Module title				Abbreviation
UAS Operations				10-LURI=UAS-252-m01
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)**		
10	numerical grade	--		
Duration	**Module level**	**Other prerequisites**		
2 semester	graduate	--		

Contents

Legal aspects of UAS operations. Safety and Operational Risk Assessment. Navigation using inertial, satellite and fused solutions. Meteorology/weather induced effects on UAS operations. Role of human operator and operating procedures. Experiments with drones.

Intended learning outcomes

Understanding the feasibility of UAS operations considering safety aspects and operational risk assessment strategies. Familiarization with isolated and fused navigation solutions to provide adequate operational performance. Understanding the effects of meteorological phenomena on performance and flight safety. Understanding the role, challenges and limitations of a human operator of a UAS.

Courses (type, number of weekly contact hours, language — if other than German)

R (8)
Module taught in: German and/or English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

project report (10 to 15 pages) and presentation of project (15 to 30 minutes)
Language of assessment: German and/or English
creditable for bonus

Allocation of places

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Additional information

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Workload

300 h

Teaching cycle

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

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Module appears in

Master's degree (1 major) Aerospace Computer Science (2025)
exchange program Computer Science (2025)