

Interactive Learning (Practical Course, Contract) Info Meeting



**Maximilian
Sölch**



**Ramona
Beinstingel**



**Markus
Paulsen**



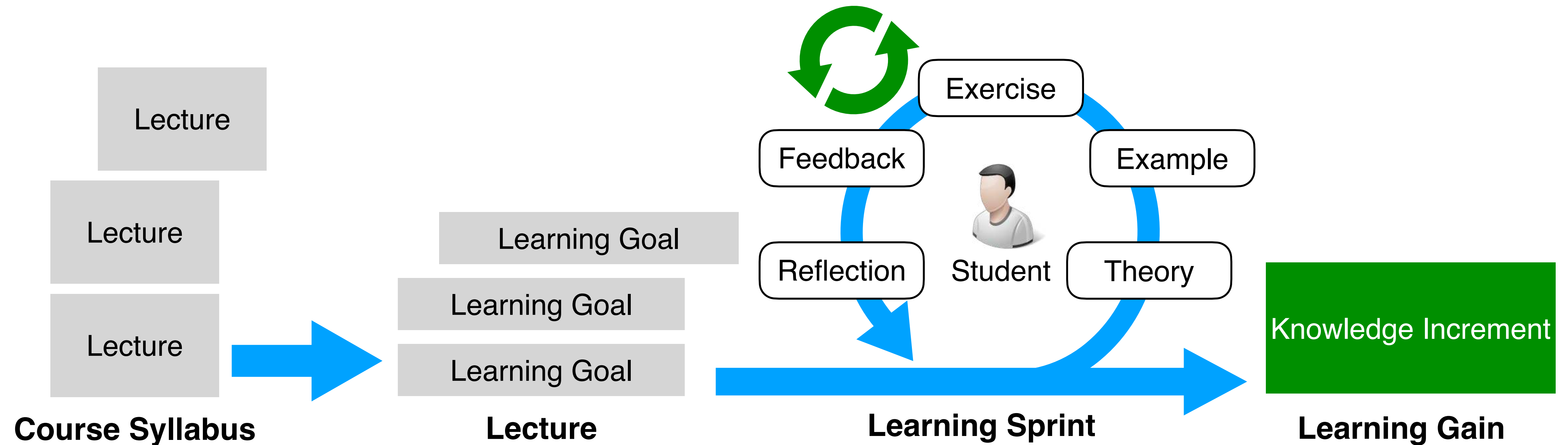
**Prof. Stephan
Krusche**

Our teaching philosophy



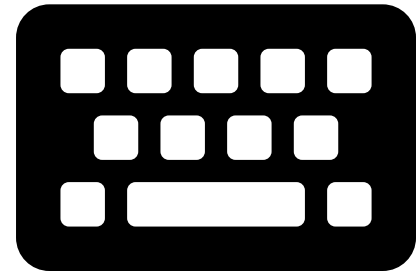
“Tell me and I will forget.
Show me and I will remember.
Involve me and I will understand.
Step back and I will act.”

Continuous Interactive Learning

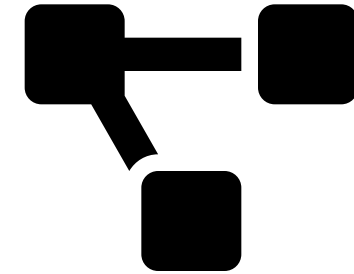


- Learn and exercise small chunks of content in short cycles
- Get guidance and immediate feedback to prevent misconception
- Reflect on the content and increase knowledge incrementally

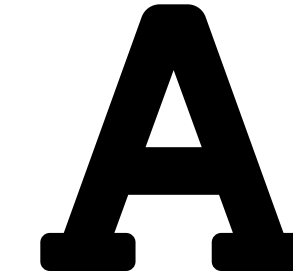
Artemis - interactive learning with automated feedback



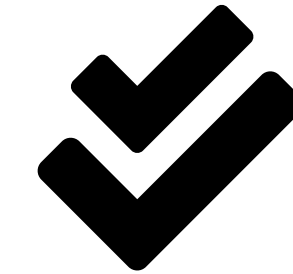
**Programming
exercises**



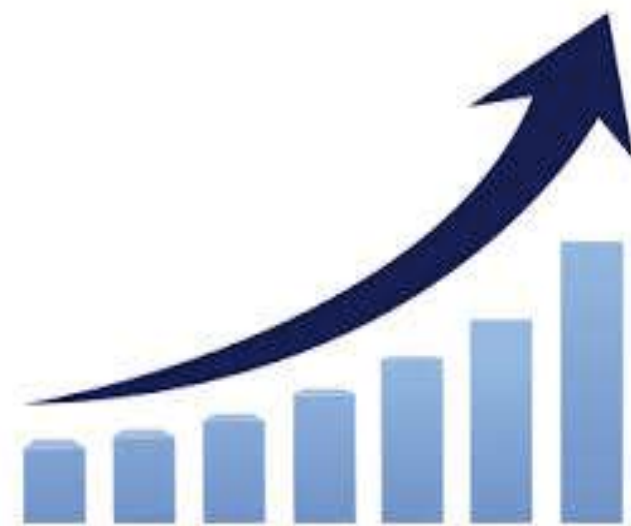
**Modeling
exercises**



**Text
exercises**



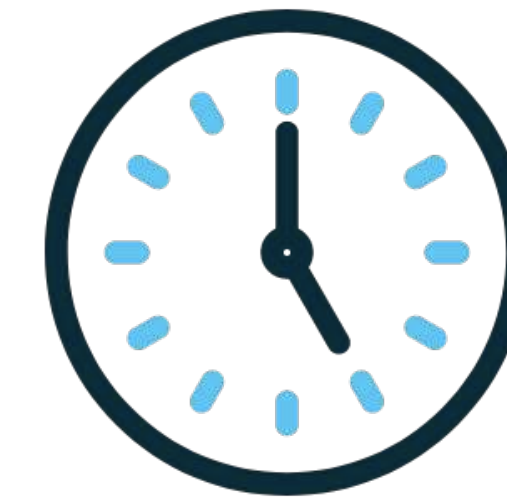
**Quiz
exercises**



Scalability:
> 200 submissions
per second



Usability:
Beginners are able
to use Artemis



Instant feedback:
Provides feedback
in real-time

Our mission



- Teach the concepts in an understandable way
- Provide realistic examples and exercises
- Focus on the practical application of knowledge
- Support the students in their problems and questions

Learning goals

- Become familiar with best practices for teaching and learning
- Improve your soft skills (communication, presentation, and team work)
- Apply incremental, agile, and adaptive development methods
- Deepen your knowledge in software engineering

Participation

1) **Contract:** up to ~900€ salary per month

- **Effort per week:** up to 16 hours (decided on individual basis)
- **Final document:** none
- **Contact:** il-contract.aet@xcit.tum.de

2) **Praktikum (IN0012, IN2106, IN2175, IN4234):** 10 ECTS

- **Effort per week:** 16 hours
- **Final document:** Project Report
- **Contact:** il-praktikum.aet@xcit.tum.de


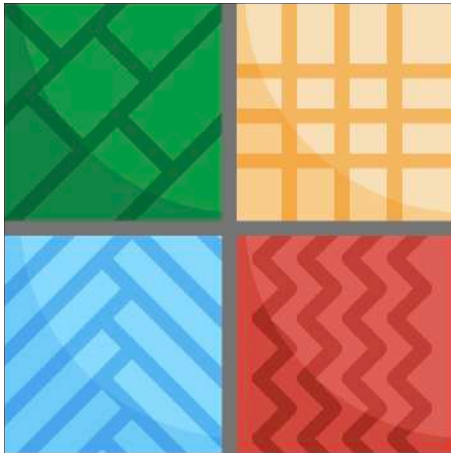
- **Project Work**

- Find and document issues in Artemis
- Propose new feature for Artemis in a feature request
- Test newly developed features for Artemis

- **Project Report**

- Document your achievements in a comprehensible format
- Track the resolution of the issues you raised
- Present your results to your instructor

Participation options

		
	ITP	PSE
Contract	X	
Practical Course	X	X



Introduction to Programming (ITP)

- **Number of students:** ~ 800 management students
- **Lecture:** Wednesday, 14:00 - 18:00 (Interims II - Lecture Hall 1)
- **Language:** English
- **Exercise concept**
 - **Weekly:** in-class exercises, tutor groups with exercises, homework
 - **Grading:** intermediate exam, project work, final exam
- **Tutor responsibilities:**
 - Support the creation/maintenance of programming exercises (onsite)
 - Hold one to two tutor groups (3 hours each, onsite)
 - Help in the lecture and exam conduction (onsite)
 - Answer students' questions (online via Artemis)
- **Point of contact:** Ramona Beinstingel (itp.aet@xcit.tum.de)



Patterns in Software Engineering (PSE)

- **Number of students:** ~ 800 informatics students
- **Lecture:** Monday, 10:00 - 14:00 (MI HS1)
- **Language:** English
- **Exercise concept**
 - **Weekly:** in-class exercises
 - **Grading:** Final exam
- **Tutor responsibilities**
 - Support the creation/maintenance of programming exercises (onsite)
 - Help in the lecture and exam conduction (onsite)
 - Answer students' questions (online via Artemis)
- **Point of contact:** Maximilian Sölch (pse.ase@xcit.tum.de)

Prerequisites for the course - What we expect from you

- **Required:**



ITP / PGDP or a similar course



EIST / PSE or a similar course (only for PSE; Recommended for ITP)

- **Recommended:**



iPraktikum / APM / Teaching iOS or a similar course



Dev-Ops / LDL or a similar course

- You can explain the underlying concepts of software engineering well
- You are highly motivated to support the students in the best possible way
- You want to deepen your own knowledge of software engineering

Application

- 1) Fill out the application on <https://prompt.aet.cit.tum.de/>
(**latest** until July 15, 13:00)
- 2) We will review your application and invite you for an interview
(**latest** until July 16, 13:00)
- 3) Choose an interview time slot
(**latest** until July 16, 23:00)
- 4) Come **prepared** to an interview
(conducted virtually on July 17 and July 18)
- 5) We inform you about your participation
(**latest** until July 20, 23:00)
- 6) **Only for Praktikum**
Prioritize in the matching system
(**latest until July 22**)

For contracts, there will be a second interview round

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