

## Course Description – Winter 2021/2022

<b>Title</b>	Artificial Intelligence
<b>Faculty</b>	Electrical Engineering
<b>Professor</b>	Prof. Dr. Silvio Bachmann
<b>ECTS</b>	5
<b>Level</b>	Bachelor
<b>Requirements</b>	Basic knowledge in computing
<b>Add. Information</b>	
<b>Content</b>	<p>Students understand basic concepts and methods of Artificial Intelligence (AI). You learn to understand different AI methods and have practice work with Python.</p> <p>Parts</p> <ul style="list-style-type: none"> <li>- Theory <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Set of AI methods</li> <li>• Classification Problems</li> <li>• Propositional Logic</li> <li>• First-order Predicate Logic</li> <li>• Fuzzy Logic</li> <li>• Bayes Networks</li> <li>• Support Vector Machines</li> <li>• Neural Networks</li> <li>• Machine Learning</li> </ul> </li> <li>- Practice Work with Python <ul style="list-style-type: none"> <li>• Overview and Basics</li> <li>• Useful Packages</li> <li>• Creating Examples based on Theory</li> </ul> </li> </ul>