

Software Engineering

Institute of Information Technology
Dhaka University

CORE: COMPUTER SCINECE

CSE 101	Structured Programming	3
CSE 102	Discrete Mathematics	3
CSE 201	Data Structure and Algorithm	3
CSE 211	Computer Organization	3
CSE 301	Combinatorial Optimization	3
CSE 311	Computer Networking	3
CSE 401	Operating System and System Programming	3
CSE 411	Information Security	3
CSE 404	Database management System I	3
CSE 502	Web Technology	3
CSE 504	Database Management System II	3
CSE 601	Distributed Systems	3
CSE 604	Artificial Intelligence	3

CORE: SOFTWARE ENGINEERING

SE 106	Introduction to Software Engineering	3
SE 206	Object Oriented Concepts I	3
SE 312	Theory of Computing	3
SE 306	Object Oriented Concepts II	3
SE 406	Software Requirements Specification and Analysis	3
SE 511	Professional Ethics for Information Systems	3
SE 506	Design Patterns	3
SE 611	Software Metrics	3
SE 612	Software Security	3
SE 605	Software Testing and Quality Assurance	3
SE 606	Software Design and Analysis	3
SE 811	Software Maintenance	3
SE 803	Software Project Management	3
SE305	Software Project Sessional 1	3
SE505	Software Project Sessional 2	3
SE701	Internship	18
SE801	Project	6

CORE: MATHEMATICS

MAT 104	Calculus and Analytical Geometry	3
MAT 204	Ordinary Differential Equations	3
MAT 304	Numerical Analysis for Engineers	3
STA 103	Probability and Statistics for Engineers I	3
STA 203	Probability and Statistics for Engineers II	3

CORE: BUSINESS

BUS405	Business Studies for Engineers	3
BUS503	Business Communications	3

ELECTIVES (Any Two Courses)

CSE 802	Computer Data ad Network Security	3
CSE 823	Embedded Systems	3
CSE 825	Data Mining and Warehousing	3
CSE 829	Pattern Recognition and Image Processing	3
CSE 830	Mobile and Wireless Computing	3
CSE 831	Computer Graphics and Multimedia	3
CSE 837	Machine Learning	3
CSE 839	Human Computer Interaction	3
CSE 840	Information Retrieval	3
CSE 844	Applied Data Science	3
BUS823	Numeric Computation of Financial Modeling	3
BUS827	Enterprise Information Systems	3
BUS842	Strategic Management	3