



Guidance plan for the Communication and Software Engineering specialization

First Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
AAL 101	Applied Arabic	3	AEL 102	Applied English Language (2)	3
AEL 101	Applied English	3	3020110	General Physics (2)	3
30201101	General Physics (1)	3	BSE	Programming for Engineers	3
CS 101	Computer skills and E-learning	1	30202102	Calculus (2)	3
30202101	Calculus (1)	3	3020111	General Physics lab. (1)	1
30206101	General Chemistry (1)	3	3020610	General Chemistry lab (1)	1
BSE 0102	Engineering workshop	1			
Total		17	Total		14

Second Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0211	Electrical circuits (1)	3	ELE 0212	Electrical circuits (2)	3
ELE 0213	Digital logic design	3	ELE 0214	Electrical circuits lab.	1
ELE 0205	Linear algebra	3	ELE 0216	Electronics (1)	3
30202203	Ordinary differential Equations (1)	3	ELE 0228	Microprocessor systems	3
ELE 5251	Object oriented programming	3	ELE 3272	Data structure	3
	University Elective 1	3	ELE 5216	Digital logic design lab.	1
			IEC 101	Innovation, Entrepreneurship, and Creativity	2
			BSE 0205	Engineering drawing	2
Total		18	Total		18



Third Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0321	Systems and signals	3	ELE 0322	Communication and data transmission	3
ELE 0313	Electronics lab. (1)	1	ELE 0334	Control systems	3
ELE 0335	Electrical Machines 1	3	BSE 0306	Numerical Methods	3
BSE 0202	Statistics and Probabilities for Engineers	3	ELE 0328	Microprocessor systems lab.	1
ELE 4311	Electronics (2)	3	ELE 3314	General Electromagnetics	3
ELE 5361	Computer Architecture and Organization	3	ELE 4312	Electronics lab. (2)	1
			ELE 5362	Operating systems	3
Total		16	Total		17

Fourth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 5354	Data Base Systems	3	ELE 0442	Field Training	3
ELE 0431	Control systems lab.	1	ELE 4462	Digital communications lab	1
ELE 3427	Communication and data transmission lab.	1	ELE 6464	Computer networks lab.	1
ELE 4461	Digital communications	3	ELE 6466	Network protocols	3
ELE 4467	Digital signal processing	3	BSE 0203	Technical writing and professional ethics	3
ELE 5453	Artificial Intelligence and machine learning	3		Specialization Elective 1	3
ELE 6461	Fundamentals of Computer Networks	3	BSE 0401	Engineering Economy	3
Total		17	Total		17



Fifth Year					
First Semester			Second Semester		
Course No.	Course Title	Cr.H	Course No.	Course Title	Cr.H
ELE 0541	Graduation project 1	1	ELE 0542	Graduation project 2	3
ELE 3551	Communication transmission systems and Optical communication	3	ELE 6572	Encryption and Network Security Systems	3
ELE 4567	Communication circuits	3		Specialization Elective 2	3
NE 101	National Education and University Behavior	3		Specialization Elective 3	3
35001101	Military sciences	3			
	University Elective 2	3			
Total		16	Total		12