

COMPUTER SCIENCE DEPARTMENT
BACHELOR DEGREE PROGRAM

Fall Term	Spring Term
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Freshmen Year (1st 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 108	Math. Logic & Algorithm Theory	4	4		
3	CS 103	Calculus - 1	4	4	3	CS 104	Calculus - 2	4	4		
4	CS 105	Physics - 1	4	4	4	CS 106	Physics - 2	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	2	7	CS-EN	ENG Lang - 2	4	2		
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	28	TOTAL				30	28

Sophomore Year (2nd 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	5	4	2	CS 204	Web Programming	6	4		
3	CS 205	Database Systems	6	4	3	CS 206	Electrotechnics and Electronics	6	4		
4	CS 207	Discrete Mathematics	2	2	4	CS 208	Linear Algebra	6	4		
5	CS 209	Engineering Computer Graphics	9	5	5	CS 210	Introduction to Enterpreunership	2	2		
6	CS-EC	Ecology	2	2	7	CS 212	Basics of Scientific Research	2	2		
7	CS-MN	Manasology	2	2	8	CS-HS	History (State Examination)	4	2		
8	CS-PHS	Physical Culture - 3	0	2	9	CS-PHS	Physical Culture - 4	0	2		
TOTAL				30	25	TOTAL				30	24

Junior Year (3rd Year)

#	CODE	Subject	C	H	#	CODE	Subject	C	H		
1	CS 301	Design & Analysis of Algorithms	6	4	1	CS 302	Artificial Intelligence	6	4		
2	CS 303	Comp. Networks & Telecom.	6	3	2	CS 304	Operating Systems	6	4		
3	CS 305	Software Engineering - 1	4	4	3	CS 306	Software Engineering - 2	4	4		
4	CS 307	Digital Electronics	6	3	4	CS 308	Computer Oraganization & Architecture	6	3		
5	CS 309	Probability and Statistics	6	3	5	CS 310	Number Theory				
							Differential Equations	4	2		
							Game Theory				
6	CS 319	Pedagogical Internship	2	0	6	CS 320	Project Based Internship	4	0		
TOTAL				30	17	TOTAL				30	17

Senior Year (4th Year)

#	CODE	Subject	C	H	#	CODE	Subject	C	H		
1	CS 401	Information Security	6	3	1	CS 402	Human Computer Interaction (HCI)	3	3		
2	CS 403	Software Architecture & Design patterns	4	4	2	CS 404	Machine Learning	4	4		
		Introduction to Data Mining					Introduction to Cloud computing				
		Theory of Computation					Robotics				
3	CS 405	Mobile App Development	5	4	3	CS-MT	Metrology Standart & Certification	4	2		
		Image processing			4	CS-LF	Life Safety	4	2		
		Microprocessors & Microcontrollers									
4	CS 407	Introduction to Marketing	2	2							
		Art & Design									
5	CS-PHL	Philosophy	4	2							
6	CS 420	Industrial Internship	9	0	5	CS 430	Thesis Diploma	15	0		
TOTAL				30	15	TOTAL				30	11

Dean: PHD. Duisheev K.

HoD : Nurlan Shaidullaev

Last Updated:

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