

BSc Electrical Engineering - Scheme of Studies

Semester-I		Cr. Hrs	
Code	Course Title	Th	L
HU100	Functional English	2	0
MA100	Calculus and Analytical Geometry	3	0
EE102	Linear Circuit Analysis	3	1
EE100	Workshop Practice	0	1
CS140	Introduction to Computing	3	1
EE101	Engineering Drawing	0	1
NS100	Applied Physics	2	1
Total		18	

Semester-II		Cr. Hrs	
Code	Course Title	Th	L
HU101	Communication Skills	2	0
MA101	Differential Equations	3	0
CS141	Programming Fundamentals	3	1
EE111	Electronic Devices and Circuits	3	1
HU104	Islamic Studies	2	0
ME201	Basic Mechanical Engineering	3	0
Total		18	

Semester-III		Cr. Hrs	
Code	Course Title	Th	L
CS242	Data Structures and Algorithms	3	1
MA202	Linear Algebra	3	0
EE203	Electrical Network Analysis	3	1
EE250	Digital Logic Design	3	1
ME200	Applied Thermodynamics	3	0
Total		18	

Semester-IV		Cr. Hrs	
Code	Course Title	Th	L
MA203	Multivariable Calculus	3	0
EE220	Signals and Systems	3	1
EE251	Introduction to Embedded Systems	3	1
EE260	Electrical Machines	3	1
HU105	Pakistan Studies	2	0
Total		17	

Semester-V		Cr. Hrs	
Code	Course Title	Th	L
EE361	Instrumentation and Measurements	3	1
EE304	Probability Methods in Engineering	3	0
EE370	Linear Control Systems	3	1
MA304	Numerical Analysis	3	0
SS303	Organizational Behavior	3	0
Total		17	

Semester-VI		Cr. Hrs	
Code	Course Title	Th	L
EE321	Communication Systems	3	1
EE362	Electrical Power Distribution & Util.	3	1
HU302	Technical Report Writing	3	0
EE330	Electromagnetic Field Theory	3	0
MG301	Engineering Economics	3	0
Total		17	

Semester-VII		Cr. Hrs	
Code	Course Title	Th	L
EE464	Power System Analysis	3	1
EE413	Power Electronics	3	1
EE469	Power Generation	3	0
SS402	Entrepreneurship	3	0
EE490	Senior Design Project Phase-I	0	3
Total		17	

Semester-VIII		Cr. Hrs	
Code	Course Title	Th	L
EE467	Power System Protection	3	1
EE481	Power Transmission	3	1
MG402	Engineering Project Management	3	0
EE490	Senior Design Project Phase-II	0	3
Total		14	

Total Credit Hours : 136

1 Cr. Hr. of theory (Th) = 1 contact Hour per week

1 Cr. Hr. of lab (L) = 3 contact Hours per week

