COMPUTER SCIENCE DEPARTMENT
BACHELOR DEGREE PROGRAM

Fall Term	Spring Term

Freshmen Year

#	CODE	Subject	C	H	#	CODE	Subject	C	H
1	CS 100	Introduction to Engineering & CS	4	4	1	CS 102	Programming Languages - 2	6	4
2	CS 101	Programming Languages - 1	6	4	2	CS 104	Calculus - 2	4	4
3	CS 103	Calculus - 1	4	4	3	CS 106	Physics - 2	4	4
4	CS 105	Physics - 1	4	4	4	CS 108	Math. Logic and Algorithm Theory	4	4
5	CS-KG	KG Lang - 1	3	3	5	CS-KG	KG Lang - 2	3	3
6	CS-RU	RU Lang - 1	3	3	6	CS-RU	RU Lang - 2	3	3
7	CS-EN	ENG Lang - 1	4	4	7	CS-EN	ENG Lang - 2	4	4
8	CS-TR	TR Lang - 1	2	2	8	CS-TR	TR Lang - 2	2	2
9	CS-PHS	Physical Culture - I	0	2	9	CS-PHS	Physical Culture - 2	0	2
		TOTAL	30	30			TOTAL	30	30

Sophomore Year

#	CODE	Subject	C	H	#	CODE	Subject	C	H
1	CS 201	Object Oriented Programming	4	4	1	CS 202	Data Structures	4	4
2	CS 203	Web Technologies	6	4	2	CS 204	Web Programming	6	4
3	CS 205	Database Systems	6	4	3	CS 206	Electrotechnics and Electronics	4	4
4	CS 207	Discrete Mathematics	2	2	4	CS 208	Linear Algebra	6	4
5	CS 209	Engineering Computer Graphics	2	2	5	CS 210	Art & Design	4	4
6	CS-PHL	Philosophy	4	2	6		Introduction to Enterpreunership		
7	CS-TR	TR Lang - 3	2	2	7	CS-HS	History (State Examination)	4	4
8	CS-EC	Ecology	2	2	8	CS-TR	TR Lang - 4	2	2
9	CS-MNS	Manas Tanuu	2	2	9	CS-PHS	Physical Culture - 4	0	2
10	CS-PHS	Physical Culture - 3	0	2					
		TOTAL	30	26			TOTAL	30	28

Junior Year

#	CODE	Subject	C	H	#	CODE	Subject	C	H
1	CS 301	Design & Analysis of Algorithms	5	4	1	CS 302	Artificial Intelligence	6	4
2	CS 303	Operating Systems	4	4	2	CS 304	Theory of Computation	3	3
3	CS 305	Software Engineering - 1	4	4	3	CS 306	Software Engineering - 2	4	4
4	CS 307	Digital Electronics	4	4	4	CS 308	Computer Oragization & Architecture	6	4
5	CS 309	Probability and Statistics - 1	3	3	5	CS 310	Probability and Statistics - 2	3	3
6	CS 311	Comp. Networks & Telecom.	6	4	6	CS 312	Differential Equations	4	4
7	CS 313	Pedagogy and Phycology	2	2			Number Theory		
		Introduction to Marketing					Game Theory		
8	CS 319	Pedagogical Internship	2	0	7	CS 314	Basics of Scientific Research	2	2
					8	CS 320	Project Based Internship	4	0
		TOTAL	30	25			TOTAL	32	24

Senior Year

#	CODE	Subject	C	H	#	CODE	Subject	C	H
1	CS 401	Information Security	4	4	1	CS 402	Cryptography	4	4
2	CS 403	Human Computer Interaction (HCI)	4	4	2	CS 404	Introduction to Cloud computing	4	4
3	CS 405	Software Architecture & Design patterns	4	4			Machine Learning		
		Introduction to Big data					Robotics		
		Digital Signal processing			3	CS-MT	Metrology Standart & Certification	4	3
4	CS 407	Mobile App Development	6	4	4	CS-LF	Life Safety	4	2
		Image processing							
		Microprocessors & Microcontrollers							
5	CS 409	Computer Graphics	4	4					
6	CS 420	Industrial Internship	8	0	5	CS 430	Thesis Diploma	12	0
		TOTAL	30	20			TOTAL	28	13

Dean: Dr. Mamadiev B.   **HoD : Nurlan Shaidullaev**

Last Updated: 17.01.2017