

## Course Content

Course Title (English)	Adaptive Signal Processing
Course Title (Chinese)	可適性信號處理
Credit	3
Instructor	Prof. Chun-Lin Liu 劉俊麟 教授
Outline	<p>可適性信號處理 (Adaptive Signal Processing) 是針對研究所學生所開設的理論課程。內容包含「可適性信號處理」以及相關技術在「陣列信號處理」的應用，課程主題如下：</p> <ol style="list-style-type: none"><li>1. Wiener filter</li><li>2. Linear prediction</li><li>3. Least-mean-square adaptive filters</li><li>4. Basics of array signal processing</li><li>5. Beamforming</li><li>6. MUSIC and ESPRIT algorithms</li><li>7. Kalman filters</li></ol>
Goal	<ol style="list-style-type: none"><li>1. Design and analysis of adaptive signal processing algorithms.</li><li>2. Implementation of adaptive signal processing algorithms using MATLAB.</li></ol>
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese