



# NHU

## SCHEME OF STUDIES BSc. ELECTRICAL ENGINEERING TECHNOLOGY

### 1<sup>st</sup> Semester

S N	Code #	Subject	Nature	T	P	Credit Hours
1.	ES-113	Applied Mathematics-I	(Natural Science/Math)	3	0	3
2.	ES-123	Applied Physics	(Natural Science/Physics)	2	1	3
3.	ET-114	Linear Circuits Analysis	(Breadth)	2	2	4
4.	EH-131	Islamiat	(Humanities)	1	0	1
5.	ET-123	Engineering Drawing	(Engg Foundation)	1	2	3
6.	ET-133	Computer Applications	(Computing)	1	2	3
				10	7	17
		Credit Hours		10	14	24

### 2<sup>nd</sup> Semester

S.N	Code #	Subject	Nature	T	P	Credit Hours
1.	ES-143	Applied Chemistry	(Natural Science/Chemistry)	2	1	3
2.	EH-151	Pak-Studies	(Humanities)	1	0	1
3.	ET-144	Electronics	( Breadth)	2	2	4
4.	MT-153	Basic Mechanical Technology	(Engg Foundation)	2	1	3
5.	ET-162	Power Generation Systems	(Engg Foundation)	2	0	2
6.	ET-174	DC Machines &Transformers	(Breadth)	2	2	4
				11	6	17
		Credit Hours		11	12	23



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## 3<sup>rd</sup> Semester

S N	Code N	Subject	Nature	T	P	Credit Hours
1.	ES-213	Applied Mathematics-II	(Natural Science/Math)	3	0	3
2.	EH-222	Communication Skills	(Humanities/English)	2	0	2
3.	ET-214	Electrical Instruments and Measurements	(Breadth)	2	2	4
4.	ET-224	AC Circuits Analysis	(Depth)	2	2	4
5.	ET-234	Digital Electronics	(Breadth)	2	2	4
				11	6	17
		Credit Hours		11	12	23

## 4<sup>th</sup> Semester

S N	Code No.	Subject	Nature	T	P	Credit Hours
1.	ET-244	AC Machines	Depth	2	2	4
2.	ET-252	Electro-Magnetic Fields	Depth	2	0	2
3.	ET-263	Electrical Power Transmission	Depth	2	1	3
4.	ET-273	Electrical Power Distribution and Utilization	Depth	2	1	3
5.	ET-284	Power Electronics	Depth	2	2	4
				10	6	16
		Credit Hours		10	12	22

## 5<sup>th</sup> Semester

S N	Code No.	Subject	Nature	T	P	Credit Hours
1.	ET-313	Micro-Processor Theory and Interfacing	Depth	2	1	3
2.	ET-323	Switch Gear & Protective Devices	Depth	2	1	3
3.	ET-334	Communication Technology	Depth	2	2	4
4.	ET-343	Control Technology	Depth	2	1	3
5.	EH-312	Total Quality Management	(Humanities)	2	0	2
				10	5	15
		Credit Hours		10	10	20



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## 6th Semester

S N	Code #	Subject	Nature	T	P	Credit Hours
1.	ET-353	Power System Analysis	Depth	3	0	3
2.	ET-364	Data & Computer Communication	Depth	2	2	4
3.	ET-373	High Voltage Technology	Depth	2	1	3
4.	ET-383	Industrial Drives and PLC	Depth	2	2	4
5.	EH-322	Technical Report Writing	(Humanities/English)	2	0	2
				11	5	16
		Credit Hours		11	10	21

## 7th Semester

S N	Code No.	Duration	Subject	T	P	Credit Hours
	ET 482	16 weeks	Supervised Industrial Training (Continued)	0	15	15
2.	ET 413		Project (Continued)	0	3	3
				0	18	18
			Credit Hours	0	36	36

## 8th Semester

S N	Code No.	Duration	Subject	T	P	Credit Hours
1.	ET 482	16 Weeks	Supervised Industrial Training	0	15	15
2.	ET 413		Project	0	3	3
				0	18	18
			Credit Hours	0	36	36

First digit in course code represents Year, while second digit represents serial number of course (Separate for Technical/Non-technical) offered in a particular year and third digit represents credit hours of the course except project & training