Module title	Abbreviation
Managerial Problem Solving	12-MPS-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

The course provides an introduction to data-based methods for modeling and solving quantitative business problems. In particular, Microsoft Excel is used to manage, visualize, and analyze data. In addition, mathematical optimization problems are solved using Excel Solver and the fundamentals of programming with VBA are discussed.

Intended learning outcomes

1. Prepare, visualize and analyze data sets using Excel
2. Select and forecast different time series problems
3. Understand simple, multiple and dummy regressions
4. Implement and solve linear optimization problems using the Excel Solver
5. Fundamentals of Excel VBA programming

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

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Module taught in: English

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 5 candidates (approx. 15 minutes per candidate) or
c) portfolio (approx. 20 hours)
Language of assessment: English
creditable for bonus

Allocation of places

40 places. WA1:
(1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects.
(2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure.
(3) A waiting list will be maintained and places re-allocated by lot as they become available.

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)