SOFTWARE DEVELOPMENT

In the top-up programme in Software Development, students learn how to design and program large, data-heavy and distributed systems. They work with all of the various aspects of the software development process, such as databases, contracts, tests, system integration, project management and system development.

Students in Software Development usually come from a Computer Science program.
There is close contact to the business community. For example, students write assignments in cooperation with a business and do an internship in a business to test their competences in practice.

EXCHANGE STUDENTS CAN TAKE THE FOLLOWING COURSES

SOFTWARE DEVELOPMENT 6TH SEMESTER

SYSTEM INTEGRATION: 10 ECTS
This course studies the process of integrating different systems and software applications by examining current and emerging trends, strategies, and techniques for developing systems integration solutions effectively.

Example topics covered include, but are not limited to: implementing integration solutions using service oriented architecture; designing integration solutions reusing patterns; documenting integration requirements using business process models; IDE functionality and components, programming tools and utilities; development of methodologies and visual modeling instruments; object-oriented programming in Java; Java-based technologies, web services and integration.

Technologies used in the class include Java, NetBeans IDE omCat, GlassFish, Camel framework and MySQL

ELECTIVES (10 ECTS EACH)
Electives are determined a few months before the semester and some are held jointly with students from the Web Development programme.

Examples of electives are Software Design Patterns, iOS App Development, Big Data, Quantum Computing and Web Security. Each elective counts for 10 ECTS.

Students must complete a number of mandatory assignments in each class to be allowed to take the exams at the end of semester. Each class will have an individual exam.