



# NPI University of Bangladesh

## Department of Electrical and Electronic Engineering

### Courses for B. Sc. in EEE (For HSC Passed Student)

NPI University of Bangladesh offers the following courses for B.Sc. in EEE degree. Students have to complete 142 credits over 4 years (8 semesters).

1 <sup>st</sup> Year 1 <sup>st</sup> Semester			3 <sup>rd</sup> Year 1 <sup>st</sup> Semester		
Course Code	Course Name	Credit	Course Code	Course Name	Credit
EEE 101	Electrical Circuits I	3	EEE 301	Signals and Systems	3
EEE 102	Electrical Circuits I Lab	1	EEE 303	Electromagnetic Fields and Waves	3
ENG 101	Basic English	3	EEE 305	Communication Theory	3
MAT 101	Differential and Integral Calculus	3	EEE 306	Communication Lab	1
PHY 101	Physics I	3	EEE 307	Digital Signal Processing	3
PHY 102	Physics I Lab	1	EEE 308	Digital Signal Processing Lab	1
CHM 101	Chemistry	3	GEN 301	Industrial Management	3
CHM 102	Chemistry Lab	1	GEN 303	Bangladesh Studies	3
Total Credit		18	Total Credit		20
1 <sup>st</sup> Year 2 <sup>nd</sup> Semester			3 <sup>rd</sup> Year 2 <sup>nd</sup> Semester		
EEE 103	Electrical Circuits II	3	EEE 309	Digital Electronics	3
EEE 104	Electrical Circuits II Lab	1	EEE 310	Digital Electronics Lab	1
MAT 103	Differential Equations	3	EEE 311	Properties of Materials	3
PHY 103	Physics II	3	EEE 313	Control Systems	3
PHY 104	Physics II Lab	1	EEE 314	Control Systems Lab	1
CSE 101	Computer Programming	3	EEE 315	Power Systems	3
CSE 102	Computer Programming Lab	1	EEE 316	Power Systems Lab	1
ENG 103	Composition and Communication Skills	3	GEN 311	Sociology	3
Total Credit		18	Total Credit		18
2 <sup>nd</sup> Year 1 <sup>st</sup> Semester			4 <sup>th</sup> Year 1 <sup>st</sup> Semester		
EEE 201	Electronics I	3	EEE 400	Project and Thesis	2
EEE 202	Electronics I Lab	1	EEE 401	Measurement and Instrumentation	3
EEE 205	Electrical Machines I	3	EEE 402	Measurement & Instrumentation Lab	1
EEE 206	Electrical Machines I Lab	1	EEE 403	Microprocessor and Interfacing	3
MAT 105	Linear Algebra and Complex Variables	3	EEE 404	Microprocessor and Interfacing Lab	1
GEN 201	Fundamentals of Economics	3	EEE 405	Semiconductor Devices	3
MEC 201	Mechanical Engineering Fundamentals	3	EEE 425	Power Plant Engineering	3
Total Credit		17	Total Credit		16
2 <sup>nd</sup> Year 2 <sup>nd</sup> Semester			4 <sup>th</sup> Year 2 <sup>nd</sup> Semester		
EEE 203	Electronics II	3	EEE 400	Project and Thesis	2
EEE 204	Electronics II Lab	1	EEE 410	Electrical Services Design	1
EEE 207	Electrical Machines II	3	EEE 423	Power Electronics	3
EEE 208	Electrical Machines II Lab	1	EEE 424	Power Electronics Lab	1
EEE 210	Numerical Techniques lab	1	EEE 431	Power System Protection	3
MAT 201	Co-ordinate Geometry & Vector Analysis	3	EEE 432	Power System Protection Lab	1
MAT 203	Probability & Statistics	3	EEE 433	Renewable Energy	3
GEN 203	Financial & Managerial Accounting	3	EEE 435	Power Transmission & Distribution	3
Total Credit		18	Total Credit		17
<b>Total Credit Hours: 142</b>					