Module description: Infrastructure - Aerodromes							
Module Code	t.BA.AV.INFRA-AD.21HS						
ECTS Credits	4						
Language of Instruction/Examination	German						
Organizational Unit	ZAV						
Module Coordinator	Manuel Waltert						
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 2c***						
	4 lecture lessons per semester week each yearly starting-class						
Module Description	Introduction to planning, design, operation, and management of aerodromes systems						
Module Content	Introduction to aerodromes and aerodrome systems						
	Definition of interface to transportation systems on the airside and the landslide						
	Design and layout of runways, taxiways, apron, and stands						
	Design and layout of docks and terminals						
	Aerodrome capacity and simple capacity estimations						
	Introduction to aerodrome delay and aerodrome demand management						
	Introduction to passenger building processes, design and sizing of passenger processes						
	Aerodrome planning (tactical, strategical and master planning)						
	Aerodrome operations and management						
Prerequisite Knowledge	Solid knowledge (BSc AV, semesters 1, 2, and 3) on mathematics (calculus, linear algebra, stochastics) and physics.						

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Learning Objectives	Students					Comp	Competencies Taxonom			
(Competences)	You know the most important aerodrome processes and aerodrome subsystems and you understand how they interrelate to each other. You know how aerodrome processes are integrated in transportation system(s) on the airside and the landslide.					F		К1, К2	K1, K2, K3	
	You have a solid understanding of selected topics in the field of aerodrome operation and management.					M, F		K1, K2 K4	K1, K2, K3, K4	
	You know how to estimate capacity for selected aerodrome systems (runways, taxiways, stands, passenger processes, baggage sorting, etc.).						M, F		K3, K4	
	You know the most important planning parameters for runways, taxiways, aprons, and stands. You know how to adequately size runways, taxiways, aprons, and stands based on international standards (e.g. EASA CS ADR- DSN).					M, F		K1, K2 K4	K1, K2, K3, K4	
	You know how to plan and evaluate passenger buildings (passengers flows, definition of processes, sizing of infrastructure).					M, F		K1, K2 K4, K5	K1, K2, K3, K4, K5, K6	
	You are capable of adequately using aerodrome-related terms and terminology.					F		K1, K2	K1, K2, K3	
Performance Assessment	End-of-module exam	Assessment	Lei (mi	ngth Wei in.)		ighting Form				
	Grade		100) acc. to n agreem		module nent	nodule ent		
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	Performance assessment during the semester			Assessment		Length Wei (min.)		eighting	Form	
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Classroom Attendance Requirement	None									
Learning material										
Comments	Details regarding the assessment rules are described in the course materials on Moodle.									