

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

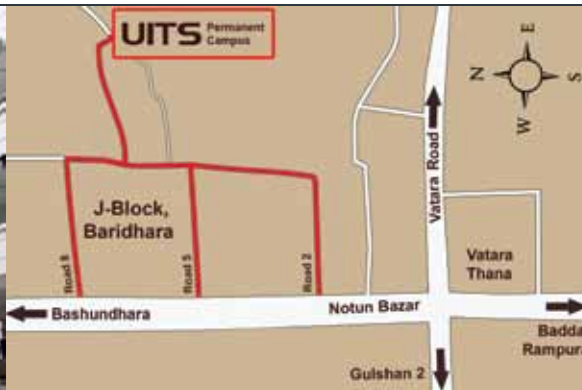
- According to the UGC rules applicants must have at least 2nd Division or GPA 2.5 in Both SSC and HSC. If there is any GPA 2.00 in SSC/HSC then the total GPA must have to be GPA 6.00.
- For O level & A level, at least for 5 Subjects in O level and 2 Subjects in A level, the applicants must have GPA 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
Total	: 152.0

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)	
Total	: 136.0



University of Information Technology & Sciences

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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

ELECTRICAL & ELECTRONIC ENGINEERING

Total Cost

The following table represents the expenditure for the program of B.Sc. in EEE in BDT .

Admission Fees for all Programs		Other Fees (Per Semester): 4,500	
Application Form	500	Including Library Fees, Laboratory Fees,	
Admission Fees	10,000	Transport Fees, and Student Activities Fees.	
Student Welfare (One time)	200		

Tuition Fees

For Regular Student		For Diploma Student	
Tuition Fees (per credit)	3,000	Tuition Fees (per credit)	3,000
Total Tuition Fees (152.0 Credits)	4,56,000	Total Tuition Fees (136.0 Credits)	4,08,000

Courses of Electrical & Electronic Engineering

Semester 1		Cr.			
EEE 101	Electrical Circuits I	3.0	MAT265	Linear Algebra, Complex Variables, FA and LT	3.0
GED 101	The Four Skills of Communication in English	2.0	GED	General Education (GED 107/GED 109/GED 113)	2.0
GED 102	Developing English Language Skills Lab	1.5			20.0
CSE 151	Computer Fundamentals and Web Technology	3.0	Semester 5		
MAT 163	Differential and Integral Calculus	3.0	MAT267	Numerical Methods and Analysis	2.0
PHY 171	Waves, Optics and Thermodynamics	3.0	EEE 291	Fundamental of Mechanical Engineering	3.0
PHY 172	Waves, Optics and Thermodynamics Lab	1.5	EEE 301	Electromagnetic Fields and Waves	3.0
		17.0	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
					19.0
Semester 2			Semester 6		
EEE 102	Engineering Drawing	1.0	EEE 253	Computer Networking and Data Communication	3.0
EEE 103	Electrical Circuits II	3.0	EEE 303	Power System I	3.0
EEE 104	Electrical Circuits Lab	1.0	EEE 313	Microprocessor and Microcontroller	3.0
EEE 108	Circuit Simulation Lab	1.0	EEE 314	Microprocessor and Microcontroller Lab	1.0
MAT 165	Ordinary and Partial Differential Equations	3.0	EEE 315	Digital Signal Processing	3.0
PHY 173	Electricity, Magnetism and Modern Physics	3.0	EEE 316	Digital Signal Processing Lab	1.0
PHY 174	Electricity, Magnetism and Modern Physics Lab	1.5	EEE 401	Electrical Engineering Materials	3.0
STAT 263	Probability and Statistics	3.0	EEE 403	Industrial and Power Electronics	3.0
		16.5	EEE 404	Industrial and Power Electronics Lab	1.0
					21.0
Semester 3			Semester 7		
EEE 105	Electronic Circuits I	3.0	EEE 405	Control Systems	3.0
CHE 175	Engineering Chemistry	3.0	EEE 406	Control Systems Lab	1.0
CHE 176	Engineering Chemistry Lab	1.5	EEE 409	Electrical Power Transmission & Distribution	3.0
EEE 205	Electrical Machines I	3.0	EEE 467	Project Management & Finance	3.0
EEE 201	Digital Electronics	3.0	EEE 469	Engineer and Society	3.0
EEE 202	Digital Electronics Lab	1.0		Group I / II / III / IV	10.0
MAT 261	Coordinate Geometry and Vector Analysis	3.0			23.0
GED 119	History of Emergence of Bangladesh	2.0	Semester 8		
		19.5		Group I / II / III / IV	10.0
			EEE 490	Thesis/Project/Internship	6.0
Semester 4					16.0
EEE 203	Electronic Circuits II	3.0			Grand Total= 152.0
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			

ELECTRICAL & ELECTRONIC ENGINEERING

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



Class Room