

Material for B.S. (Electronics Engineering Technology) Page on HU Website:

B.S. (Electronics Engineering Technology)

(North Nazimabad and Main Campuses, Evening / Weekend Shifts)

Introduction:

B.S. (Electronics Engineering Technology) – formerly known as B.Tech. (Electronics) is a four year degree program designed in accordance with Higher Education Commission (HEC) and National Technology Council (HEC) guidelines. The program offers students the chance to acquire the electronics testing, troubleshooting and repair skills needed to work as engineering technologists, applied engineers or technicians in different industries. The graduates with entrepreneurial capabilities can also launch their own startups to boost their career.

The Degree holders may work as

- Equipment Technicians
- Computer, Automated Teller and Office Machine Technicians / Supervisor
- Electronics Support Specialists
- Customer Service Engineers
- Engineering Technicians / Supervisor
- Field Service Technicians / Supervisor
- Manufacturing Technicians / Supervisor
- Test Engineers/Technologists

Eligibility Criteria:

1. DAE Electronics / Electrical or Equivalent OR HSC Pre-Engineering with at least 50% Marks – Other equivalent qualification
2. Clearance of Admission Test and Interview

Very Competitive and Affordable Fee Structure:

Admission Fee: Rs. 3,600 one time
Enrolment Fee: Rs. 2,000 one time
Security Deposit (Refundable): Rs. 5,000
Semester Contribution: Rs. 4,200 per semester
Exam Fee: Rs. 1,400 per semester
Semester Charges: Rs. 25,600 to Rs. 22,400 per semester

Program Duration: 4 Years, 8 semesters

Transport Facility: Theory Classes will be conducted at North Nazimabad Campus in evening whereas Labs will be conducted at main campus on weekends (transport from North Nazimabad campus to main campus is available)

Scholarships:

Scholarship opportunities on need cum merit basis for all students based on semester results; siblings discount also available.

Curriculum:**1st Semester**

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical	Theory	Practical
1	ELH111	Technical Communication Skills	(Humanities/ English)	2	0	2	0
2	ELH121	Islamic Studies	(Humanities)	1	0	1	0
3	ELS133	Applied Mathematics-I	(Natural Science)	3	0	3	0
4	ELS143	Applied Physics	(Natural Science)	3	2	3	1
5	ELT113	Introduction to Computers Technology	(Computing)	3	2	3	1
6	ELT121	Electronics Workshop Practice	(Engineering Foundation)	0	2	0	1
7	ELT133	Electrical Circuit Analysis	(Engineering Foundation)	3	2	3	1
Total				15	08	15	4
Grand Total				15 + 08 = 23		15+04 = 19	

2nd Semester

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical		
1	ELH 151	Technical Report Writing	(Humanities/ English)	1	0	1	0
2	ELS 163	Applied Mathematics -II	(Natural Science)	3	0	3	0
3	ELH 171	PAK Studies	(Humanities)	1	0	1	0
4	ELT 134	Electrical Technology - I	(Engineering Foundation)	3	2	3	1
5	ELT 144	Digital Logic Technology	(Engineering Foundation)	3	2	3	1
6	ELT 154	Electrical Machines	(Engineering Foundation)	3	2	3	1
7	ELT 161	PCB Design and Fabrication workshop	(Engineering Foundation)	0	2	0	1

Total		14	08	14	4
Grand Total		14 + 08 = 22		14 + 04 = 18	

3rd Semester

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical		
1	ELT214	Electrical Technology – II	(Engineering Foundation)	3	2	3	1
2	ELT 224	Electronic Devices & Technology	(Engineering Foundation)	3	2	3	1
3	ELS 213	Computer Programming	(Computing)	2	2	2	1
4	ELT 233	Microprocessors	(Major based Breadth)	2	2	2	1
5	ELT 244	Instrumentation & Measurement	(Major based Breadth)	3	2	3	1
Total				13	10	13	5
Grand Total				13 + 10 = 23		13 + 5 = 18	

4th Semester

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical		
1	ELT254	Communication Systems and Techniques	(Major based Breadth)	3	2	3	1
2	ELT264	Control Technology	(Engineer ing Breadth)	3	2	3	1
3	ELT272	Electromagnetic Field Theory	(Major based Breadth)	2	0	2	0
4	ELT283	Amplifier & Oscillators	(Major based Breadth)	2	2	2	1
5	ELT294	Power Electronics	(Major based Breadth)	3	2	3	1
Total				13	08	13	4
Grand Total				13 + 08 = 21		13 + 4 = 17	

5th Semester

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical		
1	ELT314	Industrial Drives	(Major based Depth)	3	2	3	1
2	ELT324	VLSI Technology	(Major based Depth)	3	2	3	1
3	ELT334	Applied Antenna & wave Propagation	(Major based Depth)	3	2	3	1
4	ELT344	Industrial Electronics Applications	(Major based Breadth)	3	2	3	1
5	ELH 312	Professional Ethics	(Huma nities)	2	0	2	0
Total				14	08	14	04
Grand Total				12 + 08 = 22		14+ 04 = 18	

6th Semester

S N	Course Code	Subject	Nature	Weekly Contact Hours		Credit Hours	
				Theory	Practical		
1	ELT354	Industrial Automation and Robotics	(Major based Depth)	3	2	3	1
2	ELT364	FPGA Based Systems	(Major based Depth)	3	2	3	1
3	ELT374	Communication Networks	(Major based Breadth)	3	2	3	1
4	ELT384	Renewable Energy Technology	(Major based Breadth)	3	2	3	1
5	ELH31 2	Industrial Management	(Manag ement Science s)	2	0	2	0
Total				14	08	14	4
Grand Total				14+ 08 = 22		14 + 4 = 18	

7th Semester

S N	Course Code	Subject	Weekly Contact Hours		Credit Hours	
			Theory	Practical	Theory	Practical
1	EL472	Supervised Industrial Training	0	32	0	16
Total			00	32	0	16
Grand Total			00+ 32 = 32		00 + 16 = 16	

8th Semester

S N	Course Code	Subject	Weekly Contact Hours		Credit Hours	
			Theory	Practical	Theory	Practical
1	EL482	Supervised Industrial Training	0	32	0	16
Total			00	32	0	16
Grand Total			00+ 32 = 32		00 + 16 = 16	