DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Academic institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	FORESTRY AND FOREST ENGINEERING
1.4 Field of study	FORESTRY
1.5 Cycle of study	BACHELOR
1.6 Study programme/Qualification	FORESTRY/ENGINEER

2. Information on the discipline

2.1 Name of discipline			IN	INFORMATICS				
2.2 Course holder			Pro	Prof. PhD. Eng. CURILĂ MIRCEA				
2.3 Seminar/Laboratory/Project holder			As	sist.	PhD. ŞENDRUŢIU (GABRII	ELA ROXANA	
2.4 Year of study	I	2.5 Semeste	er	I	2.6 Type of evaluation	Exam	2.7 Regime of discipline	С

⁽C) Compulsory; (O) Optional; (E) Elective

3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	4	out of which: 3.2	2	out of which 3.3	2
		course		seminar/laboratory/project	
3.4 Total hours in the curriculum	56	out of which: 3.5	28	out of which 3.6	28
		course		seminar/laboratory/project	
Time allotment					h
Study assisted by manual, course support, bibliography and notes					15
Additional documentation in the library/ on specialised electronic platforms and in the field					10
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					10
Tutorship					5
Examinations					4
Other activities					-

3.7 Total hours of individual	44	
study		
3.9 Total hours per semester	100	
3.10 Number of credits	4	

4. Pre-requisites (where appropriate)

4.1 curriculum	-
4.2 competences	-

5. Conditions (where appropriate)

5.1. related to course	projector
5.2. related to	
seminar/laboratory/ project	

6. Spec	rific competences acquired
Professional competences	C5.1 Definition and use of specific engineering terminology in connection with multidisciplinary terminology specific to the field of environmental engineering C4.3 Hierarchy of information for compiling and completing databases in the field of biotechnical and ecological systems
Transversal competences	CT1. Identifying and compliancing the norms of professional ethics and deontology, assuming the responsibilities for the decisions taken and the related risks CT3. Efficient use of information sources and of assisted communication and professional training resources (portals, Internet, specialized software applications, databases, online courses, etc.) both in Romanian and in an international language

7.Objectives of discipline (comi	ing from the specific competencesacquired)
7.1 General objective	The courses cover the creation and management of relational databases using the Microsoft Access application. For this purpose, the construction of tables containing database information, the creation of forms that facilitate data entry and examination, queries for selecting and sorting data from tables, preparing reports for examining and printing information from the database and defining the relationships between tables for build complex forms, reports and queries. Theoretical notions presented in the course will be practically exemplified in the laboratory classes.
7.2 Specific objectives	1. Theoretical knowledge - Knowledge and understanding - Assimilation of basic concepts for approaching databases in the context of the relational model, - Acquiring knowledge about techniques and methods for designing applications with relational databases 2. Acquired skills - Explanation and interpretation - Explanation and interpretation of the database, projects, processes, as well as the theoretical and practical contents of the database - Development of the capacity to evaluate the results of a requirements analysis - Development of the capacity to evaluate the performance of a database 3. Acquired abilities - Instrumental-applied - Training skills to build conceptual and logical models - Designing tables - Establishing relationships between tables - Design of forms - Designing interrogation reports - Acquiring the use of relational database management systems in the context of current trends in the field. 4. Attitudinal - Formation of a positive and responsible behavior both for the economic importance and for the environment. - Creative capitalization of one's own potential in student scientific activities (participation in scientific symposia, articles in academic publications). - Awareness of the importance of training during the semester to achieve good and lasting results. - Awareness of the importance of one's own search, documentation and research related to learning. - Team spirit. - Cultivating a discipline of work done correctly and on time

8. Contents*/

8. Contents*/	36.4.1.0.1.	NT C
8.1 Course	Methods of teaching	No. of
Davis medians all and detalers.		hours/Remarks
Basic notions about databases		2
The component parts of an Access database		2
Tables. Forms. Queries. Reports.	_	
Creating a new database in Access		
Creating a database from a template		2
Creating an empty database		
Creating tables in a database		
Create a table in Datasheet view mode		2
Adding fields in Datasheet view mode		
Create a table in Design view		
The data type of a field and its properties		
Setting the primary key		
Creating a table using a template		2
Creating a new table by importing or linking to external		
data		
Create a table based on a SharePoint list		
Relationships between tables		
Creating a table relationship		
Modifying a table relationship	The course is	2
Imposing referential integrity	presented to students	
Creating a simple form	in the form of a	
Field List panel	lecture. The video	
Adding fields to a form or report using the Field List	projector and the	
Panel		2
	laptop are used to	
Insert in a form or report a title, a logo, the page	present the slides that outline the mentioned	
number		
Adding fields to a form or report in Design view	course elements. Thus,	2
Moving and resizing controls	the lecture allows	2
Add a text box control to a form or report	student intervention for	
Create a checklist using a list box or a combo box	a better understanding	
Display Yes / No values using check boxes, option	of the notions	2
buttons, and toggle buttons	presented by the	
Searching for information in a database	professor	
Browsing records		
Search for specific records		2
Finding and replacing data in a table		
Finding and replacing data in a form		
Sort records		
Sort a report		2
Sort a table, query, or form		
Filtering records		
Ordinary filters		
Selection-based filters		2
Filter by form		
Complex filtration		
Finding records using a query	1	
Create a simple query		2
Query criteria		
` •	+	
Create a simple report		2
Create a report using the Report tool		2
Create a report using the Report wizard		

Creating labels using the Label wizard	
Create a report using the Blank Report tool	
Establish report details in Appearance view	
Establish report details in Design view	
Adding fields from the Field List panel	2
Adding controls to the report	
Viewing the report	
Print the report	

Bibliography

- 1. Mircea Curilă Applied Informatics, University of Oradea, 2015.
- 2. Mircea Curilă, Adrian Hava Database management with Access, University of Oradea Publishing House, 2008.
- 3. Roger Jennings All About Microsoft Access 2000, Theory 2000 Ed.
- 4. Joe Habracken Access 2002 for beginners, Teora Publishing House 2002.

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10. Sort records. Sort a report, table, query and form. 11. Filtering records. 2		similar to those	2
Sort a report, table, query and form. 11. Filtering records.	and form.	presented, being	
Sort a report, table, query and form. 11. Filtering records.	10. Sort records.	assisted during this	2
	Sort a report, table, query and form.	time.	2
Ordinary filters, based on selection, by form,	11. Filtering records.		
	Ordinary filters, based on selection, by form,		2
complex.	complex.		
12. Finding records using a query.	12. Finding records using a query.		2
Create a simple query.			2
13. Create a report using the Report tool and the Report			
wizard.			2
Creating labels using the Label wizard.	Creating labels using the Label wizard.		
14 Create a report using the Incomplete Report tool			2
View and Print the report.	1 1		<u> </u>

Bibliography

- 1. Mircea Curilă Applied Informatics, University of Oradea, 2015.
- 2. Mircea Curilă, Adrian Hava Database management with Access, University of Oradea Publishing House, 2008.

- 3. Roger Jennings All About Microsoft Access 2000, Theory 2000 Ed.
- 4. Joe Habracken Access 2002 for beginners, Teora Publishing House 2002.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

The content of the discipline is found in the curriculum of the specialization of Forestry and from other university centers that have accredited this specialization.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation	10.3 Percentage		
		methods	of the final grade		
10.4 Course	In order to obtain grade 5, the following conditions must be met: - obtaining at least a grade of 5 in the laboratory test; - knowledge of the basic notions presented in the course. In order to obtain grades 6, 7, 8 or 9, the students will present two subjects extracted from the package prepared with subjects that contain notions of course. Depending on the ability to understand and describe the respective notions, they receive the corresponding grade. In order to obtain a grade of 10, the following conditions must be met: - obtaining a grade of 10 in the laboratory test; - knowledge of all the topics presented in the course.	Oral	70%		
10.5 Seminar					
10.6 Laboratory		Practically	30%		
10.7 Project					
10.8 Minimum standard of performance					
Knowledge and unders	tanding of courses at the level of esser	ntial principles and re	sults		

Date of completion Signature of course holder**

Signature of seminar laboratory/project holder **

10.09.2020 **Prof.PhD.Eng. CURILĂ MIRCEA**

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Date of approval in the department

Signature of the Head of Department **Prof.PhD.Eng. TIMOFTE ADRIAN**

e-mail: atimofte@uoradea.ro

Dean signature

Prof.PhD.Eng. CHEREJI IOAN e-mail: chereji i@yahoo.com

17.09.2020

^{*} The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.