

Advanced Design and Programming (VUE) (OSS-ADAP-VUE)

Dozentinnen/Dozenten

Prof. Dr. Dirk Riehle, MBA, Andreas Bauer, M. Sc.

Angaben

Vorlesung mit Übung, 4 SWS, ECTS-Studium, ECTS-Credits: 5
für Gasthörer zugelassen, Sprache Deutsch
Zeit und Ort: Mo 13:00 - 16:00, RZ 2.037

Studienfächer / Studienrichtungen

WPF INF-BA ab 4 (ECTS-Credits: 5)
WPF INF-MA ab 1 (ECTS-Credits: 5)
WPF IIS-MA ab 1 (ECTS-Credits: 5)

Voraussetzungen / Organisatorisches

INF-AuD

Inhalt

"This course teaches principles and practices of advanced object-oriented design and programming.

Dieser Kurs wird auf Deutsch gehalten.

It consists of a weekly lecture with exercises, homework and self-study, This is a hands-on course and students should be familiar with their Java IDE.

Students learn the following concepts:

Class-Level

- Method design
- Class design
- Classes and interfaces
- Subtyping and inheritance
- Implementing inheritance
- Design by contract

Collaboration-Level

- Values vs. objects
- Role objects
- Type objects
- Object creation
- Collaboration-based design
- Design patterns

Component-Level

- Error handling
- Meta-object protocols
- Frameworks and components
- Domain-driven design
- API evolution

The running example is the photo sharing and rating software Wahlzeit, see <https://github.com/dirkriehle/wahlzeit>.

Class is held as a three hour session with a short break in between. Students should bring a laptop with a working Java programming setup.

Schedule and sign-up are available at <https://oss.cs.fau.de/oss-adap-course>. Please sign up for the course on StudOn (available through previous link) as soon as possible."

Empfohlene Literatur

See <https://oss.cs.fau.de/oss-adap-course>

ECTS-Informationen:

Credits: 5

Zusätzliche Informationen

Erwartete Teilnehmerzahl: 50, Maximale Teilnehmerzahl: 50

StudOn-Kurs: https://www.studon.uni-erlangen.de/univis_2020w.Lecture.41756313

Verwendung in folgenden UnivIS-Modulen

Startsemester WS 2020/2021:

Advanced Design and Programming (5-ECTS) (OSS-ADAP)

Institution: Professur für Open Source Software

UnivIS ist ein Produkt der Config eG, Buckenhof