

CURRICULUM

The typical study program for B.Sc. students in the Department of Electrical Engineering is distributed over 8 semesters as follows:

FIRST YEAR (Freshman)

FIRST ' SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 101	Calculus 1	4	4	0		PHYS 101
PHYS 101	General Physics 1	4	3	3		MATH 101
ENGL 100	English Language	2	2	0		
CHEM 101	General Chemistry 1	4	4	3		
IC 111	Islamic Culture	2	2	0		
PE 101	Physical Education 1	1	2	0		
TOTAL (CREDIT)		17				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 102	Calculus 2	4	4	0	MATH 101	PHYS 102
PHYS 102	General Physics 2	4	3	3	PHYS 101	MATH 102
ICS 103	Computer Programming in C	3	2	3	MATH 101	
ENGL 102	English Composition 2	3	3	0	ENGL 100 or ENGL 101	
ARB 100	Arabic Language Skills	2	2	0		
PE 102	Physical Education 2	1	0	2	PE 101	
TOTAL (CREDIT)		17				



SECOND YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 201	Calculus III	3	3	0	MATH 102	
EE 200	Digital Logic Circuits Design	4	3	3	MATH 102 PHYS 102	
EE 201	Electric Circuits I	4	3	3	MATH 102 PHYS 102	
EE 204	Electric & Magnetic Fields	4	3	3	MATH 102 PHYS 102	
ENGL 214	Technical Report Writing	3	3	0	ENGL 102	
TOTAL (CREDIT)		18				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 202	Elements of Diff. Equations	3	3	0	MATH 201	
EE 203	Electronics I	4	3	3	EE 201 EE 200	
EE 205	Circuits and Systems	3	3	0	EE 201 Math 201	
EE 206	Electric Energy Eng.	4	3	3	EE 201 EE 204	
EE 207	Signal Analysis	3	3	0	EE 201 Math 201	
EDUC 115	Work Values and Ethics	2	2	0		
TOTAL (CREDIT)		19				



THIRD YEAR

FIRST ' SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
EE 303	Electronics II	4	3	3	EE 203	
EE 390	Digital Systems Eng.	4	3	3	EE 200 ICS 103	
ISE 307	Eng. Economics (Elective)	3	3	0		
CRCL 115	University Life Skills	3	3	0		
MATH 302	Engineering Mathematics	3	3	0	MATH 202	
ETEC 115	Computer and Information	2	2	0		
TOTAL (CREDIT)		19				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
EE 315	Probabilistic Methods in EE.	3	3	0	EE 207	
EE 330	Power Systems Analysis I	3	3	0	EE 206	
EE 370	Communication Eng.	4	3	3	EE 207 EE203	
EE 380	Control Systems	4	3	3	EE 207	
EDUC 125	Entrepreneurship	2	2	0		
TOTAL (CREDIT)		16				



SUMMER TRAINING

CODE	COURSE TITLE	CRED
EE 350	Cooperative Work	0
TOTAL (CREDIT)		

FOURTH YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
EE 351	Cooperative Work	9	0	0	ENGL 214	
TOTAL (CREDIT)		9				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
EE 411	Senior Design Project	3	1	6	EE351	
ICS 252	Technical Elective	3	3	0		
EE 4xx	Elective 1	4	3	3		
EE 4xx	Elective 2	3	3	0		
EE 4xx	Elective 3	3	3	0		
TOTAL (CREDIT)		16				

