1.3 Management Systems (MANS)						
Module leader:	Prof. DrIng. Markus Louis					
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 modul Knowledge and understanding	e students will be able to (extension, consolidation and u	nderstanding of knowledge	2)			

- understand the meaning of management and management systems and its relevance for the aviation industry
- understand the typical setup of projects with a special focus on aircraft development programmes
- highlight the need for an individual management style as a result of the various approaches for management systems

Using, applying and generating knowledge (applying and transferring knowledge, Scientific innovation)

- define and plan a project in the aviation industry
- define ways to execute projects under consideration of all internal and external stakeholders
  Communication and cooperation
  - understand the relevance of communication and collaboration in management and to define individual ways for a systematic implementation in aerospace business
- understand how to establish project organizations: focus on specific functions and individual characters
  Reflection of academic and professional identity
  - develop individual management styles by a discussion of standardized approaches

## **Course content:**

- Management and managements systems: Definition and presentation of specific approaches
- Aircraft development process
- Project Manager in Aerospace Industry: typical job content
- Four phases of project management (aligned to the aviation industry)
  - Initiation phase (e.g. SWOT analysis, SMART objectives)
  - Planning phase (e.g. Work Breakdown Structure, project schedule, risk management, reporting, budget control)
  - Execution phase (e.g. Milestone Trend Analysis, )
  - Closure phase (e.g. Lessons learned)
- Quality management systems
- Agile project management
- Ethics and compliance

Management Systems

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Language of teaching:	English						
Prerequisites:	None						
Preparation/literature:	To be pre	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		

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Prof. Dr.-Ing Markus

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