Submodule	TM abbreviation
KICC: Introduction to Cloud Computing	**KICC**

Responsible person	Faculty
Prof. Dr Markus Westner	Computer Science and Mathematics
Teacher / Lecturer	Frequency of supply
Maximilian Schön (LB)	

Teaching form
Online lectures/labs with supporting material.

Semester of study according to curriculum	Teaching scope [SWS or UE]	Teaching language	Work effort [ECTS credits]
3. / 4. / 6. / 7.	4 SWS	English	5

Time commitment:

Attendance study	Self-study

Study and examination performance

Kl. u./o. StA u./o. mdl. LN

Contents
• Definition of "cloud computing • Key features, deployment and service models • Market overview / major public cloud service providers • The data centre in the cloud • Availability and redundancy • Cloud infrastructure components • Compute, storage, networking • Cloud portal and CLI • Demonstrations and selected lab exercises for students
Learning objectives: Professional competence
After successful completion of the submodule, students are able to, • present the basic principles of cloud environments (3) • demonstrate the essential characteristics of cloud computing (3) • Evaluate appropriate cloud services for applications to be created and recommend their use depending on suitability (3)
Learning objectives: Personal competence

After successfully completing the sub-module, students are able to analyse subject-related issues and develop corresponding solution concepts, evaluate these, weight them, present them in front of an audience and implement them in a target environment as a prototype in each case.(3)

Literature

The numbers in brackets indicate the levels to be reached: 1 - know, 2 - can, 3 - understand and apply.