

中正大學課程大綱  
資訊工程研究所

|            |   |       |            |       |      |
|------------|---|-------|------------|-------|------|
| 課程名稱(中文)：  | 機器學習  | 開課單位： | 資訊工程研究所    |       |      |
| 課程名稱(英文)：  | Machine Learning  | 課程代碼： | 4105931_01 |       |      |
| 授課教師：      | 江振國   |       |            |       |      |
| 學分數：       | 3   | 必/選修： | 必修         | 開科年級： | 碩博合開 |
| 先修科目或先備能力： | This is an introductory course, intended for senior undergraduate and graduate students. The prerequisites are courses on computer programming, algorithms, probability, and linear algebra.  |       |            |       |      |
| 課程概述：      | Machine learning is programming computers to optimize a performance criteria using example data or past experience. In this course, we will study key algorithms and theory that form the core of machine learning such as concpet learning, decision trees, supervised learning, unsupervised learning, bayesian lerning, neural networks, and support vector machines. Students are expected to learn their problem setting, algorithms, and assumptions that underline each. |       |            |       |      |
| 學習目標：      | 1.learn how to formulate, experiment and measure a machine learning algorithm.<br>2.learn core allgorithms and theory of machine learning.<br>3.learn how to solve applications by machine learning.  |       |            |       |      |
| 教科書：       | Tom. Mtichell, Machine Learning, McGraw-Hill, 1997.   |       |            |       |      |