

## Course Content

Course Title (English)	Theory of Microwave Circuits and Devices
Course Title (Chinese)	微波電路
Credit	3
Instructor	Prof. Hsin-Chia Lu 盧信嘉 教授
Outline	Transmission line theory, (Ch. 2.1, 2.3-2.7) Transmission lines and waveguides, (Ch. 3.1, 3.5, 3.7, 3.8, 3.11) Microwave network analysis, (Ch. 4.1-4.6) Impedance matching and tuning, (Ch. 5.1-5.9) Microwave resonators, (Ch. 6.1, 6.2, 6.5, 6.6) Power dividers and directional couplers, (Ch. 7.1-7.3, 7.5-7.9) Microwave filters, (Ch. 8.3-8.8) Noise and Non-linear Distortion, (Ch. 10.1-10.4) Active RF and Microwave Devices (11.1~11.5) Microwave amplifier design, (Ch. 12.1-12.5) Oscillators and mixers, (Ch. 13.1-13.5) Introduction to microwave systems, (Ch. 14.1-14.6)
Goal	Introduction of basic passive and passive microwave circuits
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese