Computer Engineering 2

Summer

(in German: Technische Informatik 2)

Module-ID: FIN-INF-1103792

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
TI-2	5	Summer	4.	1 Semester	english	Bachelor

Link:	LSF
Limited accessability:	false
Responsibility:	Prof. Dr. Mesut Güneş, Prof. Dr. David Hausheer
Lecturer:	Prof. Dr. Mesut Güneş
Classes:	• Vorlesung *Technische Informatik 2* • Übung *Technische Informatik 2*
Applicability in curriculum:	- B.Sc. INF: Technische Informatik - B.Sc. INF: Aufbaumodule (SPO 2027) - B.Sc. CV: Informatik - Wahlpflicht - B.Sc. CV: Computervisualistik Wahlpflicht (SPO 2027) - B.Sc. INGINF: Technische Informatik - B.Sc. INGINF: Ingenieurinformatik Pflicht (SPO 2027) - B.Sc. WIF: Gestalten und Anwenden - Wahlpflicht - B.Sc. WIF: Informatik Wahlpflicht (SPO 2027) - B.Sc. INF (bilingual): Technische Informatik - B.Sc. INF (bilingual): Aufbaumodule (SPO 2027)

Intended learning outcomes:
Students ...

- understand processes in operating systems
- can implement algorithms for the synchronization of processes

- understand how deadlocks occur and can implement procedures to solve them
- understand memory management and scheduling in operating systems
- can implement processes in C and develop operating system-related programs
- understand the basics of communication networks

Content:
Introduction to operating systems and communication systems ...

- Processes & Threads
- Synchronization
- Deadlocks
- Memory management
- Scheduling
- I/O and file system
- Booting, services and security
- Networked computers and the Internet

Workload:
56h attendance time + 94h independent work

Pre-examination requirements:	**Type of examination:**	**Teaching method / lecture hours per week (SWS):**
	Written examination 120 Minutes	Lecture (2 SWS) Exercise (2 SWS)

Prerequisites according to examination regulations:	**Recommended prerequisites:**
none	Technische Informatik 1

Media:	**Literature:**
	wird auf der Web-Seite der VL bekanntgegeben

Comments:

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