

Year - 1

SI No	Course Code	Course Title	Credits		Contact Hrs/Week		Pre-requisite
			T	L	T	L	
1	ENG 101	Listening and Speaking Skills	3		3		
2	MAT 111	Mathematics - I	3		3		
3	PHY 111	Physics -I	3		3		
4	HUM/SOC-1	Any one from Humanities/ Social Science Groups	3		3		
5	EEE 131	Electrical Circuit-I	3		3		
6	HUM/SOC-2	Any one from Humanities/ Social Science Groups	3		3		
7	PHY 121	Physics -II	3		3		PHY 111
8	PHY 121L	Physics Lab		1		2	
9	CSC 121	Introduction to Computer Programming	3		3		
10	CSC 121L	Computer Programming Lab		1		2	
11	ENG 102	Listening and Speaking Skills	3		3		ENG 101
12	MAT 121	Probability & Statistics for Science & Engineering	3		3		
13	EEE 211	Electrical Circuit-II	3		3		EEE 131
14	EEE 211L	Electrical Circuit Lab		1		2	
Total Credits in 1st Year = 36			33	3	33	6	

Year - 2

SI No	Course Code	Course Title	Credits		Contact Hrs/Week		Pre-requisite
			T	L	T	L	
15	ENG 105	Business English	3		3		ENG 102
16	EEE 132	Introduction to Materials and Chemistry	3		3		
17	MAT 131	Mathematics - II	3		3		MAT 111
18	HUM/SOC-3	Any one from Humanities/ Social Science Groups	3		3		
19	EEE 221	Electronics-I	3		3		EEE 131
20	MAT 213	Mathematics-III	3		3		
21	HUM/SOC-4	Any one from Humanities/ Social Science Groups	3		3		
22	EEE 223	Mechanical Engineering Fundamentals	3		3		
23	MAT 221	Mathematics-IV	3		3		MAT 213
24	EEE 231	Signals and Systems	3		3		MAT 213
25	EEE 233	Energy Conversion - I	3		3		EEE 211
26	EEE 233L	Energy Conversion - I Lab		1		2	
27	EEE 232	Digital Logic Design	3		3		EEE 221
28	EEE 232L	Digital Logic Design Lab		1		2	
Total Credits in 2nd Year = 38			36	2	36	4	

Year - 3

SI No	Course Code	Course Title	Credits		Contact Hrs/Week		Pre-requisite
			T	L	T	L	
29	EEE 234	Electronics-II	3		3		EEE 221
30	EEE 234L	Electronics Lab		1		2	
31	EEE 236	Object Oriented Programming and Data Structures	3		3		CSC 121
32	EEE 317L	Operating System Lab		1		2	
33	ETE 311	Communication Engineering - I	3		3		EEE 231
34	ETE 311L	Comm. Engineering Lab.		1		2	
35	EEE 313	Electromagnetic Fields and Waves	3		3		MAT 213
36	EEE 314L	Numerical Technique Lab		1		2	MAT 213
37	EEE 315L	Electrical and Electronic Project Lab		1		2	EEE 221
38	EEE 325	Microprocessor and Embedded Systems	3		3		EEE 232
39	EEE 325L	Microprocessor and Embedded Systems Lab		1		2	

40	ETE 331	Computer Networks	3		3		ETE 311
41	ETE 331L	Computer Networks Lab		1		2	
42	EEE 326L	Sensors and IoT Lab		1		2	EEE 315L
43	EEE 333	Power System - I	3		3		EEE 233
44	EEE 333L	Power System - I Lab		1		2	
45	EEE 411	Control Systems	3		3		EEE 234
46	EEE 411L	Control Systems Lab		1		2	
Total Credits in 3rd Year = 34			24	10	24	20	

Year - 4

Sl No	Course Code	Course Title	Credits		Contact Hrs/Week		Pre-requisite
			T	L	T	L	
47	LFE 201	Live-in-Field Experience		3		6	Min. 100 credits
48	EEE 405	Seminar on Environmental Protection and Sustainability		0.5		1	Min. 100 credits
49	EEE 4xx	Elective-I	3		3		Min. 100 credits
50	EEE 4xx	Elective-I Lab		1		2	
51	EEE 4xx	Elective-II	3		3		Min. 100 credits
52	EEE 422	Ethics, Engineering Economics and Project Management	3		3		Min. 100 credits
53	EEE 415L	Artificial Intelligence and Machine Learning Lab		1		2	
54	EEE 496	Industry Attachment		1		2	Min. 100 credits
55	EEE 400A	Final Year Design Project-Part A		3		6	Min. 100 credits
56	EEE316L	Engineering Drawing and Electrical Services Design Lab		1		2	EEE 333
57	EEE 4xx	Elective-III	3		3		Min. 100 credits
58	EEE 4xx	Elective-IV	3		3		Min. 100 credits
59	EEE 421	Semiconductor Device and VLSI	3		3		EEE 234
60	EEE 400B	Final Year Design Project-Part B		3		6	EEE 400A
61	EEE 424	Seminar on Leadership and Entrepreneurship for Engineers		0.5		1	Min. 100 credits
Total Credits in 4th Year = 32			18	14	18	28	
Minimum Credits for Graduation in B.Sc. in EEE			Theory	Lab	Theory	Lab	
			111	29	111	58	
			Total = 140 Credits		Total = 169 Contact Hours		
BPH101**Bangladesh Political History (Mandatory)							
Elective(Cr. 13): Choose at least two (2) courses and one Lab from one group and remaining two courses from other group(s)							