



(Approved by UGC & Govt.)

# PRIMEASIA UNIVERSITY

*a mission with a vision*

Star Tower, 12 Kemal Ataturk Avenue, Banani C/A, Dhaka-1213, Bangladesh, Phone : 9822133, 9821498-501, Mobile : 01777676548, 01857333440, 01621482175, Fax: +880-2-9820868, E-mail : info@primeasia.edu.bd, Website : http://www.primeasia.edu.bd

## Computer Science and Engineering Department

### Bachelor of Science in Computer Science and Engineering (CSE)

#### List of Courses

##### Semester 1

CODE	COURSE TITLE	PREREQ.	CREDITS
MATH 101	Calculus I		3.00
ENG 101	Basic English		3.00
CSE 101	Introduction to Computer		3.00
PHY 101	Physics I		3.00
PHY 102	Physics-I (Lab)		1.00
<b>Total Credits</b>			<b>13.00</b>

##### Semester 2

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 107	Object Oriented Programming	CSE 103	3.00
CSE 108	Object Oriented Programming (Lab)		1.00
EEE 103	Electrical Circuits		3.00
EEE 104	Electrical Circuits (Lab)		1.00
CSE 131	Discrete Mathematics		3.00
ECO 201	Economics		3.00
<b>Total Credits</b>			<b>14.00</b>

##### Semester 3

CODE	COURSE TITLE	PREREQ.	CREDITS
MATH 203	Matrices, Laplaces Transform, and Fourier Series		3.00
CSE 227	Digital Logic Design	EEE 201	3.00
CSE 228	Digital Logic Design (Lab)		1.00
ACT 201	Principles of Accounting		3.00
CSE 203	Algorithm	CSE 201	3.00
CSE 204	Algorithm (Lab)		1.00
<b>Total Credits</b>			<b>14.00</b>

##### Semester 4

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 315	Operating System		3.00
CSE 316	Operating System (Lab)		1.00
CSE 237	Digital Electronics and Pulse Techniques	EEE 207	3.00
CSE 238	Digital Electronics and Pulse Techniques (Lab)		1.00
HUM 304	World Civilization		3.00
<b>Total Credits</b>			<b>11.00</b>

##### Semester 5

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 333	Artificial Intelligence		3.00
CSE 334	Artificial Intelligence (Lab)		1.00
CSE 317	Computer Architecture	CSE 227	3.00
CSE 318	Computer Architecture (Lab)		1.00
CSE 335	Data Communication		3.00
<b>Total Credits</b>			<b>11.00</b>

##### Semester 6

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 421	Computer Graphics		3.00
CSE 422	Computer graphics (Lab)		1.00
	Option I		3.00
	Option I Lab		1.00
CSE 411	Computer Networks	CSE 335	3.00
CSE 412	Computer Networks (Lab)		1.00
CSE 414	Project		3.00
<b>Total Credits</b>			<b>15.00</b>

##### Semester 7

CODE	COURSE TITLE	PREREQ.	CREDITS
PHY 103	Physics-II	PHY101	3.00
ENG 102	Introduction to Composition	ENG 101	3.00
MATH 102	Calculus-II		3.00
CSE 103	Structured Programming	CSE 101	3.00
CSE 104	Structured Programming (Lab)		1.00
<b>Total Credits</b>			<b>13.00</b>

##### Semester 8

CODE	COURSE TITLE	PREREQ.	CREDITS
MATH 201	Differential Equations		3.00
STAT 201	Statistics and Probability		3.00
EEE 201	Electronic Circuit I	EEE 103	3.00
EEE 202	Electronic Circuit I (Lab)		1.00
CSE 201	Data Structure	CSE 107	3.00
CSE 202	Data Structure (Lab)		1.00
<b>Total Credits</b>			<b>14.00</b>

##### Semester 9

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 313	Numerical Technique	MATH 203	3.00
EEE 207	Electronic Circuit II	EEE 201	3.00
EEE 208	Electronic Circuit II (Lab)		1.00
CSE 231	Database System Design		3.00
CSE 232	Database System Design (Lab)		1.00
<b>Total Credits</b>			<b>11.00</b>

##### Semester 10

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 323	Software Engineering		3.00
CSE 327	Microprocessor and Microcontroller		3.00
CSE 328	Microprocessor and Microcontroller (Lab)		1.00
CSE 331	Theory of Computation	CSE 203	3.00
CSE 417	Simulation and Modeling		3.00
CSE 418	Simulation and Modeling (Lab)		1.00
<b>Total Credits</b>			<b>14.00</b>

##### Semester 11

CODE	COURSE TITLE	PREREQ.	CREDITS
CSE 325	Compiler Design	CSE 331	3.00
CSE 326	Compiler Design (Lab)		1.00
CSE 401	Computer Interfacing	CSE 327	3.00
CSE 402	Computer Interfacing (Lab)		1.00
CSE 415	System Analysis & Design	CSE 323	3.00
CSE 416	System Analyse Design (Lab)		1.00
<b>Total Credits</b>			<b>12.00</b>

##### Semester 12

CODE	COURSE TITLE	PREREQ.	CREDITS
	Option II		3.00
	Option II Lab		1.00
CSE 403	VLSI Design		3.00
CSE 404	VLSI Design (Lab)		1.00
CSE 414	Project/Thesis		3.00
<b>Total Credits</b>			<b>11.00</b>

**Total Semester : 12 | Total Credits : 153**

## OPTIONAL COURSES (Two Courses)

CODE	COURSE DESCRIPTION	PREREQ.	CREDITS	CODE	COURSE DESCRIPTION	PREREQ.	CREDITS
CSE 421	Distributed Database Systems	CSE 231	3.00	CSE 436	Expert System (Lab)		1.00
CSE 422	Distributed Database Systems (Lab)		1.00	CSE 455	Wireless and Cellular Communication	CSE 335	3.00
CSE 423	Pattern Recognition and Neural Network		3.00	CSE 456	Wireless and Cellular Communication (Lab)		1.00
CSE 424	Pattern Recognition and Neural Network (Lab)		1.00	CSE 461	Cryptography and Information Security		3.00
CSE 427	Graph Theory		3.00	CSE 462	Cryptography and Information Security (Lab)		1.00
CSE 428	Graph Theory (Lab)		1.00	CSE 485	Internet and Web Technologies		3.00
CSE 431	E-Commerce		3.00	CSE 486	Internet and Web Technologies (Lab)		1.00
CSE 432	E-Commerce (Lab)		1.00	CSE 487	Information Retrieval	CSE 231	3.00
CSE 433	Image Processing		3.00	CSE 488	Information Retrieval Lab		1.00
CSE 434	Image Processing (Lab)		1.00	CSE 491	Data Mining	CSE 231	3.00
CSE 435	Expert System	CSE 333	3.00	CSE 492	Data Mining (Lab)		1.00
CSE 481	Parallel and Multicore Programming		3.00	CSE 493	Bioinformatics		3.00
CSE497	Embedded System		3.00	CSE 495	Machine Learning		3.00