◎無線科技 Wireless and Microwave Techniques

領域名稱 Program	核心課程 Core Courses	大學部領域相關專業選修課程 Related Undergraduate Elective Courses	研究所相關課程 Related Graduate Courses
無線科技 Wireless and Microwave Techniques	天線導論 Introduction to Antennas 微波工程導論 Foundations for Microwave Engineering 數位訊號處理導論 Introduction to Digital Signal Processing 通訊原理(一) Principle of Communication Engineering (I)	複變函數 Complex Variables 數值分析 Numerical Analysis 無線通訊之電波傳播與天線 Radio Propagation and Antennas for Wireless Communications 固態電子學 Solid State Electronics 通訊電子學 Communication Electronics 人工智慧導論：機器人 Introduction to Artificial Intelligence 類比積體電路導論 Introduction to Analog Integrated Circuits 半導體元件物理 Semiconductor Device Physics 電磁波 Electromagnetic Wave 超大型積體電路導論 Introduction to VLSI Circuits 相關實驗課程Related Laboratory Courses: 射頻電路原理與實驗 Principle and Lab of RF Circuit	類比積體電路設計 Integrated Circuit Design 天線理論 Antenna Theory 物理數學 Mathematical Methods of Physics 微波工程(一)(二) Microwave Engineering(I)(II) 高等電磁學(一)(二) Advanced Electromagnetics(I)(II) 手機行動通訊系統 Mobile Phone Communication System 射頻積體電路設計 Radio Frequency Integrated Circuits Design 電磁共容 Electromagnetic Compatibility 射頻積體電路實驗 Radio Frequency Integrated Circuits Lab 微波電路設計與製造 Microwave Circuit Design Laboratory 微波量測原理 Theory of Microwave Measurement 微波主動元件 Active Microwave Circuit 電波傳播與散射 Wave Propagation and Scattering 電腦輔助電路設計與分析 Computer–Aided Circuit Design and Analysis 數值半導體元件模式 Numerical Semiconductor Device Modeling 最佳化理論與應用 Optimization Theory and Application VLSI 導線效應之模型與最佳化 Modeling and Optimization of VLSI Interconnnects 元件設計與模擬實驗 Device Design and Simulation Lab