Table 1.3.6.A – Curriculum of BA 60610600 – Software Engineering

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
PRG101 Programming 1 lectures 2/1 practical sessions 6 ECTS	PRG102 Programming 1 lectures 2/1 practical sessions 6 ECTS	DBM201 Database 2/1 lectures 1 practical sessions 6 ECTS	NWK201 Computer networks 2/1 lectures 1 practical sessions 6 ECTS	PMP301 Programming Methods and Paradigms 2/1 lectures 1 practical sessions 6 ECTS	SQA301 Software Quality Assurance 1 lectures 0/1 practical sessions 4 ECTS	DSS401 Design of Software Systems 2/1 lectures 1 practical sessions 6 ECTS	QPR402 Qualification Practice 2 6 ECTS
PHY101 Physics I 1 lectures 1 practical sessions and laboratory 6 ECTS	PHY102 Physics I 1 lectures 0/1 practical sessions and laboratory 4 ECTS	CSF201 Fundamentals of Cyber Security 2/1 lectures 1 practical sessions 6 ECTS	ISE201 Introduction to software engineering 2/1 lectures 1 practical sessions 6 ECTS	SOT301 Software Testing 2 lectures 1 practical sessions 8 ECTS	MAD301 Mobile Application Development 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS407/ITS408 2/1 lectures 1 practical sessions 6 ECTS	GQW403 Graduation Qualification Work 14 ECTS
MTH101 Calculus 2/1 lectures 1 practical sessions 6 ECTS	MTH102 Differential equations 1 lectures 0/1 practical sessions 4 ECTS	DSA201 Data structure and algorithms 2/1 lectures 1 practical sessions 6 ECTS	WAC201 Create web applications 2/1 lectures 1 practical sessions 6 ECTS	OPS301 Operating systems 2/1 lectures 1 practical sessions 6 ECTS	IDP301 Individual project 2/1 practical sessions 4 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
HUM102 Religious studies 1 lectures 1 seminars 4 ECTS	MTH103 Discrete structures 1 lectures 0/1 practical sessions 4 ECTS	EAC201 Electronics and circuits 2/1 lectures 1 practical sessions 6 ECTS	MTH204 Probability and statistics 2/1 lectures 1 practical sessions 6 ECTS	*Elective Subject* ITS303/ITS304 2/1 lectures 1 practical sessions 6 ECTS	QPR301 Qualification Practice 1 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
HUM103 Philosophy 1 lectures 1 seminars 4 ECTS	HUM101 The newest History of Uzbekistan 1 lectures 1 seminars 4 ECTS	CAO201 Computer organization 2/1 lectures 1 practical sessions 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	
FRL101 Foreign language I 2/1 practical sessions 4 ECTS	FRL101 Foreign language II 2/1 practical sessions 4 ECTS				*Elective Subject* ITS305/ITS306 2/1 lectures 1 practical sessions 6 ECTS		
	AWR101 Academic writing 2/1 practical sessions 4 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	

Table 1.3.6.B – Elective subjects for the Educational program BA 60610600 – Software Engineering

№	Code	1th subject	2nd subject
1.	ITS201/ITS202	Introduction to Computational Thinking and Programming	Introduction to Programming with Python
2.	GEN301/GEN302	Pedagogy. Psychology	Ecology
3.	GEN303/GEN304	Power supply of information communication systems	Life safety
4.	ITS303/ITS304	Construction of compilers	Software construction and evolution
5.	ITS305/ITS306	Introduction to game theory	Digital Image Processing
6.	ITS407/ITS408	Real time systems	Software architecture
7.	ITS409/ITS410	Pattern recognition	Data preprocessing technologies
8.	ITS411/ITS412	Programming in MATLAB	Optimization and development of web application
9.	ITS413/ITS414	System programming	SQL programming
10.	ITS415/ITS416	Intelligent and expert systems	Knowledge based systems
11.	ITS417/ITS418	Fundamentals of Action Research	Software requirements analysis