

iPraktikum

Winter Semester 2020/21 - Info Meeting



Chair for Applied Software Engineering
Prof. Dr. Bernd Brügge

iPraktikum Summer 2020

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

January 30, 4:30 pm
Interim Lecture Hall 1



Registration

ase.in.tum.de/ios



Preparation

Intro Course: April 14 - 22
Kickoff: April 22, 4:30 pm



Presentations

Design Review: June 17
Client Acceptance Test: July 22



iPraktikum

Winter Semester 2020/21 - Info Meeting



Marko Jovanović



Jens Klinker



Lara Marie Reimer



Paul Schmiedmayer

Why us?



RReal clients

RReal problems

RReal data

RReal teamwork

RReal projects

RReal deadlines

RReal delivery

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

Our 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.”*

(Chinese Proverb)

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

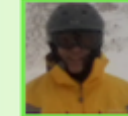



 Olaf Schumacher
Adesso

 Christoph Kracke
BMW


 Matthias Schaffer
Bosch

 Pavel Osipov
B/S/H/

 John Humbrecht
Ignite Adaptive Sports
 Alan Apt
Ignite Adaptive Sports

 Leon von Tippelskirch
Quartett Mobile

 Sacha Catelin
Adesso

 Bernd Bruegge
Global Project Liaison


Project Management

 Barbara Reichart
Project Leader

Project Management

 Stephan Krusche
Project Leader


Project Management

 Dr. Yang Li
Project Leader


Project Management

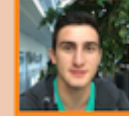
 Dora Dzvonyar
Project Leader

Project Management


 René Milzarek
Project Leader
 Sajjad Taheri
Project Leader


Project Management

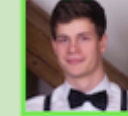

 Sebastian Klepper
Project Leader

 Stefan Kofler
Team Coach



 Florian Kistner
Team Coach

 Stephan Rabanser
Team Coach

 Alexander Harlass
Team Coach

 Sebastian Stein
Team Coach
 Agnes Köhler
Team Coach

 Jan Philip Bernius
Team Coach

 Lukas Alperowitz
 Dora Dzvonyar
Coach Instructors

Development Team

 Annika Saken

Development Team

 Fabian Warthenpfehl



Development Team

 Ange Laure Temzeung Kouemo

Development Team

 Ekaterina Sebina


Development Team


 Robert Krämer
 Maximilian Reif

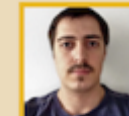
Development Team

 Kilian Käslin

Cross-functional Teams


 Dora Dzvonyar
 Florian Kistner
 Stephan Rabanser
Modeling


 Matthias Holdorf



 Stefan Reu


 Ingo Glaser

 Dennis Nehrenheim

 Laurence Castagnoli
 Lukas Heinzmann


 Arald Haveriku

 Lukas Alperowitz
 Jan Philip Bernius
 Konstantin Kromer
Release Management

 Ghulam Nasir



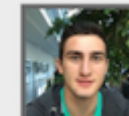
 Christian Eichhorn

 Samit Vaidya

 Julian Zurmühl


 Samy El Deib
 Philipp Heuer

 Jimmy Abu Al Denien



 Andreas Seitz
 Alexander Harlass
 Stefan Kofler
Merge Management


 Jonas Tomasini

 Daniel Nilsen


 Agastya Fauzan Alfath

 Alexander Maslew

 Aldijana Sakinovic
 Ding Liu

 Florian Heinz

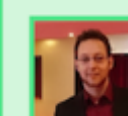
 Malte Bucksch

 Markus Jantunen

 Christian Dallago

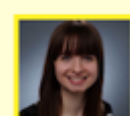
 Belinda Zahra

 Carmen Breyer
 Shpend Mahmuti

 Florian Seppi


 Sarah Jungwirth

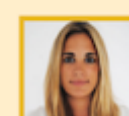
 Marla Narazani


 Michaela Pfister

 Fabian Manhardt

 Manuel Nonnenmacher

 Teodora Lata

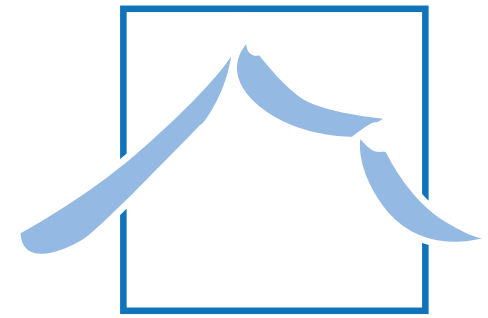
 Patricia Vitoria Carrera

 Shivguru Rao Bhimasena Visweswera

 Sami Amr Afifi

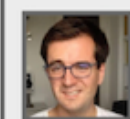


 Thu Lao

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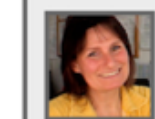


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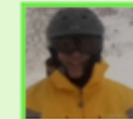


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Quartett Mobile

 **Jens Pflüger**
Roche

 **Tobias Aigner**
Siemens CT

 **Dr. Asa MacWilliams**
Siemens CT

 **Dr. Stephan Verclas**
T-Systems

 **Dr. Raman Tandon**
WIWeB

Project Management

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Project Leader
 **Sajjad Taheri**
Project Leader

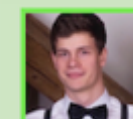
 **Sebastian Klepper**
Project Leader

 **Lukas Alperowitz**
Project Leader

 **Andreas Seitz**
Project Leader


 **Zardosht Hodaie**
Project Leader


 **Constantin Scheuermann**
Project Leader

 **Sebastian Stein**
Team Coach
 **Agnes Köhler**
Team Coach



 **Jan Philip Bernius**
Team Coach

 **Marius Schulz**
Team Coach

 **Alexander Meissner**
Team Coach

 **Cecil Wöbker**
Team Coach

 **Konstantin Kromer**
Team Coach

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Cross-functional Teams

 **Robert Krämer**
 **Maximilian Reif**



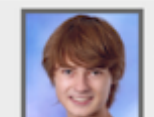
 **Kilian Käslin**


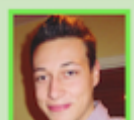
 **Thomas Breier**


 **Simon Rehwald**


 **Xiaoyu Guo**

 **Josef Seidl**

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 **Florian Kistner**
 **Stephan Rabanser**
Modeling


 **Laurence Castagnoli**
 **Lukas Heinzmann**


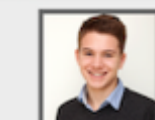

 **Arald Haveriku**

 **Michael Fröhlich**

 **Ramakant Agrawal**


 **Daniel Gallenberger**


 **Dimitar Magurev**

 **Lukas Alperowitz**
 **Jan Philip Bernius**
 **Konstantin Kromer**
Release Management


 **Samy El Deib**
 **Philipp Heuer**


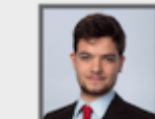

 **Jimmy Abu Al Denien**

 **Florian Dreier**


 **Madhukar Sollepura Prabhu Shankar**


 **Francisco Rubin**


 **Valeria Chernenko**

 **Andreas Seitz**
 **Alexander Harlass**
 **Stefan Kofler**
Merge Management

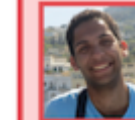
 **Aldijana Sakinovic**
 **Ding Liu**

 **Florian Heinz**


 **Gaurav Srivastava**

 **Lara Marie Reimer**


 **Christian Kiwitt**


 **Aly Saleh**


 **Carmen Breyer**
 **Shpend Mahmuti**

 **Florian Seppi**


 **Irina Camilleri**


 **Monika Varshney**


 **Lukas Steigerwald**


 **João Trindade**


 **Manuel Nonnenmacher**


 **Kirsten Rauffer**


 **Ning Wang**


 **Marcus Hott**


 **Richard Otto**

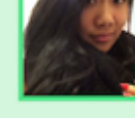
 **Teodora Lata**

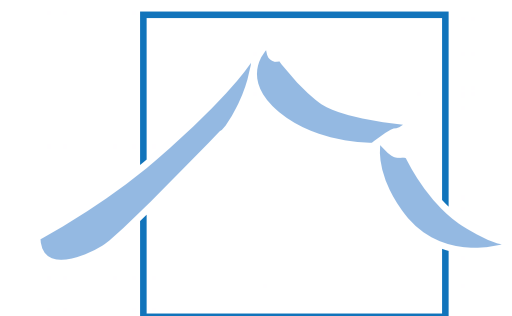
 **Tobias Piffrader**

 **Pedro Silva**

 **Selina Elsner**

 **Simon Zimmermann**

 **Thu Lao**



Our expectations



Knowledge in OO programming languages and paradigms

Objective-C, Swift, Java, C++, C#, ...



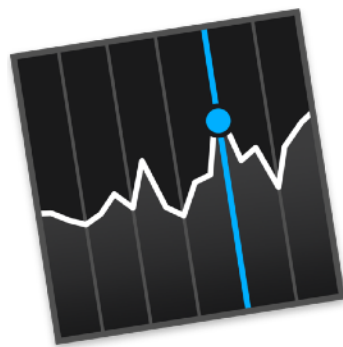
Basic skills in Modeling and Software Architecture

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 22, 4:30pm @ Interim HS1

Client Acceptance Test of all projects with live demo and buffet
We also have a livestream: <https://livestream.com/ls1intum/>



Intro Course: Oct 26 - Nov 04 (Homework due Nov 4)

Intensive course before the beginning of the Praktikum
Introduction to Xcode, Swift, git...

Attendance is mandatory. No excuses.

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



Kickoff: Nov 5, 4:30 pm @ Interim HS1

All customers present their problems
We plan for 10-12 projects with 6-8 team members

Schedule

(Preliminary)

October 2020

	Mon 26	Tue 27	Wed 28	Thu 29	Fri 30	Sat 31	Sun 1	Mon 2	Tue 3	Wed 4
9 AM		8:30 AM Lab Time	8:30 AM Lab Time	8:30 AM Lab Time	8:30 AM Lab Time			8:30 AM Lab Time		
10 AM	9:00 AM Getting Ready 9:30 AM Introduction	9:30 AM Swift 2	9:30 AM Swift 3	9:30 AM Swift 4	9:30 AM Tutor Session 1			9:30 AM Tutor Session 3		
11 AM										
Noon										
1 PM	11:30 AM Mac 101 12:30 PM Swift 1	12:30 PM App 2	12:30 PM App 3	12:30 PM App 4	12:30 PM Tutor Session 2			12:30 PM What Now?		
2 PM										
3 PM	3:00 PM App 1	2:30 PM Lab Time	2:30 PM Lab Time	2:30 PM Lab Time	2:30 PM Lab Time					
4 PM										
5 PM	5:00 PM Lab Time									
6 PM										
7 PM										

Application

1

Express your intention by filling out the form at ase.in.tum.de/ios2021

Latest: July 21, 2020, 11:30 pm

2

Log in to the [matching system of the Informatics department](#) and make sure to give the iPraktikum your priority

Latest: July 21, 2020, 11:30 pm

3

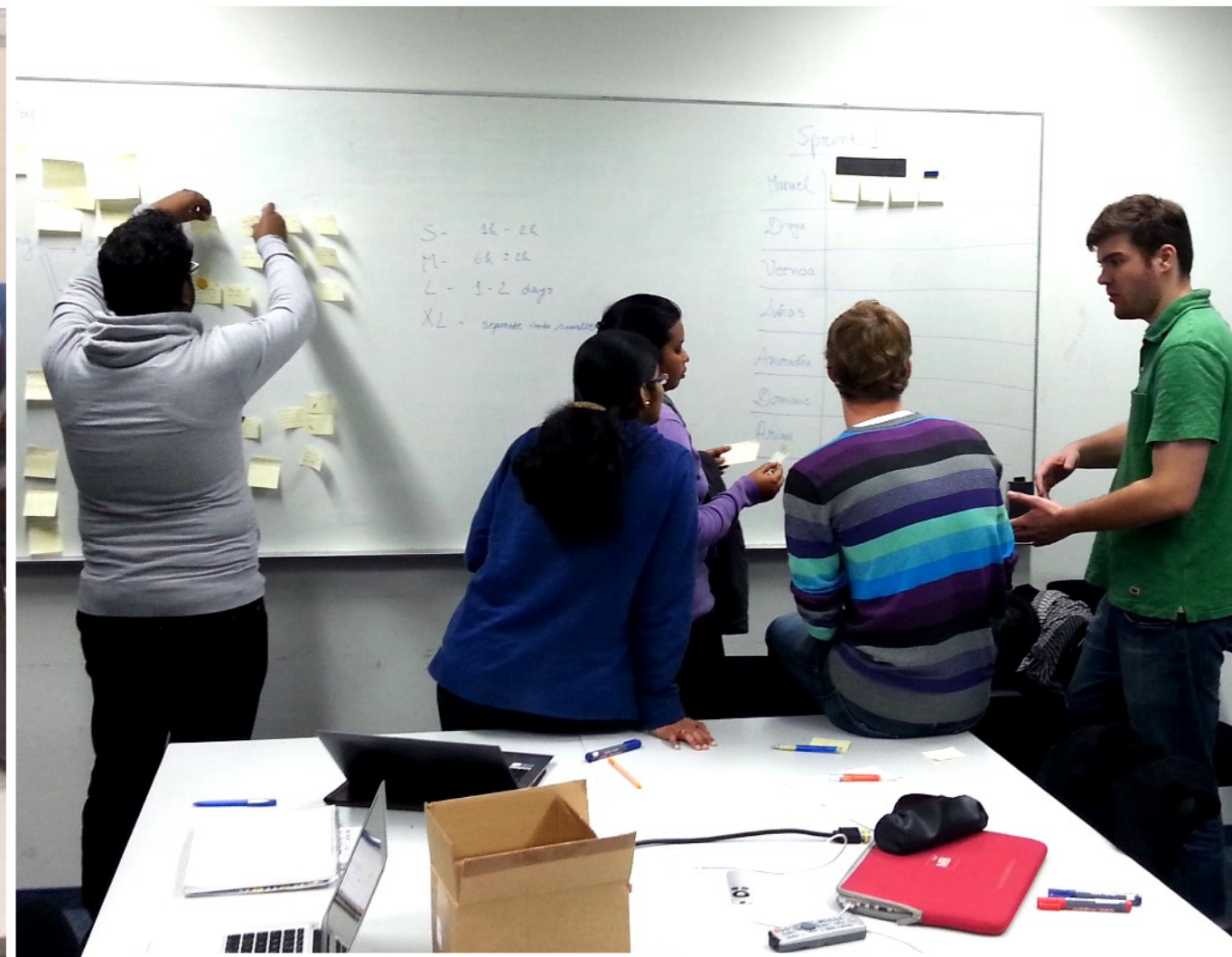
You can check yourself if you have been matched to the course <http://docmatching.in.tum.de/index.php/schedule>

From: July 30

Impressions



Impressions



Further Information

Check our web site ase.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. ase.in.tum.de/ios1920

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



Questions?

ios@in.tum.de