



Educational Program «BIG DATA MANAGEMENT AND COGNITIVE TECHNOLOGIES»

MASTER'S DEGREE

PURPOSE OF THE EDUCATIONAL PROGRAM

Training of master's degree students in system analysis, who are able to successfully perform complex business analysis in complicated systems based on the systematic Data Science methodology, mathematical methods and software using modern information technologies.

EMPLOYMENT OPPORTUNITIES (POSITIONS)

- Big Data Analyst.
- Data Architect.
- Recommender Systems Architect.
- Project and Program Management Professional.
- Knowledge management specialist.
- Data Scientist.

EMPLOYERS - PARTNERS OF THE EDUCATIONAL PROGRAM INVOLVED IN THE FORMATION OF THE STUDY CONTENT AND PRACTICAL TRAINING

International Academic Partners: Bratislava University of Economics and Management, Comenius University Bratislava, Florida State University, Slovak University of Technology.

Business Partners: LLC "BGS Solution", LLC "Intelekt-Service", company "IT Specialist", Ukrainian Odoo Association, LLC "MMD Smart Ukraine", company "Global Message Service".

MAIN EDUCATIONAL DISCIPLINES (COURSE) OF THE EDUCATIONAL PROGRAM

English of Data Analytics, Big Data Analytics, Knowledge Management, Design of Recommendation Systems, Intelligent Systems, System Analysis of Complex Economic Systems under Uncertainty.

COMPETITIVE ADVANTAGES

- The educational program is designed to prepare professionals capable of conducting in-depth analysis and strategically managing big data and knowledge in complex systems. The curriculum is grounded in a systems approach to data science, cognitive science, and the use of modern software tools for modeling intelligent systems. The program covers cognitive systems for knowledge management, the design of recommender systems, and the systems analysis of complex objects and processes under uncertainty.
- A key advantage of the program is its focus on one of the most in-demand career fields of the decade. According to a report by the World Economic Forum, the number of vacancies for Big Data specialists is growing at a record annual rate of 115%. The uniqueness of the program is enhanced by the availability of an English-taught curriculum, which helps students master contemporary English terminology in data analytics and integrate into the global professional community. The program provides for international partnership with Florida State University and leading European universities and also offers the opportunity to continue studies at the third cycle of higher education leading to the Doctor of Philosophy (PhD) degree.
- The career-oriented approach of the master's programme is designed to prepare strategic leaders of digital transformation who are capable of designing data architectures and managing complex projects. The competencies acquired through the programme enable graduates to pursue successful careers as recommender systems architects, big data analysts, data architects, and knowledge management specialists. The high level of qualification of the graduates meets the requirements of leading technology companies and international financial institutions, where, according to forecasts by the World Economic Forum, demand for such experts is set to grow at the fastest rate.
- Practice-oriented learning is realized through the intensive work with large real-world datasets and the use of modern analytical platforms in the learning process. Students receive thorough practical training and work on their qualification theses to address innovative business challenges. Close cooperation with partners, including IT Specialist, Global Message Service, and the Ukrainian Odoo Association, ensures the involvement of industry practitioners in the educational process and creates opportunities for successful employment of master's students



Website of the
University