

Scheme of Studies with Cods

1st Year, BS Electronics

Semester-I (19 Cr. Hrs.)			
Course Code	Course Title	Cr. Hrs.	Subject Category
NS-3XX	Course from Natural Sciences	3 (2+1)	General-1
FE-312	Functional English	3 (3+0)	General-2
QR-313	Introduction to Mathematics	3 (3+0)	General-3
ICT-314	Application of Information and Communication Technologies	3 (2+1)	General-4
MAT-315	Calculus and Analytical Geometry	3 (3+0)	Allied-1
ELE-301	Circuit Theory-1	4 (3+1)	Major-1
Semester-II (18 Cr. Hrs.)			
ICP-321	Ideology and Constitution of Pakistan	2 (2+0)	General-5
AH-3XX	Course from Arts and Humanities	2 (2+0)	General-6
ISL-323	Islamic Studies	2 (2+0)	General-7
PS-324	Pakistan Studies	2 (2+0)	General-8
MAT-325	Differential Equations	3 (3+0)	Allied-2
ELE-311	Solid State Electronics	3 (3+0)	Major-2
ELE-312	Circuit Theory-II	4 (3+1)	Major-3

2nd Year, BS Electronics

Semester-III (19 Cr. Hrs.)			
Course Code	Course Title	Cr. Hrs.	Subject Category
SS-4XX	Course from Social Science	2 (2+0)	General-9
EN-432	Entrepreneurship	2 (2+0)	General-10
EW-433	Expository Writing	3 (3+0)	General-11
CCE-434	Civics and Community Engagement	2 (2+0)	General-12
CP-435	Computer Programming	3 (2+1)	Allied-3
MAT-436	Complex Variable and Transforms	3 (3+0)	Allied-4
ELE-401	Basic Electronics	4 (3+1)	Major-4
Semester-IV (18 Cr. Hrs.)			

QR-441	Introduction to Statistics	3 (3+0)	General-12
ELE-411	Electromagnetic Field Theory	3 (3+0)	Major-5
ELE-412	Digital Logic Design	4 (3+1)	Major-6
ELE-413	Signal and Systems	4 (3+1)	Major-7
ELE-414	Electronic Circuit Design	4 (3+1)	Major-8

3rd Year, BS Electronics

Semester-V (15 Cr. Hrs.)			
Course Code	Course Title	Cr. Hrs.	Subject Category
ELE-501	Integrated Circuits	3 (3+0)	Major-9
ELE-502	Microprocessor System Design	4 (3+1)	Major-10
ELE-503	Communication Systems	4 (3+1)	Major-11
ELE-504	Linear Control Systems	4 (3+1)	Major-12
Semester-VI (16 Cr. Hrs.)			
ELE-511	Embedded System Design	4 (3+1)	Major-13
ELE-512	Digital Signal Processing	4 (3+1)	Major-14
ELE-513	Power Electronics	4 (3+1)	Major-15
ELE-514	Instrumentation and Measurements	4 (3+1)	Major-16

4th Year, BS Electronics

Semester-VII (17/19 Cr. Hrs)			
Course Code	Course Title	Cr. Hrs.	Subject Category
ELE-601	Microwave Communication	3 (3+1)	Major-17
ELE-602	Data Communication and Networks	4 (3+1)	Major-18
ELE-6XX	Elective – I	3/4 (3+0/1)	Major-19
ELE-6XX	Elective – II	3/4 (3+0/1)	Major-20
ELE-603	Field experience/Internship	3 (3+0)	Project-1
Semester-VIII (13/15 Cr. Hrs.)			
ELE-611	Industrial Electronics	4 (3+1)	Major-21
ELE-6XX	Elective – III	3/4 (3+0/1)	Major-22
ELE-6XX	Elective – IV	3/4 (3+0/1)	Major-23
ELE-612	Capstone Project	3 (3+0)	Project-2