

## DDM Module 4212 – Master Thesis

1	<b>Module Number</b> 4212	<b>Study Programme</b> DDM	<b>Semester</b> 3	<b>Offered in</b> <input checked="" type="checkbox"/> WS <input type="checkbox"/> SS	<b>Duration</b> 1 Semester	<b>Module Type</b> compulsory	<b>Workload (h)</b> 900	<b>ECTS Points</b> 30
2	<b>Courses</b>		<b>Teaching and Learning Forms</b>		<b>Contact Time</b>		<b>Self-Study Time</b>	<b>Language</b>
	a) Soft Skills b) Master Thesis c) Defence		Lecture, group work Thesis Presentation		<b>(SWS)</b> 3 24 3	<b>(h)</b> 45 700 10	<b>(h)</b> 145	Englisch
3	<p><b>Learning Outcomes and Competences</b> Once the module has been successfully completed, the students can...</p> <p><b>Knowledge and Understanding</b></p> <ul style="list-style-type: none"> <li>• Handle and solve a problem with scientific methods on their own.</li> <li>• Professionally communicate with others.</li> <li>• Analyse of communication and behaviour patterns and adequate reactions</li> <li>• Manage specific situations and projects</li> </ul> <p><b>Use, Application and Generation of Knowledge</b></p> <p><i>Use and Transfer</i></p> <ul style="list-style-type: none"> <li>• Do scientific literature research.</li> <li>• Write a scientific report.</li> <li>• Give a presentation about thesis results.</li> <li>• Organize themselves.</li> </ul> <p><i>Scientific Innovation</i></p> <ul style="list-style-type: none"> <li>• Understand the theories and their limitations in there engineering discipline.</li> <li>• Find new solutions.</li> </ul> <p><b>Communication and Cooperation</b></p> <ul style="list-style-type: none"> <li>• Give comprehensive intermediate reports to supervisors.</li> <li>• Work together with technical staff in industrial labs.</li> <li>• Cooperate within their own department and other departments and suppliers.</li> </ul> <p><b>Scientific Self-Conception/ Professionalism</b></p> <ul style="list-style-type: none"> <li>• Work in R&amp;D departments in industry</li> <li>• Join a PhD program</li> </ul>							
4	<p><b>Contents</b></p> <p>a) Soft Skills: Communication: Sender/receiver model, levels of communication, perception and interpretation, NLP Presentation: Generation of presentations, advanced presentation techniques Teambuilding: Individual types according to MBTI, Team Set-Up Management and Leadership: Aims, Missions, Visions, Values, Corporate Governance, Motivation, Leadership Competence</p> <p>b) Master Thesis: Constitution of project structure (time schedule, work packages), realisation of given task with scientific methods and within a given timeframe, documentation and evaluation of results</p> <p>c) Defence: Presentation and defence of results</p>							
5	<p><b>Participation Requirements</b> compulsory: Lectures and labs of first and second semester, team project recommended: -</p>							

6	<b>Examination Forms and Prerequisites for Awarding ECTS Points</b> a) Group work with test, oral presentation 30 minutes b) Thesis report c) Presentation and oral examination , 30 minutes
7	<b>Further Use of Module</b> NA
8	<b>Module Manager and Full-Time Lecturer</b> Responsible: Prof. Dr.-Ing. Stefan Wagner Lecturer: Supervision of a professor of the Faculties Mechanical and Systems Engineering or Mobility and Technology acc. to topic
9	<b>Literature</b> NA
10	<b>Last Updated</b> 18.04.2021