

<b>Module title</b>		<b>Abbreviation</b>
Planning and Decision Making in Business Information Systems		12-PEBI-232-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Holder of the Chair of Business Analytics		Faculty of Business Management and Economics
<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	undergraduate	--
<b>Contents</b>		
Quantitative methods form a central basis for business planning and decision-making. From the information systems perspective, these methods must be integrated into IT systems and processes. The lecture presents fundamental concepts and methods from the areas of decision theory and analysis, mathematical optimization and discrete Markov chains. The methods are applied in the exercise on the basis of examples and solved computer-aided.		
<b>Intended learning outcomes</b>		
<ul style="list-style-type: none"> <li>• Normative and empirical decision theory</li> <li>• Fundamentals of linear programming</li> <li>• Sensitivity analysis</li> <li>• Discrete Optimization</li> <li>• Discrete Markov chains</li> </ul>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) + Ü (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)		
a) written examination (approx. 60 minutes) or b) oral examination of one candidate each (approx. 20 minutes) c) portfolio (approx. 20 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>		
150 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) Business Information Systems (2023) Bachelor' degree (1 major) Economathematics (2023) Bachelor' degree (1 major) Business Management and Economics (2023) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)		