iPraktikum

Winter Semester 2019/20 - Info Meeting

iPraktikum Winter 2019/20

In this course you develop a mobile application in the context of a larger system architecture. Depending on the project, you work with application servers, machine learning algorithms, smart sensors, intelligent clothing, wearables like the Apple Watch or micro-controllers.

You get to know the workflows, activities and tools of state-of-the-art agile software development from requirements engineering to system delivery. In particular, you learn Apple's programming language Swift, UI frameworks like UIKit and SwiftUI, and Server-Side Swift. In addition, you will gain hands-on knowledge in the fields of system modeling, usability engineering and continuous integration and delivery.

For this course, industry partners provide real problem statements. You get real team and project experience while working tightly together with a real client towards a real deadline.

Info Meeting

July 17, 4pm
MI HS 1 (00.02.001)

Registration

ase.in.tum.de/ios

Important Dates

Intro Course: Oct 8 - Oct 14
Kickoff: Oct 17, 4:30pm

✓ Real clients

Why us?

Real clients

Real problems

Real data

Real teamwork

Real projects

Real deadlines

Real delivery

This is a **challenging**, but **rewarding** course!

In this course, you will…

… develop a system in a mobile context for the iOS platform
Your project can also include application servers, sensors, wearables, micro-controllers, etc.

… gain experience in all parts of an agile software project
Planning, Design, Implementation, Testing, Delivery
Tooling: JIRA, Confluence, Bitbucket Server, Bamboo, Slack

… regularly deliver your apps to the customer and users
Learn about Continuous Delivery and how to understand, prioritize, and implement feedback from customers and end users

… improve your soft skills and learn to talk about your work
Hold presentations in front of all participants and customers
Learn how to tell a story about your project and do an engaging live demo

iPraktikum Overview

Program Management

- **Lukas Alperowitz** – Program Manager
- **Dora Dzvonyar** – Program Manager
- **Bernd Bruegge** – Program Manager, Methodologist

Infrastructure

- **Helma Schneider** – Head of Technology Administration
- **Franz Beilmaier** – Technical Administration
- **Monika Markl** – Chair Secretary
- **Ruth Demmel** – Head of Movie Team

adesso

- **Olaf Schumacher** – Adesso
- **Sacha Catelin** – Adesso

Project Management

- **Barbara Reichart** – Project Leader
- **Stefan Kofler** – Team Coach

Development Team

- Annika Saken
- Matthias Holdorf
- Ghulam Nasir
- Jonas Tomasini
- Malte Bucksch
- Sarah Jungwirth

BMW

- **Christoph Kracke** – BMW

Project Management

- **Stephan Krusche** – Project Leader
- **Florian Kistner** – Team Coach

Development Team

- Fabian Warthenpfuhl
- Stefan Reu
- Christian Eichhorn
- Daniel Nilsen
- Markus Jantunen
- Marla Narazani
- Patricia Vitoria Carrera

BOSCH

- **Matthias Schaffer** – Bosch
- **Renata Soares** – Bosch

Project Management

- **Dr. Yang Li** – Project Leader
- **Stephan Rabanser** – Team Coach

Development Team

- Ange Laure Temzeung Kouemo
- Ingo Glaser
- Samit Vaidya
- Agastya Fauzan Alfath
- Christian Dallago
- Michaela Pfister
- Shivguru Rao Bhimasena Visweswera

B/S/H/

- **Pavel Osipov** – B/S/H/

Project Management

- **Dora Dzvonyar** – Project Leader
- **Alexander Harlass** – Team Coach

Development Team

- Ekaterina Sebina
- Dennis Nehrenheim
- Julian Zurmühl
- Alexander Maslew
- Belinda Zahra
- Fabian Manhardt
- Sami Amr Afifi
- Tomas Ruiz

IGNITE Adaptive Sports

- **John Humbrecht** – Ignite Adaptive Sports
- **Alan Apt** – Ignite Adaptive Sports
- **Bernd Bruegge** – Global Project Liaison

Project Management

- **René Milzarek** – Project Leader
- **Sajjad Taheri** – Project Leader
- **Sebastian Stein** – Team Coach
- **Agnes Köhler** – Team Coach

Development Team

- Robert Krämer
- Maximilian Reif
- Laurence Castagnoli
- Lukas Heinzmann
- Samy El Deib
- Philipp Heuer
- Aldijana Sakinovic
- Ding Liu
- Carmen Breyer
- Shpend Mahmuti

Quartett mobile

- **Leon von Tippelskirch** – Quartett Mobile

Project Management

- **Sebastian Klepper** – Project Leader
- **Jan Philip Bernius** – Team Coach

Development Team

- Kilian Käslin
- Arald Haveriku
- Jimmy Abu Al Denien
- Florian Heinz
- Florian Seppi
- Manuel Nonnenmacher
- Teodora Lata
- Thu Lao

Coach Instructors

- Lukas Alperowitz
- Dora Dzvonyar

Cross-functional Teams

Modeling: Dora Dzvonyar, Florian Kistner, Stephan Rabanser

Release Management: Lukas Alperowitz, Jan Philip Bernius, Konstantin Kromer

Merge Management: Andreas Seitz, Alexander Harlass, Stefan Kofler

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- Florian Seppi
- Manuel Nonnenmacher
- Teodora Lata
- Thu Lao

Roche

- **Jens Pflüger** – Roche

Project Management

- **Lukas Alperowitz** – Project Leader
- **Marius Schulz** – Team Coach

Development Team

- Thomas Breier
- Michael Fröhlich
- Florian Dreier
- Gaurav Srivastava
- Irina Camilleri
- Kirsten Rauffer
- Tobias Piffrader

SIEMENS

- **Tobias Aigner** – Siemens CT

Project Management

- **Andreas Seitz** – Project Leader
- **Alexander Meissner** – Team Coach

Development Team

- Simon Rehwald
- Ramakant Agrawal
- Madhukar Sollepura Prabhu Shankar
- Lara Marie Reimer
- Monika Varshney
- Ning Wang
- Pedro Silva

SIEMENS

- **Dr. Asa MacWilliams** – Siemens CT
- **Steffen Klepke** – Siemens CT

Project Management

- **Zardosht Hodaie** – Project Leader
- **Cecil Wöbker** – Team Coach

Development Team

- Xiaoyu Guo
- Daniel Gallenberger
- Francisco Rubin
- Christian Kiwitt
- Lukas Steigerwald
- Marcus Hott
- Selina Elsner

T-Systems

- **Dr. Stephan Verclas** – T-Systems
- **Dr. Raman Tandon** – WIWeB

Project Management

- **Constantin Scheuermann** – Project Leader
- **Konstantin Kromer** – Team Coach

Development Team

- Josef Seidl
- Dimitar Magurev
- Valeria Chernenko
- Aly Saleh
- João Trindade
- Richard Otto
- Simon Zimmermann

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- Dora Dzvonyar

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Our expectations

Knowledge in OO programming languages and paradigms
Objective-C, Swift, Java, C++, C#, …

Basic skills in Modeling and Software Architecture
You understand e.g. UML Class and Component Diagrams

Willingness to work in a team
Real team work as well as communication with the customer.

High motivation and flexibility
Challenging tasks require attention and commitment beyond a normal lecture. This course is worth 10 ECTS, plan your time accordingly.

Important Dates

Final Presentations of this semester: July 24, 4:30pm @ MI HS1
Client Acceptance Test of all projects with live demo and buffet
We also have a livestream: https://livestream.com/ls1intum/19CAT

Intro Course: October 7-16 (Homework due October 16)
Intensive course before the beginning of the Praktikum
Introduction to Xcode, Swift, git…

Kickoff: October 17, 4:30 pm @ Interims Lecture Hall 2
All customers present their problems
We plan for ~12 projects with 6-8 team members

Attendance is mandatory. No excuses.

Please make sure you can attend sessions full time (exception: repeat exams)

Application

1. Express your intention by filling out the form at www1.in.tum.de/ios
Latest: July 24

2. Log in to the matching system of the Informatics department and make sure to give the iPraktikum your priority
Between: July 19 - 24

3. You can check yourself if you have been matched to the course
From: July 30

Impressions

Impressions

Further Information

Check our web site www1.in.tum.de/ios

Get an impression of the projects

- Come to the Client Acceptance test
- Talk to the participants and customers at the buffet afterwards
- Watch the recordings of previous terms: e.g. www1.in.tum.de/ios18

For all other questions write an email to ios@in.tum.de

Questions?
ZEISS
KitchenPaul