



## Module description

Module title					Abbreviation
Rocket Propulsion					10-LURI=RP-232-m01
Module coordinator				Module offered by	
holder	of the C	Chair of Computer Science	VII Institute of Computer Science		
ECTS	CTS Method of grading		Only after succ. compl. of module(s)		
5 numerical grade					
Duration		Module level	Other prerequisites		
1 semester graduate		graduate			
<ul> <li>Introduction to Space Transportation and Liquid Rocket Propulsion         <ul> <li>Basics of Mathematical Modeling</li> <li>Modeling Examples in Space Transportation / Liquid Rocket Propulsion</li> <li>Basics of Rocket Engine Control and Condition Monitoring Systems</li> <li>Modern Approaches to Rocket Engine Control</li> <li>Rocket Engine Test Facilities</li> <li>Current &amp; Future Developments</li> </ul> </li> <li>Intended learning outcomes</li> <li>Students understand the basics of liquid rocket propulsion. They know the challenges related to the modeling of essential processes and the control of modern pump-fed rocket engines. They have learned about the operation of rocket engine test facilities and are aware of current developments.</li> <li>Courses (type, number of weekly contact hours, language – if other than German)</li> <li>V (2) + Ü (2)</li> <li>Module taught in: German and/or English</li> <li>Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)</li> </ul>					
written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (ap- prox. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Aerospace Computer Science (2023)					
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