

Module description: Aviation Projects 4	
Module Code	t.BA.AV.PM4.19HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	ZAV
Module Coordinator	Jacinta Edebeli
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 4* 4 lab lessons per semester week and half-class
Module Description	The AV.PM4 Module aims to enhance students' critical thinking and logical argumentation skills in both written and spoken communication. It focuses on sustainability in aviation, emphasizing the use of sound data and information. The students will be tasked with developing a sustainability strategy for the aviation industry in a semester project. The students will gain the necessary skills in asking critical questions, engaging in search and review of scientific and non-scientific literature to answer these questions, and eloquently express one's ideas in front of an audience and in a report.
Module Content	<p>Sustainability pathways:</p> <ul style="list-style-type: none"> • Discussing various sustainability-related topics; • Learning about technology- and process-driven approaches towards a sustainable future in the aviation industry • Practicing critical examination and discussion of sustainability topics <p>Literature review:</p> <ul style="list-style-type: none"> • Performing multidisciplinary literature/online search on a given topic; • Differentiate between relevant and non-relevant content; • Efficiently extract relevant statements and information from any given source <p>Communication:</p> <ul style="list-style-type: none"> • Organizing information on a topic and presenting this information in a logical manner to achieve logical conclusions. • Participation in panel discussions and performing in-class presentations. • Outline important information from a panel discussion and seminar in notes collected in class (active listening) and posing critical questions to panelists. • Summarizing and reporting key content relevant to argumentative discourse, applying critical thinking and assessment of arguments raised; <p>Teamwork and project management:</p> <ul style="list-style-type: none"> • Working in a team of 3 or 4 in preparing for in-class presentations and panel discussions • Project planning, execution, and reporting
Prerequisite Knowledge	In-class attendance; the course is in English

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Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	The students will be familiar with various aspects of advancements in sustainable technologies and processes in the aviation sector. They will be able to perform a critical assessment of the viability of various pathways towards a sustainable future.	F	K6
	Given a topic, students will be able to perform purposeful literature search into the topic, identifying relevant literature across multiple disciplines, and differentiate between relevant and irrelevant literature, both in terms of content and quality of source (literature search).	M	K2, K3
	The students will be able to filter relevant information from identified (multidisciplinary) resources and organizing this information in a logical manner to back an argument (literature review)	M	K2, K3, K4, K5, K6
	The students will be able to express their argument(s) logically, concisely, and clearly in presentations and in panel discussions, using appropriate functional language (persuasive speech, public speaking)	SE, M	K4, K5, K6
	Students will be able to summarize and report key content relevant to a discourse, applying critical thinking and assessment of arguments raised.	SE, M	K4, K5, K6
	The students will be able to work in a team, coordinate efforts and distribute workload to achieve the semester project	SO	K3, K4, K5, K6
	The students will be able to report work done in the project scientifically (scientific writing)	M	K2, K3, K4, K5, K6
	The students will be able to engage in panel discussions and develop active listening skills through note taking	SE	K5, K6

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form
		other	Grade	0	0
	Performance assessment during the semester				
	Written 1. Literature library: Collection of research and most important findings (group grade)	Grade		10	
	Written 4. Notes taken during seminars, (individual grade)	predicate		5	
	Written 2. Responses to homework questions (group grade)	Grade		15	
	Spoken 3. Performance during panels sessions (group grade)	predicate		15	
	Speech 5. In-class presentations (Group grade)	Grade		10	
	Written -Report 6. Project report: summarizing efforts in and outcome of the project scientific literature style (group grade)	Grade		15	
	Spoken 7. Final presentation and defense of project work (group grade)	Grade		15	
	Written 8. Project management (group grade)	Grade		15	
Classroom Attendance Requirement	None 120 h per Student - Seminar and literature review days require presence				
Learning material	<ul style="list-style-type: none"> • Language lessons, practice and exercises in class related to interactive communication, logic, oral presentation, and scientific writing. • Guides in literature search and review in class • Topical presentations by experts in class 				
Comments	Please note that in-class attendance is a prerequisite for passing this course.				