Module title			Abbreviation
Information Processing within Organizations			12-IV-161-m01
Module coordinator		**Module offered by**	
Dean of the Faculty of Business Management and Economics		Faculty of Management and Economics	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	graduate	--	

Contents

This module lays the foundation for understanding business informatics and explores various aspects of the field. It covers different application areas of business information systems, the latest technologies, and their integration into existing structures.

Content:
- Integration into information systems
- Change and project management, requirements engineering
- Data storage, processing, and structures
- Business logic, algorithms, optimization, system architecture, microservices, virtualization
- Internal vs. external integration, technical interfaces
- Cloud, operational models, platforms, distributed ledger technology
- Data and IT security
- Process/task mining, hyperautomation, business intelligence, machine learning

Intended learning outcomes

The "Information Processing within Organizations" module aims to achieve the following learning outcomes:
1. Knowledge of Information Systems: Students understand and apply core concepts such as data processing and system architecture, can integrate new technologies into systems, and develop practical applications.
2. Analysis of Business Processes: They recognize and analyze business information systems, model business processes, and optimize system landscapes using ERP systems and project management methods.
3. Development of Business Solutions: Students use their knowledge of modern technologies and business intelligence to develop integrative business solutions and solve operational challenges.
4. Evaluation of Technology Trends: They have a deep understanding of IT security and modern technologies, critically assess technology trends, and lead their implementation in business contexts.

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)

written examination (approx. 60 minutes)
Language of assessment: German and/or English
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: winter semester

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) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)