Module title

Decision Support Systems

Abbreviation

12-M-DSS-161-m01

Module coordinator

holder of the Chair of Information Systems Engineering

Module offered by

Faculty of Business Management and Economics

ECTS

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Method of grading

numerical grade

Only after succ. compl. of module(s)

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Duration

1 semester

Module level

graduate

Other prerequisites

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Contents

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.

Intended learning outcomes

After successfully completing the course, students should be able to

• Understand the structure of classic business decision problems
• Isolate key elements from general problem descriptions and convert them to quantitative decision models
• Solve different classes of optimization problems (linear, network, integer, multi-objective, non-linear, stochastic)
• Implement spreadsheet-based decision support systems

Courses

(type, number of weekly contact hours, language — if other than German)

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Method of assessment

(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 (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes)

Language of assessment: German and/or English creditable for bonus

Allocation of places

40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group.

Additional information

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
| Master's degree (1 major) China Business and Economics (2019) |
| Master's degree (1 major) China Language and Economy (2019) |