

<b>Module title</b>		<b>Abbreviation</b>
Applied Stochastics Lab		10-M-APSL-222-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
6	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
Random number generators, Monte Carlo simulation, descriptive statistics, implementation of tests, estimators and confidence intervals, linear and logistic regression, analysis of (co-)variance, data applications		
<b>Intended learning outcomes</b>		
The student is acquainted with statistical software, e.g. R, able to apply suitable statistical methods to given data and problems and to adequately work out and present developed solutions.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) + P (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)		
project work (30 to 60 hours) Language of assessment: German and/or English creditable for bonus		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
180 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>		
Bachelor' degree (1 major) Mathematical Data Science (2022) exchange program Mathematics (2023)		