Module title: Avionics Systems

Abbreviation: 10-I=AVS-141-m01

Module coordinator: holder of the Chair of Computer Science VIII

Module offered by: Institute of Computer Science

ECTS: 5

Method of grading: numerical grade

Duration: 1 semester

Module level: graduate

Other prerequisites: --

Contents:
The course Avionik-Systeme (Avionics Systems) offers an overview of software, hardware, sensors, actuators and communication of airplanes and satellites: 1. software module and the software structure, 2. control, 3. ground control, 4. sensors and actuators, 5. sensor fusion, 6. reliability.

Intended learning outcomes:
At the end of the course, the students should be familiar with typical structures of avionic systems for satellites and airplanes. They should be able to design these. They should be able to program simple controls.

Courses:
V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment:
written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes)
Language of assessment: German, English

Allocation of places:
--

Additional information:
--

Referred to in LPO I (examination regulations for teaching-degree programmes):
--

Module appears in:
Master's degree (1 major) Computer Science (2014)