

### 9. Distribution of Courses:

Sl.#	Course Type		Credit	Credit Hours/week
1.	<b>Major Courses (CSTE)</b>			
	Core Courses			
		Theory	84	84
		Lab	31.5	47.25
	<b>Sub-total</b>		<b>115.5</b>	<b>131.25</b>
2.	<b>Minor Courses</b>			
	Humanities (HUM, BMS, BAN)	Theory	7	7
	Business Studies (BBA)	Theory	3	3
	Basic Sciences (PHYS, MATH, STAT and EEE)	Theory	27	27
		Lab	4.5	6.75
<b>Sub-total</b>		<b>41.5</b>	<b>43.75</b>	
3.	<b>Viva-Voce</b>		<b>04</b>	<b>00</b>
4.	CAPSTONE PROJECT * Project: Each credit 2 hours/week.		<b>05</b>	<b>10</b>
	<b>Total</b>		<b>166</b>	<b>185</b>

### 10. Scheme of the Program:

#### Year-1 Term-1

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/week
1	CSTE 1101	Computer Application and Structured Programming Fundamental		3	3
2	CSTE 1102	Computer Application and Structured Programming Fundamental Lab		1.5	2.25
3	EEE 1101	Electric Circuit Analysis		3	3
4	EEE 1102	Electric Circuit Analysis Lab		1	1.5
5	PHYS 1101	Physics		3	3
6	PHYS 1102	Physics Lab		1	1.5
7	MATH 1101	Differential and Integral Calculus		3	3
8	BAN 1101	বাংলাভাষা ও সাহিত্য		2	2
9	BMS 1101	History of the Emergence of Independent Bangladesh		2	2

		<b>Total</b>	<b>19.5</b>	<b>21.25</b>
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**Year-1 Term-2**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 1201	Structured Programming Language	CSTE 1101	3	3
2	CSTE 1202	Structured Programming Language Lab	CSTE 1102	1.5	2.25
3	CSTE 1203	Data Structures and Analysis	CSTE 1101	3	3
4	CSTE 1204	Data Structures and Analysis Lab	CSTE 1102	1.5	2.25
5	CSTE 1205	Numerical analysis	CSTE1101	3	3
6	CSTE 1206	Numerical analysis Lab	CSTE 1102	1	1.5
7	CSTE 1207	Discrete Mathematics		3	3
8	EEE 1201	Electronic Devices and Circuits	EEE 1101	3	3
9	EEE 1202	Electronic Devices and Circuits Lab	EEE 1102	1	1.5
10	MATH 1201	Ordinary and Partial Differential equations	MATH 1101	3	3
11	CSTE 1226	Viva Voce		1	0
		<b>Total</b>		<b>24</b>	<b>25.5</b>

**Year-2 Term-1**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 2101	Object Oriented Programming	CSTE1201	3	3
2	CSTE 2102	Object Oriented Programming Lab	CSTE 1202	1.5	2.25
3	CSTE 2103	Algorithm Design and Analysis	CSTE1203	3	3
4	CSTE 2104	Algorithm Design and Analysis Lab	CSTE 1204	1.5	2.25
5	CSTE 2105	Digital Logic Design	EEE 1201	3	3
6	CSTE 2106	Digital Logic Design Lab	EEE 1202	1	1.5
7	CSTE 2107	Theory of Computation	CSTE 1203	3	3
8	BBA 2101	Industrial Management and Accountancy		3	3
9	MATH 2101	Matrices, Vector Analysis and Co-ordinate Geometry		3	3
		<b>Total</b>		<b>22</b>	<b>24</b>

**Year-2 Term-2**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 2201	Database Management System		3	3
2	CSTE 2202	Database Management System Lab		1.5	2.25
3	EEE 2201	Digital Electronics and Pulse Technique	EEE 1201	3	3
4	EEE 2202	Digital Electronics and Pulse Technique Lab	EEE 1202	1.5	2.25
5	CSTE 2203	Signals and Systems		3	3
6	CSTE 2205	Data Communication		3	3
7	CSTE 2206	Data Communication Lab		1	1.5
8	CSTE 2207	Computer Architecture and Organization	CSTE2105	3	3
9	CSTE 2208	Computer Architecture and Organization Lab	CSTE 2106	1	1.5
10	STAT 2201	Probability, Statistics and Complex Variables		3	3
11	CSTE 2226	Viva Voce		1	0
		<b>Total</b>		<b>24</b>	<b>25.5</b>

**Year-3 Term-1**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 3101	Digital Signal Processing	CSTE2203	3	3
2	CSTE 3102	Digital Signal Processing Lab		1	1.5
3	CSTE 3103	Operating Systems and System Programming	CSTE 2103	3	3
4	CSTE 3104	Operating Systems and System Programming Lab	CSTE 2104	1.5	2.25
5	EEE 3101	Electromagnetic Waves and Radiating Systems	PHY1101	3	3
6	CSTE 3105	Microprocessor, Microcontroller and Interfacing	CSTE 2207	3	3
7	CSTE 3106	Microprocessor, Microcontroller and Interfacing Lab	CSTE 2208	1	1.5
8	CSTE 3107	Compiler Construction	CSTE 2107	3	3
9	CSTE 3108	Compiler Construction Lab		1	1.5
10	CSTE 3109	Artificial Intelligence	CSTE 2103	3	3
11	CSTE 3110	Artificial Intelligence Lab	CSTE 2104	1.5	2.25
		<b>Total</b>		<b>24</b>	<b>27</b>

**Year-3 Term-2**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 3201	Computer Graphics	CSTE1201	3	3
2	CSTE 3202	Computer Graphics Lab	CSTE1202	1	1.5
3	CSTE 3203	Computer Networking		3	3
4	CSTE 3204	Computer Networking Lab		1	1.5
5	CSTE 3205	Software Engineering and Information System Design	CSTE2201, CSTE 2103	3	3
6	CSTE 3206	Software Engineering and Information System Design Lab	CSTE 2202, CSTE 2104	1.5	2.25
7	CSTE 3207	Machine Learning	STAT2201, CSTE 2103	3	3
8	CSTE 3208	Machine Learning Lab		1.5	2.25
9	CSTE 3209	Microwave and Satellite Communication	EEE 3101	3	3
10	CSTE 3210	Microwave and Satellite Communication Lab		1	1.5
11	CSTE 3212	Web Engineering Lab	CSTE 2202	2	3
12	CSTE 3226	Viva Voce		1	0
		<b>Total</b>		<b>24</b>	<b>27</b>

**Year-4 Term-1**

Sl.#	Course Code	Course Title	pre-requisite	Credit	Credit Hours/ week
1	CSTE 4101	Digital Image Processing	CSTE3201	3	3
2	CSTE 4102	Digital Image Processing Lab	CSTE3202	1	1.5
3	CSTE 4103	Wireless and Mobile Communication	CSTE3203	3	3
4	CSTE 4105	Optical Fiber Communication	EEE3101, EEE 1201	3	3
5	CSTE 4106	Optical Fiber Communication Lab	EEE 1202	1	1.5
6	CSTE 4108	Technical Writing and Presentation Lab		1.5	2.25
7	CSTE 4125	Capstone Project I		2	4
		<b>Total</b>		<b>14.5</b>	<b>18.25</b>

**Year-4 Term-2**

<b>Sl.#</b>	<b>Course Code</b>	<b>Course Title</b>	<b>pre-requisite</b>	<b>Credit</b>	<b>Credit Hours/week</b>
1	CSTE 4201	Cryptography and Network Security	CSTE 3203, CSTE 2103	3	3
2	CSTE 4202	Cryptography and Network Security Lab	CSTE 3204	1	1.5
3	CSTE 4203	Graph Theory	CSTE 1207	3	3
4	HUM-4201	Principle of Economics		3	3
5	CSTE 4225	Capstone Project II		3	6
6	CSTE 4226	Viva Voce		1	0
		<b>Total</b>		<b>14</b>	<b>16.5</b>
		<b>Grand Total</b>		<b>166</b>	<b>185</b>

**Year-1 Term-1**