

Studienplan

| Module | 1. Sem. | | | | 2. Sem. | | | | 3. Sem. | | | | 4. Sem. | | | | 5. Sem. | | | | 6. Sem. | | | | 7. Sem. | | | | Summe / Modul | | | |
|--|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|-----------|----|----|---|---------------|---|---|------------|
| | SWS | | | | SWS | | | | SWS | | | | SWS | | | | SWS | | | | SWS | | | | SWS | CP | | | | | | |
| | CP | V | Ü | P | CP | V | Ü | P | CP | V | Ü | P | CP | V | Ü | P | CP | V | Ü | P | CP | V | Ü | P | | | CP | V | Ü | P | | |
| Mathematik / Naturwiss. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mathematik I für Ing. | 10 | 4 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 10 |
| Mathematik II-III für Ing. | | | | | 7 | 3 | 3 | 0 | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | 9 | 11 |
| Modellbildung und Simulation | | | | | | | | | 5 | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Physik 1-2 | 5 | 2 | 2 | 0 | 5 | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | 8 | 10 |
| Informatik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grundlagen der Informatik für Ingenieure | 4 | 2 | 1 | 0 | 4 | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | 7 | 8 |
| Software Engineering for Technical Applications | | | | | | | | | | | | | 5 | 2 | 2 | 0 | | | | | | | | | | | | | | | 4 | 5 |
| Prinzipien und Komponenten Eingebetter Systeme | | | | | | | | | 5 | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Elektrotechnik/Lernsystem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grundlagen der Elektrotechnik 1 und 2 | 6 | 3 | 2 | 0 | 5 | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | 9 | 11 |
| Grundlagen der Elektrotechnik 3 und Labor | | | | | | | | | 5 | 2 | 1 | 1 | 2 | 0 | 0 | 1 | | | | | | | | | | | | | | | 5 | 7 |
| Aktorik / E-Maschinen / Antriebe | | | | | | | | | | | | | | | | | 7 | 3 | 2 | 0 | | | | | | | | | | | 5 | 7 |
| Projektseminar Elektrotechnik und Informationstechnik | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Informationstechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grundlagen der Informationstechnik mit Projekt | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | 7 | 9 |
| Projekt Informationstechnik | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Kommunikationselektronik mit Projekt | | | | | | | | | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | 7 | 9 |
| Teamprojekt Kommunikationselektronik | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Projekt Eingebettete Systeme / Automatisierung | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | 4 | 5 |
| Projekt Antriebsregelung / SPS | | | | | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | 5 | 5 |
| Kommunikationstechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Digitale Signalverarbeitung mit Projekt | | | | | | | | | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | 7 | 9 |
| Teamprojekt Speech Recognition/ Ass.system | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Nachrichtentechnik mit Projekt | | | | | | | | | | | | | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | 7 | 9 |
| Projekt Signalanalyse in Kommunikationstechnik | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | | |
| Projekt Mikroprozessordesign | | | | | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | 4 | 5 |
| Teamprojekt Eingebettete Systeme / Rekonfigurierbare Systeme | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | 4 | 5 |
| Systemtheorie und Regelungstechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signale und Systeme | | | | | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | 3 | 4 |
| Regelungs- und Steuerungstechnik | | | | | | | | | | | | | | | | | 7 | 3 | 2 | 0 | | | | | | | | | | | 5 | 7 |
| Messtechnik/Sensorik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Prozess-)Messtechnik und Sensorik | | | | | | | | | | | | | 5 | 3 | 1 | 0 | | | | | | | | | | | | | | | 4 | 5 |
| Projekt Messwerterfassung | | | | | | | | | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | 4 | 5 |
| Elektronik / Schaltungstechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elektronik mit Labor | | | | | | | | | 7 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | 5 | 7 |
| Elektronische Schaltungstechnik mit Projekt | | | | | | | | | | | | | 4 | 2 | 1 | 0 | | | | | | | | | | | | | | | 7 | 9 |
| Projekt Elektronische Schaltungstechnik | | | | | | | | | | | | | 5 | 0 | 4 | 0 | | | | | | | | | | | | | | | | |
| Wahlpflichtbereich | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| aus dem gesamten Katalog der Wahlpflichtmodule (Uni und FH) | | | | | | | | | | | | | | | | | | | | | 8 | 4 | 2 | 0 | | | | | | | 6 | 8 |
| Nichttechnische Fächer | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3 | 1 | 0 | | | 4 | 5 |
| Forschungsprojekt | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | 5 |
| Bachelorarbeit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bachelorarbeit mit Kolloquium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 |
| Summe CP / Sem.: | 30 | | | | 30 | | | | 30 | | | | 30 | | | | 32 | | | | 28 | | | | 30 | | | | | | | 210 |
| Summe SWS / Sem.: | 20 | | | | 25 | | | | 23 | | | | 23 | | | | 24 | | | | 18 | | | | | | | | | | | |