

<b>Module title</b>		<b>Abbreviation</b>
Advanced methods of data analysis		o6-HCI-METH-212-mo1
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Psychological Ergonomics		Institute of Human Computer Media
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>This course covers advanced methods of statistics such as single-factor and multifactor analysis of variance with repeated measures, regression analysis, and exploratory and confirmatory factor analysis. The individual lectures each include a knowledge base according to the current state of research by the lecturers. Students actively structure this knowledge themselves. In addition, e-learning materials with numerous application examples in various statistical programs are provided.</p>		
<b>Intended learning outcomes</b>		
<p>After participating in the module courses, students have knowledge of advanced methods of statistics. They will be able to interpret the results in scientific texts. The students are able to compare the methods regarding advantages and disadvantages in order to select the most suitable method for a specific problem. Furthermore, they are able to apply the basic steps of the application of these methods.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V/S (2)		
<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>a) written examination (approx. 75 minutes) or  b) oral examination of one candidate each (approx. 30 minutes)  Language of assessment: German and/or English  creditable for bonus</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<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) Human-Computer-Interaction (2021)		