

Information Booklet
for
Admission session from 1998-99 to 2009-10
Undergraduate Programs



Department of Computer Science and Engineering
Faculty of Electrical and Electronic Engineering
Dhaka University of Engineering & Technology, Gazipur

SYLLABUS

Summary of Course plan

Sl.No.	Year/ Semester	Theory		Sessional		Total Credits
		No. Of Courses	Credit	No. Of Courses	Credit	
1.	1 st / 1st*	5*	16.00*	3*	4.50*	20.50*
2.	1st/ 2nd	5	17.00	4	3.75	20.75
3.	2nd/ 1st	5	16.00	4	4.50	20.50
4.	2nd/ 2nd	5	17.00	4	3.75	20.75
5.	3rd/ 1st	5	16.00	4	4.50	20.50
6.	3rd/ 2nd	5	15.00	5	4.50	19.50
7.	4th/ 1st	5	15.00	5	4.50	19.50
8.	4th/ 2nd	5	16.00	3	3.00	19.00
Total (excluding 1 st year 1 st semester)		35	112.00	29	28.50	140.50
Total (including 1 st year 1 st semester)		40	128.00	32	33.00	161.00

*1st year 1st semester classes are exempted because of the candidate's 3-years Diploma in Engineering after 10 years of schooling.

Summary of Courses

1st Year 1st Semester (Exempted)

Sl.No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	Math-141	Mathematics – I	3	0	3
2.	Ph-141	Physics – I	3	0	3
3.	Ph-142	Physics – I Sessional	0	3	1.5'
4.	Ch-141	Chemistry-I	3	0	3
5.	Ch-142	Chemistry-I Sessional	0	3	1.5
6.	CSE-115	Computer Fundamentals	3	0	3
7.	CSE-116	Computer Fundamentals Sessional	0	3	1.5
8.	Hum-141	Government and Sociology	4	0	4
Total			16	9	20.5

1st Semester Load = 16L + 9P = 25 hrs/week

1st Year 2nd Semester

Sl.No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1	CSE-111	Computer Basics & Programming	4	0	4
2.	CSE-112	Computer Basics & Programming Sessional	0	3	1.5
3.	CSE-114	Drawing & CAD Project Sessional	0	3/2	0.75
4.	Math-143	Mathematics – II	4	0	4
5.	Ph-143	Physics – II	3	0	3
6.	Ph-144	Physics – II Sessional	0	3/2	0.75
7.	Ch-143	Chemistry-II	3	0	3
8.	Ch-144	Chemistry-II Sessional	0	3/2	0.75
9.	Hum-143	English and Economics	3	0	3
Total			17	7.5	20.75

2nd Semester Load = 17L + 7.5 P = 24.50 hrs/week

2nd Year 1st Semester

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-210	Visual Programming Sessional	0	3	1.5
2.	CSE-211	Structured & Object Oriented Programming	3	0	3
3.	CSE-212	Structured & Object Oriented Programming Sessional	0	3	1.5
4.	EEE-255	Electronic Devices & Circuits	3	0	3
5.	EEE-256	Electronic Devices & Circuits Sessional	0	3/2	0.75
6.	Math-241	Mathematics-III	4	0	4
7.	CSE-221	Digital Logic Design	3	0	3
8.	CSE-222	Digital Logic Design Sessional	0	3/2	0.75
9.	CSE-213	Discrete Mathematics	3	0	3
Total			16	9	20.5

1st Semester Load = 16L + 9P = 25 hrs/week

2nd Year 2nd Semester

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-215	Data Structure	3	0	3
2.	CSE-216	Data Structure Sessional	0	3/2	0.75
3.	EEE-235	Electrical Drives and Instrumentation	3	0	3
4.	EEE-236	Electrical Drives and Instrumentation Sessional	0	3/2	0.75
5.	Math-243	Mathematics-IV	4	0	4
6.	CSE-218	Numerical Methods Sessional	0	3	1.5
7.	CSE-223	Digital Electronics & Pulse Technique	3	0	3
8.	CSE-224	Digital Electronics & Pulse Technique Sessional	0	3/2	0.75
9.	Hum-241	Industrial Management & Accounting	4	0	4
Total			17	7.5	20.75

2nd Semester Load = 17L + 7.5 P = 24.5 hrs/week

3rd Year 1st Semester

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-311	Algorithm Design & Analysis	3	0	3
2.	CSE-312	Algorithm Design & Analysis Sessional	0	3	1.50
3.	CSE-313	Database System-	3	0	3
4.	CSE-314	Database Systems Sessional	0	3/2	0.75
5.	Math-341	Mathematics-V	4	0	4
6.	CSE-315	Theory of Computation	3	0	3
7.	CSE-321	Microprocessor and Assembly Language	3	0	3
8.	CSE-322	Microprocessor and Assembly Language Sessional	0	3/2	0.75
9.	CSE-330	Internet Programming Sessional	0	3	1.5
Total			16	9	20.50

1st Semester Load = 16L + 9P = 25 hrs/week

3rd Year 2nd Semester

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-316	Software Development Project	0	3	1.5
2.	CSE-317	Operating System	3	0	3
3.	CSE-318	Operating System Sessional	0	3/2	0.75
4.	CSE-371	Compiler Design	3	0	3
5.	CSE-372	Compiler Design Sessional	0	3/2	0.75
6.	CSE-325	Computer Architecture	3	0	3
7.	CSE-331	Data Communication	3	0	3
8.	CSE-332	Data Communication Sessional	0	3/2	0.75
9.	CSE-373	Information System Analysis & Design	3	0	3
10.	CSE-374	Information System Analysis & Design Sessional	0	3/2	0.75
Total			15	9	19.50

2nd Semester Load = 15L + 9P = 24 hrs/week

4th Year 1st Semester

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-410	Project and Thesis-1	0	3	1.5
2.	CSE-421	Digital System Design	3	0	3
3.	CSE-422	Digital System Design Sessional	0	3/2	0.75
4.	CSE-423	Peripherals & Interfacing	3	0	3
5.	CSE-424	Peripherals & Interfacing Sessional	0	3/2	0.75
6.	CSE-431	Computer Networks	3	0	3
7.	CSE-432	Computer Networks Sessional	0	3/2	0.75
8.	Option - I		3	0	3
9.	Option - I Sessional		0	3/2	0.75
10.	Option - II		3	0	3
Total			15	9	19.5

1st Semester Load = 15L + 9P = 24 hrs/week + 3weeks

List of Optional Courses:

Option - I (One Subject should be selected from the following courses):

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-413	Computational Geometry	3	0	3
2.	CSE-414	Computational Geometry Sessional	0	3/2	0.75
3.	CSE-425	VLSI Design	3	0	3
4.	CSE-426	VLSI Design Sessional	0	3/2	0.75
5.	CSE-415	Simulation & Modeling	3	0	3
6.	CSE-416	Simulation & Modeling Sessional	0	3/2	0.75
7.	CSE-417	Relational Database System Programming	3	0	3
8.	CSE-418	Relational Database System Programming Sessional	0	3/2	0.75

Option-II (One Subject should be selected from the following courses):

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1.	CSE-419	Graph Theory & Algorithm	3	0	3
2.	CSE-427	Digital Signal Processing	3	0	3
3.	CSE-471	Human Computer Interaction	3	0	3
4.	CSE-429	Pattern Recognition	3	0	3

4th Year 2nd Semester

Sl. No.	Course No.	Course Title	Theoryhrs/week	Sessional hrs/week	Credits
1.	CSE-410	Project & Thesis-II	0	3	1.5
2.	CSE-473	Computer Graphics & Multimedia	4	0	4
3.	CSE-474	Computer Graphics & Multimedia Sessional	0	3/2	0.75
4	CSE-475	Artificial Intelligence	3	0	3
5	CSE-476	Artificial Intelligence Sessional	0	3/2	0.75
6.	CSE-477	Software Engineering	3	0	3
7.	Option - I		3	0	3
8.	Option - II		3	0	3
Total			16	6	19

2nd Semester Load = 16L + 6P = 22 hrs/week

List of Optional Courses:

Option-I & II : 2 Courses should be selected from the following courses:

Sl. No.	Course No.	Course Title	Theory hrs/week	Sessional hrs/week	Credits
1	CSE-461	Neural Networks & Fuzzy System	3	0	3
2.	CSE-467	Parallel & Distributed Processing	3	0	3
3.	CSE-481	Robotics and Computer Vision	3	0	3
4.	CSE-483	Advanced Computer Architecture	3	0	3
5.	CSE-491	Decision Support System	3	0	3
6.	CSE-493	Machine Learning	3	0	3
7.	CSE-469	Fault Tolerant System	3	0	3
8.	CSE-495	Information System Management	3	0	3
9.	CSE-497	Knowledge Engineering	3	0	3