

Module title		Abbreviation
Basics of Electronics 1 & 2		99-EL-212-m01
Module coordinator		Module offered by
Dean of the Faculty of Electrical Engineering at the University of Applied Sciences Würzburg-Schweinfurt		University of Applied Sciences Würzburg-Schweinfurt (FHWS)
ECTS	Method of grading	Only after succ. compl. of module(s)
8	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Theoretical and practical basics of electricity, passive linear networks, semiconductor basics. Theoretical and practical basics of electrical measurement technology, basic circuits, basic elements of digital technology, switching networks and switching mechanisms, microprocessors.		
Intended learning outcomes		
The student has basic knowledge of theoretical and practical electricity theory, in particular of passive linear networks and semiconductors.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3) + Ü (1) + V (3) + Ü (1)		
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. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
240 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Functional Materials (2021)		