

DATA ANALYSIS AND BUSINESS MODELLING

Credit points	4 CP				
Duration of the	2 sem. (study programme 90 CP) / 3 sem. (study programme 120 CP)				
course					
Study course	The course introduces students to the most popular methods in business process				
annotation	modelling and the range of modern business process modelling tools. During the course				
	students gain knowledge on how to develop business process models and their change				
	proposals, how to implement changes at the level of business process model and how to				
	use business process models to determine the requirements for information systems and				
Aim of the study	services that support them The aim of the course is to prepare students for the following tasks: business process				
Aim of the study	modelling, business process analysis, definition of information systems and service				
course	requirements based on detailed business process models, as well as familiarisation with				
	various business process modelling languages and tools.				
		Knowledge	Skills	Competences	
	Upon	successful	Students:	Students are able to:	
		on of this study	• know how to use	• use quantitative and	
	course, s		specialised computer	qualitative analysis	
	• know		programs according to	methods	
	busine	U	work tasks	• summarise the results of	
	software to model business processes		• know how to prepare a business process model	financial analysis in decision-making	
	• understand how to create		• are able to systematise	• use information	
	business modelling using		and analyse financial	technology and	
Study course	business process		information	application programs to	
results	description standards		• know how to evaluate the	perform work tasks	
	and methodologies		correctness of the	 apply their knowledge in 	
	• know the use of business		prepared business model	practical activities	
	process modelling for			• independently integrate,	
	specific tasks			synthesise and critically	
				evaluate information	
				from different sources, solve problems using a	
				logical and systematic	
				approach	
	Topics				
	1 Introduction to business process theory				
	2				
Study course	3 Basic concepts of business process improvement				
content	4 Process improvement organization				
	5 Company structuring and organization activity description				
	6 Business process selection and ranking 7 Typical business processes and management functions				
	7 8		rocesses and management fund nodelling and description techn		
	9		escription standards and method		
	フ	Dusiness process d	escription standards and meth	ouology	



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10 Business process optimization methods		Business process optimization methods
	11	Business modelling software
Form of assessment:	Exam	
01.11 4 114 4		

Obligatory literature:

- 1. Adam J. Bock. The Business Model Book: Design, build and adapt business ideas that drive business growth. Pearson Business 2017-12-15. 293 pages
- 2. .Osterwalder, Y. Pigneur. Business Model Generation. Published by John Wiley & Sons. 2010. 282 pages.

Additional literature:

Gerardus Blokdyk. Business Process Modelling A Complete Guide. Emereo Pty Limited, 2019. 314 pages

Other sources of information:

- 1. *The Econometrics Journal*. Wiley Online Library. Retrieved from http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1368-423X
- 2. Eurostat. Your key to European statistics. Database. http://ec.europa.eu/eurostat/data/database
- 3. BIA library electronic database (www.bsa.edu.lv):
- 4. EBSCO (ENG): http://search.ebscohost.com
- 5. Science Direct (ENG) https://www.sciencedirect.com/science/article/abs

Changes and additions to the program and literature list are possible during the study process