DEPARTMENT OF ELECTRICAL ENGINEERING

Study Plan:

Bachelor of Science in Electrical Engineering

FIRST YEAR (32 credit hours)					
Term	Course #	Course Title	Credit Hours		
Fall	MATH 101	Calculus I	3		
	ARAB 100	Arabic Language I	3		
	GENG 107	Engineering Skills and Ethics	3		
	ENGL 202	English Language I Post Foundation	3		
	CHEM 101	General Chemistry I	3		
	CHEM 103	Experimental General Chemistry I	1		
Total Cr	16				
Spring	MATH 102	Calculus II	3		
	PHYS 191	General Physics for Engineering I	3		
	PHYS 192	Experimental General Physics for Engineering I	1		
	GENG 106	Computer Programming	3		
	MATH 231	Linear Algebra	3		
	ENGL 203	English Language II Post Foundation	3		
Total Cr	16				

SECOND YEAR (33 credit hours)					
Term	Course #	Course Title	Credit Hours		
Fall	MATH 211	Calculus III	3		
	PHYS 193	General Physics for Engineering II	3		
	PHYS 194	Experimental General Physics for Engineering II	1		
	MATH 285	Mathematics for Electrical Engineering	3		
	ELEC 201	Electric Circuits	3		
	DAWA 111	Islamic Culture	3		
Total Cı	16				
Spring	GENG 200	Probability and Statistics for Engineers	3		
	GENG 300	Numerical Methods	3		
	ELEC 202	Electric Circuits II	3		
	ELEC 203	Electric Circuits II Laboratory	1		
	ELEC 231	Fundamentals of Electronics	3		
	ELEC 261	Digital Systems Design	3		
	ELEC 262	Digital Systems Design Lab	1		
Total C	17				

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THIRD YEAR (36 credit hours)					
Term	Course #	Course Title	Credit Hours		
Fall	ELEC 311	Electromagnetics	3		
	ELEC 312	Electric Machines	3		
	ELEC 313	Electric Machines Lab	1		
	ELEC 371	Sensors and Instrumentation	3		
	ELEC 351	Signals & Systems	3		
	ELEC 366	Embedded Systems	3		
	ELEC 367	Embedded Systems Lab	1		
Total Cred	17				
Spring	ELEC 341	Communication Engineering	3		
	ELEC 342	Communication Engineering Lab	1		
	ELEC 352	Control Systems	3		
	ELEC 321	Power Systems Analysis	3		
	ELEC 325	Power Electronics	3		
	ELEC 353	Signal Analysis & Filtering	3		
Total Cred	16				
Summer	ELEC 399	Practical Training	3		
Total Cred	3				

FOURTH YEAR (30 credit hours)					
Term	Course #	Course Title	Credit		
Fall	ELEC 4XX	Major Elective I	3		
	ELEC 4XX	Major Elective II	3		
	GENG 360	Engineering Economics	3		
	ELEC 498 OR GENG 498	Senior Design Project I OR Multidisciplinary Senior I	3		
	ELEC 428	Electrical Engineering Design	3		
Total Cr	15				
Spring	ELEC 4XX	Major Elective III	3		
	ELEC 4XX	Major Elective IV	3		
	ELEC 499 OR GENG 499	Senior Design Project II OR Multidisciplinary Senior Design II	3		
		Core Curriculum Elective*	3		
		Core Curriculum Elective *	3		
Total Cr	15				

^{*} Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities /Fine Arts package.