

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

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Module EIT-FUN-405-M-4

Wireless and Multimedia Systems (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
EIT-FUN-405-M-4	<i>Wireless and Multimedia Systems</i>	3.0 CP (90 h)

Basedata

CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[4] Bachelor (Specialization)
Language	[EN] English
Module Manager	Schotten, Hans D., Prof. Dr.-Ing. (PROF DEPT: EIT) (/staff/347/)
Lecturers	Schotten, Hans D., Prof. Dr.-Ing. (PROF DEPT: EIT) (/staff/347/)
Area of study	[EIT-FUN] Wireless Communication and Navigation
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.
2V	EIT-FUN-405-K-4 (/mhb/courses/EIT-FUN-405-K-4/)	P	-	PL1	3.0	WiSe

- About [EIT-FUN-405-K-4]: Title: "Wireless and Multimedia Systems"; Presence-Time: 28 h; Self-Study: 62 h

Examination achievement PL1

- Form of examination: **oral examination (30 Min.)**
- Examination Frequency: each semester

Evaluation of grades

The grade of the module examination is also the module grade.

Contents

From [EIT-FUN-405-K-4] **Wireless and Multimedia Systems** (/mhb/courses/EIT-FUN-405-K-4/):

- Classification of wireless communication systems, architectures, interfaces, channels and basic concepts (e.g. link adaptation, radio resource management), standardization
- Special characteristics of generation, distribution, and presentation of multimedia content in wireless communication systems

Competencies / intended learning achievements

After completing this module you can...

- ... list and explain the characteristics of the following communication systems:
 - UMTS/HSPA/LTE
 - Bluetooth
 - WLAN
 - RFID
 - Wireless broadcasting (e. g. DVB-T/H)
- ... list and explain approaches for creation and provision of multimedia content for mobile devices.
- ... list and explain transmission methods for multimedia content via various wireless communication technologies.
- ... describe the use of multimedia content in terminals.
- ... apply the acquired methods for analyzing and designing multimedia systems.
- ... integrate the designed systems in existing technical and socio-economic structures.

Requirements for attendance (informal)

None

Requirements for attendance (formal)

None

References to Module / Module Number [EIT-FUN-405-M-4]

Course of Study	Section	Choice/Obligation
[EIT-88.781-SG#2010] M.Sc. Electrical and Computer Engineering [2010] (/mhb/FB-EIT/cos-556/)	Specialization Modules	[P] Compulsory
[EIT-88.A44-SG#2018] M.Sc. Media and Communication Technology [2018] (/mhb/FB-EIT/cos-568/)	Theory of Media and Communication Technology	[P] Compulsory
[EIT-88.?-SG#2021] M.Sc. Electrical and Computer Engineering [2021] (/mhb/FB-EIT/cos-686/)	Major Communication Technology (KOM)	[P] Compulsory
[EIT-88.?-SG#2021] M.Sc. Media and Communication Technology [2021] (/mhb/FB-EIT/cos-688/)	Theory of Media and Communication Technology	[P] Compulsory
[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

