

## 2.2 Simulation of Logistic Aviation Systems (SLAS)

<b>Module leader:</b>	Prof. Dr.-Ing. Hans-Martin Niemeier			
<b>ECTS points:</b>	6 ECTS	<b>Workload (h):</b>	180	
<b>Type of module and position in the course of study:</b>	Mandatory module taught in the 2. semester	<b>Contact hours (h):</b>	56	
<b>Scope und frequency of teaching:</b>	14 classes in winter term	<b>Self-study (h):</b>	124	
<b>Type of module and position in other study programs or continuing education offers:</b>	-			
<p><b>Learning outcomes:</b></p> <p>Upon completion of this module students will be able to ...</p> <p>Knowledge and understanding (extension, consolidation and understanding of knowledge)</p> <ul style="list-style-type: none"> <li>▪ <i>understanding and application of the interdependency between the various parties in the aviation industry</i></li> <li>▪ <i>understanding of the role and connectivity of aircraft producers, airlines, air traffic systems, airports and legal authorities</i></li> </ul> <p>Using, applying and generating knowledge (applying and transferring knowledge, Scientific innovation)</p> <ul style="list-style-type: none"> <li>▪ <i>define an entry into service program of a new aircraft model</i></li> <li>▪ <i>design an aircraft rotation planning</i></li> <li>▪ <i>create a crew management and capacity planning</i></li> </ul> <p>Communication and cooperation</p> <ul style="list-style-type: none"> <li>▪ <i>terminology in the aviation industry</i></li> <li>▪ <i>understand the importance of comprising various stakeholders in the aviation industry</i></li> </ul> <p>Reflection of academic and professional identity</p> <ul style="list-style-type: none"> <li>▪ <i>develop individual management skills in the frame of the airline industry</i></li> <li>▪ <i>develop team skills within various departments and aspects of the airline industry</i></li> </ul>				
<p><b>Course content:</b></p> <ul style="list-style-type: none"> <li>▪ Aviation systems and its interdependences</li> <li>▪ Business processes in the aviation</li> <li>▪ Airline Management <ul style="list-style-type: none"> <li>• Airline Law, Commercial Law, Accountability and Management</li> <li>• Aircraft orders, economical aspects, strategic decisions</li> <li>• Introduction of a new aircraft model</li> <li>• Entry into service program</li> </ul> </li> <li>▪ Fleet and Capacity Planning</li> <li>▪ Dispatch and Operations Control</li> <li>▪ Aviation Security</li> <li>▪ Safety and Risk Management</li> <li>▪ Crisis Management</li> <li>▪ Complexity in the Airline Management</li> </ul>				
<b>Language of teaching:</b>	English			
<b>Prerequisites:</b>	None			
<b>Preparation/literature:</b>	To be presented and discussed in the first session of the course			
<b>Further information:</b>	Aulis platform to be used			
Courses of the module				
Course title	Teaching staff	Contact hours per week	Learning and teaching methods	Examination method(s), scope and duration
Simulation of Logistic Aviation Systems	Cpt. Sascha Unterbarnscheidt	4	S	R or MP