行動通信網路

Mobile Communication Network

Syllabus

- **Department / grade**
  - 資科三、資科四、資碩工一、資碩計一
- **Prerequisite**：Computer Network
- **Time**
  - Tue. 1:00-4:00 pm.
- **Classroom**
  - 大仁樓200101

- **Instructor**
  - 張宏慶
  - Office: 大仁樓 #200212
  - Tel：2938-7639 (campus x67639)
  - E-mail：jang@cs.nccu.edu.tw
- **Teaching assistant**
  - 劉育佑
  - Office：Mobile Computing and Data Communication Laboratory (III) (大仁樓 #200208)
  - Tel：29393091 x 62290 (campus x62290)
  - E-mail：111753145@nccu.edu.tw

Course outline

- Introduce the advanced topics of system, architecture, technology, and application of the 5G/6G mobile communication network

- Introduce the operation, administration, and maintenance (OA&M)of telecom cloud by telecommunication service providers

Course content

- Instructor lecture

- Student literature presentation

- Lab assignments

Grading

- Lab assignments：30%

- Literature presentations：70%

- **Lecture schedule**
  - [Week 1] Overview of 5G and 6G networks (1/3)
  - [Week 2] Overview of 5G and 6G networks (2/3)
  - [Week 3] Overview of 5G and 6G networks (3/3)
  - [Week 4] 中華電信：電信雲基礎概念簡介，邊緣雲應用與雲內網路介紹
  - [Week 5] 國慶日放假
  - [Week 6] 中華電信：NFV MANO與雲維管系統
  - [Week 7] 5G Spectrum Utilization and Spectrum Management (1/2)
  - [Week 8] 5G Spectrum Utilization and Spectrum Management (2/2)

- [Week 9] Lab

- [Week 10] NR Overview (1/2)

- [Week 11] NR Overview (2/2)

- [Week 12] 5G Core Network (1/2)

- [Week 13] 5G Core Network (2/2)

- [Week 14] Student literature presentation (1/4)

- [Week 15] Student literature presentation (2/4)

- [Week 16] Student literature presentation (3/4)

- [Week 17] Student literature presentation (4/4)

- [Week 18] 彈性補充教學：Lab assignments due