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DEVELOPMENT: DEGREE PROFILE & CURRICULUM DEVELOPMENT

Establishing Modern Master-level Studies in Information Systems

561592-EPP-1-2015-1- FR-EPPKA2-CBHE-JP

Version 1.0



Ukraine

Study programme profile

Information systems (IS) have been the main contributor to productivity growth over the past decades and are pivotal to contemporary organizations in a global, rapidly changing economy. Business organizations manage their processes through enterprise systems, our private and professional communication has changed dramatically due to emergent mobile technologies and social media platforms, and countless complementary IS enabled innovations affect our life and work on a daily basis. Managers and professionals across different industries thus require unique abilities in making strategic decisions about the development and use of information systems, identifying the potentials for innovation originating from information systems, and understanding how business processes which use the transformative power of information systems to increase productivity, quality, and sustainability can be designed and implemented.

The programme has been developed based on industry demands in terms of required knowledge, understanding, and methodological skills. It is aimed particularly at fostering professional careers in international settings through collaboration with international corporations as well as seminars with international partner universities. Rigorous scientific training also provides a foundation for careers in academia.

DEGREE PROFILE OF MASTER OF SCIENCE IN INFORMATION SYSTEMS	
	<p>Інформаційні системи Information systems</p>
The full name of the qualification	<p>Магістр з інформаційних систем Master of Science in Information Systems</p>
	<p>The Master's degree programme in Information Systems is arranged in a modular structure and is characterised by both its academic rigor and practical relevance. The programme comprises four semesters of full-time study corresponding to 120 ECTS credits</p>

INSTITUTION	official name of the awarding institution
COUNTRY	Ukraine
YEAR OF REFERENCE	licensing procedure – 2017 accreditation procedure - 2019
LEVEL	Master Degree (NQF) Level 7 (EQF) The second cycle (EHEA)

A	PURPOSE
	<p>Graduates of the Master’s degree programme in Information Systems will be able to:</p> <ul style="list-style-type: none"> a) design, implement, and manage information systems, b) identify and exploit the opportunities created by digital innovations, c) demonstrate skills in leadership and collaboration in IS, d) demonstrate skills in designing and conducting information systems research projects.

B	CHARACTERISTICS	
1	DISCIPLINE (S)	Information technologies/Business – 70/30
2	FOCUS	The Master’s degree programme in Information Systems provides well-grounded methodological competencies at the intersection between information technology and business that are required in a digital world. At this, the programme focuses on skills related to both improving organisational efficiency and innovativeness using the transformative power of information systems.
3	ORIENTATION	practical/professional orientated

4	DISTINCTIVE FEATURES	The Master's degree programme in Information Systems provides skills, thereby focusing on the nexus between information technology and business. The programme provides graduates with skills which are needed in a fast-changing digital world.
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C	EMPLOYABILITY & FURTHER EDUCATION	
1	EMPLOYABILITY	Graduates will be able to work as IS/IT consultants, business and system analysts, IS designers or IS/IT project managers, both nationally and internationally. It is evident that the labour market values graduates that have a combination of business knowledge and IS design knowledge
2	FURTHER EDUCATION	The degree grants eligibility for a doctoral degree programme

D	EDUCATION STYLE	
1	LEARNING & TEACHING APPROACHES	problem based learning, blended learning, research based learning, learning through laboratory practice, work placements, group work
2	ASSESSMENT METHODS	oral and written examinations, practice, case studies, technical reports, project work, presentations
E	PROGRAMME COMPETENCES	

1	GENERIC	<ul style="list-style-type: none"> · ability for abstract thinking; · analysis and synthesis; · ability to apply knowledge in practical situations; · subject area knowledge and understanding, · understanding of the profession; · ability to identify, pose and solve problems
2	SUBJECT SPECIFIC COMPETENCES	

Competences Area	Competences
Systems Development and Deployment	1. Managing plan-based, hybrid, and agile development approaches
	2. Specifying and documenting systems requirements
	3. Managing IS development projects
Data, Information and Content Management	4. Selecting appropriate data management technologies based on the needs of the domain
	5. Integrating and preparing data captured from various sources for analytical use
	6. Selecting and using appropriate analytics methods
Innovation, Organizational Change and Entrepreneurship	7. Developing a business plan
	8. Understanding how to apply creative problem solving to technology-related issues
IS Strategy and Governance	9. Engaging in IS strategic planning
	10. Planning and implementing IS governance
Enterprise Architecture	11. Understanding enterprise architecture principles and the value it provides to business
	12. Communicating and deploying an EA
Business Continuity and Information Assurance	13. Implementing and managing quality audit processes
	14. Managing Information Systems risks
IS Management and Operations	15. Managing IS/IT projects and programs
IT Infrastructure	16. Monitoring emerging technologies to understand their potential to support the domain

Programme Learning Outcomes

№	Professional Learning Outcomes	P
1	2	3
1.	to understand essential concepts, facts, principles, and theories of information system	P1
2.	to understand the diversity and state-of-the-art in area of information system	P2

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3.	to be able to analyse, model, and evaluate organization's business processes from the perspective of information systems development	P3
4.	to be able to apply various methods of information systems analysis	P4
5.	to understand problems of users of information systems, to be able to identify, analyse and specify user requirements	P5
6.	to be able to manage information systems development projects and identify, analyse, evaluate, and solve the arising management problems	P6
7.	to be able to identify, analyse, and understand unorthodox problems of information systems development	P7
8.	to be able to apply various methods of information systems design	P8
9.	to be able to apply methods of knowledge, metadata analysis and information safety engineering	P9
10.	to be able to identify, find and evaluate information relevant to information systems by using data bases and other sources of information	P10
11.	to be able to apply various computerized tools for model driven information systems analysis and design	P11
12.	to be able to choose and apply various technologies of information systems' development	P12
13.	to be able to apply various tools for management of information systems projects	P13
	to be able to develop innovative decisions for IT business creation and support	P14
Personal and Social Learning Outcomes		
14.	to be able to think systematically when analysing different situations, solving problems and tasks	PS1
15.	to be able to apply the acquired knowledge creatively	PS2
16.	to be able to work individually with minimum guidance, manage one's work and time	PS3
17.	to be able to work efficiently in a group, manage the team, and act collectively	PS4
18.	to be able to understand the impact of information systems solutions on the society and environment and their economic aspects	PS5