• Courses in the area Database Systems / Software Engineering
• 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) 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:** Wed 10-12 MZH 8090, Thu 10-12 MZH 8090, starting April 22

**EXERCISES:** Mon 14-16 MZH 8090, starting April 27

**CONTENT:** Design of Information Systems with modeling languages like UML or EMF; UML diagram forms and language features; focus on properties of the Object Constraint Language (OCL); semantics of OCL; datamodels, metamodels

**Tool USE (UML-based Specification Environment):** internationally used UML/OCL tool; developed in Bremen; interpreter for subset of UML including full OCL; offering executable models; tool gives feedback on the developed system; for example, by animating the system; google ‘gogolla publications’

tool is about MODEL EXECUTION and MODEL TESTING not about DRAWING

**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)