Course Aims

• This course aims to initiate students to explore the advanced technologies which are implemented, developed or under research in the rapid changing area of the Internet.

http://www.cityu.edu.hk/pg/current/course/EE5413.htm
Teaching and Learning Activities

- Lectures
- Tutorials
- Mini Project
- Report
Lecture: TCP/IP Review

Examples are used to review important TCP/IP networking concepts: protocol architecture, protocol layers, encapsulation, demultiplexing, network abstractions.
Lecture: World Wide Web

- World Wide Web (WWW)
  - Web Browser
  - Social Networking
  - Web 3.0
- HTTP (Hypertext Transfer Protocol)
  - Uniform Resource Locator
  - HTTP Transactions Model
  - HTTP Request/Response
Lecture: Interactive Web Page Design

- Hypertext Markup Language (HTML)
  - Web Publishing Language
  - Basic HTML Tags
- Extensible Markup Language (XML)
  - Cascading Style Sheets (CSS)
  - Semi-Structured Data
- Facebook Implementation
  - Facebook Query Language
  - Facebook API
Lecture: Scripting Language

• Types of scripting languages
  – Job control languages and shells
  – GUI scripting
  – Application-specific languages
  – Extension/embeddable languages
  – Glue language

• Examples of scripting languages
  – tool. JavaScript, ASP, JSP, PHP, Perl, Tcl and Python
Lecture: Network Security in Internet

- Network Security
  - Data Confidentially
  - Message Integrity
  - Authentication
  - Access and Availability

- Wireless Network Security
  - IEEE 802.11 standard
  - WiFi WPA
## Assessment Tasks/Activities

<table>
<thead>
<tr>
<th>Type of assessment tasks</th>
<th>Weighting (if applicable)</th>
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</thead>
<tbody>
<tr>
<td>Continuous Assessment</td>
<td>30%</td>
</tr>
<tr>
<td>Quizzes, Mini-Project, Report</td>
<td></td>
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<tr>
<td>Examination</td>
<td>70%</td>
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<tr>
<td>Written exam</td>
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