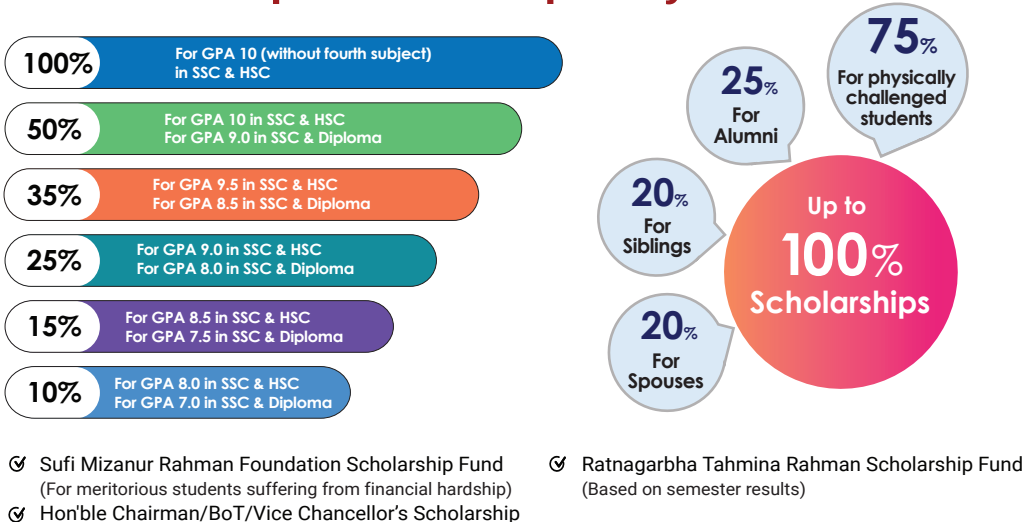


## Scholarship & Waiver policy



## Facilities

- Highly qualified faculty members from home and abroad.
- Multimedia based modern classroom for audiovisual education
- **Excellent lab facilities:** *Electrical circuit lab, Electronic circuit lab, Control system lab, Wireless communication lab, Power system lab, Power system protection lab, Electrical machine lab, Simulation lab.*
- Digital library and language center.
- Online smart campus.

## Scopes and Opportunities

- Visit to various power station around the country
- ElectroFest and project competition
- Annual picnic
- Periodic conference & seminars
- Technical training program and workshops
- Research, testing, consultancy etc.
- Student clubs
- Alumni association

## Further Program Initiatives under EEE Department

- Master in Electrical and Electronic Engineering



## Bachelor of Science in

# ELECTRICAL & ELECTRONIC ENGINEERING

## EEE

### Electrical & Electronic Engineering Program at UITS

Electrical Engineering is one of the fastest growing fields that involves study and application of electricity and electronics. It is the most interesting branch of engineering because it involves study of computer electrical, electronics and communication. Electrical engineering deals with generation, transmission and distribution of electricity. Subareas within the discipline range from the exploration of information and it's communication, through the physics of new materials and devices and the circuits made from them, to the algorithms that run on next generation computing platforms.

### Admission Eligibility

- According to the UGC rules applicants must have at least 2nd Division or GPA 2.5 in Both SSC and HSC. If there is any GPA 2.00 in SSC/HSC then the total GPA must have to be GPA 6.00.
- For O level & A level, at least for 5 subjects in O level and 2 subjects in A level, the applicants must have GPA 4.00 or B Grade in 4 subjects & GPA 3.5/C Grade on the other 3 subjects.
- For Freedom Fighters children the total GPA may be considered as 5.00 for each applicant.

### Curriculum Structure (For HSC/Equivalent passed students)

Curriculum Structure	Credits
General Education	10.5
Basic Science	13.5
Interdisciplinary Courses	4.0
Mathematics	17.0
Core Courses	87.0
Technical Elective Courses	20.0
<b>Total</b>	<b>: 152.0</b>

### Curriculum Structure (For Diploma/Equivalent passed students)

Curriculum Structure	Credits
General Education	9.0
Basic Science	6.0
Interdisciplinary Courses	4.0
Mathematics	17.0
Core Courses	80.0
Technical Elective Courses	20.0
(waived course 16 credits)	
<b>Total</b>	<b>: 136.0</b>

## University of Information Technology & Sciences

Permanent Campus: Holding 190, Road 5, Block J, Baridhara, Maddha Nayanagar, Vatara, Dhaka-1212  
 Phone: 09678 008487, Cell: +8801713-487709, +8801939-915209, +8801844-043870  
[www.uits.edu.bd](http://www.uits.edu.bd) [www.facebook.com/theuits](https://www.facebook.com/theuits)

ONLINE ADMISSION



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Govt. & UGC Approved

**UITS**  
 An initiative of PHP Family  
 University of Information Technology & Sciences  
*Future will be better than thy past*

## Total Cost

### Admission Fees (One time)

Application Form	500
Admission Fees	10,000
Student Welfare	200

### For Regular Student

Tuition Fees (per credit)	3,000
Total Tuition Fees (152 Credits)	4,56,000
<b>Total Program Cost</b>	<b>5,02,700</b>

### Other Fees (Per Semester): 4,500

Including Library Fees, Laboratory Fees, Transport Fees and Co-curriculum Fees.

### For Diploma Student

Tuition Fees (per credit)	3,000
Total Tuition Fees (136 Credits)	4,08,000
<b>Total Program Cost</b>	<b>4,54,700</b>

## Courses of Electrical & Electronic Engineering

Semester 1		Cr.
EEE 101	Electrical Circuits I	3.0
GED 101	The Four Skills of Communication in English	2.0
GED 102	Developing English Language Skills Lab	1.5
CSE 151	Computer Fundamentals and Web Technology	3.0
MAT 163	Differential and Integral Calculus	3.0
PHY 171	Waves, Optics and Thermodynamics	3.0
PHY 172	Waves, Optics and Thermodynamics Lab	1.5
		<b>17.0</b>

Semester 2		
EEE 102	Engineering Drawing	1.0
EEE 103	Electrical Circuits II	3.0
EEE 104	Electrical Circuits Lab	1.0
EEE 108	Circuit Simulation Lab	1.0
MAT 165	Ordinary and Partial Differential Equations	3.0
PHY 173	Electricity, Magnetism and Modern Physics	3.0
PHY 174	Electricity, Magnetism and Modern Physics Lab	1.5
STAT 263	Probability and Statistics	3.0
		<b>16.5</b>

Semester 3		
EEE 105	Electronic Circuits I	3.0
CHE 175	Engineering Chemistry	3.0
CHE 176	Engineering Chemistry Lab	1.5
EEE 205	Electrical Machines I	3.0
EEE 201	Digital Electronics	3.0
EEE 202	Digital Electronics Lab	1.0
MAT 261	Coordinate Geometry and Vector Analysis	3.0
GED 119	History of Emergence of Bangladesh	2.0
		<b>19.5</b>

Semester 4		
EEE 203	Electronic Circuits II	3.0
EEE 204	Electronic Circuits Lab	3.0
EEE 207	Electronic Measurement & Instrumentation	1.0
EEE 208	Electronic Measurement & Instrumentation Lab	1.0
EEE 209	Electrical Machines II	3.0
EEE 212	Electrical Machines Lab	1.0
CSE 251	Computer Programming	2.0
CSE 252	Computer Programming Lab	1.0

MAT265	Linear Algebra, Complex Variables, FA and LT	3.0
GED	General Education (GED 107/GED 109/GED 113)	2.0
		<b>20.0</b>

Semester 5		
MAT267	Numerical Methods and Analysis	2.0
EEE 291	Fundamental of Mechanical Engineering	3.0
EEE 301	Electromagnetic Fields and Waves	3.0
EEE 305	Signals & Systems	3.0
EEE 307	Solid State Devices	3.0
EEE 309	Communication Theory	3.0
EEE 312	Communication Theory Lab	1.0
EEE 317	Electrical Services Design and Drafting	1.0
		<b>19.0</b>

Semester 6		
EEE 253	Computer Networking and Data Communication	3.0
EEE 303	Power System I	3.0
EEE 313	Microprocessor and Microcontroller	3.0
EEE 314	Microprocessor and Microcontroller Lab	1.0
EEE 315	Digital Signal Processing	3.0
EEE 316	Digital Signal Processing Lab	1.0
EEE 401	Electrical Engineering Materials	3.0
EEE 403	Industrial and Power Electronics	3.0
EEE 404	Industrial and Power Electronics Lab	1.0
		<b>21.0</b>

Semester 7		
EEE 405	Control Systems	3.0
EEE 406	Control Systems Lab	1.0
EEE 409	Electrical Power Transmission & Distribution	3.0
EEE 467	Project Management & Finance	3.0
EEE 469	Engineer and Society	3.0
	Group I / II / III / IV	10.0
		<b>23.0</b>

Semester 8		
	Group I / II / III / IV	10.0
EEE 490	Thesis/Project/Internship	6.0
		16.0
	<b>Grand Total=</b>	<b>152.0</b>

General Education (Any 1 course)		
GED 107	Introduction to Sociology	2.0
GED 109	Ethics: Theory and Practice	2.0
GED 113	Financial and Managerial Accounting	2.0

Group I: Power		
EEE 407	Power System II	3
EEE 408	Power System Lab	1
EEE 411	Power Plant Engineering	3
EEE 413	Power System Protection	3
EEE 414	Power System Protection Lab	1
EEE 415	High Voltage Engineering	3
EEE 416	High Voltage Engineering Lab	1
EEE 461	Renewable Energy	3

Group II: Electronics		
EEE 417	Optoelectronics	3
EEE 421	Digital Integrated Circuits Design	3
EEE 422	Digital Integrated Circuits Design Lab	1
EEE 423	VLSI	3
EEE 424	VLSI Lab	1
EEE 425	Processing and Fabrication Technology	3
EEE 427	Digital Communication Electronics	3
EEE 445	Biomedical Instrumentation	3

Group III: Communication		
EEE 429	Wireless Communication	3
EEE 431	Optical Fiber Communication	3
EEE 432	Optical Fiber Communication Lab	1
EEE 433	Telecommunication Engineering	3
EEE 434	Telecommunication Engineering Lab	1
EEE 435	Microwave Engineering	3
EEE 437	Digital Communication	3
EEE 438	Digital Communication Lab	1
EEE 463	Satellite Communication	3
EEE 439	Information Theory and Coding	3

Group IV: Computer Science		
CSE 451	Software Engineering	3
CSE 452	Software Engineering Lab	1
CSE 453	Microprocessor System Design	3
CSE 454	Microprocessor System Design Lab	1
CSE 455	Real Time Computer System	3
CSE 457	Computer Networks	3
CSE 458	Computer Networks Lab	1
CSE 459	Multimedia Communications	3



Electrical Machine & Power Lab



Electronics Lab



Communication Lab Class



UITS Permanent Campus

