

## Module description

Module title					Abbreviation
Measurement Technique 10-I-LMT-111-mo1					
Module coordinator				Module offered by	
Dean of Studies Informatik (Computer			Science)	Institute of Computer Science	
ECTS	Method of grading Only after succ. compl. of module(s)				
5 numeri		rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).		
Contents					
ment, resistance measurement (effective resistance and reactance), measurement bridge, influence of ground and stray capacitance, noise effects, dynamic behaviour of electrical systems, sensors and measurement techniques for: pressure, length, angle, temperature, sensors for optical measurements, force and acceleration, angular acceleration, measurement amplifier, measurement signal processing, AD-converter, digital measurements, frequency and time measurement, display of time dependence of electrical signals, computer-aided measurement recording, inertial navigation with inertial sensors, acceleration sensors, rotation (gyroscope), Coriolis angular sensor, position measurement using satellite navigation (GPS/GALILEO).  Intended learning outcomes					
The students master the fundamentals of measurement for aerospace systems and for applications in robotics and automation.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
$V + \ddot{U}$ (no information on SWS (weekly contact hours) and course language available)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
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)					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Professional Assistance and the second secon					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					

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