System Design with USE
Prof. Martin Gogolla

Objective
The course studies design and modeling of systems, in particular IT systems. The tool USE (UML-based Specification Environment) allows developers to build UML and OCL models and to execute, verify and validate them. The course introduces the Unified Modeling Language (UML) with its different diagram forms (e.g., Class, Object, Sequence, Communication and Statechart diagrams) and shows how to construct, execute and document models. A further central topic of the course is the Object Constraint Language (OCL), a textual sublanguage within UML. Central concepts of OCL as datatypes, navigation, formulas as well as collection kinds and collection operations are thoroughly motivated and introduced. Their applicability is demonstrated with real-world examples and smaller case studies.

Perquisite
Knowledge in modeling and in UML and OCL is beneficial.

Audience
The course targets graduate students and undergrad students that are on their third year of their studies.
The course will be taught in English.

Grading
Pass or fail based on submitted exercises.

Lecture times
Sunday 4.6.2017 – 11:00-15:00
Monday 5.6.2017 – 11:00-15:00
Thursday 8.6.2017 – 11:00-15:00