Module title
Introduction to Aerospace Systems

Abbreviation
10-I-ELR-092-m01

Module coordinator
Dean of Studies Informatik (Computer Science)

Module offered by
Institute of Computer Science

ECTS
6

Method of grading
numerical grade

Duration
1 semester

Module level
undergraduate

Other prerequisites
By way of exception, additional prerequisites are listed in the section on assessments.

Contents
History of space flight, carrier rockets, orbits of spacecraft, environment conditions in space, special aspects of space applications, foundations of subsystems of spacecraft. Introduction to aviation systems, physical foundations of aircraft aerodynamics, flight stability, airplane technology and structure of aircraft, foundations of aviation propulsion and suitable material.

Intended learning outcomes
The students possess the theoretical and practical knowledge necessary to correctly classify aerospace systems, correctly identify the most important system relationships, formulate requirements for new systems and do calculations for selected basic system elements.

Courses
This module comprises 2 module components. Information on courses will be listed separately for each module component.

• 10-I-ELR-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)
• 10-I-ELR-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component 10-I-ELR-1-092: Introduction to Aerospace Systems 1

• 3 ECTS, Method of grading: numerical grade
• written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)
• Other prerequisites: Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

Assessment in module component 10-I-ELR-2-092: Introduction to Aerospace Systems 2

• 3 ECTS, Method of grading: numerical grade
• written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)
• Other prerequisites: Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

Allocation of places
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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)
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**Module appears in**

Bachelor' degree (1 major) Aerospace Computer Science (2009)
Bachelor' degree (1 major) Aerospace Computer Science (2011)