Hochschule Konstanz
University of Applied Sciences

Course number: AIT 32460
Real-time Operating Systems and Ubiquitous Computing
Study Level: Bachelor / Undergraduate

Prof. Dr. Ralf Seepold
Language of instruction: English
ECTS Credits: 6

Learning objectives:

Subject-specific competencies:

- understand and apply basic concepts and algorithms of operating systems
- describe and know fundamental functions and services of operating systems
- apply shell scripts
- interpret ubiquitous computing concepts
- develop ubiquitous computing applications

Methodological competencies:

- decide on operating systems concepts and applications
- design ubiquitous computing applications

Interdisciplinary competencies:

- understand fundamentals in operating system, ubiquitous computing and applications

Contents:

- Resource and process management
- Memory management
- File and input/output management
- Synchronization, deadlocks
- Ubiquitous computing concepts
- AAL technologies and IoT
- Vital sign management