

Module Handbook (<https://modhb.uni-kl.de/>)

[TUK \(https://www.uni-kl.de\)](https://www.uni-kl.de) [MODHB \(https://modhb.uni-kl.de/\)](https://modhb.uni-kl.de/) [Homepage \(/\)](#)

Module EIT-RTS-446-M-7

Real-Time Systems Laboratory I (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
EIT-RTS-446-M-7	<i>Real-Time Systems Laboratory I</i>	3.0 CP (90 h)

Basedata

CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in SuSe
Level	[7] Master (Advanced)
Language	[EN] English
Module Manager	Fohler, Gerhard, Prof. Dr. techn. (PROF DEPT: EIT) (/staff/341/)
Lecturers	Fohler, Gerhard, Prof. Dr. techn. (PROF DEPT: EIT) (/staff/341/)
Area of study	[EIT-RTS] Real Time Systems
Reference course of study	[EIT-88.781-SG#2010] M.Sc. Electrical and Computer Engineering [2010] (/mhb/FB-EIT/cos-556/)
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2L	EIT-RTS-446-K-7 (/mhb/courses/EIT-RTS-446-K-7/)	P	-	PL1	3.0	SuSe

- About [EIT-RTS-446-K-7]: Title: "Real-Time Systems Laboratory I"; Presence-Time: 28 h; Self-Study: 62 h

Examination achievement PL1

- Form of examination: **practical laboratory exam**
- Examination Frequency: each summer semester

Evaluation of grades

The module is not graded.

Contents

From [EIT-RTS-446-K-7] Real-Time Systems Laboratory I (/mhb/courses/EIT-RTS-446-K-7/):

- U-boot bootloader
- PikeOS hypervisor and real-time operating systems
- Quality-aware frame skipping

Competencies / intended learning achievements

- Real-time systems
- Bootloaders
- Operating systems and hypervisors
- Embedded systems

Requirements for attendance (informal)

Modules:

- [EIT-EIS-314-M-2] Fundamentals of Information Processing (M, 6.0 LP) (/mhb/modules/EIT-EIS-314-M-2/)
- [INF-80-15-M-2] Programming in C (M, 5.0 LP) (/mhb/modules/INF-80-15-M-2/)

Requirements for attendance (formal)

None

References to Module / Module Number [EIT-RTS-446-M-7]

Course of Study	Section	Choice/Obligation
[EIT-88.781-SG#2010] M.Sc. Electrical and Computer Engineering [2010] (/mhb/FB-EIT/cos-556/)	Elective Subjects	[W] Elective Module
[EIT-88.A44-SG#2018] M.Sc. Media and Communication Technology [2018] (/mhb/FB-EIT/cos-568/)	Technical Elective Subjects	[W] Elective Module
[EIT-88.?-SG#2021] M.Sc. Electrical and Computer Engineering [2021] (/mhb/FB-EIT/cos-686/)	Technical Elective Modules	[W] Elective Module
[EIT-88.?-SG#2021] M.Sc. Media and Communication Technology [2021] (/mhb/FB-EIT/cos-688/)	Technical Elective Modules	[W] Elective Module
[EIT-88.A20-SG#2021] M.Sc. European Master in Embedded Computing Systems (EMECS) [2021] (/mhb/FB-EIT/cos-566/)	Elective Subjects	[W] Elective Module
[EIT-88.?-SG#2021] M.Sc. Embedded Computing Systems (ESY) [2021] (/mhb/FB-EIT/cos-677/)	Elective Subjects	[W] Elective Module