Course Introduction

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### Friedrich-Alexander University Erlangen-Nürnberg

AMOS A01

To introduce students to agile methods by creating useful software.

[1]   Professional = ambition + collaboration with external partner
[2]   Agile methods = our focus here, specifically Scrum + XP
[3]   We teach both overall processes as well as best practices
[4]   Useful software is software that has value to someone!

Course Learning Goals 2 / 2

- Learning objectives (lectures / tutorials, projects)
  - Gain conceptual understanding and practical skills of using
    - agile software development methods
    - software project management tools
    - software development tools

  - Learn how to work
    - with an external stakeholder
    - in a (student) project team

- Project objectives
  - Develop useful software
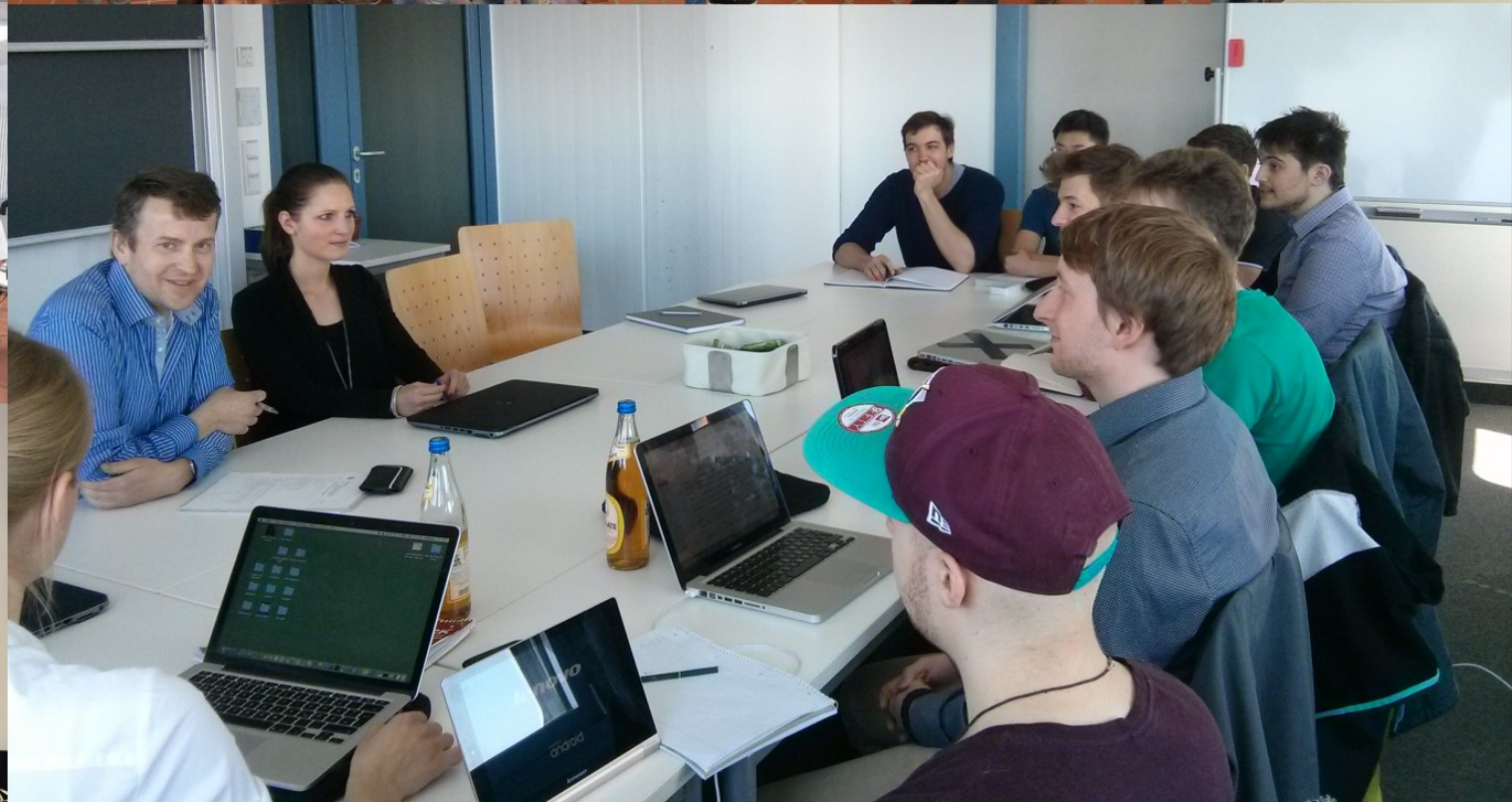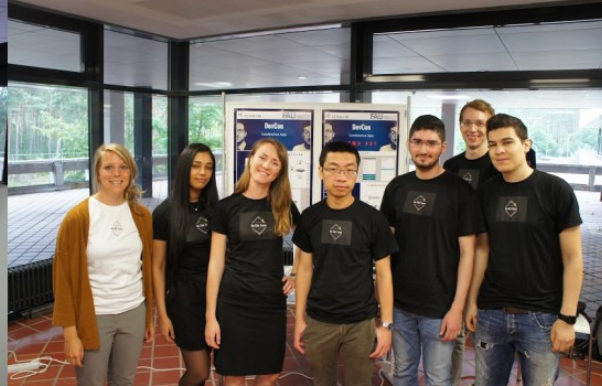 - Perform a great demo on demo-day!
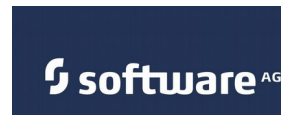
Skills Required for Course

- General skills
  - Willingness and ability to work in a team
  - Ability to acquire skills during the project

- Role-specific skills
  - Product owner (PO) role
    - Strong conceptual thinking
    - Ability to communicate well
    - Affinity to technology

  - Software developer (SD) role
    - Technology stack (specific to project)
    - Development tools like git and GitHub
    - Test-driven development

  - Scrum master (SM) role
    - Strong organizational skills

Course Position in Curriculum
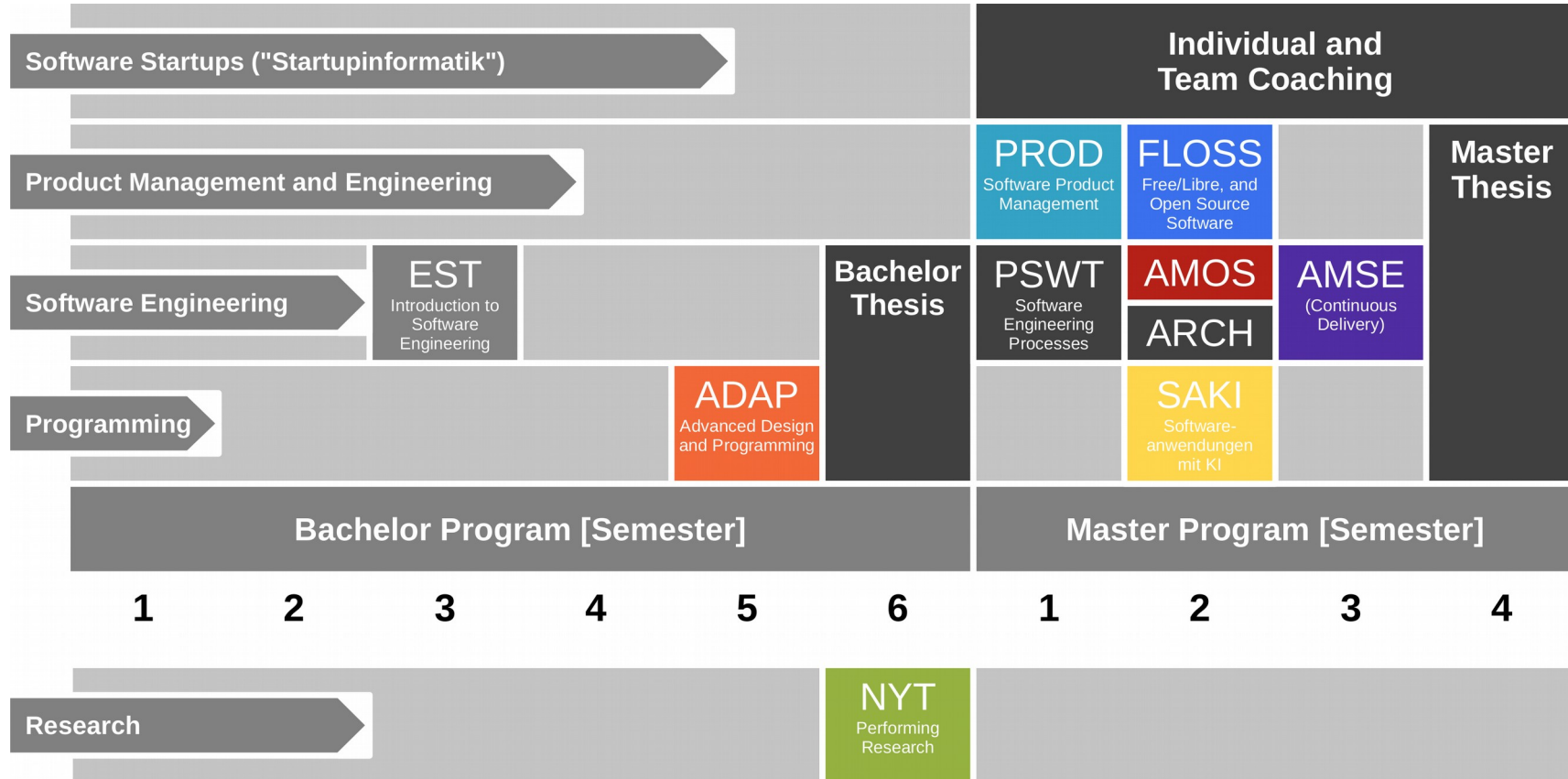
Startupinformatik
Dein Weg zur Startup im Masterstudium, seit 2010!
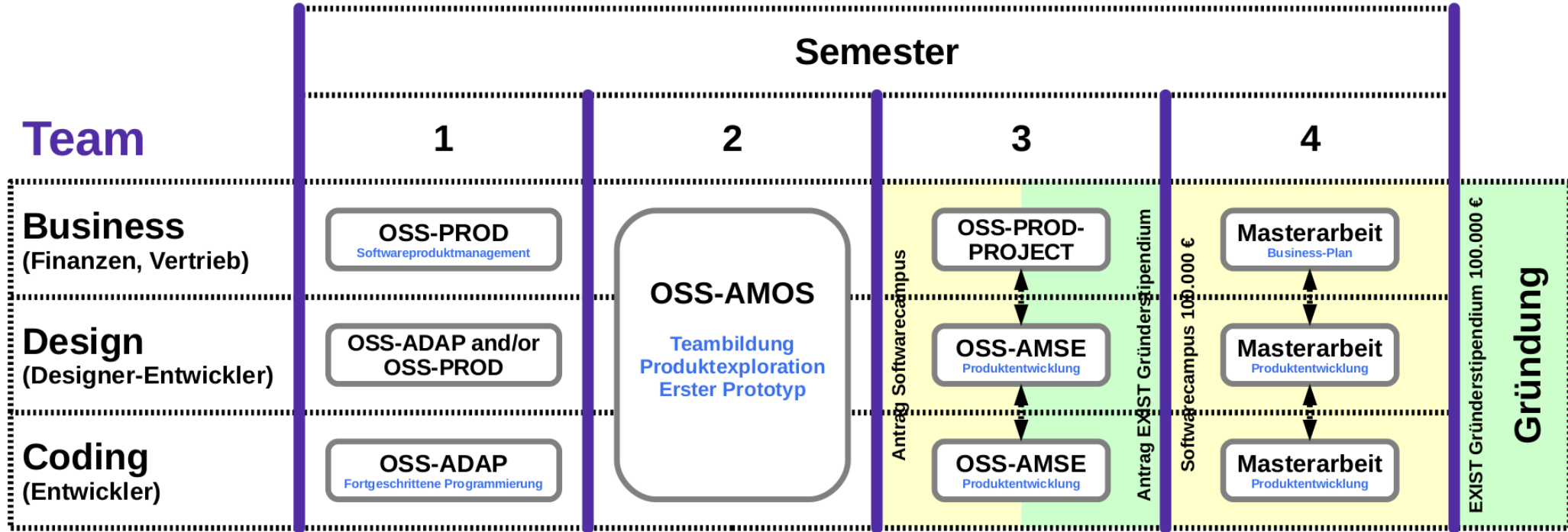
Semester

Team	1	2	3	4	
Business (Finanzen, Vertrieb)	OSS-PROD *Softwareproduktmanagement*	OSS-AMOS **Teambildung Produktexploration Erster Prototyp**	OSS-PROD-PROJECT	Masterarbeit *Business-Plan*	**Gründung**
Design (Designer-Entwickler)	OSS-ADAP and/or OSS-PROD		OSS-AMSE *Produktentwicklung*	Masterarbeit *Produktentwicklung*	
Coding (Entwickler)	OSS-ADAP *Fortgeschrittene Programmierung*		OSS-AMSE *Produktentwicklung*	Masterarbeit *Produktentwicklung*	

Antrag Softwarecampus

Antrag EXIST Gründerstipendium

Softwarecampus 100.000 €

EXIST Gründerstipendium 100.000 €

http://startupinformatik.de

Courses and Modules

Modules		Courses (Lehrveranstaltungen)		
		OSS-AMOS-VL	OSS-AMOS-UE (Team Meetings)	Total ECTS
Modules	OSS-AMOS-PO	x	x	5
	OSS-AMOS-SD	x	x	10
	~~OSS-AMOS (Generic)~~	x	x	9

Course Grading [1] (Separate Roles)

- **OSS-AMOS-PO (Product Owner)**
  - Theory (lectures) = 20% of grade
    - 2 SWS in 5 ECTS = 20%
    - As measured by class quizzes
    - Grading scale is [0..10] points

  - Practice (project) = 80% of grade
    - Individual contribution to teamwork = 50%
      - As measured in team meetings
      - Grading scale is [0|1|2|3]

    - Independent work = 50%
      - As measured by artifacts provided
      - Grading scale is [0|1|2|3]

- **OSS-AMOS-SD (Software Developer)**
  - Theory (lectures) = 10% of grade
    - 2 SWS in 10 ECTS = 10%
    - As measured by class quizzes
    - Grading scale is [0..10] points

  - Practice (project) = 90% of grade
    - Individual contribution to teamwork = 50%
      - As measured in team meetings
      - Grading scale is [0|1|2|3]

    - Independent work = 50%
      - As measured by artifacts provided
      - Grading scale is [0|1|2|3]

[1]   Also see http://osr.cs.fau.de/teaching/course-resources/grading-schemes-and-scales/

Course Grading [1] (Integrated Roles)

- Individual contribution to teamwork = 50%
  - As measured in team meetings
  - Grading scale is [0|1|2|3]

- Independent work = 50%
  - As measured by artifacts provided
  - Grading scale is [0|1|2|3]

[1]   Also see http://osr.cs.fau.de/teaching/course-resources/grading-schemes-and-scales/

Receiving a Grade for the Course

- If you want to receive a grade
  - You must register through the course management system before the deadline

- If you cannot register through the course management system
  - Please follow these instructions https://wp.me/PDU66-2bx

- Otherwise: No grade

[1] You still have to register for the course

Course Language [1]

- Class
    - Lecturer: English
    - Student: Choice of German or English

- Project and exercises
    - Team: Choice of German or English
    - Submissions: Choice of industry partner

[1]   http://osr.cs.fau.de/2012/03/10/english-or-german-deutsch-oder-englisch/

Course Communication

- Announcements by email through course management system
- Questions and answers using course communication forum
- If you must send email, use the teaching team alias from Course index

Course Information

- Course index
  - See link in course management system

Thank you! Questions?

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DR

Credits and License

- Original version
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  - Licensed under Creative Commons Attribution 4.0 International License

- Contributions
  - None yet