

## Course Description – Winter 2024/25

<b>Title</b>	Automatic Control
<b>Faculty</b>	Electrical Engineering
<b>Professor</b>	Prof. Dr. Silvio Bachmann
<b>ECTS</b>	5
<b>Level</b>	Bachelor
<b>Requirements</b>	Computer/Laptop with Windows operating system
<b>Add. Information</b>	<a href="https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaetelektrotechnik/internationales-f-et/international-students.html">https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaetelektrotechnik/internationales-f-et/international-students.html</a>
<b>Content</b>	<p>In theoretical part, students understand structure and functionality of flexible automation systems. You learn design methods for such technical systems and solutions and could practice it in development process.</p> <p>In practical part the students gain experience in the field of PLC programming by solving controlling tasks of sorting plant on virtual SIMATIC S7-1500. The supervised but independent work on configuration, programming and visualization tasks makes the students able to find and realize independently a solution for an automation problem.</p>