

## 99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	語音訊號處理	Serial No. / ID	1158 / EGR5248
Dept.	電機工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	李立民	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(三)ABC / H367	Language	Chinese

### Introduction

Enable students to understand the basic properties of speech , and be able to use mathematical tools to model and analyze speech. Appations such as speech coding, speech synthesis and speech recognition will covered. Students will also learn to implement a simple speech recognition system using public available software tools.

### Outline

Introduction to Speech Processing  
Speech Production  
Principles of hearing  
acoustics  
Short time speech processing  
Linear Predictive Analysis  
Cepstrum analysis  
Quantization  
waveform coding of Speech signal  
Speech synthesis  
Speech Recognition  
Chinese Speech Processing

### Prerequisite

Probability, linear algebra, digital signal processing ,Programming