

Title Data Base (Bazy danych)	Code 1010401151010330742
Field EDUCATION IN TECHNOLOGY AND INFORMATICS	Year / Semester 3 / 5
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: 3 Projects / seminars: -	Number of credits 5
	Language polish

Lecturer:

dr inż. Andrzej Sikorski
Instytut Automatyki i Inżynierii Informatycznej
Poznań, ul. Piotrowo 3A,
pl. M. Skłodowskiej-Curie 2
Tel.: 61 6652365
Andrzej.Sikorski@put.poznan.pl

Faculty:

Faculty of Technical Physics
ul. Nieszawska 13A
60-965 Poznań
tel. (061) 665-3160, fax. (061) 665-3201
e-mail: office_dtpf@put.poznan.pl

Status of the course in the study program:

Core course of the study for Education in Technology and Informatics, Faculty of Technical Physics.

Assumptions and objectives of the course:

the skills and knowledge of:
SQL programming
Database design
Concurrency Control & Recovery
Relational algebra
Transactional management
Relational algebra

Contents of the course (course description):

In this course, SQL language and its application to the development of software is presented.

Among the topics to be covered: data manipulation language (SQL subset), data definition language (DDL subset), database theory, database normalization, database.

Some theory is included in the lecture, the main focus is on programming techniques and programming languages, however. This course covers the tools: MS SQL Server, MS Visual Studio, SQL Server Management Studio. Students should acquire skills and proficiency in C#, SQL, ADO.NET, ASP.NET and silverlight programming.

Introductory courses and the required pre-knowledge:

Basic programming skills (eg. c++,c# or java)
Basics of set theory and mathematics.
Acquaintance with internet and internet information systems.

Courses form and teaching methods:

lecture
laboratory

Form and terms of complete the course - requirements and assessment methods:

examination
problems posed by the instructor.

Basic Bibliography:

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Additional Bibliography:

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