CERTIFICATE IN WIRELESS COMMUNICATIONS ENGINEERING

For communications engineers who want a focused program providing state-of-the-art instruction in the growing field of wireless communications, this program offers fundamental coursework in traditional telecommunications system design as well as computer communication networks.

Curriculum

Code	Title	Credit Hours
Required Courses		**(6)**
Select a minimum of 2 courses from the following:		6
ECE 406	Wireless Communications Systems	3
or ECE 504	Wireless Communication System Design	
ECE 503	5G Wireless Network: Architecture, New Radio, and Security	3
ECE 510	Internet of Things and Cyber Physical Systems	3
Elective Courses		**(6-7)**
Select a minimum of two courses from the following:		6-7
ECE 403	Digital and Data Communication Systems	3-4
or ECE 405	Digital and Data Communication Systems with Laboratory	
ECE 406	Wireless Communications Systems	3
or ECE 504	Wireless Communication System Design	
ECE 408	Introduction to Computer Networks	3
ECE 501	Artificial Intelligence and Edge Computing	3
ECE 503	5G Wireless Network: Architecture, New Radio, and Security	3
ECE 510	Internet of Things and Cyber Physical Systems	3
ECE 511	Analysis of Random Signals	3
ECE 513	Communication Engineering Fundamentals	3
ECE 514	Digital Communication Principles	3
ECE 515	Modern Digital Communications	3
ECE 516	Coding for Distributed Storage Systems	3
ECE 517	Modern Wireless Network Protocols and Standards	3
ECE 519	Coding for Reliable Communications	3
ECE 520	Information Theory and Applications	3
ECE 530	High Performance VLSI IC Systems	3
ECE 543	Computer Network Security	3
ECE 544	Wireless and Mobile Networks	3
ECE 545	Modern Internet Technologies	3
ECE 546	Wireless Network Security	3
ECE 547		3
ECE 576	Antenna Theory	3
Total Credit Hours		**12-13**