

# 97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	神經網路	Serial No. / ID	1128 / EGR5020
Dept.	電機工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	陳木松	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)ABC / H371	Language	English

Introduction
Learn the concept of machine learning and its application in pattern recognition

Outline
<ol style="list-style-type: none"><li>1.Basic concept introduction</li><li>2.What is learning ?</li><li>3.The perceptron</li><li>4.Derivative-base optimization</li><li>5.Least-mean-square algorithm</li><li>6.Advanced learning algorithm</li><li>7.Multilayer perceptron neural networks</li><li>8.Supervised Learning algorithm</li><li>9.Backpropagation learning</li><li>10.Radial basis function network</li><li>11.Unsupervised Learning</li><li>12.Self-organizing system ?</li><li>13.Hebbian learning</li><li>14.Self-organizing system</li><li>15.Competitive learning</li></ol>

Prerequisite
Calculus, Linear algebra, Programming language