

## Course Content

Course Title (English)	Applied Electromagnetics
Course Title (Chinese)	應用電磁學
Credit	3
Instructor	Prof. Jean-Fu Kiang 江簡富 教授
Outline	<p>1 Introduction 簡介</p> <p>2 Electromagnetic Theories 電磁理論</p> <p>3 Transmission lines and waveguides 傳輸線與波導</p> <p>4 Circuit theories of waveguides 波導相關之電路理論</p> <p>5 Impedance transformation and matching 阻抗轉換與匹配</p> <p>6 Passive microwave devices 被動微波元件</p> <p>7 Electromagnetic resonators 電磁共振器</p> <p>8 Periodic structures and filters 週期結構及濾波器</p> <p>9 Microwave tubes 微波管</p> <p>10 Solid-state amplifiers 固態放大器</p> <p>11 Parametric amplifiers 參數放大器</p> <p>12 Oscillators and mixers 振盪器及混波器</p>
Goal	Get familiar with electromagnetic theories and applications of microwave engineering 熟悉微波工程相關之電磁理論及應用.
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese