):

IV. Course objectives

The course provides the background necessary to understand the role of information systems in organizations and to use computer tools and technology to solve business problems. Topics include the organizational and technical foundations of information systems, information systems design theory, and fundamental database principles. Microsoft Access is used to demonstrate selected concepts.

V. Course content	**No. of hours**
V.1. Lecture (chapters/subchapters and paragraphs)	
Information Systems: purpose and components Data vs. information vs. knowledge Information and information quality Information classification Information flow and information processing Information Systems and the System Development Life Cycle (SDLC) The role of MIS and core functions of MIS	8
Computer systems: introduction and core concepts Components of computer systems Classification of computer systems Design and implementation of computer systems How technology is changing work and organizations	4
Databases: fundamental concepts Microsoft Access databases Creating a database in Access Working with tables Working with forms Working with reports Working with queries	16
V.2. Laboratory	
1. Examine fundamental database concepts and explore the Microsoft Access environment; design a simple database in Microsoft Access.	**2**
2. Build a new database with related tables. Manage the data in a table..	**10**
3. Design a form.	**8**
4. Generate a report.	**4**
5. Query a database using different methods.	**4**

VI. Bibliography

Bibliografie

1. Cozgarea, G. (2018). Baze de date. Microsoft Access. București: Editura ASE.
2. Dănăilă, I., & Constantinescu, R. (2020). ECDL. Baze de date. Microsoft Access 2019. București: Editura ECDL România.
3. Constantinescu, R., & Dănăilă, I. (2022). *ICDL. Baze de date. Microsoft Access 365* [manual electronic].

București: ECDL România
4. Dan, I. S. (2021). *Informatică aplicată – Baze de date Access. Îndrumător de laborator*. Cluj-Napoca: Universitatea Tehnică din Cluj-Napoca.
5. Dulu, A. (2004). Baze de date Access. ECDL modul 5. București: Andreco Educational Grup.
6. Gavotă, M. (2001). Baze de date. București: Editura SNSPA.
7. Indrie, L. (2025). Sisteme informaționale pentru management. Note de curs. Oradea: Universitatea din Oradea, platforma e-learning.
8. Johnson, S. (2008). Microsoft Office Access 2007. București: Editura Nicolescu.
9. Lungu, I., Sabău, Gh., Velicanu, M., Muntean, M., Ionescu, S., Posdarie, E., & Sandu, D. (2003). Sisteme informatice. Analiză, proiectare și implementare. București: Editura Economică.
10. Mureșan, M., & Ilie, E. (2010). Access 2007. Aplicații economice (meniuri și comenzi practice). București: Editura Ideea Europeană.
11. Militaru, Gh. (2004). Sisteme informatice pentru management. București: Editura Bic All.
12. Nicolescu, O. (coord.). (2001). Sistemul informațional managerial al organizației. București: Editura Economică.

VII. Grading criteria

Activities	Assesment	% of final grade
Exam	Quizzes 1. **Requirements to obtain the minimum passing grade** For grade 5: at least 10 correct answers. 2. **Requirements to obtain the maximum grade** For grade 10: 20 correct answers.	70%
Seminar/Laboratory/Project	Students will submit an assignment each week, through the University of Oradea e-learning platform. The evaluation of the laboratory activity will be based on weekly assignments (15%) and on active participation in discussions (15%).	30%

VIII. Learning outcomes:

Upon completion of the course, students will be able to:

- distinguish and explain the differences between data, information and knowledge;
- describe the impact of Information Systems on basic business processes and explain the difference between functional and cross-functional information flows;
- explain the importance of implementing security measures for business information systems;
- identify and describe the relationships among entities and attributes in a database management system and apply the principles of cardinality;
- examine fundamental database concepts and design simple relational databases;
- create, modify and manage databases and their objects (tables, forms, queries and reports) using Microsoft Access;
- use information systems to support managerial decision-making processes.

Course coordinator,
Assoc.Prof. Dr. Liliana Indrie