

# the Internet of Things MS

## Program Requirements

IoT Technical Elective courses	12.0
ECEE 517 Microwave Networks & Transmission Media	
ECEE 518 Microwave Passive Components	
ECEE 519 Microwave Active Subsystems	
ECEP 601 Modeling & Analysis of Power Distribution Systems	
ECEP 602 Power Distribution Automation and Control	
ECEP 603 Service and Power Quality in Distribution Systems	
ECEP 610 Power System Dynamics	
ECEP 611 Power System Security	
ECEP 612 Economic Operation of Power Systems	
ECEC 531 Principles of Computer Networking	
ECEC 623 Advanced Topics in Computer Architecture	
ECEC 661 Digital Systems Design	
ECET 511 Physical Foundations of Telecommunications Networks	
ECET 512 Wireless Systems	
ECET 602 Information Theory and Coding	
ECET 604 Internet Laboratory	
ECE 610 Machine Learning & Artificial Intelligence	
ECE 612 Applied Machine Learning Engineering	
ECE 613 Neuromorphic Computing	
ECE 630 Software Defined Radio Laboratory	
ECE 687 Pattern Recognition	
ECE Technical Elective courses *	21.0
General Electrical and Computer Engineering Courses **	12.0
<b>Total Credits</b>	<b>45.0</b>

\* 500-level or higher courses from ECEE, ECEP, ECEC, ECES, ECET, and ECE.

\*\* 500-level or higher courses from ECEC, ECEE, ECEP, ECES, ECET, ECE, AE, CHE, CIVE, CAEE, CMGT, EGEO, EGMT, ENGR, ENVE, ET, MATE, MEM, PENG, PRMT, SYSE, BMES, MATH, PHYS, CHEM, BIO, and CS.

## Sample Plan of Study

First Year				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
IoT	3.0 IoT	3.0 IoT	6.0 Vacation	
Technical Elective	Technical Elective	Technical Elective		
ECE	6.0 ECE	6.0 ECE	3.0	
Technical Elective	Technical Elective	Technical Elective		
	9	9	9	0
Second Year				
Fall	Credits Winter	Credits		
ECE	3.0 ECE	3.0		
Technical Elective	Technical Elective			
General Technical Elective	6.0 General Technical Elective	6.0		
	9	9		
<b>Total Credits</b>	<b>45</b>			

First Year (Part-Time)				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
IoT	3.0 IoT	3.0 IoT	3.0 Vacation	
Technical Elective	Technical Elective	Technical Elective		
ECE	3.0 ECE	3.0 ECE	3.0	
Technical Elective	Technical Elective	Technical Elective		
	6	6	6	0
Second Year (Part-Time)				
Fall	Credits Winter	Credits Spring	Credits Summer	Credits
IoT	3.0 ECE	3.0 ECE	3.0 Vacation	
Technical Elective	Technical Elective	Technical Elective		
ECE	3.0 General	3.0 General	3.0	
Technical Elective	Technical Elective	Technical Elective		
	6	6	6	0
Third Year (Part-Time)				
Fall	Credits Winter	Credits		
ECE	3.0 General	3.0		
Technical Elective	Technical Elective			
General Technical Elective	3.0			
	6	3		
<b>Total Credits</b>	<b>45</b>			