

<b>Module title</b>		<b>Abbreviation</b>
Basics of Electronics 1 & 2		99-EL-212-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of the Faculty of Electrical Engineering at the University of Applied Sciences Würzburg-Schweinfurt		University of Applied Sciences Würzburg-Schweinfurt (FHWS)
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
8	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
2 semester	undergraduate	--
<b>Contents</b>		
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.		
<b>Intended learning outcomes</b>		
The student has basic knowledge of theoretical and practical electricity theory, in particular of passive linear networks and semiconductors.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (3) + Ü (1) + V (3) + Ü (1)		
<b>Method of assessment</b> (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		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
240 h		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Bachelor' degree (1 major) Functional Materials (2021)		