



Our teaching philosophy



"Tell me and I will forget.

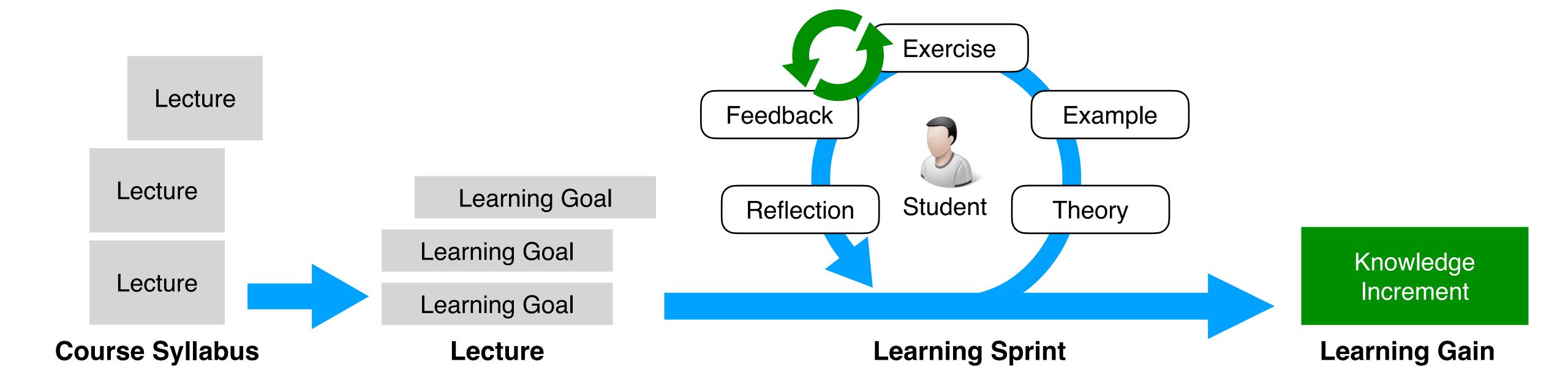
Show me and I will remember.

Involve me and I will understand.

Step back and I will act."

Continuous Interactive Learning

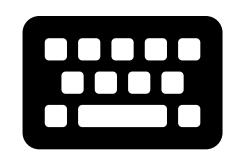




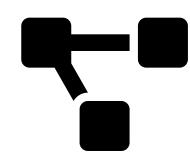
- Learn and exercise small chunks of content in short cycles
- Get guidance and immediate feedback to prevent misconception
- Reflect on the content and increase knowledge incrementally

Artemis - interactive learning with automated feedback

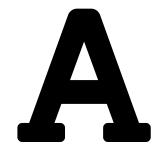




Programming exercises



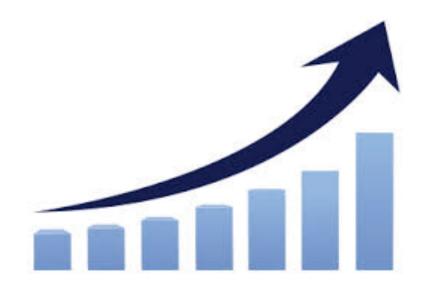
Modeling exercises



Text exercises



Quiz exercises



Scalability: handle > 200 submissions per second



Usability: beginners are able to use it



Instant feedback: provide feedback in real-time

Team exercises I Lectures I Presentations I Exam mode I Questions and answers I Learning analytics

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

Introduction to Programming (ITP)



- Number of students: 800 management students
- Lecture: Wednesday, 14:00 18:00 (Interims II)
- Exercise concept: In-class exercises, tutor exercises, bi-weekly graded homework, final project

Tutor responsibilities:

- Support the exercise instructors in the creation of programming exercises (onsite/online)
- Hold a tutor group (3 hours) (onsite)
- Help in the lecture conduction (onsite)
- Answer students' questions (online via Artemis)
- Attend the weekly tutor meeting (onsite)
- Help in the conduction and the correction of the exam (onsite)

Participation



- 1) Contract: ~ 900€ salary per month
 - Up to 16 hours effort per week
 - Exact amount of time decided on individual basis
 - 2) Praktikum: 10 ECTS
 - ~ 2 days effort per week
 - Possible module numbers: IN0012, IN2106, IN2175, IN4234

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Additional Tasks in the Praktikum Interactive Learning



- Find and document bugs and new feature requests for Artemis
- Test newly developed features for Artemis
- Voluntary: Participate in the development of Artemis
 - Investigate the applied learning theories, e.g. interactive learning
 - Customize and extend learning tools to support the conduction of large courses
 - Present the results at the end of the course

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 (especially requirements engineering and testing)

Prerequisites for the course - What we expect from you



- You passed EIST (or a similar course), PSE (or a similar course) or ITP
- You have a good knowledge in software engineering
- You are motivated
- You want to support the students in the best way
- You can explain important software engineering concepts in an understandable and easy manner
- You want to deepen your knowledge on programming and software engineering

Application



- 1) Fill out the application on wiki.tum.de/x/QYLzWg (latest until 11th of July 18:00)
- 2) We will review your application and invite you for an interview
- 3) Choose an interview time slot (latest until 12th of July 18:00)
- 4) Come prepared to an interview (virtual)
- 5) We will inform you about your participation (latest until 15th of July 18:00)
- 6) Only for Praktikum:

Prioritize the Praktikum in the matching system (latest until 19th of July)



