

Semester-Wise Distribution of Courses

Semester	Program	B.Sc IN CSE (4 YEARS)			
	Batch				
Elective Courses	Code	Course Title	Credit Hours	Contact Hours	
	CSE0613405	Machine Learning	3	3	Elective-I
	CSE0611405	Bioinformatics	3	3	
	CSE0612403	Cloud Computing	3	3	
	CSE0611407	Distributed System	3	3	
	CSE0611409	Embedded Systems	3	3	
	CSE0611411	Robotics	3	3	
	CSE0612405	Internet of Things (IoT)	3	3	Elective-II
	CSE0611413	Data and Web Mining	3	3	
	CSE0611415	Big Data Analytics	3	3	
	CSE0613407	Mobile Application Development	3	3	
	CSE0613409	Machine Vision and Motion Analysis	3	3	Elective-IV
	CSE0613411	Quantum Computing	3	3	
	CSE0612407	Ethical Hacking and System Security	3	3	
	CSE0611417	Digital Forensic and Incident Response	3	3	
	CSE0612409	Blockchain and Distributed Security	3	3	
	MAT0541401	Numerical Methods	3	3	Elective-III
	CSE0611419	Business Analytics	3	3	
		Total Credits =	51	51	
	Batch				
12	Code	Course Title	Credit Hours	Contact Hours	
	CSE0613499	Project (Phase-II)	3	3	
		Elective-III	3	3	
		Elective-IV	3	3	
		Total Credits =	9	9	
	Batch				

11	Code	Course Title	Credit Hours	Contact Hours
	MIS0611403	System Auditing and Maintenance	3	3
	CSE0612401	Switching and Routing	1	3
	CSE0613403	Software Testing and Quality Assurance	3	3
		Elective-II	3	3
		Total Credits =	10	12
	Batch			
10	Code	Course Title	Credit Hours	Contact Hours
	CSE0613499	Project (Phase-I)	3	3
	MIS0611401	Information Systems Management	3	3
	CSE0613401	Software Project Management	3	3
		Elective-I	3	3
		Total Credits =	12	12
	Batch			
9	Code	Course Title	Credit Hours	Contact Hours
	CSE0613309	Software Engineering	3	3
	CSE0613310	Software Engineering Lab	1	3
	CSE0612305	Computer Networking	3	3
	CSE0612306	Computer Networking Lab	1	3
	CSE0611301	Engineering Drawing	3	3
	CSE0611303	Computer and Cyber Security	3	3
		Total Credits =	14	18
	Batch			
8	Code	Course Title	Credit Hours	Contact Hours
	CSE0613301	Web Programming	3	3
	CSE0613302	Web Programming Lab	1	3
	CSE0613303	Systems Analysis and Design	3	3
	BUS0411301	Financial and Managerial Accounting	3	3
	CSE0613311	Artificial Intelligence	3	3
	CSE0613312	Artificial Intelligence Lab	1	3
		Total Credits =	14	18
	Batch			
7	Code	Course Title	Credit Hours	Contact Hours
	CSE0612301	Database Management System	3	3

	CSE0612302	Database Management System Lab	1	3
	CSE0612303	Data Communication	3	3
	CSE0613305	Automate Theory and Compiler	3	3
	CSE0613306	Automate Theory and Compiler Lab	1	3
	CSE0613307	System Configuration and Performance Evaluation	1	3
	Total Credits =		12	18
	Batch			
6	Code	Course Title	Credit Hours	Contact Hours
	MAT0541201	Engineering Mathematics	3	3
	CSE0613205	Operating System	3	3
	CSE0613206	Operating System Lab	1	3
	CSE0613209	Microprocessor Assembly Programming	3	3
	CSE0613210	Microprocessor Assembly Programming Lab	1	3
	Total Credits =		11	15
	Batch			
5	Code	Course Title	Credit Hours	Contact Hours
	CSE0611101	Discrete Mathematics	3	3
	GED0413201	Entrepreneurship: Innovation and Commercialization	3	3
	CSE0613207	Java Programming	3	3
	CSE0613208	Java Programming Lab	1	3
	MAT0541202	Statistics and Queuing Theory	3	3
	Total Credits =		13	15
	Batch			
4	Code	Course Title	Credit Hours	Contact Hours
	EEE0713201	Electronics	3	3
	EEE0714202	Electronics Lab	1	3
	CSE0613201	Object-Oriented Programming Language	3	3
	CSE0613202	Object-Oriented Programming Language Lab	1	3
	CSE0613203	Digital Logic Design	3	3
	CSE0613204	Digital Logic Design Lab	1	3
	Total Credits =		12	18
	Batch			
3	Code	Course Title	Credit Hours	Contact Hours
	CSE0613103	Data Structure and Algorithms	3	3

	CSE0613104	Data Structure and Algorithms Lab	1	3
	GED0223101	Professional Ethics and Environmental Protection	3	3
	MAT0541102	Linear Algebra	3	3
	EEE0713101	Electrical Engineering	3	3
	EEE0713102	Electrical Engineering Lab	1	3
	Total Credits =		14	18
	Batch			
2	Code	Course Title	Credit Hours	Contact Hours
	PHY0533101	Physics	3	3
	PHY0533102	Physics Lab	1	3
	ECO0311101	Engineering Economics	3	3
	CSE0611201	Computer Architecture	3	3
	GED0222101	Bangladesh Studies: History and Cultures	3	3
	Total Credits =		13	15
	Batch			
1	Code	Course Title	Credit Hours	Contact Hours
	CSE0613101	Structured Programming Language	3	3
	CSE0613102	Structured Programming Language Lab	1	3
	MAT0541101	Differential & Integral Calculus	3	3
	ENG0232101	Communicative English	3	3
	ENG0232102	Communicative English Lab	1	3
	Total Credits =		11	15
	Total Credits (Program) =		145	183
Semester	Program	B.Sc IN CSE (EVENING)		
	Batch			
Courses Exempted for Diploma Students	Code	Course Title	Credit Hours	Contact Hours
	PHY0533101	Physics	3	3
	PHY0533102	Physics Lab	1	3
	EEE0713101	Electrical Engineering	3	3
	EEE0713102	Electrical Engineering Lab	1	3
	ECO0311101	Engineering Economics	3	3
	BUS0411301	Financial and Managerial Accounting	3	3
	Total Credits =		14	18

Elective Courses	Code	Course Title	Credit Hours	Contact Hours
	CSE0613405	Machine Learning	3	3
	CSE0611405	Bioinformatics	3	3
	CSE0612403	Cloud Computing	3	3
	CSE0611407	Distributed System	3	3
	CSE0611409	Embedded Systems	3	3
	CSE0611411	Robotics	3	3
	CSE0612405	Internet of Things (IoT)	3	3
	CSE0611413	Data and Web Mining	3	3
	CSE0611415	Big Data Analytics	3	3
	CSE0613407	Mobile Application Development	3	3
	CSE0613409	Machine Vision and Motion Analysis	3	3
	CSE0613411	Quantum Computing	3	3
	CSE0612407	Ethical Hacking and System Security	3	3
	CSE0611417	Digital Forensic and Incident Response	3	3
	CSE0612409	Blockchain and Distributed Security	3	3
	MAT0541401	Numerical Methods	3	3
	CSE0611419	Business Analytics	3	3
	Total Credits =		51	51
	Batch			
11	Code	Course Title	Credit Hours	Contact Hours
	CSE0613499	Project (Phase-II)	3	3
	Total Credits =		3	3
	Batch			
10	Code	Course Title	Credit Hours	Contact Hours
	CSE0613403	Software Testing and Quality Assurance	3	3
	CSE0612401	Switching and Routing	1	3
		Elective-III	3	3
		Elective-IV	3	3
	Total Credits =		10	12
	Batch			
9	Code	Course Title	Credit Hours	Contact Hours

	CSE0613499	Project (Phase-I)	3	3
	CSE0613401	Software Project Management	3	3
	MIS0611401	Information Systems Management	3	3
		Elective-II	3	3
		Elective-I	3	3
		Total Credits =	15	15
	Batch			
8	Code	Course Title	Credit Hours	Contact Hours
	GED0223101	Professional Ethics and Environmental Protection	3	3
	MIS0611403	System Auditing and Maintenance	3	3
	CSE0613311	Artificial Intelligence	3	3
	CSE0613312	Artificial Intelligence Lab	1	3
	CSE0612301	Database Management System	3	3
	CSE0612302	Database Management System Lab	1	3
		Total Credits =	14	18
	Batch			
7	Code	Course Title	Credit Hours	Contact Hours
	CSE0613309	Software Engineering	3	3
	CSE0613310	Software Engineering Lab	1	3
	CSE0612305	Computer Networking	3	3
	CSE0612306	Computer Networking Lab	1	3
	CSE0611301	Engineering Drawing	3	3
	CSE0611303	Computer and Cyber Security	3	3
		Total Credits =	14	18
	Batch			
6	Code	Course Title	Credit Hours	Contact Hours
	CSE0613207	Java Programming	3	3
	CSE0613208	Java Programming Lab	1	3
	CSE0612303	Data Communication	3	3
	CSE0613305	Automate Theory and Compiler	3	3
	CSE0613306	Automate Theory and Compiler Lab	1	3
	CSE0613307	System Configuration and Performance Evaluation	1	3
		Total Credits =	12	18
	Batch			

5	Code	Course Title	Credit Hours	Contact Hours
	CSE0613209	Microprocessor Assembly Programming	3	3
	CSE0613210	Microprocessor Assembly Programming Lab	1	3
	MAT0541202	Statistics and Queuing Theory	3	3
	CSE0613301	Web Programming	3	3
	CSE0613302	Web Programming Lab	1	3
	CSE0611101	DISCRETE MATHEMATICS	3	3
		Total Credits =	14	18
	Batch			
4	Code	Course Title	Credit Hours	Contact Hours
	MAT0541201	Engineering Mathematics	3	3
	CSE0613205	Operating System	3	3
	CSE0613206	Operating System Lab	1	3
	CSE0613201	Object-Oriented Programming Language	3	3
	CSE0613202	Object-Oriented Programming Language Lab	1	3
		Total Credits =	11	15
	Batch			
3	Code	Course Title	Credit Hours	Contact Hours
	MAT0541102	Linear Algebra	3	3
	CSE0613103	Data Structure and Algorithms	3	3
	CSE0613104	Data Structure and Algorithms Lab	1	3
	CSE0611201	Computer Architecture	3	3
	CSE0613303	Systems Analysis and Design	3	3
		Total Credits =	13	15
	Batch			
2	Code	Course Title	Credit Hours	Contact Hours
	MAT0541101	Differential & Integral Calculus	3	3
	GED0413201	Entrepreneurship: Innovation and Commercialization	3	3
	EEE0713201	Electronics	3	3
	EEE0714202	Electronics Lab	1	3
	CSE0613203	Digital Logic Design	3	3
	CSE0613204	Digital Logic Design Lab	1	3
		Total Credits =	14	18
	Batch			

1	Code	Course Title	Credit Hours	Contact Hours
	CSE0613101	Structured Programming Language	3	3
	CSE0613102	Structured Programming Language Lab	1	3
	GED0222101	Bangladesh Studies: History and Cultures	3	3
	ENG0232101	Communicative English	3	3
	ENG0232102	Communicative English Lab	1	3
	Total Credits =		11	15
	Total Credits (Program) =		131	165
	Program	M.Sc IN CSE		
	Batch			
3	Code	Course Title	Credit Hours	Contact Hours
	MCSE0613507	Advanced System Analysis and Design	3	3
	MCSE0613509	Web Engineering	3	3
	MCSE0613531	Big Data Analytics	3	3
	MCSE0613599	Project-II	3	3
	Total Credits =		12	12
	Batch			
2	Code	Course Title	Credit Hours	Contact Hours
	MCSE0613523	Software Project Management	3	3
	MCSE0612505	Advanced Database Management System	3	3
	GED0413541	Entrepreneurship	2	3
	MCSE0612601	Computer and Network Security	3	3
	MCSE0612515	Cloud Computing	3	3
	Total Credits =		14	15
	Batch			
1	Code	Course Title	Credit Hours	Contact Hours
	MCSE0613501	Advanced Topics in Microcomputers	3	3
	MCSE0612503	Computer Communications & Network Technology	3	3
	GED0542543	Research Methodology	2	3
	MCSE0613525	Machine Learning	3	3
	MCSE0613598	Project-I	3	3
	Total Credits =		14	15
	Total Credits (Program) =		40	42