## **Electric Mobility Production – Suggested Curriculum Overview**

<b>1 Semester</b> WS	Compulsory Courses				Elective Courses				
	Mechatronics and Control Techniques for Production Plants	Manufacturing Technology I	Industrial Intelligence Interlaced Quality Management		Elective Course	Elective Course			
	Gear and Transmission Technology*	Transmission			<ul> <li>Choose 1-2 from these electives</li> <li>Advanced Software Engineering</li> <li>Modeling, Model Reduction and Simulation in Laser Processing - Applications</li> <li>Tribology</li> </ul>				
	Language Courses				High Precision Glass Optics Manufacturing				
	German language course				<ul> <li>Laser Applications</li> <li>Simulation Techniques in Manufacturing Technology</li> <li>Process Analysis in Manufacturing Technology</li> <li>Power Electronics</li> <li>Control Engineering</li> </ul>				
0.00				ar	nd				
<b>2 Semester</b> SS	Manufacturing Technology II	Production Management B			Elective Course	Elective Course	Elective Course	Elective Course	
	Battery Production*	Electric Mobility Components Production *	Production of Electric Drives*	Welding and Joining Technologies*	Choose 3-4 from these electives  • Multibody Dynamics  • Modeling, Model Reduction and Simulation in Laser Processing - Laser  • Modeling, Model Reduction and Simulation in Laser Processing - Design  • Factory Planning				
	Language Courses				<ul> <li>Industrial product development process - battery systems for</li> </ul>				
	German language course				hybrid and electric vehicles  Intelligent Monitoring of Engineering Systems				
<b>3 Semester</b> WS					Elective Course	Elective Course			
	12-week Internship				<ul> <li>Choose 1-2 from these electives</li> <li>Advanced Software Engineering</li> <li>Modeling, Model Reduction and Simulation in Laser Processing - Applications</li> </ul>				
		Language Courses				<ul><li>Tribology</li><li>High Precision Glass Optics Manufacturing</li></ul>			
	Linguistic Elective				<ul> <li>Laser Applications</li> <li>Simulation Techniques in Manufacturing Technology</li> <li>Process Analysis in Manufacturing Technology</li> <li>Power Electronics</li> <li>Control Engineering</li> </ul>				
<b>4 Semester</b> SS		Master Thesis (six months)							