

## Course Content

Course Title (English)	Adaptive Signal Processing
Course Title (Chinese)	可適性信號處理
Credit	3
Instructor	Prof. Jenho Tsao 曹建和 教授
Outline	本課程為偏應用的統計信號處理，可視為'通訊原理'與'數位信號處理'的延續。本課以講演為主，其內容包括：1. Introduction2. Discrete-time WSS Random Process3. Wiener Filters4. Linear Prediction Filters5. Kalman Filters6. Linear FIR Adaptive Filtering7. Method of Steepest Descent8. Stochastic Gradient-based Algorithms9. Eigen-based Algorithms10. Recursive Least-squared Estimation
Goal	本課程為偏應用的統計信號處理，可視為'通訊原理'與'數位信號處理'的延續。本課以講演為主，其內容包括：1. Introduction2. Discrete-time WSS Random Process3. Wiener Filters4. Linear Prediction Filters5. Kalman Filters6. Linear FIR Adaptive Filtering7. Method of Steepest Descent8. Stochastic Gradient-based Algorithms9. Eigen-based Algorithms10. Recursive Least-squared Estimation
English Teaching	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese