

## Aufbau Studium Electrical Engineering B.Sc.

Semester 1	Introductory Mathematics (8/8)	Statics and Strength of Materials (5/4)	Programming (5/4)	Business Economics and Project Management (5/4)	Electrical Engineering I (5/4)	Introduction to EL (3/3)	Year 1 Fundamentals
Semester 2	Applied Mathematics (7/8)	Physics (5/4)	Advanced Programming (5/4)	Digital Electronics (5/4)	Electrical Engineering II (5/4)	Analog Electronics (5/4)	
Semester 3	Cross Cultural Management (5/4)	Microcontrollers (5/4)	Fields and Waves (5/4)	Signal Transmission (5/4)	Object oriented Programming (5/4)	Drives and Power Electronics (5/4)	Year 2 Specific basics
<b>Übergang: erstes Jahr - 10CP</b>							
Semester 4	Focus Field Subject 1 (5/x)	Focus Field Subject 2 (5/x)	Materials and Manu- facturing of Electronics (5/4)	Embedded Systems (5/4)	Signal Proc. & Measure- ment Technology (5/4)	System Theory and Controls (5/4)	Year 3/4 Profile development
<b>Übergang: erstes Jahr komplett</b>							
Semester 5	Focus Field Subject 3 (5/x)	Focus Field Subject 4 (5/x)	Microelectronic Control Systems (5/4)	Model-based Hardware Design (5/4)	Practical Electronics (5/4)	Interdisziplinäre Group Project (5/1)	
Semester 6	Internship Semester / Semester abroad (30/-)						
Semester 7	Elective (5/x)	Technology- and Innovation- Management (5/3)	Entrepreneurship Block (2/2)	Colloq. (3/-)	Bachelor Thesis (12/-)		

	Focus Field Electronics	Focus Field Communication	Focus Field Controls
Subject 1	Low Power Design	Mobile Information Devices	Numerical Mathematics
Subject 2	Design of env. Friendly Circuits and Recycling of Electronics	Audio & Speech Processing	Foreign Language / free Elective (Modelling and Simulation)
Subject 3	Optoelectronics	Biomedical Electronics	Controls
Subject 4	Nanoelectronics	Networks in Industrial Automation	Foreign Language / free Elective (Sensors and Actuator Networks)

Legende:

(CP/SWS)

CP: Kreditpunkte

SWS: wöchentliche Stunden