

DATA ANALYSIS AND BUSINESS MODELING

Credit points	4 CP		
Duration of the course	6 sem.		
Study course	The course introduces students to the most popular methods in business process modeling		
annotation	and the spectrum of modern business process modeling tools. During the course, students		
amotation	will acquire knowledge of how to develop business process models and proposals for		
	their changes, how to introduce changes at the business process model level, and how,		
	using business process models,		
	to determine requirements for information systems and services that support them		
Aim of the study	The aim of the course is to prepare students for the following tasks: business process		
course	modeling, business process analysis, defining information systems and service		
course	requirements based on detailed business process models, as well as familiarizatio with different business process		
	modeling languages and to	Skills	Compotonoog
	Knowledge		Competences
	• know how to use	• use specialized computer	• use quantitative and
	business modeling	programs according to work	qualitative
	software to model	tasks;	analysismethods;
	business processes.	• be able to prepare a business	• summarize the results
	 understand that create 	process model;	of financial analysis in
	business modeling use	• able to systematize and	decision-making;
	business	analyze financial	• use
Study course results	process description	information;	information technology
	standards and	• be able to assess the	and
	methodology.	correctness of the prepared	applications to perform
	• know how to use	business model .	work tasks;
		business moder.	• apply their knowledge
	I		
	modeling for specific		in practical activities;
	tasks.		• independently integrate,
			synthesize and critically
			evaluate information
			from various sources,
			solve a
			problem using a logical
			and systematic
		<u> </u>	approach
	Topics		
Study course content	1 Introduction to business process theory		
	2 Analysis of the organization's activity system		
	3 Basic concepts of business process improvement		
	4 Process improvement organization		
	5 Company structuring and description of organizational activity		
	6 Selection and ranking of business processes		
	7 Typical business processes and management functions		
	8 Business process modeling and description technology		
	9 Standards and methodology for describing business processes		
	10 Business process optimization methods		
	11 Business modeling software		
Form of assessment:	Exam		



BALTIC INTERNATIONAL ACADEMY

Obligatory literature:

- 1. Hyndman, RJ, & Athanasopoulos, G. (2018) Forecasting: principles and practice, 2nd edition: Melbourne, Australia.https://otexts.com/fpp2/ Available from Amazon and Google
- 2. Adam J. Bock. The Business Model Book: Design, build and adapt business ideas that drive business growth. Pearson Business 2017-12-15. 293 pages

Additional reading:

- 1. Sukhadev Ashish. (2016). How to choose the right forecasting method. https://www.analyticsinsight.net/how-to-choose-the-right-forecasting-method/
- 2. Swift, L., Piff, S. (2014). Quantitative methods for business, management and finance. 4th Edition. London New York: Macmillan International Higher Education. 728 pp.
- 3. OECD. Forecasting methods and analytical tools. http://www.oecd.org/economy/outlook/forecastingmethodsandanalyticaltools.htm
- 4. Gerardus Blokdyk. Business Process Modeling A Complete Guide. Emereo Pty Limited, 2019. 314 pages Changes and additions to the program and literature list are possible during the study process