

Einführung in die Informatik I

Winter

Algorithmen und Datenstrukturen für Bildungsstudiengänge

(engl. Introduction to Computer Science I)

Modulnummer: FIN-INF-914240

Kürzel	CP	Semester	Fachsem.	Dauer	Sprache	Niveau
EAD I	5	Winter	ab 1.	1 Semester	deutsch	Bachelor

Link zum LSF:	LSF
Zugang beschränkt:	
Verantwortung:	Rita Freudenberg
Dozent:in:	Rita Freudenberg
Lehrveranstaltungen:	Vorlesung EAD I Übung EAD I
Verwendbarkeit:	

Angestrebte Lernergebnisse:

Students

- know the basic concepts of computer science
- know computer science ways of thinking and working and can apply them to solve problems
- can solve algorithmic tasks and design data structures
- know the basic principles of programming and can apply them
- have skills in dealing with programming environments
- can classify computer science systems in their social context
- know the technical language of computer science and use it to communicate

Inhalt:

- Basic concepts of computer science

- Algorithmic structures - algorithmic paradigms, properties of algorithms, forms of description for algorithms
- Language translation and programming languages
- Syntax and semantics of programming languages
- Design, evaluation and implementation of algorithms
- Computer science systems and their impact on society

Arbeitsaufwand:

150h total 56h attendance time / 94h self-study

Prüfungsvorleistungen:	Studien-/Prüfungsleistungen:	Lehrform / SWS:
	written examination 120 minutes	Lecture (2 SWS) Exercise (2 SWS)

Voraussetzungen nach Prüfungsordnung:	Empfohlene Voraussetzungen:
none	

Medienformen:	Literatur:

Hinweise:

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