

Course Description – Summer 2025

Title	Robotic
Faculty	Electrical Engineering
Professor	Prof. Dr. Maria Schweigel
ECTS	5
Level	Bachelor
Requirements	
Add. Information	https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-elektrotechnik/internationales-f-et/international-students.html
Content	The module provides an introduction to the methods of robot control. Students get a systematic overview of the basic problems of robotics as well as the methods and algorithms for solving them. The topics of kinematics, sensors, actuators, localization, map generation, navigation, control architectures as well as robot control give the students a comprehensive basic knowledge of robotics. This basic knowledge is deepened in practical exercises.