

<b>Module title</b>		<b>Abbreviation</b>
Decision Support Systems		12-M-DSS-102-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Information Systems Engineering		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	graduate	--
<b>Contents</b>		
<p>The course discusses advanced approaches for modelling and solving decision problems in business settings. The acquired insights are used to design and implement decision support systems using standard software tools.</p>		
<b>Intended learning outcomes</b>		
<p>After successfully completing the course, students should be able to</p> <ul style="list-style-type: none"> <li>• Understand the structure of classic business decision problems</li> <li>• Isolate key elements from general problem descriptions and convert them to quantitative decision models</li> <li>• Solve different classes of optimization problems (linear, network, integer, multi-objective, non-linear, stochastic)</li> <li>• Implement spreadsheet-based decision support systems</li> </ul>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V + Ü (no information on SWS (weekly contact hours) and course language available)		
<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>The method of assessment will be specified at the beginning of each exercise. a) written examination (approx. 60 minutes) or b) presentation (approx. 20 minutes) with written elaboration (approx. 15 to 20 pages), weighted 1:2 or c) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or c) completion of programming exercises (as specified)</p>		
<b>Allocation of places</b>		
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<b>Additional information</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>		
<p>Master's degree (1 major) Economathematics (2011)  Master's degree (1 major) Business Information Systems (2011)  Master's degree (1 major) Business Information Systems (2010)  Master's degree (1 major) Business Management (2011)  Master's degree (1 major) Business Management (2010)  Master's degree (1 major) Economics (2011)  Master's degree (1 major) Economics (2010)  Master's degree (1 major) China Business and Economics (2014)  Master's degree (1 major) China Business and Economics (2012)  Master's degree (1 major) Chinese and Economics (2014)  Master's degree (1 major) Chinese and Economics (2012)</p>		

