

## Database Systems Group, Prof. Martin Gogolla: Teaching - General remarks

- Courses in the area database systems
- DBS: Database Systems / Datenbanksysteme  
Winter semester
- DIS/EIS: Design of Information Systems / Entwurf von Informationssystemen  
Summer semester  
Topic: Information system design, concentrating on the  
Object Constraint Language (OCL) in connection with modeling languages as  
UML (Unified Modeling Language) or EMF (Eclipse Modeling Framework)
- Theses (Bachelor, Master, Diploma) and examinations in the area Database  
Systems and Software Design

- **COURSE:** Design of Information Systems (8 ECTS)

**WEB INFO:** <http://www.db.informatik.uni-bremen.de>

Preferably after 4th semester; for students having experience in software development; suitable for Bachelor and Master students

**LECTURES:** Thu 10-12 GW1 C1070, Thu 14-16 SFG 1080, Start 1st lect. week

**EXERCISES:** Wed 10-12 SFG 2080, Start 2nd lect. week

**CONTENT:** Design of Information Systems with modeling languages as UML or EMF; UML diagram forms and language features; properties of the Object Constraint Language (OCL); semantics of OCL; datamodels, metamodels; Entity-Relationship, relational model

Tool USE (UML-based Specification Environment): internationally used OCL tool; developed by Bremen Database Systems Group; basically an interpreter for a subset of UML including full OCL; offering executable models; tool can give feedback on the developed system; for example, by animating the system

**FORM OF EXAMINATION:** (A) Writing a paper about an application designed with UML/OCL (English or German; homework, “Hausarbeit”; including presentation of results in the exercise lessons; within a group of about 3 students); (B) oral examination (20 minutes)