

Database systems

Brief description of the course:

The aim of the course is to master the basics of the theory of relational database systems and to acquire practical skills using database technologies at the level required for database design and the creation of database applications. Part of the course is to introduce the audience to the query language SQL and its practical use in creating databases, and mainly to search for the necessary information in stored data.

Prerequisites: Basic knowledge of the issue

Type of Activity: Theoretical and practical preparation of participants

The number of hours: 40

Course language: Czech/Ukrainian

Maximum number of course participants: 12

Detailed course description:

- Introduction and basic concepts
- Database modelling
- Relational data model
- Normalization and DB design procedures
- Triggers and transaction processing
- Database security
- Indexing and data storage
- Basic introduction to the SQL language and creation of tables
- Work with data - modification and selection

Course goal: Obtaining basic knowledge of the issue

Awaited results: General knowledge of the issue

Assessment (Micro-credential type): 80% participation in the course, submission of the assigned task/project.

Schedule: May 2024