CHECKLIST

Student's Name	ID #
Major <u>SFW</u>	Year of Admission2016
Minor	Year of Declaration

Course Name	Course #	Course ID	Credits	Prereq	Comments
General Education Courses	•			Total - 8	0-94 Credits
First Year Seminar I			6		
Introduction to Philosophy I (part of FYS)			2		
Kyrgyz Language (part of FYS)			2		
Russian Language (part of FYS)			2		
First Year Seminar II			8		
Manas Studies (part of FYS)			2		
Introduction to Philosophy I (part of FYS)			2		
Kyrgyz Language			6		
Russian Language			6		
History of Kyrgyzstan			4		
Social Sciences (12 credits):					
 Psychology, Sociology, Political Studies, Economics, Law, Anthropology and/or European Studies from outside the student's major 			12		OR Second year seminar: Social science
Humanities (12 credits):					
Modern Foreign Languages, Religious Study, History, Literature, and/or Culture from outside the student's major			12		OR Second year seminar: Humanities
Art/Sport					
Arts			12		
Sports			0	4 semesters-1 sport class	400 Hours
Natural science					
Ecology/Geography/Geophysics/History and Philosophy of Science/Concepts of Modern Science/ Physics (MAT 103/131)			6		
Mathematics (12 credits)					
Linear Algebra & Analytic Geometry			6	none	
Mathematical Analysis I			6	MAT 103/131	
Courses on Specialty				Total 117 o	redits
Required Courses on Specialty					
From Software Engineering department					72 credits
Programming I.			6	None	
Programming II.			6	COM-116	
Algorithms and Data Structures			6	COM-116	
Computer Architecture			6	COM-310/11/11.1	
Operating Systems			6	COM-117	
Parallel and Distributed Programming			6	COM 341.1	

Database Principles	6	COM-117	
Software Engineering I	6	COM-117	
Software Engineering II Senior Project Preparation	12	COM 421.1 COM 117/ 401.1/ 341.1	
Internship: Educational Tasks	12	COM 11 // 401.1/ 341.1	
Internship: Research Project	6		
Elective Courses on Specialty			
From Software Engineering department			42-48 credit
Introduction to Computing*	3	none	
Algorithm Analysis*	6	COM 223.1/224	
Game Development	6	COM 117	
Computer Graphics: Programming Basics	6	COM 117	
Computer Networks	6	COM 341.1/324.1	
Computer Systems & Assembler	6	COM-117	
Database Design*	6	COM-210.1	
Website & Mobile Web App			
Development using HTML & CSS*	6	COM 102/4/5/6	
Information Security 1	6	COM 324.1	
Information Security 2	6	COM 424.1	
Programming Languages	6	COM 117	
System Administration	6	COM 341.1	
Theory of Computation	6	COM 324.1	
Web programming	6	COM 116	
Mobile Application Development	6	COM 117	
*courses should be taken in case of doing Minor	1	1	I
Elective courses Outside the Major			30 credits
Numerical Methods	6	COM 113/5/7 MAT 316/7	From AMI
Discrete mathematics and mathematical logic I	6	none	From AMI
Discrete mathematics and mathematical logic II	6	COM-227	From AMI
Theory of Probabilities and Math. Statistics	6	MAT 103/131	From AMI
Mathematical Analysis II	6	MAT-233	From AMI
Courses for Minor*			
Courses for Million			
Total Number of Credits			240

The Head of	Major Program _	 The Head of Minor Program	
		_	
Student Signa	ature		

Order of study for 2016 admits

	Order of	f stuc	ly for	2016 admits	
I semester (30 credits)			II semester (30 credits)		
	First Year Seminar I	6		First Year Seminar I	8
Gen. Ed.	Introduction to Philosophy I (part of FYS)	2		Introduction to PhilosophyII (part of FYS)	2
	Kyrgyz Language (part of FYS)	2		Manas Studies	2
	Russian Language (part of FYS)	2	Gen. Ed.	Total FYS: 1	2 credits
	Total FYS: 12 credits		Ger	Social/Natural Science Humanities/KYR/RUS/ART	6
	Sport	0		Sport	0
e	Introduction to Computing	3			_
Profile	Linear Algebra and Analytic Geometry	6	Profile	Programming II	6
Pr	Programming I	6			_
	Elective course	3	P	Mathematical Analysis I	6
	III semester (30 credits)		IV semester (30 credits)		
	Mathematical Analysis II	6		Computer Architecture	6
Profile	Algorithm and Data Structures	6	Profile	Discrete Mathematics II	6
ro	Discrete Mathematics I	6) ro	Elective course (Algorithm Analysis)	6
	Elective course (Game Dev., Web. Prog. Mobile App Dev etc.)	6	Ъ	Numerical Methods	6
	Second year seminar	6	d)	History of Kyrgyzstan	4
Gen. Ed.		0	Ge n.	Sport	0
9 =	Sport			Elective	2
	V semester (30 credits)	VI semester (30 credits)			
	Operating Systems	6		Database Design	6
	Theory of Probabilities and Math	6	file		12
file	Statistics		Profile	Elective course (Game Dev., Web. Prog. Mobile App Dev etc.)	
Profile	Database Principles	6		riog. Mobile App Dev etc.)	
	Elective course (Game Dev., Web. Prog. Mobile App Dev etc.)	6	.d.		
Gen. Ed.	TI ,	6	Gen. Ed.	KYR/RUS:ART	
	VII semester (30 credits)		VIII semester (30 credits)		
	Senior Paper/Seminar	6	Profile	Senior Paper/Seminar	6
Profile	Software Engineering I	6		Software Engineering II	6
Pro	Parallel Programming	6		Elective (System Administration)	6
	Elective (Computer Networks)	6		Natural Science	6
Gen. Ed.	Social Science	6	Gen. Ed.	Social Science	6