

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

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## Module EIT-NAT-313-M-7

High Efficiency Broadcast (M, 3.0 LP)

### Module Identification

Module Number	Module Name	CP (Effort)
EIT-NAT-313-M-7	<i>High Efficiency Broadcast</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	[DE] German
Module Manager	Bogenfeld, Eckard, Dr.-Ing. (EXT   DEPT: EIT) (/staff/631/)
Lecturers	Bogenfeld, Eckard, Dr.-Ing. (EXT   DEPT: EIT) (/staff/631/)
Area of study	[EIT-NAT] Communications Engineering
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-NAT-313-K-7 (/mhb/courses/EIT-NAT-313-K-7/)	P	-	PL1	3.0	SuSe

- About [EIT-NAT-313-K-7]: Title: "High Efficiency Broadcast"; 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-NAT-313-K-7] High Efficiency Broadcast (/mhb/courses/EIT-NAT-313-K-7/):

- Entwicklungsgeschichte
- Quellencodierung/-decodierung
- Kanalcodierung/-decodierung
- digitale Modulationsverfahren
- Übertragungsverfahren
- Übertragungswege (Satellit, Kabel, terrestrisch)
- ETSI-Standards
- Stand der Technik

### Competencies / intended learning achievements

- Verstehen der Übertragungsverfahren und -wege des digitalen Fernsehens
- Kenntnis in Quellen- und Kanalcodierung/-decodierung
- Kenntnis des ETSI-Standards

### Requirements for attendance (informal)

Modules:

- [EIT-NAT-305-M-4] Communications Engineering (M, 5.0 LP) (/mhb/modules/EIT-NAT-305-M-4/)
- [EIT-NAT-315-M-2] Fundamentals of Signals and Systems (M, 5.0 LP) (/mhb/modules/EIT-NAT-315-M-2/)

### Requirements for attendance (formal)

None

## References to Module / Module Number [EIT-NAT-313-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/)	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