

Training plan for the guided internship phase

in the Bachelor's degree program Information Security

Status: August 2024

Chronological position

5th semester

The internship (or also called practical phase) serves the practical training of the students and has a temporal scope of 20-26 weeks with full-time employment.

Training objectives

As many of the following objectives as possible are supposed to be achieved through the practical phase:

- Experience a high level of excellence and professionalism and use it as a benchmark to develop one's own quality standards.
- Develop the ability to precisely analyze and understand problems and requirements, such as customer requests.
- Gain insights into the company's structure, processes, and organizational workflows to understand the company holistically and integrate into it.
- Learn methods for designing and implementing problem solutions, particularly for business processes and IT projects focusing IT security, to develop practical solution strategies.
- Through targeted guidance, learn to work independently and responsibly on IT projects, enhancing problem-solving skills and decision-making confidence.
- Gain experience in teamwork and witness the dynamics and synergy effects of team processes.
- Experience the determination for the successful and professional implementation of projects by following role models in the company and drawing inspiration from them.
- Learn to identify and efficiently approach the right contacts in the company when facing problems.
- Connect theoretical competencies acquired during studies with practical experiences to develop a deep understanding of applying knowledge in real projects.
- Gain a comprehensive understanding of the profession of an IT security specialist and experience the various facets of this career.
- Witness how employees are motivated and inspired by shared goals and projects.
- Recognize and feel the purpose and significance of one's work, developing a sense of fulfillment and appreciation for one's own efforts.

Training content

The following training contents are provided for this purpose:

- In the context of a larger IT project, independent involvement in as many project phases as possible (system analysis, system planning, implementation, system introduction and testing) is highly appreciated. This project should last at least 12 weeks.
- Ideally, the intern will get to know various departments and areas of the company before the start of the project, in order to gain a rough understanding of other departments and the company as a whole.

A project topic must be agreed in the contract between the company and the intern. A more precise specification can be made no later than four weeks after the start of the internship, provided this specification has not already been made in the application for approval of the practical phase. The student must handle this project independently and give a presentation about this project at the end of the semester at the THWS. The student will be informed of the date by the THWS in good time.

A specific contact person or supervisor (mentor) on site is required and must be named before the start of the internship. The internship must take place outside of family structures.

Preparatory classes

The "Expertise and Communication" module serves as preparation for the internship. In this module, students are prepared to produce reports in companies that are appropriate to the subject and method and to present them in a formal and appropriate manner.