Digital Communications
Fall 2014
Course Information


- Class Room: EC 3009
- Lecture: Monday 14:10-17:00.
- Office Hour: Monday and Thursday, 10:00~12:00.
- Office: F8038; Phone: 4480;
- Office: F6014; Phone: 4100;
- Email: cpli@faculty.nsysu.edu.tw

- 助教：李依潔、黃國閔、葉驊誠 (Lab:F9011；Phone:4481)

- Midterm I: 30%; Midterm II: 35%; Final: 35%.
Recommended Books

◊ Digital Communications / Fifth Edition (Textbook)
  -- John G. Proakis and Masoud Salehi, 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.
<table>
<thead>
<tr>
<th>Date</th>
<th>Content</th>
<th>Date</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014.09.15</td>
<td>Introduction</td>
<td>2014.11.17</td>
<td>Optimum Receivers for AWGN Channels</td>
</tr>
<tr>
<td>2014.09.22</td>
<td>Deterministic and Random Signal Analysis</td>
<td>2014.11.24</td>
<td>An Introduction to Information Theory</td>
</tr>
<tr>
<td>2014.09.29</td>
<td>Deterministic and Random Signal Analysis</td>
<td>2014.12.01</td>
<td>Midterm II</td>
</tr>
<tr>
<td>2014.10.06</td>
<td>Deterministic and Random Signal Analysis</td>
<td>2014.12.08</td>
<td>An Introduction to Information Theory</td>
</tr>
<tr>
<td>2014.10.20</td>
<td>Midterm I</td>
<td>2014.12.22</td>
<td>Linear Block Code</td>
</tr>
<tr>
<td>2014.11.03</td>
<td>Digital Modulation Schemes/ Optimum Receivers for AWGN Channels</td>
<td>2015.01.05</td>
<td>Digital Communication Through Band-Limited Channels</td>
</tr>
<tr>
<td>2014.11.10</td>
<td>Optimum Receivers for AWGN Channels</td>
<td>2015.01.12</td>
<td>Final</td>
</tr>
</tbody>
</table>
Examinations

◊ Midterm 1: Monday October 20, 2014 (30%)
  ◦ Introduction
  ◦ Deterministic and Random Signal Analysis

◊ Midterm 2: Monday December 1, 2014 (35%)
  ◦ Digital Modulation Schemes
  ◦ Optimum Receivers for AWGN Channels

◊ Final: Monday January 12, 2015 (35%)
  ◦ An Introduction to Information Theory
  ◦ An Introduction to Basic Coding Theory
  ◦ Digital Communication Through Band-Limited Channels