# Module title
Electronic Components and Circuits

## Contents
- Principles of electronic components and circuits.
- Analogous circuit technology: Passive (resistors, capacitors, coils and diodes) and active components (bipolar and field-effect transistors, operational amplifiers).
- Digital circuits: different types of gates and CMOS circuits.

## Intended learning outcomes
- The students have knowledge of the practical setup of electronic circuits from the field of analogous and digital circuit technology.

## Courses
- Type: V + Ü
- Weekly contact hours: Unknown
- Language: German (if not otherwise stated)

## Method of assessment
- Written examination (approx. 90 minutes)
- Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.

## Allocation of places
- Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.

## Additional information
- Referred to in LPO I (examination regulations for teaching-degree programmes)
- Module appears in Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010)
- Bachelor's degree (1 major) Physics (2010)
- Bachelor's degree (1 major) Physics (2012)
- Bachelor's degree (1 major) Nanostructure Technology (2012)
- Master's degree (1 major) Physics (2011)
- Master's degree (1 major) Nanostructure Technology (2011)
- Bachelor's degree (1 major) FOKUS Physics (2011)