



Master in
“BUSINESS INFORMATICS”
with profiles

- a) **Software Development and Business Systems**
- b) **Data Science and Artificial Intelligence in Economy**

Why a Master in Business Informatics?

- Developed in collaboration with BOKU University, the program responds to current labor market needs and digital transformation trends across the economy, agribusiness, services, and public administration
- Integrates computer science, business processes, data science, and artificial intelligence within a unified interdisciplinary framework
- Develops advanced competencies in programming, software engineering, and business systems aligned with modern enterprise needs
- Prepares graduates to support data-driven decision-making and drive innovation in digital environments across institutions and businesses

Competences of the graduates

I. Business Informatics: Profile “Software Development and Business Systems”

- Develop software applications and digital platforms (web, mobile, enterprise systems) to support production tracking, logistics, financial management, and marketing within the agribusiness ecosystem
- Design and implement advanced data management solutions, including databases, data warehouses, and data mining techniques, to integrate and analyze information across the value chain
- Apply cybersecurity, cloud computing, and digital platform technologies, including AI-based solutions for e-governance, to ensure secure, transparent, and efficient digital operations
- Design and develop business intelligence and decision-support systems to support strategic planning, market forecasting, risk management, and innovation across the economy, agribusiness, and related sectors

II. Business Informatics: Profile “Data Science and Artificial Intelligence in Economy”

- Apply econometric models, predictive analytics, and big data techniques to analyze trends, risks, and performance indicators in agribusiness and economic systems
- Develop and apply machine learning and artificial intelligence models to simulate economic scenarios, optimize production processes, and improve decision-making
- Design data visualization tools and interactive dashboards to support data interpretation and informed decision-making for stakeholders
- Utilize advanced data processing, simulation models, and generative AI solutions to support financial analysis, digital marketing, and innovation in agribusiness and economic sectors

Potential Employers and/or Career Paths

- Employment in software companies, IT departments of enterprises, agribusiness firms, financial institutions, consulting companies, and public sector organizations as Software Developers, Software Engineers, Systems Developers, and IT Specialists
- Employment in data analytics, research, and innovation units as Data Scientists, AI Specialists, Economic Data Analysts, and Business Intelligence Analysts, applying advanced analytical and modelling techniques
- Employment in infrastructure and enterprise systems environments as Database Administrators, Cloud Specialists, IT Infrastructure Engineers, and ERP/CRM Systems Specialists, managing secure and scalable digital systems
- Employment in consulting, business, and public administration as IT Business Analysts, Digital Transformation Consultants, E-Service Specialists, and Innovation Advisors, supporting process optimization and digital innovation

Alumnus and experiences

Alban Stambolliu – Software Developer in e-Government services at KreatX; PhD student in “Economy and Agribusiness”, Part-time Academic Staff at FEA/AUT

I completed my studies in Business Informatics at the Agricultural University of Tirana. Currently, I am working as a Software Developer in e-Government services at KreatX, contributing to the development and implementation of digital solutions for public sector services. In parallel, I am pursuing my PhD studies in ‘Economy and Agribusiness’ at the Faculty of Economy and Agribusiness and am engaged as part-time academic staff, contributing to teaching and academic activities in the field of informatics.

Haire Gjonaj – Master’s degree in “Business Informatics”, Business Analyst & Consultant at Galaxy sh.p.k., Part-time Lecturer at FEA/AUT

I represent the profile of a business analyst with a strong interdisciplinary background in business informatics, combining expertise in programming, data analytics, and business processes. Through my academic studies and professional experience, I have been actively engaged in analyzing business requirements, testing digital systems, and supporting the implementation of technological solutions aligned with digital transformation objectives. I am also engaged as a part-time academic staff member at the Agricultural University of Tirana, supporting teaching and academic activities in the field of informatics.

Joli Dura – Specialist at the Directorate of Programming and Development, AKSHI; Part-time Academic Staff at FEA/AUT

I have developed strong competencies in solving economic problems through the identification, analysis, development, and implementation of solutions based on information systems. My academic and professional background also includes advanced skills in analytical, strategic, and research planning, as well as project management, enabling me to address complex challenges in business and economic environments. Currently, I am working as a Specialist at the Directorate of Programming and Development at AKSHI, while also contributing as part-time academic staff at the Faculty of Economy and Agribusiness, Agricultural University of Tirana.

M.Sc. Xhoana Ukaj – Specialist at the Directorate of e-Government Infrastructure, AKSHI; Part-time Academic Staff at FEA/AUT

I am a specialist in e-government infrastructure, working at AKSHI, where I contribute to the development, management, and optimization of digital systems supporting public services. I completed my studies in Business Informatics at the Agricultural University of Tirana, which provided me with a strong interdisciplinary background in information systems and digital technologies. In parallel, I am engaged as part-time academic staff at the Faculty of Economy and Agribusiness, contributing to teaching and academic activities in the field of informatics

The interdisciplinarity of the program

- Approximately **15% of the curriculum** is dedicated to **Natural Sciences**, supporting analytical thinking and domain-specific understanding relevant to agribusiness and environmental systems
- Around **25% of the curriculum** focuses on **Socio-Economic Sciences**, strengthening competencies in economics, management, and decision-making processes
- Approximately **60% of the curriculum** is devoted to **Technical Sciences**, including programming, data science, artificial intelligence, and information systems

Practical examples, case studies, and projects are oriented toward agribusiness and agro-industry, ensuring the development of applied and sector-specific competencies

The Business Informatics master program is designed based on an interdisciplinary approach that integrates technological innovation, data science, economic principles, and business management. This integrated perspective enables students to address complex real-world challenges and supports the development of innovative, data-driven solutions.

The program represents a modern educational model that prepares graduates for emerging professions with a growing demand in the labour market, particularly in the context of digital transformation across the economy, agribusiness, and related sectors.

Who can apply in this Master

- Graduates holding a Bachelor's degree in Business Informatics, Informatics, Computer Science, or related ICT fields
- Graduates from Economics, Business Management, Finance programs with an interest in digital transformation and information systems
- Graduates from engineering or other technical disciplines with foundational knowledge in mathematics, statistics, or programming
- Candidates with basic competencies in quantitative methods, data analysis, or programming, who are motivated to develop interdisciplinary skills at the intersection of technology and business