

B.Sc. in EEE Program Structure

1st Year 1st Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 1101	Electrical Circuits I	3.00
2	EEE 1102	Electrical Circuit Simulation Sessional	1.50
3	PHY 1103	Physics I/Electricity and Magnetism	3.00
4	PHY 1104	Physics Laboratory	1.50
5	MEE 1105	Mechanical Engineering Fundamentals	3.00
6	MAT 1106	Differential and Integral Calculus	3.00
7	CEE 1107	Engineering Drawing	1.50
8	ENG 1108	English for Technical Communication	3.00
Total			19.50

1st Year 2nd Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 1201	Electrical Circuits II	3.00
2	EEE 1202	Electrical Circuits II Sessional	1.50
3	PHY 1203	Physics/Optics, Modern Physics, Wave and Oscillation	3.00
4	PHY 1204	Physics Sessional	1.50
5	CSE 1205	Structured Programming Language	3.00
6	CSE 1206	Structured Programming Language Sessional	1.50
7	MAT 1207	Ordinary & Partial Differential Equations	3.00
8	ENG 1208	Developing English Skills Sessional	1.50
Total			18.00

2nd Year 1st Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 2101	Electronic Circuits I	3.00
2	EEE 2102	Electrical Machine I	3.00
3	CHE 2103	Chemistry	3.00
4	CHE 2104	Chemistry Sessional	1.50
5	MAT 2105	Linear Algebra and Complex Variable	3.00
6	MAT 2106	Coordinate Geometry and Vector Analysis	3.00
7	HUM 2107	History of Emergence of Independent Bangladesh	3.00
Total			19.50

2nd Year 2nd Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 2201	Electronic Circuits II	3.00
2	EEE 2202	Electronic Circuits II Sessional	1.50
3	EEE 2203	Electrical Machine II	3.00
4	EEE 2204	Electrical Machine II Sessional	1.50
5	EEE 2205	Signals and Linear System Analysis	3.00
6	EEE 2206	Electromagnetic Fields and Waves	3.00
7	STAT 2207	Statistics and Probability	3.00
8	HUM 2208	Engineering Professional Ethics	3.00
Total			21.00

3rd Year 1st Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 3101	Communication Theory I	3.00
2	EEE 3102	Communication Theory I Sessional	1.50
3	EEE 3103	Electrical Services Design	1.50
4	EEE 3104	Digital Electronics	3.00
5	EEE 3105	Digital Electronics Sessional	1.50
6	EEE 3106	Electrical Properties of Materials	3.00
7	MAT 3107	Numerical Analysis	3.00
8	ACT 3108	Financial and Managerial Accounting	3.00
Total			19.50

3rd Year 2nd Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 3201	Power System I	3.00
2	EEE 3202	Industrial and Power Electronics	3.00
3	EEE 3203	Industrial and Power Electronics Lab	1.50
4	EEE 3204	Microprocessors and Interfacing	3.00
5	EEE 3205	Microprocessors and Interfacing Lab	1.50
6	EEE 3206	Digital Signal Processing	3.00
7	EEE 3207	Digital Signal Processing Sessional	1.50
8	EEE 3208	Industrial and Operations Management	3.00
9	EEE 3209	Industrial Attachment	1.00
Total			20.50

4th Year 1st Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 4101	Project and Thesis	3.00
2	EEE 4102	Capstone Project	1.50
3	EEE 4103	Communication Theory II	3.00
4	EEE 4104	Power System II	3.00
5	EEE 4105	Power System II Sessional	1.50
6	EEE 4106	Control System I	3.00
7	EEE 4107	Control System I Sessional	1.50
8	EEE 4108	Solid State Devices	3.00
9	EEE 41**	Elective I	3.00
Total			22.50

4th Year 2nd Semester

Sl. No.	Course Code	Course Title	Credits
1	EEE 4201	Project and Thesis	3.0
2	EEE 4202	Switchgear and Protection	3.0
3	EEE 4203	Switchgear and Protection Sessional	1.5
4	EEE 42**	Elective II	3.0
5	EEE 42**	Elective II Sessional	1.5
6	EEE 42**	Elective III	3.0
7	EEE 42**	Elective IV	3.0
Total			18.0

Elective (Major) Courses for Specialization:

Communication Group

Sl. No.	Course Code	Course Title	Credit
1	EEE 4109	Digital Communication	3.0
2	EEE 4110	Mobile Cellular Communication	3.0
3	EEE 4204	Optical Fiber Communication	3.0
4	EEE 4205	Microwave Circuits and Devices	3.0
5	EEE 4206	Microwave Circuits and Devices Sessional	1.5
6	EEE 4207	Telecommunication Engineering	3.0
7	EEE 4208	Radio and Television Engineering	3.0
Total Credits			19.5

Electronics Group

Sl. No.	Course Code	Course Title	Credit
1	EEE 4109	Optoelectronics	3.0

2	EEE 4110	Semiconductor Device Theory	3.0
3	EEE 4204	Analog Integrated Circuits	3.0
4	EEE 4205	VLSI	3.0
5	EEE 4206	VLSI Sessional	1.5
6	EEE 4207	Semiconductor Technology	3.0
7	EEE 4208	Nanotechnology	3.0
Total Credits			19.5

Power Group

Sl. No.	Course Code	Course Title	Credit
1	EEE 4109	Power Plant Engineering	3.0
2	EEE 4204	Renewable Energy	3.0
3	EEE 4205	Power System Reliability	3.0
4	EEE 4206	High Voltage Engineering	3.0
5	EEE 4207	High Voltage Engineering Sessional	1.5
6	EEE 4208	Power System Operation and Control	3.0
Total Credits			16.5

Interdisciplinary Courses

Sl. No.	Course Code	Course Title	Credit
1	EEE 4220	Control System II	3.0
2	EEE 4221	Thin Film Engineering	3.0
3	EEE 4222	Biomedical Electronics	3.0
4	EEE 4223	Numerical Methods for Engineers	3.0
5	EEE 4224	Multimedia Communication	3.0
6	EEE 4225	Intelligent System	3.0
7	EEE 4226	Simulation and Modeling	3.0
Total Credits			21.0