

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Information System for Decision-making Support				
Study programme	Specialist professional graduate study Entrepreneurship				
Status of a course	Elective				
Year of study	2	Semester (Winter/Summer)	W	ECTS credits	5
Goals of a course					
Adopt basic terminology and apply business performance management methods through working in selected software tools.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Recommend solutions for business operations improvement by analysing business indicators and reports. Outcome 3: Apply management and marketing tools in managing business processes. Outcome 4: Suggest possible responses to changes in the business environment. Outcome 5: Monitor and analyse market needs and trends and propose an appropriate business model. Outcome 8: Propose ways to manage human and other business resources. Outcome 10: Apply sales and negotiation strategies and tactics to improve business processes. Outcome 15: Analyse and design improvements to business procedures and processes.					
Expected learning outcomes on a level of a course					
1. Explain the need for a systematic mindset in business operations and the establishment of a business intelligence system 2. Explain the importance of managing business performance and give examples of key performance indicators 3. Characterize the big data era and list the problems and business needs specific to that era 4. Select appropriate source data and interpret the used statistical methods 5. Create multi-dimensional interactive business reports 6. Evaluate the best type of visualization for a report 7. Develop a model and sensitivity analysis of multi-criteria decision-making with the chosen method					
Content of a course					
Definition of decision-making. Systematisation of decision-making problem. Role and function of managers on all levels of organisation. Evolution of decision-support systems. Concepts, methodologies and technologies for decision-support. Sorts of analytics: descriptive, predictive, prescriptive. Business performance management: tools of business intelligence, business performance indicators, PDCA circle, six sigma. Decision-support system's modelling. Big data era, development of Internet of Things, difficulties in storing new data types, examples of modern data architecture.					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other		
Grading, evaluation and monitoring of students' work continuously during lectures and exams					
Grading is based upon evaluation course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.					