# 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 |

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