

## Module Description

# State-of-the-Art Reports

### General Information

#### Module Code

HABG\_STAR

#### Module Category

Specialization

#### Lessons

3 lecture periods per week

#### Number of ECTS Credits

3

#### Module Language

Taught in English

Materials in English

Projects (report, writing text section, presentation) can be completed in German or English

### Module Description

The goal of the STAR (State-of-the-Art Report) module is the conceptualization and realisation of a literature review that can be considered state-of-the-art in two ways: On the one hand, the students conduct a comprehensive literature review on a selected topic – and summarise the state-of-the-art in that area. On the other hand, the students demonstrate their ability to cite, employ, and discuss the researched literature in the report and in the presentation according to the scientific and methodological state-of-the-art.

The elective topics for the literature review are outlined by the supervisors, together with pointers to some relevant literature. The literature review project offers the students the opportunity to familiarize themselves with a less known or novel technology, method, or research area. The focus of the module is on finding, evaluating and summarising relevant literature with respect to the selected topic. The module comprises a scientific literature research. No experiments, implementations or practical course work are to be completed.

### Learning Objectives, Contents, Methods

#### Learning Objectives and Acquired Competences

Professional Goals:

- The students compare, analyse, and discuss a less known or novel technology or method from their respective study area by completing a literature research and writing a literature review.
- The students report, evaluate, and discuss different application cases of the technology or method based on reviewed literature.
- The students interpret relevant literature resources regarding the selected topic and discuss their content critically.

Methodical Goals:

- The students structure, summarise and discuss the results of the literature review appropriately and critically to give an overview as well as details on and applications of the selected topic.
- The students present the results of their (ongoing) work correctly and suitably to a professional audience in an oral presentation.
- The students deepen and apply their knowledge in project management.

#### Contents of the Module

- Introduction to and guidance on detailing and focusing the selected topic in discussion with the supervisor
- Introduction/refresher on doing a literature research and review
- Coaching on scientific writing and presenting based on literature
- Individual work on the selected topic (literature research, analysis, structuring and writing a scientific publication / a literature review)
- Presentation of the work (orally and in writing)

### Teaching and Learning Methods

Literature review – inputs, self-study, presentation, coaching, peer-feedback

### Assessment

#### Assessment and Testat Requirements

The following products are to be submitted at the end of the module. They will be assessed according to the assessment criteria.

- Written literature review on the selected topic  
Conditions: apply given layout, max. 10 pages, individual work, submit original files (i.e. doc-files) and PDF
- Annotated literature references (standard export from literature management software)

#### Testat Requirements

- Submission of a short, written paragraph for the coaching session on writing by the date given
- Oral presentation of (ongoing) work at the coaching session on presenting by the date given
- Attendance of the input and coaching sessions - (typically two sessions at the beginning of the semester, one coaching session on writing, two coaching sessions on presenting) at the dates given

#### Final module exam

No final module exam.

The module is assessed according to the assessment and testat requirements as detailed above.

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