

## Course Content

Course Title (English)	Multirate Signal Processing, filter Bank and Wavelet
Course Title (Chinese)	多速率信號處理
Credit	3
Instructor	Prof. See-May Phoong 馮世邁 教授
Outline	<ol style="list-style-type: none"><li>1. Basics of digital communications</li><li>2. FIR equalizations</li><li>3. Multirate Basics</li><li>4. Communication systems in multirate building blocks</li><li>5. OFDM and other DFT based communication systems</li><li>6. Precoded OFDM systems</li><li>7. Optimization of transmitter and receiver</li><li>8. Windowed OFDM systems</li><li>9. Other topics (Blind channel identification, PAPR, etc)</li></ol>
Goal	A multirate approach to OFDM and DMT systems
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese