inf800 - Proseminar in Computer Science

Module label	Proseminar in Computer Science
Modulkürzel	inf800
Credit points	3.0 KP
Workload	90 h
Verwendbarkeit des Moduls	- Bachelor's Programme Business Informatics (Bachelor) > Aufbaucurriculum - Pflichtbereich - Bachelor's Programme Computing Science (Bachelor) > Aufbaumodule - Dual-Subject Bachelor's Programme Computing Science (Bachelor) > Praktische Vertiefung (60 KP) - Master of Education Programme (Vocational and Business Education) Computing Science (Master of Education) > Praktische Vertiefung der Informatik
Zuständige Personen	- Nieße, Astrid (module responsibility) - Sauer, Jürgen (module responsibility) - Diethelm, Ira (module responsibility) - Lehrenden, Die im Modul (Prüfungsberechtigt)
Prerequisites	The specific participation requirements are described in the individual assigned courses.
Skills to be acquired in this module	Supported by a lecturer the students familiarise with a given topic by literature research. They understand and evaluate the relevance of the literature. After this evaluation the students present and discuss their solutions academically.

Professional competence
The students:

- characterise and apply computer science basics (algorithms, data structures, programming, basics of practical, technical and theoretical computer science)
- define und describe essential mathematical, logical and physical basics of computer science
- define and illustrate the core disciplines of computer science (theoratical, practical and technical computer science)

Methodological competence
The students:

- examine problems, use formal methods to phrase them and analyze them appropriately
- evaluate problems by the use of technical and scientific literature
- reflect on a scientific topic and write a scientific seminar paper under guidance and present their findings

Social competence
The students:

- communicate considerately and appropriately with users and experts
- use presentation methods

Self-competence
The students:

- plan their informatical actions independently
- reflect their contributions critically and discuss them with users and experts
- collect and update their knowledge independently

Module contents	according to the assigned task
Literaturempfehlungen	
Links	
Language of instruction	German
Duration (semesters)	1 Semester

Module frequency	each semester	
Module capacity	unlimited	
Reference text	Students must attend one of the seminars offered.	
	Passing the proseminar is a prerequisite for registering for the	
	Bachelor's thesis.	

Teaching/Learning method S

Examination	Prüfungszeiten	Type of examination
Final exam of module	Am Ende des Semesters und nach Absprache	
		• Active participation in the seminar is expected
		• Paper and presentation

Lehrveranstaltungsform Seminar

SWS 2
Frequency SoSe oder WiSe