

Course Content

Course Title (English)	Special Topics on Electromagnetic Theory
Course Title (Chinese)	電磁特論
Credit	3
Instructor	Prof. Jean-Fu Kiang 江簡富 教授
Outline	CH.3: WAVES IN INHOMOGENEOUS AND LAYERED MEDIA CH.4: WAVEGUIDES AND CAVITIES CH.5: GREEN'S FUNCTIONS CH.6: RADIATION FROM APERTURES AND BEAM WAVES CH.7: PERIODIC STRUCTURES AND COUPLED-MODE THEORY CH.8: DISPERSION AND ANISOTROPIC MEDIA CH.10: SCATTERING OF WAVES BY CONDUCTING AND DIELECTRIC OBJECTS CH.11: WAVES IN CYLINDRICAL STRUCTURES, SPHERES, AND WEDGES CH.12: SCATTERING BY COMPLEX OBJECTS CH.14: PLANAR LAYERS, STRIP LINES, PATCHES, AND APERTURES CH.15: RADIATION FROM A DIPOLE ON THE CONDUCTING EARTH CH.16: INVERSE SCATTERING
Goal	Review the fundamental theories and mathematical formulations in canonical electromagnetic topics that form the foundations of modern applications.
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese

