Digital Communications
Fall 2006

Institute of Communications Engineering
National Sun Yat-sen University
Course Information

- Slides: http://wits.ice.nsysu.edu.tw/ => 研究所課程

- Class Room: F2002
- Lecture: Wednesday 9:10AM – 12:00PM.

- Office: A104.
- Email: cpli@mail.nsysu.edu.tw
- Phone: Ext: 4480

- 助教：江權哲、李威廷 (Lab:FB006; Phone:4481)

- 4 Examinations, 2 hours each (25%, 30%, 30%, 25%).
Recommended Books

- Digital Communications / Fourth Edition (textbook)
  -- John G. Proakis, McGraw Hill

  -- Simon Haykin, John Wiley & Sons, Inc.

- Digital Communications – Fundamentals and Applications / 2nd Edition
  -- Bernard Sklar, Prentice Hall

- Principles of Communications / Fifth Edition

- Modern Digital and Analog Communication Systems
  -- B.P. Lathi, Holt, Rinehart and Winston, Inc.
Course Syllabus

- Chapter 1: Introduction (0.5)
- Chapter 2: Probability and Stochastic Processes (2.5)
- Chapter 3: Source Coding (2)
- Chapter 4: Characterization of Communication Signals and Systems (4)
- Chapter 5: Optimum Receivers for the Additive White Gaussian Noise Channel (4)
- Chapter 7: Channel Capacity (1)
- Chapter 9: Signal Design for Band-Limited Channels (1)
- Chapter 6: Carrier and Symbol Synchronization (2)
Examinations

- Exam 1: Chapter 1, 2, 3.
- Exam 2: Chapter 4.
- Exam 3: Chapter 5.
- Exam 4: Chapter 6, 7, 9.