

Course Descriptions CiE

Course code: IF-I-B-403

Course title : Software Architecture

Hours per week: 4 (2 lecture, 2 practical lesson)

Number of ECTS Credits allocated/work load: 5 ECTS

Semester: 4 IFB

Course contents: Covers design and implementation of complex software systems. This includes software quality attributes, patterns, layering of software (model, logoc, presentation). Furthermore frameworks and application servers are covered.

Prerequisites: Software Development I+II (Java)

Objective of the course/learning outcome:

Ability to evaluate, design, and implement complex software architectures. Knowledge of modern framework based architectures.

Recommended Reading:

Bass, Clements, Kazman: Software Architecture in Practice. 2nd ed. Prentice-Hall, 2003.

Buschmann et al: Pattern-oriented Software Architecture - A System of Patterns, J. Wiley, 1996

Teaching methods: Lecture and practical lessons

Assessment methods: Written exam 90Min. (successful participation in practical lessons is required for admission)

Language of instruction: English

Name of lecturer: Axel Böttcher

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Link:

www.cs.hm.edu/~boettcha/swa/swa.html