

Degree and Study Plan

College	Engineering
Department	Electrical Engineering and Computer Science
Program	Electrical Engineering
Degree Level	Bachelor of Technology
Total Credit Hours	127
Cohort	2019 and after

Summary of Credits	
University Requirements (UR)	12
College Requirements (CR)	21
Program Requirements (PR)	85
Program Electives (PE)	9
Total	127

For more information contact: Dr. Adnan Kabbani, HoD.

HoD:



Dean:



Date: 30/09/2024

Year One	Semester 1 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	ENGR111	Computer Applications	3	-	CR
	ISLM101	Islamic Civilization	3	-	UR
	PHYS111	Applied Physics	3	-	CR
	ENGL101	English Communication Skills 1	3	-	UR
	MATH101	Calculus I	3	-	CR
	Total Credits		15		
	Semester 2 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	EETE1021	Digital Systems	4	MATH101	PR
	EETE1022	Circuits Theory I	4	MATH101	PR
	MATH102	Calculus 2	3	MATH101	CR
	CHEM111	Applied Chemistry	3	-	CR
	ENGL102	English Communication Skills II	3	ENGL101	UR
	Total Credits		17		

Year Two	Semester 3 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	ENGR201	Engineering Drawing	3	-	CR
	EETE2011	Fundamentals of Electronics	4	EETE1022	PR
	EETE2012	Circuits Theory II	4	EETE1022	PR
	EETE2021	Renewable Energy	4	EETE1022	PR
	Total Credits		15		
	Semester 4 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	EETE315	Complex Variables and Applications	3	MATH102	PR
	EETE2022	Measurement and Instrumentation	4	EETE2012	PR
	EETE2023	Electrical Machines I	4	EETE2012	PR
	EETE2024	Power Systems I	4	EETE2012	PR
	Total Credits		15		

Year Three	Semester 5 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	EETE3011	Power Systems II	4	EETE2024	PR
	EETE3012	Electrical Machines II	4	EETE2023	PR
	EETE4011	Power Electronics	4	EETE2011	PR
	ECEN341	Signals and Systems	3	MATH102	PR
	EETE314	Electromagnetic Fields	3	MATH102 & EETE1022	PR
	Total Credits		18		
	Semester 6 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	MATH204	Probability and Statistics	3	MATH102	CR
	EETE413	Microprocessor and Microcontrollers	3	EETE1021 & ENGR111	PR
	ENGR331	Applied Engineering Mathematics	3	MATH102	PR
	EETE415	Power System Protection	3	EETE2024	PR
	EETE3021	Control Systems	4	ECEN341	PR
	Total Credits		16		
	Summer				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	ENGR322	Summer Internship	0	85 credits	CR

Year Four	Semester 7 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	EETE411	High Voltage Engineering	3	EETE2024	PR
		Electrical Engineering Technology Elective	3	-	PE
	EETE412	Capstone Design Project I	3	85CH	PR
	MNGT313	Entrepreneurship	3	60CH	UR
	EETE4012	Introduction to Communication Systems	4	ECEN341	PR
	Total Credits		16		
	Semester 8 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	EETE421	Industrial Instrumentation	3	EETE3021	PR
		Electrical Engineering Technology Elective	3	-	PE
		Electrical Engineering Technology Elective	3	-	PE
	EETE422	Capstone Design Project II	3	EETE412	PR
	EETE423	Power System Operation and Control	3	EETE3011 & EETE3021	PR
	Total Credits		15		

List of Program Elective Courses:

A student must register in 3 courses with total of 9 credits hours following the program study plan:			
Course Code	Course Title	Credits	Pre-Request/ Co-Request*
EETE416	Electric Distribution	3	EETE2012 & EETE2024
EETE418	Mechatronics	3	EETE3021 & EETE2011
EETE419	Automated Control Systems	3	EETE3021
ECEN541	Digital Signal Processing	3	ECEN341
EETE424	Distributed Generation	3	EETE2024 & EETE3021
EETE425	Distributed Control Systems	3	EETE3021
EETE426	Microelectronic Systems	3	EETE2011
EETE427	Neural Networks & Fuzzy Logic	3	ENGR331
EETE428	Utilization of Electrical Energy	3	EETE2024
EETE429	Smart Grid	3	EETE2024
EETE511	Electrical Power Systems Quality	3	EETE2024
EETE512	Power Systems Control and Stability	3	EETE3011
EETE514	Power Systems Reliability and Planning	3	EETE2024
EETE515	Optimization Techniques in Engineering	3	ENGR331
EETE516	Digital Control Systems	3	EETE3021
ENGR404	Engineering Economics	3	-
ECEN515	Communication Networks	3	EETE4012
ECEN543	Wireless Communications	3	EETE4012
OJTR406	Industrial Internship I	0	85 credits
OJTR407	Industrial Internship II	0	OJTR406