



The University Of Georgia

Program name:	Artificial intelligence (Eng)
Study Level:	Undergraduate
Program leader:	Bekar Meladze Eduard Saakashvili
Study language:	English
Qualification:	Bachelor of Informatics
Program capacity:	180
Program permission:	A prerequisite for admission to the program (for citizens of Georgia): Admission of students to the first level of academic higher education (undergraduate programs) is carried out based on the results of the Unified National Examinations or in accordance with Order №224/N (December 29, 2011) of the Minister of Education and Science of Georgia, upon completion of administrative registration and based on the order of the Rector of the university. A prerequisite for admission to the program (for foreign citizens): Foreign applicants who have received full general secondary education abroad or its equivalent, and/or have studied abroad during the last two years of general secondary education, or students who have lived in a foreign country for the past two or more years and are studying in higher education institutions recognized by the legislation of the host country, may be admitted to the program without taking the Unified National Examinations, in accordance with Order №224/N (December 29, 2011) of the Minister of Education and Science of Georgia. A prerequisite for admission to the program is proof of English language proficiency at the B2 level. This can be confirmed by an internationally recognized certificate (TOEFL iBT – minimum score 72, IELTS – minimum score 5.5, PTE General – minimum level B2, FCE – minimum level B2, CPE – a pass is sufficient; CAE – a pass is sufficient). In the absence of such a certificate, English language proficiency may be confirmed by a university-administered exam, where achieving at least 50% of the total score is considered sufficient. . In the Unified National Exams, it is mandatory for students to pass Georgian and English, as well as one additional subject in mathematics and/or physics, while for foreign students the university provides a mathematics exam, where the minimum score is 35%.
Program goals:	Graduates will have the ability to perform professional tasks in the field of artificial intelligence, such as creating algorithms, data analysis, and intelligent decision-making. They will be able to use programming languages, data structures, and key AI technologies including machine learning, enhanced learning, natural language processing, and computer vision. Students will acquire critical thinking and technical communication skills, work in a team environment, and perform real-task-based projects based on ethical and professional standards. The software provides a theoretical and practical basis for continuing master's studies in artificial intelligence, data science and software.
Methods for Attaining Learning Outcomes:	• Lecture-seminars; • Demonstration method; • News analysis; • Practical work; • Laboratory work; • Presentations; • Teamwork; • Critical analysis; • Literature review; • Method of working with books; • Searching for relevant materials in electronic format or in the library;
Learning outcomes:	Knowledge and understanding • Differentiates computational tasks and uses basic algorithms and programming principles in the context of their solution; • Explains key AI technologies and approaches, including machine learning, enhanced learning, natural language processing, and computer vision; • Explains the importance of ethical and legal frameworks in the creation and application of AI systems; Skills • Creates software modules using Python and Java in the context of real-world problem applications.; • Selects appropriate AI models and evaluates their effectiveness in relation to specific tasks; • Works effectively in teams, communicates technical information, and presents outcomes at a professional level.
Date of approval:	03-03-2025
Approval protocol number:	13PCD6071-01
Date of program update:	
Update protocol number:	
Program details:	

Teaching Process Characteristics:

To obtain a bachelor's degree, a student needs to earn 180 ECTS, which means completing the core subjects of the program, which includes 144 ECTS (including the bachelor's project of 12 ECTS), and the remaining (36 ECTS) can be accumulated by the student from elective subjects of the bachelor's program.

Program Core

Code	Subject	ECTS	Semester
INFO2117E	C++ Programming	6	1
MATH1115E	Calculus I	6	1
MATH1123E	Linear Algebra and Analytical Geometry	6	1
INFO3230E	Programming language Java I	6	2
MATH1166E	Calculus II	6	2
MATH3112E	Discrete Mathematics	6	2
AIN1001E	Fundamentals of Data Analysis in Python	6	3
INFO2214E	Operating System Linux	6	3
INFO4250E	Programming language Java II	6	3
INFO4259E	Data Structures and Algorithms	6	3
MATH2004E	Probability and Statistics	6	3
AIN1003E	Machine Learning	6	4
AIN1004E	Java-Based Microservices (Spring Boot)	6	4
AIN1019E	Containerization I: Fundamentals of Docker	6	4
INFO1122E	Data Engineering	6	4
MATH3111E	Methods of Optimization	6	4
AIN1002E	Fundamentals of Artificial Intelligence	6	5
AIN1005E	AI: Regulation, Ethics, Philosophy	6	5
AIN1008E	Computer Vision	6	5
AIN1006E	Natural Language Processing	6	6
AIN1007E	Advanced Machine Learning: Reinforcement Learning	6	6
AIN2123E	Machine and Deep learning	6	6
CYBR3030E	Bachelor's project	12	6
	Total ECTS to be taken:	144	

Program Elective

Code	Subject	ECTS	
AIN1010E	AI for cybersecurity	6	
AIN1011E	Integrating Machine Learning into Penetration Testing	6	
AIN1012E	Internet of Things (IoT) & AI	6	
AIN1013E	Modern Approaches in Artificial Intelligence	6	
AIN1014E	MLOps and Data Engineering Mechanisms for AI Systems	6	
AIN1015E	Automated Software Code Development and Delivery through Docker and Jenkins	6	
AIN1016E	Big Data Analysis and Processing with the Hadoop Ecosystem	6	
AIN1017E	Real-time Data Stream Processing	6	
AIN1018E	Development and Integration of Generative AI Systems	6	
AIN1020E	Containerization II: Docker for AI	6	

INFO0111E	IOS Development	6	
INFO0114E	Non-Relational Databases (MongoDB)	6	
INFO1108E	IT Services and Projects Management	6	
INFO2217E	Operation System	6	
INFO2410E	Computer Architecture	6	
INFO3011E	Introduction to Blockchain and BlockDAG technologies	6	
INFO3252E	Oracle Database Design and Programming	6	
INFO4246E	Organization of computer peripherals	6	
INFO4444E	Internship	6	
INFO5555E	Arduino and Intro to Hardware Security	6	
INFO9997E	Introduction to Networks	6	
INFO9998E	Network Infrastructure Essentials: Switching, Routing, Wireles	6	
INFO9999E	Enterprise Networking, Security, and Automation	6	
	Total ECTS to be taken:	36	

[Matrix Of Privequisites](#)

Point	GPA	The university assessment	The general assessment in Georgia	
97-100	4,00	A+	A	Excellent
94-96	3,75	A		
91-93	3,50	A-		
87-90	3,25	B+	B	Very good
84-86	3,00	B		
81-83	2,75	B-		
77-80	2,50	C+	C	good
74-76	2,25	C		
71-73	2,00	C-		
67-70	1,75	D+	D	Satisfactory
64-66	1,50	D		
61-63	1,25	D-		
51-60	1,00	E	E	Sufficient
Not passed				
41-50		FX	FX	Insufficient
<40		F	F	Failed