

Module title		Abbreviation
Forward and Reverse Business Engineering		12-FRBE-F-152-m01
Module coordinator		Module offered by
Holder of the Chair of Business Management and Business Information Systems		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		
<p>"Business Engineering" refers to the method and model-based design theory for companies in the information age. "Forward" refers to design methods (such as situation analysis, requirements analysis and business process modelling) that help implement a new solution. "Reverse" refers to approaches (such as the use and process analysis) that make it possible to improve or re-design existing structures and processes. Market requirements and technological innovation potential are typical reasons for the continuous transformation of a company. The resulting change needs to be implemented into the organisational structure, business processes and information systems.</p> <p>The course traces the implementation cycle of enterprise software from the point of view of a member of a project team. In addition to acquainting students with the theoretical basis of adaptation, the course will also discuss examples from practical projects.</p>		
Intended learning outcomes		
The students know in detail the process of adaptation of business software libraries. They master the methods of Forward Engineering (such as situation analysis, requirement analysis, process modeling and business blueprint) and Reverse Engineering (Reverse Business Engineering) and their implementation in tools.		
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) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes), weighted 2:1 creditable for bonus		
Allocation of places		
50 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) 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. (4) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (5) 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) Computer Science (2015)
 Bachelor' degree (1 major) Business Management and Economics (2015)
 Bachelor' degree (1 major) Econometrics (2015)
 Bachelor' degree (1 major) Business Information Systems (2015)
 Master's degree (1 major) Media Communication (2015)
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)
 Master's degree (1 major) China Business and Economics (2016)
 Bachelor' degree (1 major) Business Information Systems (2016)
 Master's degree (1 major) Media Communication (2016)
 Bachelor' degree (1 major) Econometrics (2017)
 Bachelor' degree (1 major) Computer Science (2017)
 Master's degree (1 major) Media Communication (2018)
 Bachelor' degree (1 major) Computer Science (2019)
 Master's degree (1 major) China Business and Economics (2019)
 Bachelor' degree (1 major) Business Information Systems (2019)
 Bachelor' degree (1 major) Business Management and Economics (2019)
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)
 Master's degree (1 major) Media Communication (2019)
 Bachelor' degree (1 major) Business Information Systems (2020)
 Master's degree (1 major) China Business and Economics (2021)
 Bachelor' degree (1 major) Business Information Systems (2021)
 Bachelor' degree (1 major) Econometrics (2021)
 Bachelor' degree (1 major) Business Management and Economics (2021)
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2021)
 Bachelor' degree (1 major) Econometrics (2022)
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2022)
 exchange program Business Management and Economics (2022)
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2023)
 Bachelor' degree (1 major) Business Information Systems (2023)
 Bachelor' degree (1 major) Econometrics (2023)
 Bachelor' degree (1 major) Business Management and Economics (2023)
 Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2023)