

Module title		Abbreviation
Business Software 2		12-M-ERP-222-m01
Module coordinator		Module offered by
holder of the Chair of Business Management and Business Information Systems		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		
<p>The course comprises four main parts:</p> <ul style="list-style-type: none"> • Business Process Management • Modern Data Management • Process Mining • Process Automation <p>In addition to the lectures, students have the opportunity to engage with fundamental research papers on Business Process Management and gain practical experience by solving a case study based on real event logs.</p>		
Intended learning outcomes		
<p>The module "Business Software 2: Data-driven Business Process Management and Automation" aims to achieve the following learning outcomes:</p> <ol style="list-style-type: none"> 1. Understanding of Business Process Management: Upon completion of the course, students will be able to articulate the fundamental theories and practical methodologies of Business Process Management. This includes the ability to analyze, redesign, and implement improved business processes both manually and using automated tools. 2. Application of Modern Data Management Techniques: Students will acquire competencies in modern data management practices that are essential for real-time decision-making in business contexts. 3. Conducting Process Mining: Students will develop skills in process mining, enabling them to extract data from event logs and analyze this information to uncover inefficiencies and opportunities within business processes. They will learn to apply process mining tools and techniques to real datasets, interpret results, and propose actionable improvements. 4. Implementation of Process Automation Solutions: The course equips students with the knowledge and skills to automate business processes using industry-standard automation software such as UiPath. Students will learn to identify suitable processes for automation, design automation workflows, and implement these systems to enhance operational efficiency. 5. Engagement in Scientific Research and Practical Application: Students will expand their academic and practical understanding by engaging with fundamental research papers in the field of Business Process Management. They will also gain practical experience through case studies and hands-on projects, allowing them to effectively apply theoretical knowledge to solve real-world problems. 6. Development of Professional Competencies: Throughout the course, students will develop a range of professional skills, including critical thinking, problem-solving, teamwork, and effective communication. These competencies are crucial for successful career development in Business Process Management and related fields. 		
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)		
<p>written examination (approx. 60 minutes) or oral examination (one candidate each: approx. 10 to 15 minutes, groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) or term paper (15 to 20 pages)</p> <p>Language of assessment: German and/or English</p> <p>Assessment offered: Once a year, summer semester</p> <p>creditable for bonus</p>		

Allocation of places

20 places.

Should the number of applications exceed the number of available places, places will be allocated as follows:

- (1) Master's students of 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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Workload

150 h

Teaching cycle

Teaching cycle: summer semester

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

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Module appears in

Master's degree (1 major) Information Systems (2022)