



CURRICULUM
MASTER OF SCIENCE STUDY PROGRAM
BUSINESS INFORMATICS
with dy profiles:
SOFTWARE DEVELOPMENT AND BUSINESS SYSTEMS
DATA SCIENCE AND ARTIFICIAL INTELLIGENCE IN ECONOMY

Year 1, Semester I			
Nr.	Subject	Modules	Credits ECTS
1	Database Administration	Database Administration	6
2	Operational Research	Operational Research	6
3	Research Methodology and Market Analysis	Research Methodology	3
		Market Research and Analysis	3
4	Software Engineering	Software Engineering	6
5	Introduction to Cryptography	Introduction to Cryptography	6
			30

Year 1, Semester II			
Nr.	Subject	Modules	Credits ECTS
1	Advanced Econometrics	Advanced Econometrics	6
2	Artificial Intelligence	Artificial Intelligence	6
3	Advanced Web Programming & Chatbots	Advanced Web Programming & Chatbots	6
4	Geoinformation Systems and Remote Sensing	Geoinformation Systems and Remote Sensing	6
<i>Elective Module I</i>			
5.1	Project and Strategic Management	Project Management	3
		Strategic Management	3

5.2	Project Management & Managerial Economics	Project Management	3
		Managerial Economics	3
			30

Profile: Software Development and Business Systems

Nr.	Year 2, Semester I		
	Subject	Modules	Credits ECTS
1	Advanced Object Oriented Programming	Advanced Object Oriented Programming	6
2	Data Mining and Visualization	Data Mining and Visualization	6
3	Mobile Programming	Mobile Programming	6
<i>Elective Module II</i>			
4.1	Cybersecurity	Cybersecurity	6
4.2	Precision Agriculture	Precision Agriculture	6
<i>Elective Module III</i>			
5.1	Enterprise Risk Management	Enterprise Risk Management	6
5.2	Microeconomics II & FinTech	Microeconomics II	3
		Introduction to FinTech	3
			30

Profile: Data Science and Artificial Intelligence in Economy

Nr.	Year 2, Semester I		
	Subject	Modules	Credits ECTS
1	Applied Microeconomics and Macroeconomics II	Applied Microeconomics and Macroeconomics II	6
2	Machine Learning	Machine Learning	6
3	Multidimensional Statistical Analysis	Multidimensional Statistical Analysis	6
<i>Elective Module II (1 of 3)</i>			
4.1	Natural Language Processing	Natural Language Processing	6

4.2	Financial Management	Financial Management	6
4.3	Digital Marketing and E-commerce	Digital Marketing and E-commerce	6
<i>Elective Module III</i>			
5.1	Spatial AI and Vision	Geo-Spatial Data Analysis	3
		Computer Vision	3
5.2	Strategic Farming Systems	Digital Farming	3
		Game Theory Application in Agriculture	3
			30

Profile: ‘Software Development and Business Systems’ and ‘Data Science and Artificial Intelligence in Economy’

	Year 2, Semester II		
Nr.	Subject	Modules	Credits ECTS
1	Master's Thesis	Thesis orientation seminar	2
		Master's Thesis	28
			30