

## 97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	語音辨識	Serial No. / ID	0935 / IF13076
Dept.	資訊工程學系	School System / Class	大學日間部3年3班
Lecturer	黃宏彥	Full or Part-time	兼任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(四)567 / H571	Language	Chinese

Introduction
<p>This course introduces many concepts and algorithms related to speech recognition, and examine some state-of-the-art systems.</p> <p>The topics include:</p> <ul style="list-style-type: none"> <li>Overview</li> <li>Phonetics and Phonetic Units</li> <li>Feature Extraction Mel-Frequency Cepstral Coefficients (MFCC) Pitch contour</li> <li>Acoustic Modeling Hidden Markov Model (HMM) Artificial Neural Network (ANN)</li> <li>Language Modeling</li> <li>Search Algorithms</li> <li>State-of-the-Art Speech Recognition System</li> </ul>

Outline
<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Fundamentals of Speech Recognition</li> <li>3. Acoustic Modeling</li> <li>4. Language Modeling</li> <li>5. Speech Signals and Front-end Processing</li> <li>6. Search Algorithms for Speech Recognition</li> <li>7. More about Hidden Markov Models</li> </ol>

Prerequisite
none.