

PSWT Overview

Applied Software Engineering
Praktische Softwaretechnik

What is Software Engineering?

A systematic (engineering-science-based) approach to the design, development, and operation of software systems.

PSWT is one of two variants of studying software engineering at FAU; its focus is being applied to and close to industry needs.

PSWT is the „Research and Teaching Alliance for Applied Software Engineering“ by Lehrstuhl Informatik 2 and Professur für Open-Source-Software.

Goals of Education

To prepare students for a career as a

- **Researcher,**
- **Entrepreneur,** or
- **Industrialist**

in software and the high-tech industries.

You don't have to decide right away.

TIME

Required Courses

AuD

Algorithmen + Datenstrukturen
4 SWS, 5 ECTS

AuD equivalent

At least 4 SWS, 5 ECTS

PSWT

Praktische Softwaretechnik
4 SWS, 5 ECTS

PSWT equivalent

At least 4 SWS, 5 ECTS

Choice of Broadly Applicable Courses

ADAP

Advanced Design and Program-
ming, 4 SWS, 5 ECTS

PROD

Product Management, 4 SWS, 5
ECTS

AMOS

Agile Methods and Open Source,
4 SWS, 5 or 10 ECTS

SPM

Software Project Management,
4 SWS, 5 ECTS

TSWS

Testen von Softwaresystemen,
4 SWS, 5 ECTS

Recommended for Research Career Path

NYT

Nailing your Thesis, 4 SWS, 5 or
10 ECTS

ZP MA

Zeitplanungssysteme, 4 SWS, 5
ECTS

Recommended for Entrepreneur or Industrialist Career Path

UML

Object-Oriented Analysis and
Design with UML, 4 SWS, 5
ECTS

ARCH MA

Software Architecture, 4 SWS, 5
ECTS

DP

Design Patterns, 4 SWS, 5 ECTS

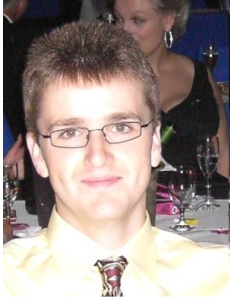
Required Courses

Final Thesis

Bachelor Thesis: 15 ECTS

Master Thesis: 30 ECTS

University-Employed Lecturers



**Dr.-Ing.
Norbert Oster**



**Prof. Dr.
Dirk Riehle**



**Dr.-Ing. Habil.
Peter Wilke**

Industry-Employed Lecturers



**Dr.-Ing.
Klaudia Dussa-
Zieger**



**Prof. Dr.
Bernd Hindel**



**Dr.-Ing.
Martin Jung**



**Prof. Dr.
Detlef Kips**



**Dr.-Ing.
Erich Meier**

Research Career: Nailing your Thesis (Lab Course)



Entrepreneur Career: The AMOS Project (Lab Course)



Industry Partners



Course Information

Official course information

- <https://pswt.cs.fau.de/teaching/>
- <http://osr.cs.fau.de/teaching/>

Other teaching information

- Impressions: <http://osr.cs.fau.de/category/teaching/>
- Schedules, recurrence: <http://wp.me/pDU66-II>

Some course-specific information

- PROD: <http://osr.cs.fau.de/category/teaching/prod/>
- AMOS: <http://osr.cs.fau.de/category/teaching/amos/>

Final Thesis

Choose one of

- **Research thesis**
- **Entrepreneur's thesis**
- **Industry thesis**

Learn more at

- <http://wp.me/pDU66-z7>
- <http://wp.me/pDU66-uK>

Contact Information

Prof. Dr. Dirk Riehle

dirk.riehle@cs.fau.de

Professur für Open-Source-Software

Computer Science Department

Martensstr. 3, 91058 Erlangen

Germany

<http://osr.cs.fau.de>

@osrgroup