

Course

DB1 - Data Base Systems 1

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^ General information

Long name	Data Base Systems 1
Approving CModule	<u>DB1 BaTIN</u>
Responsible	Prof. Dr. Andreas Behrend Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	NF Büchel
Requirements	Basic Course Mathematics Basic Course Computer Science
Language	German
Separate final exam	Yes

Final exam

Details

Examination questions are Entity Relationship Modeling, Mapping of a entity relationship model to a database scheme, SQL, development of a JDBC programe, XML document type defintion

Minimum standard

Programming of simple SQL statements (INSERT, UPDATE, DELETE, SELECT)

Programming of a complex SQL application, which is embedded in a java programe

Exam Type

Examination questions are Entity Relationship Modeling, Mapping of a entity relationship model to a database scheme, SQL, development of a JDBC programe, XML document type defintion

^ Lecture / Exercises

Learning goals

Knowledge

General Data Base Model

Relational data base system

Structured Query Language

Embedded SQL in Java (JDBC)

Specification and design of data bases

Entity Relationship Model

Normal forms of a relational data base

XML and data bases

Document type definition

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	0
Exercises (shared course)	2
Tutorial (voluntary)	1

Separate exam

none

^ Practical training

Learning goals

Skills

Implementation of a data base with several tables, which is specified in a requirement analysis; programming of embedded complex SQL code in JAVA; entity relationship modeling; definition of an DB/XML-interface with a document type definition

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	1
Tutorial (voluntary)	0

Separate exam

none