

Bachelor of Science in Electrical and Electronic Engineering (BSEEE)

Department of Electrical and Computer Engineering

School of Engineering and Physical Sciences

North South University

Bashundhara, Dhaka-1229, Bangladesh

Total Credit Hours: 130

Semester/Year-wise breakdown of BSEEE courses

	Semester 1	Semester 2	Semester 3
1st Year	ENG 102 (3 cr.) MAT116 (0 cr.) CEE110 (1 cr.) EEE141+CL (4 cr.)	ENG 103 (3 cr.) MAT120 (3 cr.) MAT 125 (3 cr.) EEE241+CL (4 cr.)	ENG111 (3 cr.) MAT130 (3 cr.) PHY107+CL (4 cr.) CSE115+CL (4 cr.)
2nd Year	PHI104 (3 cr.) MAT250 (3 cr.) PHY108 +CL (4 cr.) EEE111+CL (4 cr.)	ENG115 (3 cr.) MAT350 (3 cr.) EEE211+IL (3 cr.) EEE311+CL (4 cr.)	HIS101 (3 cr.) MAT 361 (3 cr.) EEE299 (1 cr.)
3rd Year	HIS102 (3 cr.) CHE 101+CL (4 cr.) EEE221 (3 cr.) EEE361 (3 cr.)	POL101/104 (3 cr.) EEE342+CL (4 cr.) EEE363+CL (4 cr.)	ECO101/104 (3 cr.) BIO103+CL (4 cr.) EEE312+IL (3 cr.) EEE362+IL (3 cr.)
4th Year	SOC101/ ANT101/ENV 203 /GEO205 (3 cr.) EEE452 (3 cr.) EEE321+IL (3 cr.)	ELECT1 (3 cr.) ELECT2 (3 cr.) EEE499A (1.5 cr.)	ELECT3 (3 cr.) OPEN ELECT (3 cr.) EEE499B (1.5 cr.)

Semester-wise Subjective sequences of courses and Prerequisite list - BSEEE

SEM.	COURSE	Cr.	Cr./Sem.	PREREQUISITES
1 st	ENG102: Introduction to Composition	3	8	
	MAT116: Pre-Calculus	0		
	EEE141+CL: Electrical Circuits I	4		
	CEE110 (Engineering Drawing)	1		
2 nd	ENG 103: Intermediate Composition	3	13	ENG102/Waiver
	MAT120: Calculus I	3		MAT116
	MAT125: Linear Algebra	3		MAT116
	EEE241+CL: Electrical Circuits II	4		EEE141
3 rd	ENG111: Public Speaking	3	14	
	MAT130: Calculus II	3		MAT120
	PHY107+CL: Physics I	4		MAT120
	CSE115+CL: Programming Language I	4		MAT116
4 th	PHI104: Introduction to Ethics	3	14	
	MAT250: Calculus III	3		MAT130
	PHY108+CL: Physics II	4		MAT130 and PHY107
	EEE111+CL: Analog Electronics I	4		EEE141
5 th	ENG115: Literature	3	13	ENG103
	MAT350: Engineering Mathematics	3		MAT250
	EEE211+IL: Digital Logic Design	3		EEE111
	EEE311+CL: Analog Electronics II	4		EEE111
6 th	HIS101: Bangladesh Culture and Heritage	3	7	
	MAT 361: Probability and Statistics	3		MAT250
	EEE299: Junior Design	1		60 credits completed
7 th	HIS102: Introduction to World Civilization	3	13	
	CHE 101+CL: Chemistry I	4		
	EEE221: Signals and Systems	3		MAT350 and CSE115
	EEE361: Electromagnetic Fields and Waves	3		PHY108 and MAT350
8 th	POL101/POL104: Introduction to Political Science/ Governance	3	11	
	EEE342+CL: Control Engineering	4		EEE221 and MAT125
	EEE363+CL: Electrical Machines	4		EEE241 and EEE111
9 th	ECO101/ECO104: Introduction to Microeconomics/Macroeconomics	3	13	
	BIO103+CL: Biology I	4		
	EEE312+IL: Power Electronics	3		EEE311
	EEE362+IL: Power Systems	3		EEE363
10 th	SOC101/ANT101/ENV203(GEO205): Introduction to Sociology/ Anthropology/ Bangladesh Geography	3	9	
	EEE321+IL: Introduction to Communications Systems	3		EEE221, MAT361
	EEE452: Engineering Economics	3		
11 th	ELECT1	3	7.5	
	ELECT2	3		
	EEE499A: Senior Design I	1.5		100 credits completed
12 th	ELECT3	3	7.5	
	OPEN ELECT	3		
	EEE499B: Senior Design II	1.5		EEE499A

Recommended Sequence of Courses for BSEEE

Semester	Course			Credits	
1 st	CEE110	MAT116	EEE141+L	ENG102	8
2 nd	MAT125	MAT120	EEE241+L	ENG103	13
3 rd	CSE115+L	MAT130	PHY107+L	ENG111	14
4 th	EEE111+L	MAT250	PHY108+L	PHI104	14
5 th	EEE211+L	MAT350	EEE311+L	ENG115	13
6 th	EEE299 †	MAT361		HIS101	7
7 th	EEE221	CHE101+L	EEE361	HIS102	13
8 th	EEE342+L		EEE363+L	POL101/104	11
9 th	BIO103+L	EEE312+L	EEE362+L	ECO101/104	13
10 th	EEE452	EEE321	SOC101/ANT101/ ENV203/GEO205		9
11 th	EEE499A **	ELECT1	ELECT2		7.5
12 th	EEE499B	ELECT3	OPEN ELECT		7.5

† after completion of 60 credits

** after completion of 100 credits and all core courses

Total: 130