

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 (Sustainability discussions) aims to enhance students' critical thinking and logical argumentation skills in both written and spoken communication. It focuses on sustainability in the transport and energy sector, particularly in aviation, emphasizing the use of sound data and information. 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 response to counter arguments.
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 energy and transport sector with focus on aviation; • 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; • Differentiate between reliable and non-reliable (or biased) sources; • Efficiently extract relevant statements and information from any given source <p>Communication:</p> <ul style="list-style-type: none"> • Organizing information on a position on a topic and presenting this information in a logical manner to achieve logical conclusions; • Presentations of one's information during a debate against counter arguments and, making sound reasoning on the spot; • Outlining important information from a panel/debate discussion 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; • Use of appropriate functional language for debates such as persuasion, polite disagreement, and holding the floor. <p>Teamwork:</p> <ul style="list-style-type: none"> • Working in a team of 2 or 3 in preparing for in-class debates and in participating in a debate.
Prerequisite Knowledge	In-class attendance

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Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	The students will be familiar with various aspects of envisioned sustainable technologies and processes in the energy and transport sector, with focus on aviation. They will be able to perform a critical assessment of the viability of various pathways towards a sustainable future.	F	K6
	Given a topic in sustainability and a perspective to defend, the students will be able to perform purposeful literature search, identify relevant literature across multiple disciplines to support their position in the argument, 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 debate and before a panel, using appropriate functional language (persuasive speech in debate style, public speaking).	SE, M	K4, K5, K6
	Students will be able to take notes and effectively organize key content relevant to argumentative discourse. Students will be able to summarize and report key content relevant to argumentative discourse, applying critical thinking and assessment of arguments raised.	SE, M	K4, K5, K6
	The students will cultivate active listening in a panel/debate and will be able to provide logical counter arguments, using appropriate language	SE	K6
	The students will be able to research in a team, coordinate efforts and distribute work load to achieve the best representation of their team in a debate	SO	K3, K4, 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		Assessment	Length (min.)	Weighting	Form
	Written <i>Written collection of research and most important findings (group grade): Notes from research in-class and at home</i>		Grade		20	
	Speech <i>Performance during debates: introduction speech and following rebuttals (group and individual grades) - In class debate participation</i>		Grade		20	
	Written <i>3. Notes taken during debate, including personal stand on the topic, based on the arguments presented during the debate (individual grade) - Active participation as audience in panel discussions and debates</i>		Grade		20	
	Written <i>4. Report/memo summarizing key content relevant to argumentative discourse, applying critical thinking and assessment of arguments raised.</i>		Grade		10	
	Speech <i>Final debate: performance during the debate including introductory speech (individual grade) - In-class research, preparation, and participation in a debate</i>		Grade		30	
Classroom Attendance Requirement	None 120 h per Student					
Learning material	<ul style="list-style-type: none"> • Language practice and exercises in class related to argumentative reasoning, logic, summarizing, expressing positions, and presenting concepts in written and spoken form. • 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.					