

Course Content

Course Title (English)	Information Theory
Course Title (Chinese)	消息理論
Credit	3
Instructor	Prof. Mao-Chao Lin 林茂昭 教授
Outline	<ol style="list-style-type: none">1. Communication Systems2. Entropy, Relative Entropy and Mutual Information3. Asymptotic Equipartition Property4. Entropy Rates of a Stochastic Process5. Data Compression6. Channel Capacity7. Differential Entropy8. Gaussian Channel9. Rate Distortion Theory10. Information Theory and Statistics11. Universal Source Coding12. Network Information Theory
Goal	The goal of this course is to provide the students the knowledge of the quantification of information and its application.
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese