

1.4 Human Factors in Leadership (HFL)

Module leader:	Prof. Dr.-Ing. Bernd Steckemetz			
ECTS points:	6 ECTS	Workload (h):	180	
Type of module and position in the course of study:	Mandatory module taught in the 1. semester	Contact hours (h):	56	
Scope und frequency of teaching:	14 classes in winter term	Self-study (h):	124	
Type of module and position in other study programs or continuing education offers:	-			
<p>Learning outcomes:</p> <p>Upon completion of this module students will be able to ...</p> <p>Knowledge and understanding (extension, consolidation and understanding of knowledge)</p> <ul style="list-style-type: none"> ▪ <i>impart knowledge and methods to enable independent orientation in complex and dynamic systems like the aerospace industry</i> <p>Using, applying and generating knowledge (applying and transferring knowledge, Scientific innovation)</p> <ul style="list-style-type: none"> ▪ <i>analyze and construct social, interindividual and anthropology-technical processes with special emphasis on leadership and followership in the aviation industry</i> ▪ <i>develop interdisciplinary problem solving strategies and to adapt these to the field of engineering in aeronautical management</i> <p>Communication and cooperation</p> <ul style="list-style-type: none"> ▪ <i>develop inter- as well as transactional systems of cooperation from a leadership perspective</i> <p>Reflection of academic and professional identity</p> <ul style="list-style-type: none"> ▪ <i>facilitate the ability to develop systems for professional cooperation and foster individual development - namely in professional aviation related contexts</i> ▪ <i>foster self reflection in regard to facilitating the development of a leadership personality</i> 				
<p>Course content:</p> <ul style="list-style-type: none"> ▪ Specific Human Factors in leadership, namely self reflection and personality, threat and error management, managerial decision making, professional communication, conflict management, workload management, developing and maintaining a healthy lifestyle ▪ Basic theories on leadership, basic forms of leadership and dysfunctional leadership (specifically the dark triad of power) ▪ Basics of Occupational Psychology ▪ Basics of Organizational Sociology as well as understanding and analyzing the interfaces of human, machine, environment and organizations ▪ Analyzing power structures in organizations and in interpersonal interaction ▪ Human Factors in organizational strategy and managerial tactics ▪ Techniques and strategies of scientific working 				
Language of teaching:	English			
Prerequisites:	None			
Preparation/literature:	To be presented and discussed in the first session of the course			
Further information:	Aulis platform to be used			
Courses of the module				
Course title	Teaching staff	Contact hours per week	Learning and teaching methods	Examination method(s), scope and duration
Human Factors in Leadership	Dominik Cardozo	4	S	KL (120 min) or MP