Curriculum of BA 60610700 – Artificial Intelligence

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
HUM101 The newest history of Uzbekistan. 1 lectures 1 seminars 4 ECTS	HUM102 Religious studies 1 lectures 1 seminars 4 ECTS	DBM201 Databases 2/1 lectures 1 practical session 6 ECTS	NWK201 Computer networks 2/1 lectures 1 practical session. 6 ECTS	DKB301 Design of Knowledge Base 2/1 lectures 1 practical session. 6 ECTS	MLR301 Machine Learning 1 lectures 0/1 practical sessions 4 ECTS	MLR402 Neural networks and deep learning 2/1 lectures 1 practical session. 6 ECTS	QPR402 Qualification Practice 2 6 ECTS
AWR101 Academic writing 2/1 practical sessions 4 ECTS	HUM103 Philosophy 1 lectures 1 seminars 4 ECTS	CSF201 Fundamentals of Cyber Security 2/1 lectures 1 practical session 6 ECTS	AIF201 Fundamentals of artificial intelligence 2/1 lectures 1 practical session 6 ECTS	CCP301 Cloud computing 2 lectures 1 practical session 8 ECTS	EBS301 Embedded systems 2/1 lectures 1 practical session 6 ECTS	*Elective Subject* ITS407/ITS408 2/1 lectures 1 practical sessions 6 ECTS	GQW403 Graduation Qualification Work 14 ECTS
FRL101 Foreign language I 2/1 practical sessions 4 ECTS	FRL102 Foreign language I 2/1 practical sessions 4 ECTS	DSA201 Data structure and algorithms 2/1 lectures 1 practical session. 6 ECTS	WAC201 Create web applications 2/1 lectures 1 practical session. 6 ECTS	OPS301 Operating systems 2/1 lectures 1 practical session 6 ECTS	QPR402 Qualification Practice 1 6 ECTS	*Elective Subject* ITS409/ITS410 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS415/ITS416 2/1 lectures 1 practical sessions 6 ECTS
MTH101 Calculus 2/1 lectures 1 practical session 6 ECTS	MTH102 Differential equations 1 lectures 0/1 practical seminars 4 ECTS	EAC201 Electronics and circuits1 2/1 lectures 1 practical session. 6 ECTS	MTH204 Probability and statistics 2/1 lectures 1 practical session. 6 ECTS	*Elective Subject* ITS303/ITS304 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS305/ITS306 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS411/ITS412 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS417/ITS418 1 lectures 0/1 practical sessions 4 ECTS
PHY101 Physics I 1 lectures 1 practical sessions and laboratory 6 ECTS	DSST16MBK Discrete structures 1 lectures 0/1 practical session 4 ECTS	CAO201 Computer organization 2/1 lectures 1 practical session. 6 ECTS	*Elective Subject* ITS201/ITS202 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* GEN301/GEN302 1 lectures 0/1 practical sessions 4 ECTS	*Elective Subject* GEN303/GEN304 1 lectures 0/1 practical sessions 4 ECTS	*Elective Subject* ITS413/ITS414 2/1 lectures 1 practical sessions 6 ECTS	
PRG101 Programming I 1 lectures 2/1 practical sessions 6 ECTS	PHY102 Physics II 1 lectures 0/1 practical sessions and laboratory 4 ECTS				IDP301 Individual project 2/1 practical sessions 4 ECTS	-	
	PRG102 Programming II 1 lectures 2/1 practical sessions 6 ECTS						
6 exams	7 exams	5 exams	5 exams	5 exams	4 exams, Course project Practice Report	5 exams	2 exams, Practice Report, State Attestation
30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS	30 ECTS
TOTAL: 240 ECTS							

Subjects included in the curriculum of the educational program is divided into 6 main blocks, which are highlighted in the appropriate color:

Languages	☐ General	☐ Math and Science	☐
Humanities	☐ Fundamental	☐ Core	☐

Elective subjects for the Educational program BA 60610700 – Artificial Intelligence

№	Code	1th subject	2nd subject
1.	ITS201/ITS202	Expert systems	Applied intelligent systems
2.	GEN301/GEN302	Power supply of information communication systems	Life safety
3.	GEN303/GEN304	Pedagogy. Psychology	Ecology
4.	ITS303/ITS304	Speech Information Processing	Time Series Analysis
5.	ITS305/ITS306	Natural Language Processing (NLP)	Speech recognition systems
6.	ITS407/ITS408	The Internet of Things	Human and computer interaction
7.	ITS409/ITS410	Cloud technologies	Parallel programming
8.	ITS411/ITS412	Computer vision	Pattern recognition systems
9.	ITS413/ITS414	Deep Learning	Reinforcement Learning
10.	ITS415/ITS416	Design of intelligent systems	Intelligent data analysis (Data Mining)
11.	ITS417/ITS418	Natural language recognition algorithms	Algorithms for intelligent data analysis