Course Title : Internet Technology  
Course Code : CDS215/CDS2215  
No of Credits/Semester : 3  
Mode of Tuition : Sectional Approach  
Class Contact Hours : 3 hours per week  
Category in Major Prog. : Business Elective/Free Elective  
Prerequisite : Nil  

Brief Course Description  
This course will examine the various technologies used in Internet. Students will learn the advanced operation of PC and Internet/WWW, and are expected to be able to develop web page using web-authoring tool and programming languages. The application of Internet technologies in different business applications, such as E-commerce, database and Intranet/Extranet, will be examined. The course does not specify any pre-requisite but students should have acquired basic computing and web page creation skill.

Aims  
The aim of the course is to introduce various kinds of technologies that are currently used in the Internet/WWW. The course exploits the different tools and techniques that are common to users and developer.

Learning Outcomes  
On completion of this course, students will be able to:

1. Have a clear understanding of the Internet: the evolution of the Internet and the Hong Kong Internet Exchange (HKIX).
2. Develop business web pages using XHTML and to make enhancement by script languages such as JavaScript, image-map, etc.
3. Use advanced web authoring software to aid the development of webpage as well as maintenance of a web site.
4. Apply various Internet technologies in different business applications legally and ethnically.

Measurement of Learning Outcomes
1. Assignments will require students to demonstrate their XHTML skill through the development and maintenance of their homepages. Students would need to develop the web pages with their own design and observe the copyright issues legally and ethically. Besides, scripting language would form part of the assignments. Students will be given different tasks to be completed by scripting language. They expected to use scripting language to enhance the interactivity of web pages.

2. In addition to assignments, a test is conducted to ensure the students have the necessary knowledge on the topics covered.

3. Students learn better through interactive exercises, class participation/class exercise would increase students’ interest in the course and bring out any problem that they are facing.

4. Final examination will take the form of tradition, written examination and practical in computer laboratory. The written portion will assess the theory/knowledge students learnt in this course. The practical part requires students to demonstrate their practical skill in a controlled environment. This would better aid the assessment of students’ practical skill in addition to assignments and class exercise.

**Indicative Content**

**Overview of the Internet**
Development and infrastructure of Internet, Hong Kong Internet Exchange (HKIX)  
Internet Resources: email, ftp and newsgroup

**XHTML**  
Advanced Hypertext Markup Language (XHTML)  
Use of advanced web authoring tools such as Dreamweaver, re-defining of tags, behaviors  
Use of Cascade Style Sheet: inline and external

**Scripting Languages**  
JavaScript: input/output through HTML, control structures, functions, objects, event handlers  
Difference from JAVA  
Other Common Gateway Interface (CGI): Perl, ASP, JSP, PHP

**Web Page enhancement**  
Animation with Flash: motion/shape tweening, motion with motion guide, mask, actionscript.  
Internet Security: securing a web page, identification/authentication, Secure Socket Layer SSL, Secure Electronic Transaction SET  
Internet Ethnic: copyright issues in Hong Kong, Internet, developing web pages ethnically, use of images, designs, etc.

**Teaching Method/Class Activities**
Class activities include lectures/tutorial, in-class exercises with different tasks to be completed. Students are expected to gain knowledge and skill through the use of various software and practices with exercises.

**Assessment**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>35%</td>
</tr>
<tr>
<td>Test</td>
<td>20%</td>
</tr>
<tr>
<td>Class Attendance, Participation, and Class Exercise</td>
<td>5%</td>
</tr>
<tr>
<td>Examination</td>
<td>40%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
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**Required/Essential Readings**


**Recommended/Supplementary Readings**

