

Course Description – Summer 2023

Title	Robotic Vision
Faculty	Electrical Engineering
Professor	Prof. Dr. Maria Schweigel
ECTS	5
Level	Master
Requirements	Master student in electrical engineering or mechatronics engineering
Add. Information	https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-elektrotechnik/internationales-f-et/international-students.html
Content	<p>The students get to know the theoretical foundations of computer vision under consideration of issues of mobile robotics.</p> <p>Especially they learn about physics of light and color, means how a picture is generated, transforming coordinate systems, formation of an image, feature extraction and vision based control. All theoretical knowledge will be demonstrated on examples by using Vision Module of Matlab. Students will apply theoretical knowledge by solving exercises.</p>