



Qurtuba University Of Science & IT, D.I.Khan

Department of Electrical Engineering

Scheme of Studies BSc. Electrical Engineering – (For Session Fall-18 to Onwards)

Semester I					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QNS-111	Calculus and Analytic Geometry	3	0	3	-----
QNS-112	Electricity and Magnetism (Physics)	3	3	4	-----
QEE-113	Engineering Drawing	0	3	1	-----
QBH-114	Functional English	3	0	3	-----
QEE-115	Introduction to Computing	2	3	3	-----
QBH-116	Pakistan Studies	2	0	2	-----
Total Contact Hours		13	9	-	
Total Credit Hours		13	3	16	

Semester 2					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QNS-121	Linear Algebra	3	0	3	-----
QEE-122	Programming Fundamentals	2	3	3	QEE-115
QBH-123	Islamic Studies	2	0	2	-----
QNS-124	Engineering Mechanics	3	3	4	-----
QEE-125	Linear Circuit Analysis	3	3	4	-----
QBH-126	Sociology & Development	2	0	2	-----
Total Contact Hours		15	9	-	
Total Credit Hours		15	3	18	

Semester 3					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QNS-231	Differential Equations	3	0	3	-----
QEE-232	Digital Logic Design	3	3	4	-----
QEE-233	Electrical Network Analysis	3	3	4	QEE-125
QEE-234	Data Structures & Algorithms	3	3	4	QEE-122
QEE-235	Workshop Practice	0	3	1	-----
Total Contact Hours		12	12	-	
Total Credit Hours		12	4	16	

Semester 4					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QEE-241	Probability Methods in Engineering	3	0	3	QNS-111
QMS-242	Engineering Economics	2	0	2	-----
QEE-243	Electromagnetic Field Theory	3	0	3	-----
QNS-244	Complex Variables and Transforms	3	0	3	-----
QEE-245	Electronic Devices & Circuits	3	3	4	-----
QBH-246	Communication Skills	2	0	2	-----
Total Contact Hours		16	3	-	
Total Credit Hours		16	1	17	

Semester 5					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QEE-351	Instrumentation and Measurements	3	3	4	-----
QEE-352	Microprocessor Based System Design	3	3	4	QEE-232
QEE-353	Electrical Machines	3	3	4	QEE-233
QEE-354	Signal & Systems	3	3	4	QNS-244
QNS-355	Numerical Analysis	3	0	3	-----
Total Contact Hours		15	12	-	
Total Credit Hours		15	4	19	

Semester 6					Prerequisite
Code	Course	Contact hours		Credit hours	
		Theory	Pract	Total	
QEE-361	Digital Signal Processing	3	3	4	QEE-354
QEE-362	Electronic Circuit Design	3	3	4	QEE-245
QIE-363	Data Communication	3	3	4	-----
QMS-364	Engineering Management	2	0	2	-----
QEE-365	Communication System	3	3	4	QEE-354
Total Contact Hours		14	12	-	
Total Credit Hours		14	4	18	

Semester 7					
Code	Course	Contact hours		Credit hours	Prerequisite
		Theory	Pract	Total	
QEE-471	Computer Communication Networks	3	3	4	-----
QBH-472	Technical Writing & Presentation Skills	3	0	3	-----
QEE-473	Power Generation Transmission & Distribution	3	3	4	QEE-233
QEE-474	Power Electronics	3	3	4	QEE-245
QEE-475	Electrical Engineering Project	0	9	3	-----
Total Contact Hours		12	18	-	
Total Credit Hours		12	6	18	

Semester 8					
Code	Course	Contact hours		Credit hours	Prerequisite
		Theory	Pract	Total	
QEE-481	Linear Control System	3	3	4	QEE-354
QEE-482	Power System Analysis & Protection	3	3	4	QEE-233
QEE-483	Digital Communication *	3	3	4	QEE-365
QEE-475	Electrical Engineering Project	0	9	3	-----
Total Contact Hours		9	18	-	
Total Credit Hours		9	6	15	

Total Credit Hours	137
---------------------------	------------

*Elective may be changed