FIRST YEAR Semester I		
Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
510201	Structured Programming Language	3.0
Major Lab Courses		
510202	Structured Programming Language Lab	1.5
Minor Theory Courses		
510203	Electrical and Electronic Circuit	3.0
510205	Calculus	3.0
510207	Physics	3.0
510209	English	3.0
Minor Lab Courses		
510204	Electrical and Electronic Circuit Lab	1.5
Total Credits in 1st Semester	**18.0**	

Semester II

Course Code	**Course Title**	**Credit Hours**
Major Theory Course		
510211	Discrete Mathematics	3.0
Minor Theory Courses		
510213	Digital Systems Design	3.0
510215	Linear Algebra	3.0
510217	Statistics and Probability	3.0
510219	History of the Emergence of Independent Bangladesh	3.0
Minor Lab Courses		
510212	Digital Systems Lab	1.5
Total Credits in 2nd Semester	**16.5**	

SECOND YEAR Semester III		
Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
520201	Data Structure	3.0
520203	Object Oriented Programming	3.0
520205	Computer Architecture	3.0
Major Lab Courses		
520206	Data Structure Lab	1.5
520208	Object Oriented Programming Lab	1.5
Minor Theory Courses		
520209	Ordinary Differential Equation	3.0
520211	Fundament of Business Studies	3.0
Total Credits in 3rd Semester	**18.0**	

Semester IV

Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
520213	Database Management System	3.0
520215	Microprocessor and Assembly Language	3.0
520217	Design and Analysis of Algorithms	3.0
Major Lab Courses		
520218	Database Management System Lab	1.5
520220	Microprocessor and Assembly Language Lab	1.5
520222	Design and Analysis of Algorithms Lab	1.5
Minor Theory Courses		
520223	Numerical Analysis	3.0
Total Credits in 4th Semester	**16.5**	

THIRD YEAR Semester V		
Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
530201	Peripheral and Interfacing	3.0
530203	Data and Telecommunications	3.0
530205	Operating System	3.0
Major Lab Courses		
530206	Peripheral and Interfacing Lab	1.5
530208	Data and Telecommunications Lab	1.5
530210	Operating System Lab	1.5
Minor Theory Course		
530211	Economics	3.0
Total Credits in 5th Semester	16.5	

Semester VI		
Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
530213	Software Engineering	3.0
530215	Computer Networking	3.0
530217	Theory of Computation	3.0
530219	Embedded System Programming	3.0
Major Lab Courses		
530220	Software Engineering Lab	1.5
530222	Computer Networking Lab	1.5
530224	Embedded System Programming Lab	1.5
Total Credits in 6th Semester	16.5	

FOURTH YEAR Semester VII		
Course Code	**Course Title**	**Credit Hours**
Major Theory Courses		
540201	Artificial Intelligence	3.0
540203	Compiler Design and Construction	3.0
540205	Computer Graphics	3.0
540207	E-Commerce and Web Engineering	3.0
Major Lab Courses		
540208	Artificial Intelligence Lab	1.5
540210	Compiler Design Lab	1.5
540212	Computer Graphics Lab	1.5
540214	E-Commerce and Web Engineering Lab	1.5
Total Credits in 7th Semester	**18.0**	