

## 98-1 大葉大學 選課版課綱

### 基本資訊

課程名稱	網路安全	科目序號 / 代號	3016 / EDR5164
開課系所	電機工程學系博士班	學制 / 班級	研究所博士班1年1班
任課教師	戴江淮	專兼任別	專任
必選修 / 學分數	選修 / 3	畢業班 / 非畢業班	非畢業班
上課時段 / 地點	(二)ABC / H344	授課語言別	中文

### 課程簡介

The coding field has exploded with new theoretical developments, several of which have had significant practical consequences. Three of these new developments stand out in particular: coded-modulation, soft decision decoding and soft-in and soft-out iterative decoding techniques. These new developments have revolutionized the way coding is applied to practical systems.

Goal: convolutional codes, coded-modulation, soft decision decoding, turbo decoding, low density parity check decoding

### 課程大綱

- 1.Introduction
- 2.Convolutional Codes
- 3.Trellis-Based Decoding Algorithms for Convolutional Codes
- 4.Sequential and Threshold Decoding of Convolutional Codes
- 5.Trellis-Coded Modulation
- 6.Turbo Coding & Decoding
7. low density parity check coding & decoding
- 8.Auto Repeat Request Systems

### 基本能力或先修課程

error control coding