

Module description

Module title					Abbreviation
Amateur radio preparation course for the CEPT novice licens				se	10-I-AFU-E-232-m01
Module coordinator				Module offered by	
Dean of Studies Informatik (Computer Science)				Institute of Computer Science	
ECTS	Method of grading		Only after succ. compl. of module(s)		
5	(not) successfully completed				
Duration		Module level	Other prerequisites		
1 semester		undergraduate			

Contents

- Basic mathematical knowledge and units
- · International spelling alphabet
- Voltage and current, alternating voltage, Ohm's law
- Capacitors, coils, oscillating circuits
- Semiconductor, diode, transistor and amplifier
- Power and Energy
- Rules and regulations, call signs, country codes
- Electromagnetic field, wave propagation, antennas
- Decibel, Attenuation Cable
- RST system, UTC, logbook, QSL card
- Operation and abbreviations
- Digital transmission modes

Intended learning outcomes

The students gain a qualitative understanding of the topic of amateur radio (HAM Radio). They are able to calculate simple electrical circuits, operate radio equipment, and conduct radio conversations or communications.

Courses (type, number of weekly contact hours, language - if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 100 minutes) or b) oral examination of one candidate each (20-30 minutes)

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: usually every year, winter semester

 $\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

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Module appears in

Bachelor' degree (1 major) Biology (2011)

Bachelor' degree (1 major) Chemistry (2010)

Bachelor' degree (1 major) Physics (2012)

Bachelor' degree (1 major) Psychology (2010)

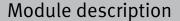
Bachelor' degree (1 major) Economathematics (2012)

Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2013)

Bachelor's degree (1 major, 1 minor) Pedagogy (2011)



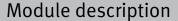
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Bachelor's degree (1 major, 1 minor) Pedagogy (2013)
Bachelor's degree (1 major, 1 minor) French Studies (2013)
Bachelor's degree (1 major, 1 minor) History (2010)
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012)
Bachelor's degree (1 major, 1 minor) Spanish Studies (2010)
Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013)
Bachelor's degree (1 major, 1 minor) English and American Studies (2010)
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)
Bachelor's degree (1 major, 1 minor) Gallo-Roman philology (2010)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2013)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2010)
Bachelor's degree (1 major, 1 minor) Italian Studies (2010)
Bachelor's degree (2 majors) Classical Archaeology (2013)
Bachelor's degree (2 majors) Pedagogy (2013)
Bachelor's degree (2 majors) Philosophy (2013)
Bachelor's degree (2 majors) Special Education (2009)
Bachelor's degree (2 majors) Digital Humanities (2012)
Bachelor's degree (2 majors) Political and Social Studies (2011)
Bachelor's degree (2 majors) Russian Language and Culture (2012)
Bachelor's degree (2 majors) European Ethnology (2013)
Magister Theologiae Catholic Theology (2013)
Bachelor's degree (2 majors) English and American Studies (2009)
Bachelor's degree (2 majors) German Language and Literature (2013)
Bachelor' degree (1 major) Chemistry (2015)
Bachelor' degree (1 major) Geography (2015)
Bachelor' degree (1 major) Mathematics (2015)
Bachelor' degree (1 major) Musicology (2015)
Bachelor' degree (1 major) Physics (2015)
Bachelor' degree (1 major) Psychology (2015)
Bachelor' degree (1 major) Business Management and Economics (2015)
Bachelor' degree (1 major) Nanostructure Technology (2015)
Bachelor' degree (1 major) Biomedicine (2015)
Bachelor' degree (1 major) Music Education (2015)
Bachelor' degree (1 major) Computational Mathematics (2015)
Bachelor' degree (1 major) Political and Social Studies (2015)
Bachelor' degree (1 major) Functional Materials (2015)
Bachelor' degree (1 major) Academic Speech Therapy (2015)
Bachelor' degree (1 major) Indology/South Asian Studies (2015)
Bachelor's degree (1 major, 1 minor) Egyptology (2015)
Bachelor's degree (1 major, 1 minor) Pedagogy (2015)
Bachelor's degree (1 major, 1 minor) History (2015)
Bachelor's degree (1 major, 1 minor) Musicology (2015)
Bachelor's degree (1 major, 1 minor) Philosophy (2015)
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)
Bachelor's degree (1 major, 1 minor) Ancient World (2015)
Bachelor's degree (1 major, 1 minor) Music Education (2015)
Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)
Bachelor's degree (1 major, 1 minor) Theological Studies (2015)
Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)
Bachelor's degree (2 majors) Egyptology (2015)
Bachelor's degree (2 majors) Pedagogy (2015)
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Bachelor's degree (2 majors) Protestant Theology (2015) Bachelor's degree (2 majors) Musicology (2015) Bachelor's degree (2 majors) Philosophy (2015) Bachelor's degree (2 majors) Special Education (2015) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015) Bachelor's degree (2 majors) Latin Philology (2015) Bachelor's degree (2 majors) Music Education (2015) Bachelor's degree (2 majors) Philosophy and Religion (2015) Bachelor's degree (2 majors) Theological Studies (2015) Bachelor's degree (2 majors) Digital Humanities (2015) Bachelor's degree (2 majors) Political and Social Studies (2015) Bachelor's degree (2 majors) Russian Language and Culture (2015) Bachelor's degree (2 majors) Greek Philology (2015) Bachelor's degree (2 majors) European Ethnology (2015) Bachelor's degree (2 majors) Indology/South Asian Studies (2015) Bachelor's degree (2 majors) Ancient Near Eastern Studies (2015) Bachelor's degree (2 majors) Geography (2015) Bachelor's degree (2 majors) French Studies (2015) Bachelor's degree (2 majors) History (2015) Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015) Bachelor's degree (2 majors) German Language and Literature (2015) Bachelor' degree (1 major) Mathematical Physics (2016) Bachelor's degree (2 majors) Theological Studies (2011) Bachelor's degree (1 major, 1 minor) French Studies (2016) Bachelor's degree (2 majors) French Studies (2016) Bachelor's degree (1 major, 1 minor) Italian Studies (2016) Bachelor's degree (2 majors) Italian Studies (2016) Bachelor's degree (1 major, 1 minor) Spanish Studies (2016) Bachelor's degree (2 majors) Spanish Studies (2016) Bachelor' degree (1 major) Romanic Languages (French/Italian) (2016) Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016) Bachelor' degree (1 major) Romanic Languages (Italian/Spanish) (2016) Bachelor' degree (1 major) Business Information Systems (2016) Bachelor' degree (1 major) Games Engineering (2016) Bachelor's degree (1 major, 1 minor) English and American Studies (2016) Bachelor's degree (2 majors) English and American Studies (2016) Bachelor' degree (1 major) Media Communication (2016) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major, 1 minor) Digital Humanities (2016) Bachelor' degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 minor) Geography (2017) Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017) Bachelor's degree (2 majors) History of Medieval and Modern Art (2017) Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017) Bachelor' degree (1 major) Aerospace Computer Science (2017) Bachelor' degree (1 major) Modern China (2017) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017) Bachelor's degree (1 major, 1 minor) Museology and material culture (2017) Bachelor' degree (1 major) Economathematics (2017) Bachelor' degree (1 major) Games Engineering (2017) Bachelor' degree (1 major) Computer Science (2017)

Bachelor' degree (1 major) Media Communication (2018)





Bachelor' degree (1 major) Biomedicine (2018)

Bachelor' degree (1 major) Human-Computer Systems (2018)

Bachelor's degree (2 majors) Classical Archaeology (2018)

Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)

Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)

Bachelor's degree (2 majors) Digital Humanities (2018)

Bachelor' degree (1 major) Computer Science (2019)

Bachelor's degree (1 major, 1 minor) English and American Studies (2019)

Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2019)

Bachelor' degree (1 major) Indology/South Asian Studies (2019)

Bachelor' degree (1 major) Business Information Systems (2019)

Bachelor's degree (2 majors) Indology/South Asian Studies (2019)

Bachelor' degree (1 major) Business Management and Economics (2019)

Bachelor' degree (1 major) Modern China (2019)

Bachelor' degree (1 major) Food Chemistry (2019)

Bachelor' degree (1 major) Biomedicine (2020)

Bachelor' degree (1 major) Pedagogy (2020)

Bachelor' degree (1 major) Political and Social Studies (2020)

Bachelor' degree (1 major) Business Information Systems (2020)

Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)

Bachelor's degree (2 majors) European Ethnology (2020)

Bachelor's degree (2 majors) Political and Social Studies (2020)

Bachelor's degree (2 majors) Special Education (2020)

Bachelor' degree (1 major) Physics (2020)

Bachelor' degree (1 major) Nanostructure Technology (2020)

Bachelor' degree (1 major) Mathematical Physics (2020)

Bachelor' degree (1 major) Aerospace Computer Science (2020)

Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)

Bachelor's degree (1 major, 1 minor) Pedagogy (2020)

Bachelor's degree (2 majors) Pedagogy (2020)

Bachelor' degree (1 major) Psychology (2020)

Bachelor' degree (1 major) Biology (2021)

Magister Theologiae Catholic Theology (2021)

Bachelor's degree (2 majors) History (2021)

Bachelor's degree (1 major, 1 minor) History (2021)

Bachelor' degree (1 major) Media Communication (2021)

Bachelor's degree (2 majors) Theological Studies (2021)

Bachelor's degree (1 major, 1 minor) Theological Studies (2021)

Bachelor's degree (1 major, 1 minor) English and American Studies (2021)

Bachelor's degree (2 majors) English and American Studies (2021)

Bachelor' degree (1 major) Functional Materials (2021)

Bachelor' degree (1 major) Computer Science und Sustainability (2021)

Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)

Bachelor' degree (1 major) Food Chemistry (2021)

Bachelor' degree (1 major) Quantum Technology (2021)

Bachelor's degree (2 majors) Special Education (2021)

Bachelor' degree (1 major) Business Information Systems (2021)

Bachelor' degree (1 major) Economathematics (2021)

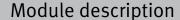
Bachelor' degree (1 major) Business Management and Economics (2021)

Bachelor' degree (1 major) Human-Computer Systems (2022)

Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)

Bachelor' degree (1 major) Biochemistry (2022)

Bachelor' degree (1 major) Biology (2022)





Bachelor' degree (1 major) Economathematics (2022)

Bachelor' degree (1 major) Mathematical Data Science (2022)

Bachelor' degree (1 major) Artificial Intelligence and Data Science (2022)

Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022)

Bachelor's degree (1 major, 1 minor) Ancient World (2022)

Bachelor's degree (2 majors) Ancient Near Eastern Studies (2022)

Bachelor' degree (1 major) Franco-German studies: language, culture, digital competence (2022)

Bachelor' degree (1 major) Midwifery (2022)

Bachelor' degree (1 major) European Law (2023)

Bachelor's degree (1 major, 1 minor) English and American Studies (2023)

Bachelor's degree (2 majors) English and American Studies (2023)

Bachelor' degree (1 major) Artificial Intelligence and Data Science (2023)

Bachelor' degree (1 major) Mathematics (2023)

Bachelor' degree (1 major) Business Information Systems (2023)

Bachelor' degree (1 major) Economathematics (2023)

Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2023)

Bachelor's degree (2 majors) History of Medieval and Modern Art (2023)

Bachelor's degree (2 majors) Special Education (2023)

Bachelor' degree (1 major) Business Management and Economics (2023)

Bachelor' degree (1 major) Geography (2023)

Bachelor's degree (2 majors) Geography (2023)

Bachelor's degree (1 major, 1 minor) Geography (2023)

Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023)

Bachelor' degree (1 major) Mathematical Physics (2024)

Bachelor's degree (2 majors) German Language and Literature (2024)

Bachelor's degree (1 major, 1 minor) German Language and Literature (2024)

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Bachelor's degree (2 majors) Latin Philology (2024)

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Bachelor' degree (1 major) Business Management and Economics (2024)

Bachelor' degree (1 major) Artificial Intelligence and Data Science (2024)

Bachelor' degree (1 major) Human-Computer-Interaction (2024)

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