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: -

Learning outcomes:
Upon completion of this module students will be able to ...

Knowledge and understanding (extension, consolidation and understanding of knowledge)
- impart knowledge and methods to enable independent orientation in complex and dynamic systems like the aerospace industry

Using, applying and generating knowledge (applying and transferring knowledge, Scientific innovation)
- analyze and construct social, interindividual and anthropology-technical processes with special emphasis on leadership and followership in the aviation industry
- develop interdisciplinary problem solving strategies and to adapt these to the field of engineering in aeronautical management

Communication and cooperation
- develop inter- as well as transactional systems of cooperation from a leadership perspective

Reflection of academic and professional identity
- facilitate the ability to develop systems for professional cooperation and foster individual development - namely in professional aviation related contexts
- foster self reflection in regard to facilitating the development of a leadership personality

Course content:
- 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

<table>
<thead>
<tr>
<th>Course title</th>
<th>Teaching staff</th>
<th>Contact hours per week</th>
<th>Learning and teaching methods</th>
<th>Examination method(s), scope and duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Factors in Leadership</td>
<td>Dominik Cardozo</td>
<td>4</td>
<td>S</td>
<td>KL (120 min) or MP</td>
</tr>
</tbody>
</table>