Module title	Abbreviation
Planning and Decision Making in Business Information Systems	12-PEBI-242-m01

Module coordinator	Module offered by
Holder of the Chair of Business Analytics	Faculty of Business Management and Economics

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	

Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	

Contents

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.

Intended learning outcomes

- Normative and empirical decision theory
- Fundamentals of linear programming
- Sensitivity analysis
- Discrete Optimization
- Discrete Markov chains

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 in groups of up to 3 candidates (approx. 15 minutes per candidate) or
c) portfolio (approx. 20 hours)
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

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Module appears in

Bachelor' degree (1 major) Business Information Systems (2024)
Bachelor' degree (1 major) Economathematics (2024)
Bachelor' degree (1 major) Business Management and Economics (2024)
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)