# 國立東華大學

## 課　綱　Course Outline
### 電機工程學系碩士班國際組

| 中文課程名稱<br>Course Name in Chinese | 高等網路 | | | | |
|---|---|---|---|---|---|
| 英文課程名稱<br>Course Name in English | Advanced topics in networking | | | | |
| 科目代碼<br>Course Code | EE__M0110 | 班　別<br>Degree | 碩士班<br>Master's | | |
| 修別<br>Type | 選修<br>Elective | 學分數<br>Credit(s) | 3.0 | 時　數<br>Hour(s) | 3.0 |
| 先修課程<br>Prerequisite | | | | | |

### 課程目標
### Course Objectives

This course provides a venue for the introduction and discussion of the state-of – the -art research
topics as well as techniques in the areas of networking

### 系教育目標
### Dept.'s Education Objectives

| | |
|---|---|
| 1 | 高階人才培育─厚實學生專業知能，培育高階科技人才。<br>To cultivate talents with advanced professional knowledg |
| 2 | 團隊分工領導─落實分工合作觀念，具備領導協調能力。<br>To train students with teamwork leading  ability |
| 3 | 創新思維啟發─訓練專業實用技術，展現創新研發能力。<br>To inspire students with creative thinkin |
| 4 | 國際視野養成─營造國際宏觀視野，培育全球市場人才。<br>To educate students with global perspectiv |

| 系專業能力<br><br>Basic Learning Outcomes | | 課程目標與系專業能力相關性<br>Correlation between Course Objectives and Dept.'s Education Objectives |
|---|---|---|
| A | 培育具備電機電子資訊工程等專業技術研發之能力。<br>To cultivate the research and developing ability of electrical, electronics and information engineering。 | ● |
| B | 培育系統分析、模擬驗證、實作實現之能力。<br>To cultivate the advanced ability of analysis, verification and implementation of systems。 | ○ |

| | | |
|---|---|---|
| C | 訓練軟體工具使用與硬體實務驗證相互輔助之能力<br>To train the auxiliary ability between the utilization of software tool and the verification of the hardware practice。 | ○ |
| D | 訓練電機電子資訊專業知識與工程實務相互結合運用之能力。<br>To train the integrate ability between professional EECS knowledge and engineering practice | ● |
| E | 落實論文研究之群體討論與團隊合作之互助能力。<br>To fulfill the research ability in thesis by group discussion and teamwork cooperation | ○ |
| F | 落實發掘問題、邏輯分析、克服瓶頸與持續學習之能力。<br>To fulfill the ability of question finding, logical analyzing, bottleneck overcoming and continuous learning | ● |
| G | 了解學術倫理與智慧財產觀念,掌握國內外產業更迭需求與具備多元專長之能力。<br>To obtain the ability of multi-specialization and to meet the industry demand as well as to have the ability of academic ethics and concept of intellectual property | ○ |
| H | 了解國內外市場變化,具備科技英文閱讀溝通與科技論文寫作之能力。<br>To understand the change of global market and to have the ability of reading, conversation and technical writing in English。 | ○ |

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱
Course Outline

This course will comprehensively survey and discuss emerging research topics in the area of
networking, such as
    cloud computing,
    mobile computing,
    cross-layer optimization,
    cognitive and cooperative communication,
    QoS issues in next generation of internet,
    Intelligent networking,
    green networking and smart grid.

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

Lectures and discussions; project execution

其他
Miscellaneous