

Course Content

Course Title (English)	Microwave Filter Design	
Course Title (Chinese)	微波濾波器設計	
Credit	3	
Instructor	Prof. Tzong-Ling Wu, 吳宗霖 教授	
Outline	Week	Class Content
	1	Introduction
	2	Network Analysis
	3	Basic Concepts and Theories of Filters
	4	Basic Concepts and Theories of Filters
	5	Transmission Lines and Components
	6	Transmission Lines and Components
	7	Spring Vacation
	8	Lowpass and Bandpass Filters
	9	Lowpass and Bandpass Filters
	10	Lowpass and Bandpass Filters
	11	Highpass and Bandstop Filters
	14	Highpass and Bandstop Filters
	13	Mid-term Report
	Week	Class Content
	14	Coupled Resonator Circuits
15	Coupled Resonator Circuits	

	16	Coupled Resonator Circuits	
	17	Final Report	
	18	Final Report	
Course Objective	<p>1. To introduce the foundation of microwave filters design.</p> <p>2. To introduce the theories and the implementations of various types of microwave filters.</p> <p>3. Through paper study and report, the course will help students to understand the state-of-the-art technologies in filter design.</p> <p>4. Through the team work, a microwave filter design/realization term project will be conducted to enhance the understanding of the filter theory and application.</p>		
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese		