

<b>Module title</b>		<b>Abbreviation</b>
Practical Telematics		10-LURI=PTEL-202-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Computer Science XVII		Institute of Computer Science
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>In this internship, students develop interdisciplinary solutions from the fields telecommunication, automation and computer science. The great advancements in the fields of telecommunication and informationprocessing allow to offer ever more sophisticated services over long distances. By combining these disciplines with control and automation techniques in the field of telematics, new possibilities arise to acquire data remotely from a distance and to react accordingly. Possible focus topics: - automation, industry 4.0 - mobile systems, sensor data processing - space flight</p>		
<b>Intended learning outcomes</b>		
<p>In this internship, students gather and deepen their skills in developing telecommunication solutions for automation systems or mobile robots. They learn acquiring fitting sensor data and evaluate it online (in realtime) and react with actions accordingly. They learn programming close to the hardware and master common libraries, for example the Robot Operating System (ROS).</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
P (6)		
<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)		
<p>Report on practical course (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic Language of assessment: German and/or English</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Master's degree (1 major) Aerospace Computer Science (2020)		
Master's degree (1 major) Aerospace Computer Science (2021)		
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