

Embedded Computing Systems TUK Curriculum

| Core Program | | | | | | |
|---------------------------|----------------------------------|---|-------------------------|-------------------------|-------------|----------------|
| | Code | Title | Credit points Winter | Credit points Summer | Instructor | Language |
| ES Hardware Architectures | EIT-EIS-571 | Architecture of Digital Systems I (Computer Architecture) | 4 | | Kunz | English |
| | EIT-EMS-546 | Embedded Processor Lab | | 3 | Wasenmüller | English |
| | EIT-EIS-573 | Architecture of Digital Systems II (Embedded Systems Architecture) | 4 | | Stoffel | English |
| | EIT-EIS-521 | Embedded Systems Laboratory | | 5 | Stoffel | English |
| System Software | EIT-RTS-545 | Operating Systems | 4 | | Fohler | English |
| | EIT-RTS-540 | Real-Time Systems I | | 4 | Fohler | English |
| | INF-75-50-V-7 | Introduction to Machine Learning 1 (optional, may be replaced by other course of interest) | | 8 | Kloft | English |
| SoC-Design Methodology | EIT-EMS-654 | Microelectronic Circuit and System Design I | 4 | | Wehn | English |
| | EIT-EMS-657 | Synthesis and Optimization of Microelectronic Systems I | 4 | | Wehn | English |
| | EIT-EIS-560 / EIT-EIS-562-M-7 | Verification of Digital Systems without/with optional class project | 5/8 | | Kunz | English |
| | | | | | | |
| Core Program | | | Σ 25/28 | Σ 20 | | Σ 45/48 |

Deviations from this course list are possible based on the individual background and interests of the student. Check notes on next page!

Details on modules can be found in <https://modhb.uni-kl.de/mhb/FB-EIT/cos-566/>

Notes

- ESY:** Core courses are entered into categories Theoretical Part (16 – 24 ECTS) and Specialization Subjects (18 – 32 ECTS) of the study plan form. In ESY these two categories are not distinguished, enter your core course into any of the two categories.
- EMECS:** At least 43 ECTS must be gained from Core Courses.
- Important:** Core courses cannot be dropped anymore from your study plan after you have failed the exam. Elective courses may be dropped after a failed exam, but the number of failures will be transferred to the replacing course.