

**MEZISEMESTRÁLNÍ KURZ (6 credits)**

## **OBJECT-RELATIONAL DATABASES 4IT219**

**13 - 19 June, 2017**

Rapid increase in the volumes and complexity of data that organizations manage today is challenging existing relational database technology,



leading to the emergence of a new generation of databases. This course covers advanced database concepts focusing on the management of complex data objects using object-relational techniques. The course covers basic principles of object databases and includes an extensive practical component using the Oracle DBMS.

### **Topics**

- Introduction - changing requirements for data management
- Review of basic relational database principles
- Overview of Object-Oriented Databases
- Introduction to Object-Relational databases
- Oracle Object-Relational SQL features
- Object-Relational design and implementation techniques
- Management of XML semi-structured data
- NoSQL and Cloud databases



**Course Presenter:** The course will be presented by Dr. George Feuerlicht, who lectures on database topics at the University of Technology, Sydney, Australia and at the Prague University of Economics. He has presented seminars and professional development courses in Australia, USA, Europe and

Asia. Dr. George Feuerlicht is the author of over 100 publications across a range of topics in computer science. The course presentation will be in English.

**Who should attend:** the course is suitable for student wishing to enhance their knowledge of database technology; basic knowledge of relational databases and SQL is a pre-requisite.

**Course enrolments:** via INSIS

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