

CITY UNIVERSITY
Faculty of Science and Engineering
Department of Computer Science and Engineering (CSE)
Nine Semester Course Sequences for CSE Diploma Pass Students
[Evening Program for CSE Diploma Student]

Total Duration : 3 Years
Total Semester : 09
Total Credit : 127

Course Waiver for Diploma pass Students: Maximum 30.0 Credits (Average of "B" Grade or above)

<i>Course Title</i>	<i>Credit Hours</i>
Freshman English-I	3.0
Optional course from GEC Group	3.0
Optional course from GEC Group	3.0
Optional course from GEC Group	3.0
Optional course from GEC Group	3.0
Computer Fundamentals & Programming Technique	3.0
Computer Fundamentals & Programming Lab	1.5
Physics-I: Physical Optics, Heat & Thermodynamics and Waves & Oscillation	3.0
Physics Laboratory	1.5
Algebra, Trigonometry & 2D Geometry	3.0
Analytical and Vector Geometry	3.0
<i>Total:</i>	<i>30.0</i>

Types of Courses for Diploma Pass Students

The courses of the undergraduate curricula are divided into several groups such as:

Sl. No	Description	Course			Total Credits
		Theory	Lab	Total	
01	General Education Courses (GEC)	1	0	1	3.0
02	Basic Science (BSC) Courses	1	0	1	3.0
03	Mathematics (MAT) Courses	6	1	7	19.5
04	Computer Science Core (CSE) Courses	19	13	32	76.5
05	Technical Electives: Areas of Concentration	Any one Area			21
	Major in Computer Science	6	2	8	21
06	Major in Software Engineering	6	2	8	21
06	Major in Communication & Networking	6	2	8	21
06	Project & Presentation	0	1	1	4
	<i>Total:</i>	33	17	50	127

Nine Semester Course Sequences for Diploma Pass Students

1st year 1st Semester: Freshman Year | 1st Semester]

<i>Course Code</i>	<i>Course Title</i>	<i>Credit Hours</i>
ENG 201	(GEC):Freshman English - II	3.0
PHY 201	(BSC):Physics - II(Waves and Oscillations Optics and Thermal Physics)	3.0
MAT 101	(MAT):Differential and Integral Calculus	3.0
CSE 113	(CC):Structured Programming Language	3.0
CSE 114	(CC):Structured Programming Language Laboratory	1.5
	<i>Total:</i>	<i>13.5</i>

Safaet 01/12/16
Md. Safaet Hossain
 Head

Department of CSE
 City University, Banani, Dhaka-1213

Page 1 of 3

M. Rahaman
 01/12/2016

Prof. Dr. Md. Matiur Rahaman Mian
 Dean

Faculty of Science & Engineering
 City University, Banani, Dhaka-1213

1st year 2nd Semester | 2nd Semester]

Course Code	Course Title	Credit Hours
EEE 201	(CC):Electrical Engineering	3.0
EEE 202	(CC):Electrical Circuit Laboratory	1.5
CSE 115	(CC):Object Oriented Programming	3.0
CSE 116	(CC):Object Oriented Programming Laboratory	1.5
CSE 307	(MAT):Discrete Mathematics	3.0
Total:		12.0

1st year 3rd Semester | 3rd Semester]

Course Code	Course Title	Credit Hours
EEE 301	(CC):Electronic Circuit-I	3.0
EEE 302	(CC):Electronic Circuit Laboratory	1.5
MAT 221	(MAT):Matrix & Linear Algebra	3.0
CSE 213	(CC):Data Structure	3.0
CSE 214	(CC):Data Structure Laboratory	1.5
Total:		12.0

2nd year 1st Semester : Sophomore Year [4th Semester]

Course Code	Course Title	Credit Hours
CSE 211	(CC):Digital Logic Design	3.0
CSE 212	(CC):Digital Logic Design Laboratory	1.5
CSE 215	(CC):Algorithms	3.0
CSE 216	(CC):Algorithms Laboratory	1.5
MAT 203	(MAT):Differential Equation	3.0
Total:		12.0

2nd year 2nd Semester | 5th Semester]

Course Code	Course Title	Credit Hours
STA 301	(MAT):Statistics & Probability	3.0
CSE 231	(MAT):Numerical Methods of Analysis	3.0
CSE 232	(MAT):Numerical Methods of Analysis Laboratory	1.5
CSE 311	(CC):Database Management System	3.0
CSE 312	(CC):Database Management System Laboratory	1.5
Total:		12.0

2nd year 2nd Semester | 6th Semester]

Course Code	Course Title	Credit Hours
CSE 317	(CC):Computer Networks	3.0
CSE 318	(CC):Computer Networks Laboratory	1.5
CSE 315	(CC):Operating System	3.0
CSE 321	(CC):Microprocessor and Assembly Language	3.0
CSE 322	(CC):Microprocessor and Assembly Language Lab.	1.5
Total:		12.0

2nd year 3rd Semester | 7th Semester]

Course Code	Course Title	Credit Hours
CSE 313	(CC):Data Communication	3.0
CSE 319	(CC):Theory of Computing	3.0
CSE 323	(CC):Compiler Design	3.0
CSE 325	(CC):System Analysis & Design	3.0
CSE 326	(CC):System Analysis & Design Laboratory	1.5
Total:		13.5

3rd year 1st Semester: Senior Year [8th Semester]

Course Code	Course Title	Credit Hours
CSE 411	(CC):Digital System Design	3.0
CSE 412	(CC):Digital System Design Laboratory	1.5
CSE 413	(CC):Computer Architecture	3.0
CSE 415	(CC):Software Engineering	3.0

Safaet
Md. Safaet Hossain
Head
Department of CSE
City University, Banani, Dhaka-1213

Matiur
Prof. Dr. Md. Matiur Rahaman Mian
Dean
Faculty of Science & Engineering
City University, Banani, Dhaka-1213

CSE 416	(CC):Software Engineering Laboratory	1.5
CSE 417	(CC):Artificial Intelligence	3.0
Total :		15.0

Technical Elective (A): Major in Computer Science (25 Credits)

3rd year 2nd Semester: [9th Semester]

Course Code	Course Title	Credit Hours
CN 409	(MCS):Network Management & Security	3.0
CS 421	(MCS):Neural Network and Fuzzy System	3.0
CS 409	(MCS):Graph Theory	3.0
CS 407	(MCS):Computer Graphics	3.0
CS 408	(MCS):Computer Graphics Laboratory	1.5
Total:		13.5

3rd year 3rd Semester | 10th Semester]

Course Code	Course Title	Credit Hours
CS 411	(MCS):Image Processing	3.0
CS 413	(MCS):Multimedia System	3.0
CS 414	(MCS):Multimedia System Laboratory	1.5
CSE 498	(MCS):Project & Presentation	4.0
Total:		11.5

Technical Elective (B) : Major in Software Engineering (25 Credits)

3rd year 2nd Semester | 9th Semester]

Course Code	Course Title	Credit Hours
SE 401	(MSE):Computer Simulation & Modeling	3.0
SE 403	(MSE):Software Quality Assurance	3.0
CS 401	(MSE):System Programming	3.0
SE 407	(MSE):Web Database Programming	3.0
SE 408	(MSE):Web Database Programming Laboratory	1.5
Total:		13.5

3rd year 3rd Semester | 10th Semester]

Course Code	Course Title	Credit Hours
SE 409	(MSE):Advanced Enterprise Java	3.0
SE 410	(MSE):Advanced Enterprise Java Laboratory	1.5
SE 413	(MSE):Internet & Internet Technology/E-Business	3.0
CSE 498	(MSE):Project and Presentation	4.0
Total:		11.5

Technical Elective (C): Major in Communication & Networking (25 Credits)

3th year 2nd Semester | 9th Semester |

Course Code	Course Title	Credit Hours
CN 401	(MCN):Telecommunication Engineering	3.0
CN 402	(MCN):Telecommunication Engineering Laboratory	1.5
CN 403	(MCN):Optical Fiber Communication	3.0
CN 407	(MCN):Microwave Communication Engineering	3.0
CN 408	(MCN):Microwave Communication Engineering Laboratory	1.5
Total:		12.0

3rd year 3rd Semester | 10th Semester |

Course Code	Course Title	Credit Hours
CN 405	(MCN):Mobile & Cellular Communication	3.0
CN 409	(MCN):Network Management & Security	3.0
CN 413	(MCN):Wireless & Satellite Communication	3.0
CSE 498	(MCN):Project & Presentation	4.0
Total:		13.0

Safat 01/12/16
Md. Safat Hossain
 Head
 Department of CSE
 City University, Banani, Dhaka-1213

M. Matiur
 01/12/2016
Prof. Dr. Md. Matiur Rahaman Mian
 Dean
 Faculty of Science & Engineering
 City University, Banani, Dhaka-1213