Digital Product Innovation and Development

Pre-Course Meeting
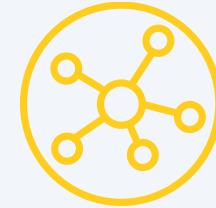**06.02.2025**

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Agenda

overview.

Who are we?

Our Motivation

the course.

Learning Goals

Course Outline & Timeline

Roles

Example Challenges

Our Expectations

next steps.

Application

Summary

Overview.

Who are we?
Our Motivation

Overview

Who are we?

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Professor (TUM, fortiss)

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- Research institute for software-intensive systems
- Tightly coupled with TUM
- Close collaboration with industry

Requirements Engineering

- Research early in the development life-cycle
- Industry partners in various domains

Chair of Software Engineering for Data-Intensive Applications

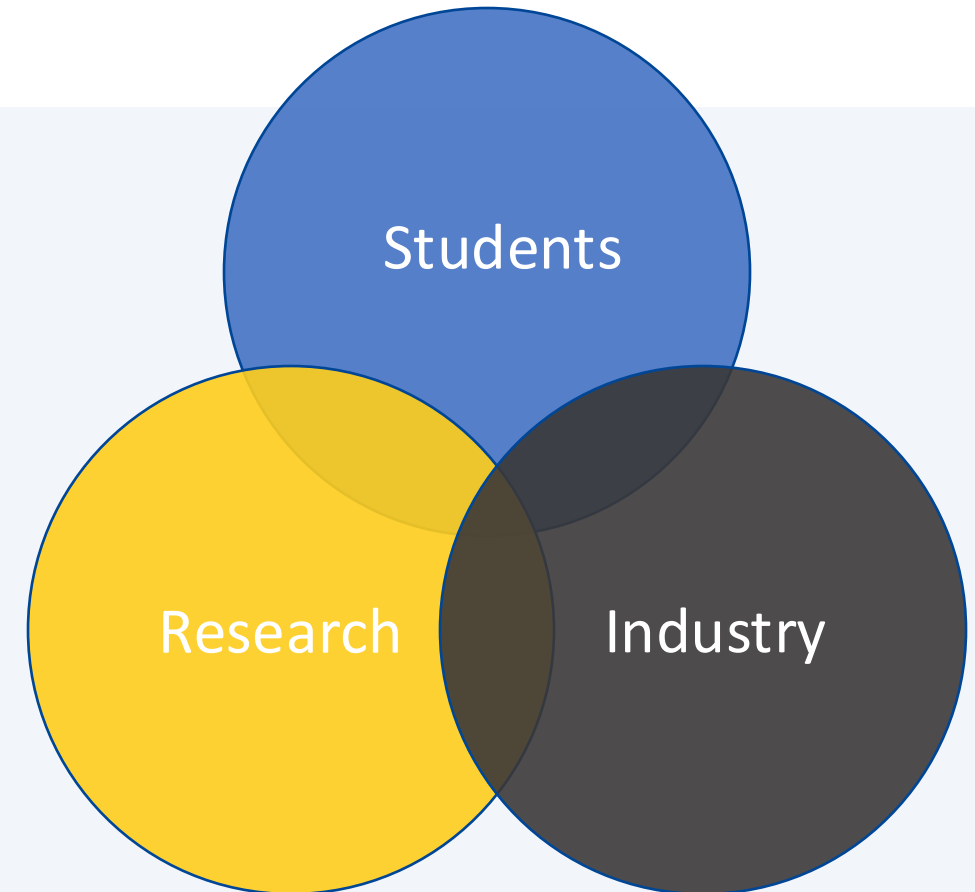- Provides academic guidance and institutional support

Overview

Our Motivation

Bring Students and Industry closer
- Provide students with real-world product development experience
- Provide space for students to easily connect with industry practitioners
- Connect industry partners with skilled students

Thesis Opportunities
- Contact between students and industry partners offering thesis topics
- Contact between students and PhD students offering thesis topics

Students

Research

Industry

The Course.

Learning Goals
Course Outline &
Timeline
Roles
Example Challenges
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The Course

Learning Goals

Problem Solving

Learn to tackle complex industrial challenges using innovative digital solutions.

Entrepreneurial Thinking

Cultivate entrepreneurial skills by formulating a product plan and navigating customer collaboration.

Technical Proficiency

Gain hands-on experience in creating technically excellent digital products.

Collaboration and Communication

Enhance teamwork and communication skills through group-based projects.

The Course

Outline

In a Nutshell
- Industry partners present challenges for students to solve
- Teams of up to 6 students collaborate to address these challenges
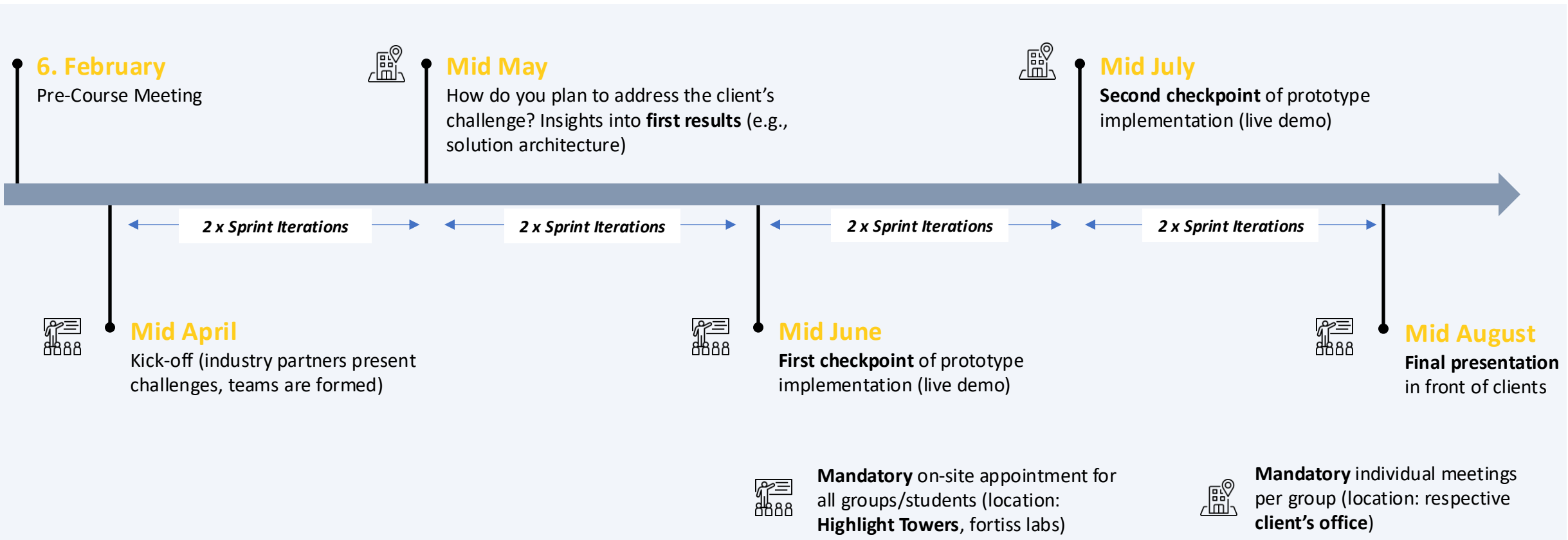
In Detail
- Start (mid of april): Presentation of challenge and team assembly
- Teams work in 2 week sprints with predefined deliverables for every month
- Teams get feedback from industry partner
- Intermediate presentation (mid of June): Presentation of deliverables to entire course
- End (mid of august): Final presentation and hand-over to industry partner

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The Course

Timeline

6. February
Pre-Course Meeting

Mid May
How do you plan to address the client's challenge? Insights into **first results** (e.g., solution architecture)

Mid July
Second checkpoint of prototype implementation (live demo)

Mid April
Kick-off (industry partners present challenges, teams are formed)

← *2 x Sprint Iterations* →

← *2 x Sprint Iterations* →

Mid June
First checkpoint of prototype implementation (live demo)

← *2 x Sprint Iterations* →

← *2 x Sprint Iterations* →

Mid August
Final presentation in front of clients

Mandatory on-site appointment for all groups/students (location: **Highlight Towers**, fortiss labs)

Mandatory individual meetings per group (location: respective **client's office**)

The Course

Industry Partner

Defines challenges and provides industrial resources and feedback.

Client Stakeholder

Delivery Coach

Guides teams and ensures project alignment.

Product and Development Team

Project Manager

DevOps Engineer

Handles external communication & Goal achievement

Implementation of CI/CD infrastructure.

The Course

Asylum and Refugee Communication netlight UNHCR The UN Refugee Agency	**Security Findings Recommender System** SIEMENS	**Anti-Pattern Analysis** itestra be excellent
Security Compliance Assessment SIEMENS	**Potato Evaluation Framework** netlight Karevo	**Project Staffing Application** itestra be excellent

The Course

Our Expectations

In a Nutshell
- Commitment, Excellence & Professionalism

Commitment
- The course is worth 10 ECTS and we expect you to put in the work.
- This course is not easy credits, but also the rewards are high.

Excellence
- We don't expect you to know everything.
- But we expect solid knowledge in software engineering (e.g. modeling, architecture, programming languages).
- Results are expected to be of high quality.

Professionalism
- We provide you access to our industry partners. Hence we expect professional appearance and communication.
- As in a realistic industrial setting, we expect independent working attitudes.
- The participants in our course come from different backgrounds and study programs. Learn from each other.

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Next Steps.

**Application
Summary**

Next Steps

Application

Head over to **https://product-innovation-and-development.digital/** and submit your application for the course
The more information you give us, the easier for us
2 mandatory checks:
- MIT License: We will develop everything under MIT license
- NDA: It might be necessary to sign an NDA with the company of your challenge

⚠ **Deadline: 13.02.2025** ⚠

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Next Steps

Next Steps

- **Until 13.02. Apply for Course**
- **Until 19.02. Give preference to course on TUM matching plaform**

In a Nutshell: Why Should You Apply?

- Freedom to Innovate: Choose your tech stack and let your creativity shine.
- Hands-On Experience: Work on real industry cases and understand practical workflows.
- Comprehensive Learning: Explore the entire development cycle, from ideation to prototype delivery.
- Expert Guidance: Gain mentorship from delivery coaches and collaborate with industry professionals.

Further Information

https://www.fortiss.org/en/career/digital-product-innovation-and-development-2025

Vielen Dank!

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