Algorithmen und Programmierung

Winter

Grundlagen Programmierung und Algorithmen

(engl. Algorithms and Programming)

Modulnummer: FIN-INF-160002

Kürzel	CP	Semester	Fachsem.	Dauer	Sprache	Niveau
GPA	5	Winter	starting at 1.	1 Semester	deutsch	Bachelor

Link zum LSF:	LSF
Zugang beschränkt:	
Verantwortung:	Eike Schallehn
Dozent:in:	Eike Schallehn
Lehrveranstaltungen:	Vorlesung *Grundlagen Programmierung und Algorithmen* Übung *Grundlagen Progammierung und Algorithmen*
Verwendbarkeit:	

Angestrebte Lernergebnisse:
Graduates of this module...

- have an understanding of working with computers to support engineering application tasks.
- know means and methods for algorithm design and modeling to develop software.
- can solve initial programming tasks and test them successfully in a suitable development environment (e.g. Matlab).
- develop knowledge in programming and testing. The aim is to acquire skills and abilities to solve specific tasks in their own subject area using computers.
- acquire skills to be able to systematically develop computer science techniques in their further studies.

Inhalt:
The participants of this course will learn about

- Computers and logic
- Program structures
- Program planning process
- Properties and design of algorithms
- Decisions, loops
- Fields and methods
- Operations with fields and files
- Object-oriented programming
- Programming environment Matlab

Arbeitsaufwand:
54h attendance time (28h lecture, 28h exercise) 96h independent work

Prüfungsvorleistungen:	**Studien-/Prüfungsleistungen:**	**Lehrform / SWS:**
Admission from the exercises, conditions will be announced at the beginning of the course.	Written exam 120 minutes	• 2 SWS Lecture • 2 SWS exercise

Voraussetzungen nach Prüfungsordnung:	**Empfohlene Voraussetzungen:**
none	

Medienformen:	**Literatur:**

Hinweise:

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