

Module description: Bachelor Thesis: Aviation																										
Module Code	t.BA.AV.BA.19HS																									
ECTS Credits	12																									
Language of Instruction/Examination	German																									
Organizational Unit	MEA Ltg.																									
Module Coordinator	Christoph Regli																									
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.																									
Module Characteristic	Type 7 Bachelor's thesis																									
Module Description	The bachelor thesis comprises independent exploration of a larger, practically focussed, technical and scientific problem. The topic dealt with can arise from the research and development of an institute, from an industrial partner or from an individual initiative.																									
Module Content	<ul style="list-style-type: none"> • In organising and carrying out their work, students should learn how to analyse the problem at hand, and to structure and plan their work with appropriate time management. Experimental research and/or modelling and simulation are required depending on the problem situation. Results should show a solution to the problem. Students can assess the results critically, and are able to judge if the set goals have been reached, or if the requirements of the task have been fulfilled. • During the course of the bachelor thesis students report their progress regularly and discuss the next steps to be taken. Both handling of the work and results are compiled in a technical report. An abstract is to be made in German and English. Results will also be presented viva voce. 																									
Prerequisite Knowledge																										
Learning Objectives (Competences)	<table border="1"> <thead> <tr> <th>Students...</th> <th>Competencies</th> <th>Taxonomies</th> </tr> </thead> <tbody> <tr> <td>Students generally work in teams of two and report to the task commissioner and the supervising lecturer.</td> <td>SO, SE</td> <td>K4</td> </tr> <tr> <td>Students put into practice their acquired engineering skills both theoretically and practically by focussing and working on a problem scenario in aviation, possibly in conjunction with an industrial partner.</td> <td>SO, SE, F, M</td> <td>K6</td> </tr> <tr> <td>Students are able to assess the results obtained critically and to judge if the set goals have been reached.</td> <td>M, F</td> <td>K6</td> </tr> <tr> <td>Students show the ability to acquire independently the necessary technical and scientific knowledge from the literature and field specific publication.</td> <td>M, F</td> <td>K4</td> </tr> <tr> <td>Students can recognise the difficulties of the task independently and plan their work accordingly.</td> <td>F, M</td> <td>K2</td> </tr> <tr> <td>Students show the ability to compile the results in a technical report and to present this information viva voce.</td> <td>SO, M, SE</td> <td>K5</td> </tr> <tr> <td>Students can apply skills and knowledge acquired from their studies to the problem at hand. They can also develop innovative solutions based on insights gained from their literature research.</td> <td>F, SO, SE, M</td> <td>K5</td> </tr> </tbody> </table>		Students...	Competencies	Taxonomies	Students generally work in teams of two and report to the task commissioner and the supervising lecturer.	SO, SE	K4	Students put into practice their acquired engineering skills both theoretically and practically by focussing and working on a problem scenario in aviation, possibly in conjunction with an industrial partner.	SO, SE, F, M	K6	Students are able to assess the results obtained critically and to judge if the set goals have been reached.	M, F	K6	Students show the ability to acquire independently the necessary technical and scientific knowledge from the literature and field specific publication.	M, F	K4	Students can recognise the difficulties of the task independently and plan their work accordingly.	F, M	K2	Students show the ability to compile the results in a technical report and to present this information viva voce.	SO, M, SE	K5	Students can apply skills and knowledge acquired from their studies to the problem at hand. They can also develop innovative solutions based on insights gained from their literature research.	F, SO, SE, M	K5
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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	report			100	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	-		-	-	-	-
Classroom Attendance Requirement	None					
Learning material						
Comments						