City University of Hong Kong

Information on a Course
offered by Department of Computer Science
with effect from Semester A in 2014 / 2015

Part I

Course Title: Introduction to Internet and Programming
Course Code: CS1303
Course Duration: One Semester
No. of Credit Units: 3
Level: B1
Medium of Instruction: English

Prerequisites: (Course Code and Title)
Nil

Precursors: (Course Code and Title)
Nil

Equivalent Courses: (Course Code and Title)
Nil

Exclusive Courses: (Course Code and Title)
CS2204 Fundamentals of Internet Applications Development

Part II

1. Course Aims:

This course aims at providing the fundamental knowledge of Internet and simple programming so that the students can develop their own ideas to showcase their artwork through the use of the Internet.

Upon completion, students should be able to:

1. be familiar with the technological options available for presenting content of different media over the Internet
2. write Web pages with the HyperText Markup Language (HTML) and Cascading Style Sheet (CSS)
3. use Javascript to program interactive Web pages
4. design Web applications to showcase their artwork
2. **Course Intended Learning Outcomes (CILOs)**

*(state what the student is expected to be able to do at the end of the course according to a given standard of performance)*

Upon successful completion of this course, students should be able to:

<table>
<thead>
<tr>
<th>No.</th>
<th>CILOs</th>
<th>Weighting (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>explain basic Internet terminologies like TCP/IP and domain, and explore the use of Internet applications like Telnet, FTP, HTTP and VPN;</td>
<td>5%</td>
</tr>
<tr>
<td>2.</td>
<td>create simple Web sites using HTML and CSS;</td>
<td>20%</td>
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<tr>
<td>3.</td>
<td>appreciate and discover the use of available Internet technologies to present different media contents and artwork over the Web;</td>
<td>15%</td>
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<td>4.</td>
<td>use basic Javascript programming in creating interactive Web pages;</td>
<td>40%</td>
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<tr>
<td>5.</td>
<td>identify and be inquisitive about the basics of technological and social issues of Internet such as privacy, ethics, accessibility, fair use, copyright and security.</td>
<td>20%</td>
</tr>
</tbody>
</table>

3. **Teaching and learning Activities (TLAs)**

*(designed to facilitate students’ achievement of the CILOs)*

Teaching pattern:

*Suggested lecture/tutorial/laboratory mix: 2 hrs. lecture; 1 hr. tutorial.*

Classroom lectures will be supplemented by hands-on exercises on different topics. A studio classroom will be used with PC stations installed for students. The students can follow instructions from the lecturer/tutor to practice various techniques they learn.

<table>
<thead>
<tr>
<th>ILO No</th>
<th>TLAs</th>
<th>Hours/week (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1 CILO 3 CILO 5</td>
<td>Lecturing, discussions, question &amp; answer based tutorial sessions to achieve ILO#1, #3 and #5.</td>
<td></td>
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<tr>
<td>CILO 2 CILO 3 CILO 4</td>
<td>Instructor-led and self-paced exercises on individual topics to achieve ILO #2, #3 and #4.</td>
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<tr>
<td>CILO 2 CILO 3 CILO 4</td>
<td>Problem Based Learning (PBL) approach is adopted. Students are required to design a mobile Web application with guided implementation to achieve ILO #2, #3 and #4. In order to complete the project, techniques and concepts presented in the course have to be applied.</td>
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</tbody>
</table>
4. **Assessment Tasks/Activities**

*(designed to assess how well the students achieve the CILOs)*

<table>
<thead>
<tr>
<th>ILO No</th>
<th>Type of assessment tasks/activities</th>
<th>Weighting (if applicable)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1</td>
<td>Question and answer tutorial sessions and quizzes.</td>
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<tr>
<td>CILO 2</td>
<td>Hands-on exercises to write simple Web pages.</td>
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<tr>
<td>CILO 3</td>
<td>Question and answer tutorial sessions and quizzes; a group project of designing a mobile Web application.</td>
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<tr>
<td>CILO 4</td>
<td>Hands-on exercises to write interactive Web pages; a group project of designing a mobile Web application.</td>
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<tr>
<td>CILO 5</td>
<td>Question and answer tutorial sessions and quizzes.</td>
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5. **Grading of Student Achievement:** Refer to Grading of Courses in the Academic Regulations and to the Explanatory Notes.

- Examination duration: Nil
- Percentage of coursework, examination, etc.: 100% CW
- Grading pattern: Standard (A+AA-…F)

**Part III**

Keyword Syllabus:

TCP/IP, Domain, HyperText Transfer Protocol (HTTP), Browser and Web Server, HyperText Markup Language (HTML), Cascading Style Sheet (CSS), Programming languages, JavaScript, Internet privacy and security; copyright and fair use of Web content.

**Syllabus:**

1. History of Internet, Internet applications and the Web
2. HTTP, HTML, CSS, and Web multimedia
3. Introduction to computer programming, Javascript (Client-side Scripting)
4. Use of Javascript in interactive Web pages and Web Apps
5. Introduction to the technological and social issues of the Internet
Recommended Reading:
Text(s):

**Essential Text**


**Supplementary Reading**


Online Resources:

Various on-line resources on HTML, CSS, Javascript and social issues of the Internet