

Objectives:

Knowledge: Students acquire knowledge about cloud computing and development of scalable applications in the cloud. They can deal with large sets of data and are able to choose and apply suitable methods to store and process data. Students have an overview of existing techniques, classes of tools and methods that are used in development, test, and deployment of cloud applications. They understand and take into account security requirements of publicly accessible cloud applications.

Skills: The students can apply their knowledge to problems in industry in academia.

General competence: Students can work in groups and deliver results.

Contents:

IaaS, PaaS, SaaS

Scalable software architectures, big data, Map/Reduce

Computing, storage, databases in the cloud

Software deployment, maintenance, testing

Security aspects of cloud computing

Assessment:

Assessment of this course will be based on a group project, typically in software development.