



NPI University of Bangladesh
Department of Computer Science and Engineering
We Offer the Following Courses for B. Sc. in CSE (Diploma in CMT)

1 st Year 1 st Semester			3 rd Year 1 st Semester		
CSE 1101	Structured Programming	3.00	CSE 3101	Mobile Application Development	3.00
CSE 1102	Structured Programming Laboratory	1.50	CSE 3102	Mobile Application Development Laboratory	0.75
EEE 1131	Basic Electrical Engineering	3.00	CSE 3103	Operating Systems	3.00
EEE 1132	Basic Electrical Engineering Laboratory	0.75	CSE 3104	Operating Systems Laboratory	1.50
CSE 1115	Digital Logic Design	3.00	CSE 3111	Computer Networks	3.00
CSE 1116	Digital Logic Design Laboratory	1.50	CSE 3112	Computer Networks Laboratory	1.50
HUM 3177	Entrepreneurship for IT Business	2.00	CSE 3115	Software Engineering	3.00
CSE 4220	Technical Writing and Seminar	0.75	CSE 3116	Software Engineering Laboratory	1.50
EEE 1233	Analog Electronics	3.00	GEN 303	Bangladesh Studies	3.00
EEE 1234	Analog Electronics Laboratory	0.75			
1 st Year 2 nd Semester			3 rd Year 2 nd Semester		
CSE 1205	Object Oriented Programming	3.00	CSE 3217	Information System Design	3.00
CSE 1206	Object Oriented Programming Laboratory	1.50	CSE 3218	Information System Design Laboratory	0.75
CSE 2101	Data Structures	3.00	CSE 3205	Applied Statistics and Queuing Theory	3.00
CSE 2102	Data Structures Laboratory	1.50	CSE 4243	System Automation	3.00
CSE 1103	Discrete Mathematics	3.00	CSE 4244	System Automation Laboratory	0.75
CSE 2231	Digital Electronics	3.00	CSE 3209	Compiler Design	3.00
CSE 2232	Digital Electronics Laboratory	1.50	CSE 3210	Compiler Design Laboratory	0.75
MATH 1243	Coordinate Geometry and Differential Equations	3.00	CSE 3257	Big Data Analytics	3.00
ME 1251	Computer Aided Design Laboratory	1.50	CSE 4100	System Development Project	1.50
2 nd Year 1 st Semester			4 th Year 1 st Semester		
CSE 2120	Advanced Programming	1.50	CSE 4200	Project / Thesis	6.00
CSE 2103	Algorithm Analysis and Design	3.00	CSE 4207	Machine Learning	3.00
CSE 2104	Algorithm Analysis and Design Laboratory	0.75	CSE 4208	Machine Learning Laboratory	0.75
CSE 2115	Microprocessors, Microcontrollers and Embedded Systems	3.00	CSE 4115	Computer Graphics	3.00
CSE 2116	Microprocessors, Microcontrollers and Embedded Systems Laboratory	1.50	CSE 4116	Computer Graphics Laboratory	0.75
ETE 3231	Data Communication	3.00	CSE 4117	Digital Image Processing and Computer Vision	3.00
CSE 3107	Theory of Computation	3.00	CSE 4118	Digital Image Processing and Computer Vision Laboratory	0.75
MATH 2141	Fourier Analysis and Linear Algebra	3.00	CSE 4111	Computer and Network Security	3.00
CSE 4281	Human Computer Interaction	3.00	CSE 4112	Computer and Network Security Laboratory	0.75
2 nd Year 2 nd Semester					
CSE 2230	Web Programming	1.50			
CSE 2205	Database Systems	3.00			
CSE 2206	Database Systems Laboratory	1.50			
CSE 2207	Numerical Methods	2.00			
CSE 2208	Numerical Methods Laboratory	0.75			
CSE 2213	Computer Architecture	3.00			
CSE 4103	Artificial Intelligence	3.00			
CSE 4104	Artificial Intelligence Laboratory	0.75			
MATH 2243	Complex Variable, Vector Analysis and Statistics	3.00			

Total Course and Credits in summary:

Semester	No. of Course with Lab (Theory+Practicle=Total)	Total
1 st Year 1 st Semester		19.25
1 st Year 2 nd Semester		21
2 nd Year 1 st Semester		21.75
2 nd Year 2 nd Semester		18.5
3 rd Year 1 st Semester		20.25
3 rd Year 2 nd Semester		18.75
4 th Year 1 st Semester		21
Total Credits: 140.50		

 Head (act.), Dept. of CSE, NPIUB.