Circuit Engineering

Algorithm Analysis

CHECKLIST

Major <u>SFW</u>		Year of Admission2013				
Minor						
Course Name	Course #	Course ID	Credits	Prereq	Comments	
General Education Courses				Total - 8	66 Credits	
First Year Seminar I/II			24			
Kyrgyz Language			8			
Russian Language			8			
History of Kyrgyzstan			4			
Manas Studies			2			
Introduction to Philosophy			4			
Social Sciences (12 credits):						
 Psychology, Sociology, Political Studies, Economics, Law, Anthropology and/or European Studies from outside the student's major 			12			
Art/Sport Arts			12			
Sports			0	400 hours		
Natural science			· ·	100 Hours		
Ecology/Geography/Geophysics/History and Philosophy of Science/ Physics (MAT 103/131)			3			
Linear Algebra & Analytic Geometry			6	none		
Mathematical Analysis I			6	MAT 103/131		
Introduction to Computing			3	none		
Courses on Specialty						
Required Courses on Specialty				Total 114 c	redits	
From Software Engineering department		72 credits				
Programming I. Introduction to Object			6	None		
Programming II. Object Oriented			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 341.1/324.1		
Database Principles			6	COM-117		
Software Engineering I			6	COM-117		
Software Engineering II			6	COM 421.1		
Senior Project Preparation			12			
Internship: Educational Tasks			6			
Internship: Research Project			U			

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COM 106/116

COM 223.1/224

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			
Dynamic HTML & Web-page design*	6				
Expert Systems*	6	COM-228			
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			
IT Project Management*	6	COM 105/6			
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			
Game development	6	COM 117			
Research Methods*	6				
*courses allowed not to take in case of doing Minor		,			
Courses Outside the Major	40 credits				
Numerical Methods	6	COM 113/5/7 MAT 316/7	From Natural science		
Discrete mathematics and mathematical logic I	6	none	From Natural science		
Discrete mathematics and mathematical logic II	6	COM-227	From Natural science		
Theory of Probabilities and Math. Statistics	6	MAT 103/131	From Natural science		
Mathematical Analysis II	6	MAT-233	From Natural science		
Courses for Minor*					
Total Number of Credits			240		
*for Minor students are allowed not to take 24 cr	redits from Elective cou	rses from Software Eng	ineering		
department					
The Head of Major Program The Head of Minor Program					

Student Signature

ADMITS of 2013-2014 academic year		
I семестр 1. FYS I (12) 2. Computer Essentials (3) 3. Natural Science (3) (Ecology, Philosophy) 4. Linear Algebra and Analytic Geometry (6) 5. Programming I (6)	II семестр 1. FYS II (12) 2. Kyrgyz/Russian language (6) 3. Mathematical Analysis I (6) 4. Programming II (6)	
III семестр	IV семестр	
 Introduction to Philosophy (4) Mathematical Analysis 2 (3) Physics (3) Algorithm and Data Structures (6) Discrete Structures I (6) Elective course (Circuit Engineering 6) 	 Computer Architecture (6) Discrete Structures II (6) Algorithm Analysis (6) History of Kyrgyzstan+Manas Studies (6) Numerical Methods (6) 	
V семестр	VI семестр	
 Operating Systems (6) Theory of Probabilities and Math Statistics (6) Social Sciences or Humanities(Kyrgyz/Russian lang) or Art (6) Database Principals (6) Elective course (6) (Computer system and Assembler, Theory of Computation, Expert Systems) 	 Introduction to WEB Programming (6) Computer Network (6) Social Sciences or Humanities or Art (6) Database Design Elective course (Programming Languages 6) 	
VII семестр	VIII семестр	
1. Senior Paper/Seminar (6)	 Senior Paper/Seminar (6) Software Engineering II (6) 	