

## Course Description – Summer 2023

<b>Title</b>	Robotic
<b>Faculty</b>	Electrical Engineering
<b>Professor</b>	Prof. Dr. Maria Schweigel
<b>ECTS</b>	5
<b>Level</b>	Bachelor
<b>Requirements</b>	
<b>Add. Information</b>	<a href="https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-elektrotechnik/internationales-f-et/international-students.html">https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-elektrotechnik/internationales-f-et/international-students.html</a>
<b>Content</b>	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, localisation, 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.