Elective module "Standards and Certification"

FRANKFURT
UNIVERSITY
OF APPLIED SCIENCES

Lecturer	Prof. Dr. Matthias F. Wagner
Module Components	2 SWS seminar
Preliminary Examination	none
Module Examination	4 page paper and talk of 30 minutes duration
Further Information	Before paper submission and talk preparatory hours are offered.

Keep in mind to register for every preliminary and module examination on the HIS-platform within the published time frame.

Learning outcomes and skills:

- assess the pressure to standardize the development of high-integrity systems;
- understand the growing importance of software safety;
- survey the body of safety standards with special emphasis on software;
- distinguish between safety standards of different application fields;
- understand the history of engineering for safety;
- explore the implications of new technologies, e.g. AI, for certification;
- achieve the ability for certification work;
- understand the roles of management and staff in certification work;
- search for, read, summarize and cite scientific literature on a large scale;
- read and interpret national and international standards;
- write a report as a scientific paper;
- give a scientific talk.