

Bachelor of Science in Electrical Engineering in Telecommunication

Semester	Course Code		Course Title	Pre/Co Requisite	Credit Hours
Semester 1	LNG	181	English I for Engineering & Computing	None	3
	ENG	101	Digital Logic	None	4
	MTH	112	Calculus I	Pass Math Placement Test or MTH-012	3
	SHS	103	Chemistry	None	3
	SWS	110	Programming I	None	3
	ENT	141	Fundamentals in Innovation and Entrepreneurship 1	None	2
	Total				18
Semester 2	LNG	182	English II for Engineering & Computing	LNG-181	3
	SCI	220	Engineering Mechanics	MTH-112	3
	MTH	113	Calculus II	MTH-112	3
	NET	110	Computer Networks Fundamentals	ENG-101	3
	SWS	316	Programming II	SWS-110	3
	ENT	142	Fundamentals in Innovation and Entrepreneurship 2	ENT-141	1
	Total				16
Semester 3	MTH	212	Calculus III	MTH-113	3
	MTH	130	Probability and Statistics	MTH-112	3
	SCI	210	Modern Physics	<u>MTH 113</u> , SCI-220	3
	ENG	221	Electric Circuit	<u>SCI-210</u>	4
	ENT	241	Entrepreneurship I	ENT-142	2
	Total				15

Semester	Course Code		Course Title	Pre/Co Requisite	Credit Hours
Semester 4	MTH	220	Ordinary Differential Equations	MTH-212	3
	ENG	310	Electronics I	ENG-221	3
	ENG	222	Engineering Electromagnetics	MTH-212, SCI-210	3
	ENG	223	Electric Circuit II	ENG-221	3
	ENG	210	Computer Architecture	ENG-101	4
	ENT	242	Entrepreneurship II	ENT-241	1
	Total				17
Semester 5	ENG	301	Electronics II	ENG-310	3
	GED	198	Islamic Culture	None	3
	COM	310	Coding and Information Theory	MTH-130	3
	COM	311	Signals and Systems	MTH-220	3
	BUS	311	Engineering Economy	MTH-130	3
			Humanity Elective		3
	Total				18
Semester 6	BUS	310	Project Management	Completion of 60 Credit Hrs	3
	ENG	314	Electric Machines	ENG-223	3
	ENG	315	Control Systems	MTH-220	3
	COM	320	Telecommunications	<u>ENG-301</u> , COM-310, COM-311	3
	COM	322	Applied Electromagnetics	ENG-222	3
	COM	411	Digital Filter Design	MTH 220	3
	Total				18
Semester 7	ENG	421	Professional and Ethical Practice	None	3
	COM	413	Communication Systems	COM-320, <u>COM-322</u>	3

Semester	Course Code		Course Title	Pre/Co Requisite	Credit Hours
	COM	412	Digital Communications	COM-320, <u>COM-322</u>	3
	COM	420	Optical Communications	COM-320, <u>COM-322</u>	3
	ENG	400	Graduation Project-1	Completed 100 Cr.H	2
	NET	120	LAN Switching and Routing	NET-110	3
	Total				17
Semester 8	NET	424	Broadband Communications	NET-110	3
	ENG	401	Graduation Project-2	ENG-400	2
	COM	321	Advanced Programming in Telecom	NET-120	3
			Major elective 1		3
			Major elective 2		3
	GED	199	UAE Society	None	3
	Total				17
Internship to be taken summer semester after completion of 90 Cr.H + CGPA 2.0 or more					2
Total Credit Hours					138