

National Central University Department of Communication Engineering
Course for graduate school

First Semester

Second Semester

Implementation of wireless communication system courses

Software-Defined Radio	Circuits and Systems for Broadband Communications
	Digital Communication Circuit Design Lab
	Radio Frequency Integrated Circuit

Advanced Digital Systems Design with FPGAs	Wireless Communication ICs
	Multimedia Communication IP Design

CE Courses
 CE Courses not open in 2018-2019
 EE Elective Courses
 CSIE Elective Courses

Wireless Communication and Signal Processing courses

Mobile Telecommunication
Coding Theory
Optimization Theory for Communications
Digital Communication

Random Processes
MIMO Wireless Communications
Adaptive Signal Processing for Communications

Multimedia Signaling and AI courses

Data Science	Data Compression	Natural Language Processing
Digital Signal Processing	Machine Learning	
Digital image processing	Neural Networks	
	3D Computer Graphics	

Signal Compression	Computer Vision	Neural Systems and its Application
Machine Learning algorithm	Advanced Audio Signal Processing	
	Introduction to Deep Learning	
	Deep Learning Computer Vision	

Communication Network Field courses

Queuing Theory	Internet of Things (IoT)
Distributed Networks	Wireless Communications and Networks
Internet of Things Technology	
Wireless Protocol Technology	
Computer Communication Networks	

Wireless Communication Networks	Semantic Web services engineering
Communication Network Analysis	Protocols and Applications for Wireless Sensor Networks
Mobile Data Dissemination Technology	

microwave circuit field courses

Microwave Circuits
Microwave transmission line circuits
Microwave and Millimeter-wave Frequency Synthesizers

Microwave Circuit Laboratory
Microwave Filter Design