Valid from 2024.HS

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2 lecture lessons per se half-class Materials science and c aluminium and composi		nd class+ 4 lab			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.						
half-class Materials science and c aluminium and composi		nd class+ 4 lab		Type 3b							
aluminium and composi	hemistry for avia		bi-we	ekly less	ons per se	emester and					
Lecture:	Materials science and chemistry for aviation engineers focusing on aerospace materials like aluminium and composites, non-destructive testing and the basics of chemistry for aviation.										
	Lecture:										
non-destructive testin	t construction in aircraft const ing for materials d the periodoc s and bilancing chemistry ab on important g / corrosion / el ch/GPMDocProc	truction s inspection system of the el t materials prop	ement erties	/ tensile mers		-					
Students				Compe	etencies	Taxonomie					
Students understand the properties of materials and can assign appropriate tests				F, M K3							
Students are able to determine the composition and M, F structure of aircraft materials				M, F		К3					
Students understanding the basics in chemistry and chemical processes and the application in the aviation industry				F, M		K3					
End-of-module exam	Assessment		Wei	ghting	Form						
written exam	Grade	90	100	acc. to module agreement							
ł	non-destructive testing the structure of aircraft massign appropriate testing structure of aircraft massign appropriate testing students understanding chemical processes at industry End-of-module exam	non-destructive testing / corrosion / enttps://gpmpublic.zhaw.ch/GPMDocProL_Modulauspraegungen_SM2025.pdf Students Students understand the properties of assign appropriate tests Students are able to determine the constructure of aircraft materials Students understanding the basics in a chemical processes and the application industry End-of-module exam Assessment	non-destructive testing / corrosion / electrochemistry https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Str L_Modulauspraegungen_SM2025.pdf Students Students understand the properties of materials and cassign appropriate tests Students are able to determine the composition and structure of aircraft materials Students understanding the basics in chemistry and chemical processes and the application in the aviatio industry End-of-module exam Assessment Length (min.)	non-destructive testing / corrosion / electrochemistry / polynometry://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/L_Modulauspraegungen_SM2025.pdf Students Students understand the properties of materials and can assign appropriate tests Students are able to determine the composition and structure of aircraft materials Students understanding the basics in chemistry and chemical processes and the application in the aviation industry End-of-module exam	non-destructive testing / corrosion / electrochemistry / polymers https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_G L_Modulauspraegungen_SM2025.pdf Students Students understand the properties of materials and can assign appropriate tests Students are able to determine the composition and structure of aircraft materials Students understanding the basics in chemistry and chemical processes and the application in the aviation industry End-of-module exam Assessment Length (min.) Weighting	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlager L_Modulauspraegungen_SM2025.pdf Students Students understand the properties of materials and can assign appropriate tests Students are able to determine the composition and structure of aircraft materials Students understanding the basics in chemistry and chemical processes and the application in the aviation industry F, M End-of-module exam Assessment Length (min.) Weighting Form written exam Grade 90 100 acc. to m					

Module description: Materials Technology for Aviation				
Classroom Attendance Requirement	None			
Learning material				
Comments				