

Course Content

Course Title (English)	Microwave Circuit Laboratory
Course Title (Chinese)	微波電路專題實驗
Credit	2
Instructor	Prof. Hsin-Chia Lu 盧信嘉 教授
Outline	<p>This course includes 7 microwave labs based on microstrip lines. In each lab, student needs to design, simulate, fabricate then measure their own circuit to understand the basic principle in each circuit. The 7 labs are:</p> <p>Exp 1: microstrip transmission lines</p> <p>Exp 2: Low pass filter,</p> <p>Exp 3: Impedance matching,</p> <p>Exp 4: Bandpass filter,</p> <p>Exp 5: 90° and 180° coupler</p> <p>Exp 6: Linear amplifier</p> <p>Exp 7: Patch antenna</p>
Goal	To train student to understand the design and process flow of microwave circuit. Students need to use circuit and EM simulator to design microwave circuits based on microstrip line. Fabrication and measurement are also done in house, finally the correlation of measurement and simulation is also required.
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input type="checkbox"/> English <input checked="" type="checkbox"/> Chinese