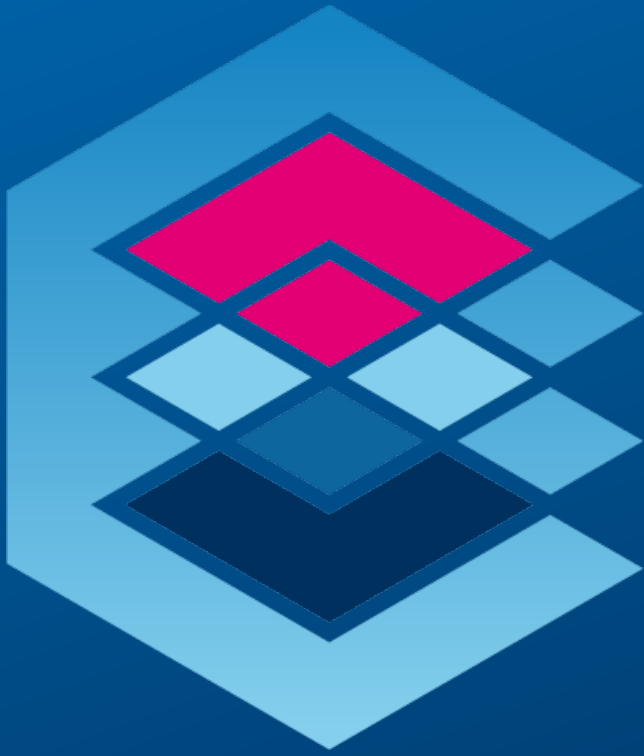




Deutsche Telekom Chair of Communication Networks
Technische Universität Dresden

Professor Dr.-Ing. Dr. h.c. Frank H.P. Fitzek

Software Engineering

Winter Semester 2024/2025



Teaching – 10 lecture series

ComNets 1	ComNets 2	ComNets 3
Smart Grid	Network Coding	Cooperative Communication
Software Engineering	Queuing Theory	Statistics 1/2
Hauptseminar	Oberseminar	Problem Based Learning

PhD Students finished: 14
PhD Students ongoing: 82

Bachelor Students finished: 59
Master Students finished: 13
Diplom Students finished: 53

Student Helpers currently: 6

Introduction to Course Software Engineering



- Please visit our web site for all information regarding time and lecture room

<https://cn.ifn.et.tu-dresden.de/teaching/lectures/software-engineering-grundlagen/>

- Lecture and exercises will change based on different aspects
- Download links for slides, further reading,



Prof. Dr.-Ing. Dr. h.c. Frank H. P. Fitzek



Dr.-Ing. Roland Schingnitz



Dr.-Ing. Stanislav Mudriievskiy



Dr.-Ing. Juan A. Cabrera Guerrero



Dipl.-Ing. Jonas Schulz

Date	Type	Lecturer	Room	Topic
16.10.24	L1	Prof. Frank Fitzek	POT/0081/H	Introduction
17.10.24	Tutorial	Dr. Stanislav Mudriievskiy	GÖR/0226/H	Software installation
23.10.24	E1	Dr. Stanislav Mudriievskiy	TOE/0317/H	
23.10.24	L2	Dr. Roland Schingnitz, Jonas Schulz	POT/0081/H	Practical examples in MicroPython for Raspberry Pi Pico
24.10.24	L3	Prof. Frank Fitzek, Dr. Juan Cabrera	GÖR/0226/H	Fun with Frank & Juan
30.10.24	E2	Dr. Stanislav Mudriievskiy	TOE/0317/H	
30.10.24	L4	Prof. Frank Fitzek, Dr. Juan Cabrera	POT/0081/H	Predicting machines and humans
31.10.24	Public holiday			
06.11.24	E3	Dr. Stanislav Mudriievskiy	TOE/0317/H	
06.11.24	L5	Prof. Frank Fitzek	POT/0081/H	Information and numbers representation, boolean logic
07.11.24	L6	Prof. Frank Fitzek	GÖR/0226/H	Computer architectures, memory, addressing
13.11.24	E4	Dr. Stanislav Mudriievskiy	TOE/0317/H	
13.11.24	L7	Dr. Stanislav Mudriievskiy	POT/0081/H	Flowchart, message sequence chart

OPAL

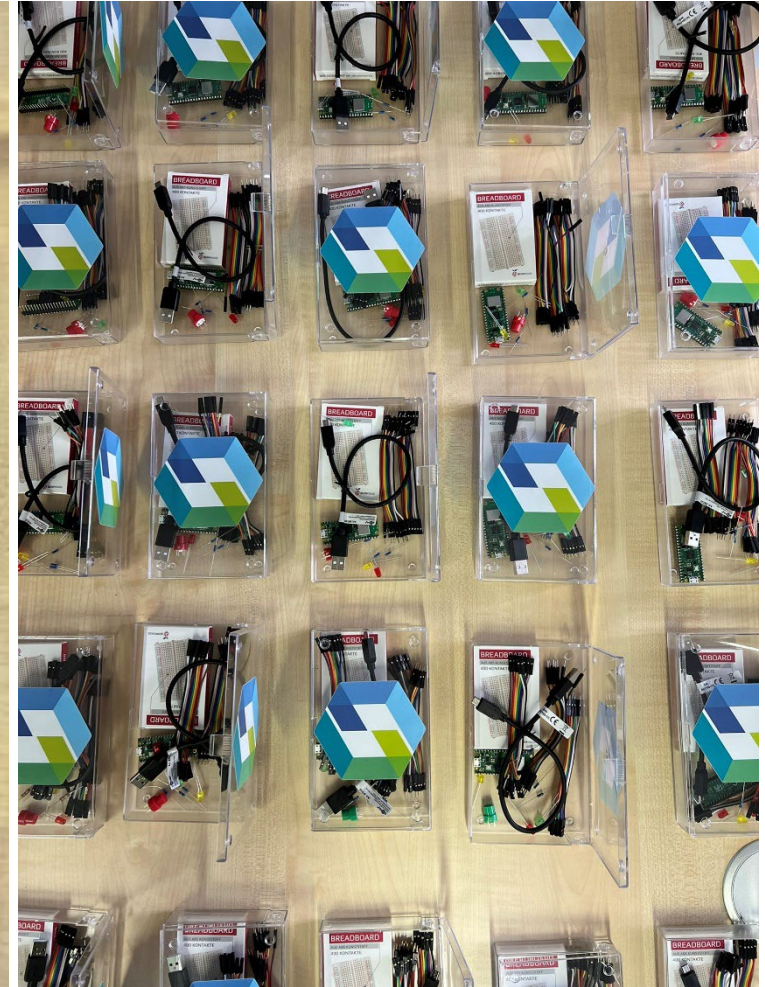
- Bitte alle Studenten in OPAL eintragen
- Link steht (oder kommt) auf der Webseite
- Wir benutzen OPAL
 - um mit den Studenten im Kontakt zu bleiben
 - Materialien
- Jeder Student **im OPAL** bekommt einen eigenen Raspberry PI Pico plus Hardware
- Videos von der Vorlesung

Programming Language

- Python
- MicroPython
- Problem Based Learning
- Praktikum / Labs
 - More info in our meetings and web pages

Was bedeutet das für die Vorlesung?



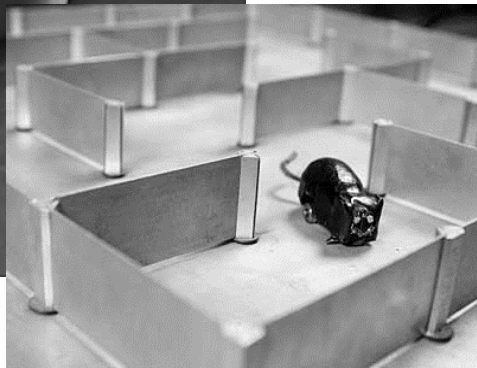


Python (2 Vorlesungstermine)

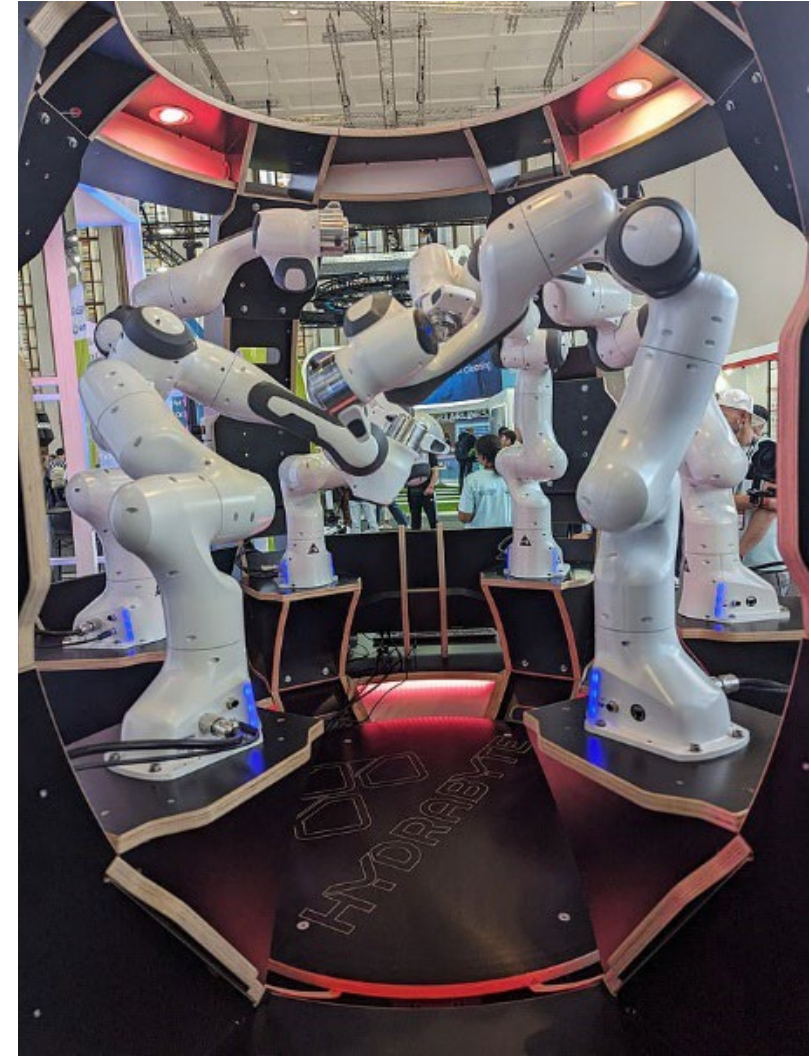
- 1 Vorlesung “Fun with Frank & Juan” – Panini Album
- 1 Vorlesung “CeTI with Frank & Juan”
- Studenten brauchen eine Python Programmierumgebung
 - PyCharm (inbuild Python)
 - Linux
 - <https://www.programiz.com/python-programming/online-compiler/>
 - <https://jupyter.org/try-jupyter/lab/>
 - Whatever works
- Eigenen Rechner mitbringen (wichtig!!!)



Claude Shannon



Robotics



Boston: Northeastern University and Boston Dynamics

