

Database Systems - Project 2 - course description

General information	
Course name	Database Systems - Project 2
Course ID	11.3-WK-MATP-SBDP2-P-S14_pNadGenB4MKT
Faculty	Faculty of Mathematics, Computer Science and Econometrics
Field of study	Mathematics
Education profile	academic
Level of studies	First-cycle studies leading to Bachelor's degree
Beginning semester	winter term 2020/2021

Course information	
Semester	6
ECTS credits to win	4
Course type	optional
Teaching language	polish
Author of syllabus	

Classes forms					
The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Project	30	2	-	-	Credit with grade

Aim of the course

Students design a relational database model and create WEB applications for its use.

Prerequisites

Databases Systems 2.

Scope

Students create a system on a selected topic. Students implement and document the process of creating an information system. The final effect will be a working WEB application, working in a client-server architecture, and documentation.

During the course, students shall analyze the present area, do conceptual data model, SQL script, creating database structure, if it is necessary then create a description of the system using the selected UML diagrams (class, use case, state, activity, implementation), create an application to operate on this database.

Projects are done individually or in groups.

Teaching methods

Practical.

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
Students can, in accordance with specifications, analyze, design and implement a simple database system using properly selected methods, techniques and tools.	• K_W08	• a project	• Project
Students can create technical documentation of the project; understand the need for systematic work on the project.	• K_U29	• a project	• Project
Students have the theoretical knowledge to design average-complex database; know how to create a WEB application that supports the database.	• K_K03	• a project	• Project

Assignment conditions

Total score: 40% for the project database, 40% of the created program, 20% of the documentation.

Recommended reading

1. E. Balanescu, M. Bucica, Cristian Darie, PHP 5 i MySQL. Zastosowania e-commerce, Helion, 2005.
2. J. Clark, XSL Transformations (XSLT), <http://www.w3.org/TR/xslt7>.
3. L. Quin, Extensible Markup Language (XML), <http://www.w3.org/XML>.
4. T. Converse, J. Park, C. Morgan, PHP5 i MySQL. Biblia, Helion, 2005.
5. S. Urman, R. Hardman, M. McLaughlin, Oracle Database 10g. Programowanie w języku PL/SQL, Helion, 2007.
6. E. Naramore, J. Gerner,

Further reading

1. Bryan Basham, Kathy Sierra, Bert Bates, Head First Servlets & JSP. Helion, 2005
2. Wojciech Romowicz, Java Server Pages oraz inne komponenty JavaPlatform, Helion, 2001

Notes

Modified by dr Alina Szelecka (last modification: 18-09-2020 13:45)

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