

Year-1, Semester-1					
COURSE CODE	COURSE TITLE	CREDIT	CREDIT HOURS		PREREQUISITE
			T	S	
CSEC 111	Computer System and Application	3	3	0	
CSEC 112	Computer System and Application Sessional	1.5	0	1.5	
MATH 110	Differential & Integral Calculus	3	3	0	
ENG 100	Communication Skill	3	3	0	
STAT 121	Statistics and Probability	3	3	0	
CSEC 121	Programming Language and Application-I	3	3	0	
CSEC 122	Programming Language and Application-I Sessional	1.5	0	1.5	
MATH 123	Discrete Mathematics	3	3	0	
Total	=	<b>21</b>	18	3	

Year-1, Semester-2					
COURSE CODE	COURSE TITLE	CREDIT	CREDIT HOURS		PREREQUISITE
			T	S	
CSEC 211	Programming Language and Application-II	3	3	0	
CSEC 212	Programming Language and Application-II Sessional	1.5	0	1.5	
BUS 110	Business Communication	3	3	0	
ACTG 121	Accounting	3	3	0	
PHY 110	Modern Physics	3	3	0	
PHY 111	Modern Physics Sessional	1.5	0	1.5	
MATH 129	Complex Variable & Laplace Transforms	3	3	0	
EENG 121	Electrical Circuits	3	3	0	
EENG 122	Electrical Circuits Sessional	1.5	0	1.5	
Total	=	<b>22.5</b>	18	4.5	

Year-2, Semester-1					
COURSE CODE	COURSE TITLE	CREDIT	CREDIT HOURS		PREREQUISITE
			T	S	

CSEC 213	Basic Electronics	3	3	0	
CSEC 214	Electrical and Electronic Technology Sessional	1.5	0	1.5	
CSEC 215	Data Structure	3	3	0	
CSEC 216	Data Structure Sessional	1.5	0	1.5	
CSEC 217	Digital Logic Design	3	3	0	
CSEC 218	Digital Logic Design Sessional	1.5	0	1.5	
MATH 221	Linear Algebra and Fourier Transformation	3	3	0	
CSEC 229	Computer Architecture	3	3	0	
Total	=	<b>19.5</b>	15	4.5	

<b>Year-2, Semester-2</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>	<b>CREDIT HOURS</b>		<b>PREREQUISITE</b>
			T	S	
CSEC 227	Operating System Design	3	3	0	
CSEC 228	Operating System Design Sessional	1.5	0	1.5	
CSEC 311	Design and Analysis of Algorithm	3	3	0	
CSEC 312	Design and Analysis of Algorithm Sessional	1.5	0	1.5	
CSEC 313	Object - Oriented Programming	3	3	0	
CSEC 314	Object - Oriented Programming Sessional	1.5	0	1.5	
CSEC 225	Microprocessor, Interfacing and Low Level Language	3	3	0	
CSEC 226	Microprocessor, Interfacing and Low Level Language Sessional	1.5	0	1.5	
ECON 229	Economics	3	3	0	
Total	=	<b>21</b>	15	6	

<b>Year-3, Semester-1</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>	<b>CREDIT HOURS</b>		<b>PREREQUISITE</b>
			T	S	
CSEC 316	Systems Analysis and Design	3	3	0	
CSEC 317	Systems Analysis and Design Sessional	1.5	0	1.5	
CSEC 321	Database Management System	3	3	0	

CSEC 322	Database Management System Sessional	1.5	0	1.5	
CSEC 323	Data Communication	3	3	0	
CSEC 324	Measurement and Instrumentation	3	3	0	
CSEC 428	Computer Graphics	3	3	0	
CSEC 429	Computer Graphics Sessional	1.5	0	1.5	
Total	=	<b>19.5</b>	15	4.5	

<b>Year-3, Semester-2</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>	<b>CREDIT HOURS</b>		<b>PREREQUISITE</b>
			T	S	
MATH 462	Numerical Analysis and Coordinate Geometry	3	3	0	
CSEC 430	Software Engineering	3	3	0	
CSEC 431	Software Engineering Sessional	1.5	0	1.5	
CSEC 432	Computer Communication and Networks	3	3	0	
CSEC 433	Computer Communication and Networks Sessional	1.5	0	1.5	
CSEC 318	Computer Peripherals, Interfacing and Maintenance	3	3	0	
CSEC 319	Computer Peripherals, Interfacing and Maintenance Sessional	1.5	0	1.5	
CSEC 325	Compiler Construction	3	3	0	
CSEC 326	Compiler Construction Sessional	1.5	0	1.5	
Total	=	<b>21</b>	15	6	

<b>Year-4, Semester-1</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>	<b>CREDIT HOURS</b>		<b>PREREQUISITE</b>
			T	S	
<b>Elective –I</b> (Any three from the following eight courses):					
CSEC 422	Internet Programming & Sessional	4.5	4.5	0	
CSEC 423	VLSI Design & Sessional	4.5	4.5	0	
CSEC 424	Artificial Intelligence and Expert Systems & Sessional	4.5	4.5	0	
CSEC 425	Simulation, Modeling and Performance Analysis & Sessional	4.5	4.5	0	

CSEC 426	Pattern Recognition and Sessional	4.5	4.5	0	
CSEC 427	Digital Pulse Techniques & Sessional	4.5	4.5	0	
CSEC 466	Multimedia Theory & Sessional	4.5	4.5	0	
CSEC 467	Computer Vision and Image processing & Sessional	4.5	4.5	0	
<b>Project work</b>					
CSEC 399	Project-I	3	3	0	
Total	=	<b>16.5</b>	4.5	0	

<b>Year-4, Semester-2</b>					
COURSE CODE	COURSE TITLE	CREDIT	CREDIT HOURS		PREREQUISITE
			T	S	
MNGT 228	Management and Organization Behavior	3	3	0	
<b>Elective –II</b> (Any two from the following twelve courses):					
CSEC 411	Fault Tolerant Systems	3	3	0	
CSEC 412	Management Information Systems	3	3	0	
CSEC 413	Digital Control Systems	3	3	0	
CSEC 414	Digital Signal Processing	3	3	0	
CSEC 415	Operations Research	3	3	0	
CSEC 416	Computer Security	3	3	0	
CSEC 417	Computer System Design	3	3	0	
CSEC 418	Machine Learning	3	3	0	
CSEC 419	Theory of Computing	3	3	0	
CSEC 421	Human Computer Interaction in Bangladesh	3	3	0	
CSEC 457	Graph Theory	3	3	0	
CSEC 459	Mathematical Analysis for Computer Science	3	3	0	
<b>Project work</b>					
CSEC 499	Project-II	3	3	0	
Total	=	<b>15</b>	15	0	