2023 ELEE BE Study Plan

Year 1-1st Semester	Year 1-2nd Semester	Year 2-1st Semester	Year 2-2nd Semester	Year 3-1st Semester	Year 3-2nd Semester	Year 4-1st Semester	Year 4-2nd Semester
ARAB 101 Basic Academic Arabic	ARAB 201 Advanced Academic Arabic [Pre- (ARAB 101)]	ELEE 210 Electric Circuits I [Pre- (ARAB 101)]	ELEE 240 Electronics [Pre- (ELEE 210)]	ELEE 290 Digital Systems [Pre- (ELEE 220+ELEE 230)]	MATH 202 Differential Equations [Pre- (MATH 102)]	MATH 215 Linear Algebra and Numerical Techniques [Pre- (MATH 202)]	ELEE 462 Power Electronics [Pre- (ELEE 340)]
ENGL 100 General English	CIVE 205 Engineering Drawing	ELEE 220 Logic Design [Pre- (CSC 101)]	ELEE 230 Programming for Engineers [Pre- (CSC 101)]	MATH 201 Calculus and Analytic Geometry III [Pre- (MATH 102)]	STAT 230 Probability and Statistics [Pre- (MATH 102)]	ELEE 350 Signals and Systems [Pre- (ELEE 210+MATH 202)]	ELEE 380 Control Systems [Pre- (ELEE 350+STAT 230)]
IT 100 Information Technology	CSC 101 Introduction to Computing for Engineers [Pre- (IT 100)]	CHEM 101 General Chemistry	ELEE 250 Electric Circuits II [Pre- (ELEE 210)]	ELEE 340 Electronic Circuits [Pre- (ELEE 240)]	ELEE 461 Fundamentals of Power Systems Analysis [Pre- (ELEE 250)]	ELEE 371 Principles of Data Comm. & Networking [Pre- (STAT 230)]	ELEE XXX Specialization Elective
MATH 100 Mathematics I	ENGL 101 Basic Academic English I [Pre- (ENGL 100)]	ENGL 102 Basic Academic English II [Pre- (ENGL 101)]	ENGL 203 Advanced Academic English I [Pre- (ENGL 102)]	ENGL 206 Technical Writing [Pre- (ENGL 102)]	ELEE 290L Digital Systems Lab [Pre- (ELEE 290)]	COEN 300 Engineering Economy [Pre-Co (STAT 230)]	ELEE 470 Comm. Systems [Pre- (ELEE 350+STAT 230)]
SOCS 101 Islamic Civilization I	STAT 100 Introduction to Probability and Statistics [Pre- (MATH 100)]	MATH 101 Calculus I [Pre- (STAT 100)]	MATH 102 Calculus II [Pre- (MATH 101)]	ELEE 360 Electric Machines [Pre- (ELEE 250)]	ELEE 340L Electronics Lab [Pre- (ELEE 240)]	ELEE 460L Machines Lab [Pre- (ELEE 360)]	COEN 401 Communication Skills and Ethics [Pre- (ENGL 203)]
PHYS 101 General Physics I	PHYS 102 General Physics II [Pre- (PHYS 101)]	PHYS 103L Physics Lab [Pre-Co (PHYS 102)]	CHEM 101L General Chemistry Lab [Pre-Co (CHEM 101)]	ELEE 250L Electrical Circuit Lab [Pre- (ELEE 250)]	MECH 225 Engineering Mechanics [Pre- (PHYS 101)]	ELEE 469 Power System Protection [Pre- (ELEE 461)]	ELEE 399L MATLAB for Engineers [Pre- (ELEE 230)]
	PHE 101 Physical and Health Education						ELEE 440L Electronic Circuits Lab [Pre- (ELEE 340)]

Year 4-Summer Semester

ELEE 400
Summer Internship for Electrical Students
[Pre- (ENGL 206+Completion of 108 credits)]

Year 5-1st Semester		Year 5-2nd Semester	
ELEE XXX Specialization Elective	ELEE 390 Electromagnetic [Pre- (ELEE350)]	ELEE XXX Specialization Elective	ELEE 499 Final Year Project II [Pre- (ELEE 498)]
ELEE 451 Digital Signal Processing [Pre- (ELEE 250)]	ELEE 498 Final Year Project I [Pre- (ENGL 206+Completion of 108 ch)]	ELEE 476 Digital Communications [Pre- (ELEE 470)]	XXXX XXX Free Elective
ELEE 470L Communications Lab [Pre- (ELEE 470)]	ELEE 480L Control Lab [Pre- (ELEE 380)]	ELEE 490 Electromagnetic Waves and Transmission [Pre- (ELEE 390)]	
ELEE 485 Instrumentation [Pre- (ELEE 380)]			

Elective (A total of 9 credit hours from the below list):

ELEE 403 Special Topics in electrical Engineering
ELEE 422 Computer Architecture
ELEE 423 Embedded System Design
ELEE 431 Computer Networks
ELEE 442 Digital Integrated Circuits
ELEE 443 RF & Microwave Circuits for Communications
ELEE 463 Electric Drives
ELEE 465 Power System Planning
ELEE 468 Renewable Energy Systems
ELEE 471 Wireless Communications
ELEE 474 RF and Microwave Communication Systems
ELEE 491 Antenna Theory and Design

XXX
One credit hour

XXX
3 credit hours

Pre:
Prerequisite

Pre-Co:
Pre-/Co-requisites