Department of Computer Science and Engineering
School of Engineering and Computer Science

BS CSE - Program Curricula Structure - From Summer 2018 and onward			
TOTAL CREDITS			**136**
Category		**Course Code and Name**	**Credit Hours**
UNIVERSITY CORE (General EDucation)			**33**
	Writing (Minimum 2 courses - 6 credits)		**6**
		ENG 101 English Fundamentals	3
		ENG 102 English Composition	3
	Arts, Humanities, History,Social Sciences,Literarure		**27**
		BNG 103 Bangla Language & Literature	3
		HUM 103 Ethics and Culture	3
		DEV 101 / EMB101 Bangladesh Studies / Emergence of Bangladesh	3
		BUS201 Business and Human Communication	3
	Any two courses from	HUM101/ ECO101/ ANT101/ HST102/ SOC201	6
	Any one courses from	SOC101/ PSY101/ POL101/	3
	NON-MAJOR (minimum 2 courses - 6 credits) **Student may take any non-overlapping course from other departments as non-major course.** Some of the suggested non-major courses are listed below: ECO101 , ECO102 , BUS101 , BCH101 , BIO101, BTE101, CHE101, CHE110, CHN101, FRN101, ANT101, GEO101, HST102, HUM101, LAW101, POL101, PSY101, SOC101, SOC201, ENV101/ ENV103, HUM111/HST407			6
SCHOOL CORE (Mathematics, Science)			**21**
		MAT 110 Mathematics I	3
		MAT 120 Mathematics II	3
		MAT 215 Mathematics III	3
		MAT 216 Mathematics III	3
		PHY 111 Principles of Physics I	3
		PHY 112 Principles of Physics II	3
		STA 201 Elements of Statistics and Probability	3
CSE PROGRAM CORE			**75**
		CSE 110 Programming Language I	3
		CSE 111 Programming Language II	3
		CSE 220 Data Structure	3

	CSE 221	Algorithm	3
	CSE 230	Discrete Mathematics	3
	CSE 250	Circuits and Electronics	3
	CSE 251	Electronic Devices and Circuits	3
	CSE 260	Digital Logic Design	3
	CSE 320	Data Communication	3
	CSE 321	Operating Systems	3
	CSE 330	Numerical Method	3
	CSE 331	Automata and Computability	3
	CSE 340	Computer Architecture	3
	CSE 341	Microprocessor	3
	CSE 350	Digital Electronics and Pulse Techniques	3
	CSE 360	Computer Interface	3
	CSE 370	Database Systems	3
	CSE 420	Compiler Design	3
	CSE 421	Computer Networks	3
	CSE 422	Artifical Intelligence	3
	CSE 423	Computer Graphics	3
	CSE 460	VLSI Design	3
	CSE 461	Digital System Design	3
	CSE 470	Software Engineering	3
	CSE 471	System Analysis and Design	3

PROJECT/INTERNSHIP/THESIS CSE400	4

PROGRAM ELECTIVE Minimum one (1) course - 3 credits from the following list)	3

	CSE 310	Object Oriented Programming	3
	CSE 342	Computer Systems engineering	3
	CSE 390	Technical Communication	3
	CSE 391	Programming for the Internet	3
	CSE 392	Signals and Systems	3
	CSE 410	Advance Programming In UNIX	3
	CSE 419	Programming Languages	3
	CSE 424	Pattern Recognition	3
	CSE 425	Neural Networks	3
	CSE 426	Basic Graph Theory	3
	CSE 427	Machine Learning	3
	CSE 428	Image Processing	3
	CSE 429	Basic Multimedia Theory	3
	CSE 430	Digital Signal Processing	3
	CSE 431	Natural Language Processing	3
	CSE 432	Speech Recognition and Synthesis	3
	CSE 462	Fault Tolerant Systems	3
	CSE 472	Human Computer Interface	3
	CSE 473	Decision Support System	3
	CSE 474	Simulation and Modeling	3
	CSE 490	WAN Routing and Technologies (Special Topics)	3
	CSE 490	Special Topics	3
	CSE 491	Independent Study	3