

Study Plan of the Program of Electrical Engineering
(Study Plan 1438)

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030116	English (1)	3	18	
11010101	Islamic Culture (1) (Islamic morality)	2	2	
32000200	Introduction to Engineering	2	2	
32000300	Calculus (1)	3	3	
31022210	General Chemistry	4	5	
32040222	Engineering Drawing (1)	2	4	
11010113	Voluntary Service (1)			
First Year: Second Term				
11030216	English (2)	3	18	English (1)
31031201	General Physics (1)	4	5	-
32000303	Calculus (2)	3	3	Calculus (1)
11020107	Quran	2	2	-
11010111	Islamic Culture (2) (Islamic civilization)	2	2	-
32030231	Architectural drawing	1	2	-
11010123	Voluntary Service (2)			
Second Year: First Term				
32050301	Fundamentals of Electrical Engineering	3	4	General Physics (1)
32021201	Computer Programming	3	4	-
32000202	Engineering Math. (1)	3	3	Calculus (2)
32000100	Special English language	2	2	English (2)
32000206	Engineering Economics	2	2	-
11020204	Healthy culture	1	1	-
32000102	Fundamental of Engineering Workshop	1	2	
Second Year: Second Term				
32000301	Engineering Math. (2)	3	3	Calculus (2)
32021202	Computer Programming (2)	3	4	Computer programming

32050401	Electric Circuits Analysis (1)	3	4	Fundamentals of Electrical Engineering
32000204	Engineering Statistics	3	3	Calculus (2)
32000404	Engineering Management	2	2	Engineering Economy
32000101	Research and article writing skills	2	2	-
Third Year: First Term				
32000302	Engineering Math.(3)	3	3	Engineering Math.(1)
32050509	Electric Circuits Analysis (2)	4	5	Electric Circuits Analysis (1)
32052303	Electromagnetic (1)	3	3	General physics (1) + Engineering Math. (1)
32052305	Logic Circuits	4	5	-
32011202	Statics	3	3	
Third Year: Second Term				
32051302	Elec. and Electro. Measurements	3	4	Electric Circuits Analysis(1)
32052304	Electromagnetic (2)	3	3	Electromagnetic (1)
32052308	Electronic Devices	3	4	Electric Circuits Analysis (1)
32051307	Material Science	2	2	-
32041301	Thermodynamics (1)	3	3	General physics (1)
32051308	Linear Systems and Signals	3	3	Engineering Math. (2)
32000400	Summer Training (1)	2	-	-
Fourth Year: First Term				
32051401	Electrical Machines (1)	4	5	Electromagnetic (1)
32052403	Electronic Circuits	4	5	Electronic Devices
32052405	Communication Theory	4	5	Elec Circuits Analysis + Linear Sys. and Signals
32051409	Introduction to Power Eng.	3	3	Electric Circuits Analysis (2)

Fourth Year: Second Term				
32051402	Control System	4	5	Linear Systems and Signals
32051505	Electrical Seminars	2	2	-
32051406	Power Systems Analysis	4	5	Introduction to Power Eng.
32052408	Communication Systems	3	4	Communication Theory
32041409	Numerical Analysis	3	3	Engineering Math. (2) + Computer Prog. (2)
32000500	Summer Training (2)	2	-	Summer training (1)
Fifth Year: First Term				
32050501	Digital Control Systems	4	5	Control System
32050504	Advanced Electrical Lab.	1		
32051507	Graduation Project-Part (1)	1	1	Passing 123 credit hours
32051513	Renewable Energy	3	3	Electronic Circuits
-	Elective Course (1)	3	3	
-	Elective Course (2)	3	3	
Fifth Year: Second Term				
32050502	Digital Electronics	4	5	Electronic Circuits
32051504	Graduation Project-Part (2)	3	3	Graduation project-part (1)
32051404	Microprocessors	3	4	Logic Circuits
-	Elective Course (3)	3	3	
-	Elective Course (4)	3	3	
Electives				
Elective Courses for Power Engineering Projects				
32051516	Protective Relaying	3	4	Power Systems Analysis
32051519	Power Electronics	3	4	Electronic Devices
32051511	Electrical Machines (2)	3	4	Electrical Machines (1)
32052516	Tran. and Dist. of Elec Energy	3	4	Electromagnetic (1) +

				Power Systems Analysis
32051506	High Voltage Engineering	3	3	Electrical Machines (1) + Power Systems Analysis
32051510	Electrical Drives	3	4	Electrical Machines (2) + Power Electronics
32051514	Power Sys Oper and Control	3	3	Power Systems Analysis
32051501	Artificial Intelligence	3	4	-
Elective Courses for Communication Engineering Projects				
32052507	Statistical Communications	3	3	Communication Systems
32052509	Mobile Communications	3	4	Communication Systems
32051515	Integrated Circuits	3	4	Electronic Circuits
32052513	Digital Signal Processing	3	4	Linear Systems and Signals
32052517	Digital Communication	3	4	Logic Circuits + Electronic Circuits
32052518	Data Communications	3	4	Communication Systems
32052510	Antennas and Propagation	3	3	Electromagnetic (2)
32052514	Microwave Engineering	3	4	Electromagnetic (2)
32052512	Optical Communication	3	4	Communication Systems
32052406	Computer Networks	3	4	-