

Advanced Methods of Software Engineering

1	Modulbezeichnung	OSS-AMSE	5 ECTS
2	Lehrveranstaltungen	OSS-AMSE-VUE	2 SWS
3	Dozenten	Prof. Dr. Dirk Riehle, M.B.A.	

4	Modulverantwortlicher	Prof. Dr. Dirk Riehle
5	Inhalt	<p>This course teaches advanced methods of software engineering. Topics covered are:</p> <ul style="list-style-type: none"> • Test-driven development • Kanban and lean software development • Continuous delivery incl. continuous deployment <p>Students form teams and are assigned to a semester-long project. Each team is coached by one Mitarbeiter of the professorship.</p> <p>The course builds on the learnings from ADAP and AMOS. Both courses or equivalent skills are preconditions for participating in AMSE.</p> <p>AMSE projects, like final theses, support the group's development work. Thus, students need to sign a contributor agreement, see https://wp.me/pDU66-2pd. Ideally (but not required), students like the project so much that they want to do a startup with us.</p> <p>For the schedule please see https://goo.gl/muk2iX.</p> <p>The schedule spreadsheet contains a link to the StudOn course section. Please sign-up on StudOn at least two weeks before classes start. We will inform you the week before whether you got a seat in the course or not.</p>
6	Lernziele und Kompetenzen	<ul style="list-style-type: none"> • Understand concepts and tools of continuous delivery and test-driven development • Gain experience with continuous delivery in the context of a development project
7	Voraussetzungen	<ul style="list-style-type: none"> • OSS-ADAP • OSS-AMOS
8	Einpassung in Musterstudienplan	Informatik-Master
9	Verwendbarkeit des Moduls	As a lecture + exercise
10	Studien- und Prüfungsleistungen	Project work
11	Berechnung Modulnote	Project work (100%)

12	Turnus des Angebots	Every second semester
13	Wiederholung der Prüfungen	-
14	Arbeitsaufwand	5 ECTS
15	Dauer des Moduls	1 semester
16	Unterrichtssprache	English or German
17	Vorbereitende Literatur	-