Title (Units): IT2530 Internet and E-Commerce (3,2,1)

Course Aims: To learn the basic concepts of Internet and e-commerce technologies, and gain hands-on experience in setting up systems for Internet and e-commerce applications.

Prerequisite: IT 1140 IT Portfolio or IT1120 Business Information Systems or IT 1180 Information Management Technology

Learning Outcomes (LOs):
Upon successful completion of this course, students should be able to:

<table>
<thead>
<tr>
<th>No.</th>
<th>Learning Outcomes (LOs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Knowledge</td>
</tr>
<tr>
<td>1</td>
<td>Explain the principles of Internet technologies and applications.</td>
</tr>
<tr>
<td>2</td>
<td>Describe the business and technological issues of e-commerce and explain the principles of e-commerce systems.</td>
</tr>
<tr>
<td></td>
<td>Professional Skill</td>
</tr>
<tr>
<td>3</td>
<td>Set up and maintain systems for Internet and e-commerce applications.</td>
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<tr>
<td></td>
<td>Attitude</td>
</tr>
<tr>
<td>4</td>
<td>Perceive the increasingly important role of the Internet and e-commerce in both daily life and work.</td>
</tr>
<tr>
<td>5</td>
<td>Develop a sense to use the Internet and e-commerce for enhancing daily life and work.</td>
</tr>
</tbody>
</table>

Calendar Description: Students will learn the basic concepts of Internet and ecommerce technologies, and gain hands-on experience in setting up systems for Internet and e-commerce applications.

Assessment:

<table>
<thead>
<tr>
<th>No.</th>
<th>Assessment Methods</th>
<th>Weighting</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Continuous Assessment</td>
<td>40%</td>
<td>Continuous assessments are designed to measure how well the students have mastered the principles and practice of Internet and e-commerce systems.</td>
</tr>
<tr>
<td>2</td>
<td>Examination</td>
<td>60%</td>
<td>Final examination questions are designed to assess students’ understanding in the concepts and their ability to apply these concepts to solve problems.</td>
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</tbody>
</table>

Rubrics:

**Excellent (A)**
- Achieve the first three LOs, demonstrating an excellent mastery of both the theoretical and practical aspects of the knowledge and skills in the selected topics
- Able to develop correct solutions to problems in internet and e-commerce, accompanied by in-depth analysis and insight
- Demonstrate a thorough understanding and solid knowledge of the principles and techniques of internet and e-commerce
- Able to draw on a variety of techniques and relevant knowledge and appropriately apply them to new technical situations and real-life problems

**Good (B)**
- Achieve most of the first three LOs, demonstrating a good understanding of the associated concepts and underlying methodologies in the selected topics
- Able to develop correct solutions to problems in internet and e-commerce, accompanied by adequate explanations
- Demonstrate a competent level of knowledge of the principles and techniques of internet and e-commerce
- Ability to make use of appropriate techniques and knowledge and apply them to familiar situations and problems
| Satisfactory (C) | • Achieve some of the first three LOs, demonstrating a basic level of understanding of the associated concepts and underlying methodologies in the selected topics  
• Able to provide acceptable solutions to problems in internet and e-commerce  
• Demonstrate an adequate level of knowledge of the principles and techniques of internet and e-commerce  
• Ability to make use of some techniques and knowledge and apply them to familiar situations and problems |
| Marginal Pass (D) | • Achieve few of the first three LOs, with minimal understanding of the associated concepts and underlying methodologies in the selected topics  
• Able to provide solutions to simple problems in internet and e-commerce  
• Demonstrate a basic level of knowledge of the principles and techniques of internet and e-commerce  
• Ability to apply some techniques and knowledge to a limited number of typical situations and problems |
| Fail (F) | • Achieve none of the first three LOs, with little understanding of the associated concepts and underlying methodologies in the selected topics  
• Unable to provide solutions to simple problems in internet and e-commerce  
• Knowledge of the principles and techniques of internet and e-commerce falling below the basic minimum level  
• Unable to apply techniques or knowledge to familiar situations or problems |

**Learning Outcomes and Weighting:**

<table>
<thead>
<tr>
<th>Content</th>
<th>LO No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Internet Technologies</td>
<td>1, 4, 5</td>
</tr>
<tr>
<td>II. E-Commerce Technologies</td>
<td>2, 4, 5</td>
</tr>
<tr>
<td>III. Administration and Applications</td>
<td>3, 4, 5</td>
</tr>
</tbody>
</table>

**References:**


**Course Content in Outline:**

**Topic**

I. Internet Technologies  
A. Internetworking: systems, protocols, and applications  
B. Broadband and wireless Internet access  
C. World wide web: protocol, servers, proxies, web services  
D. Search engines

II. E-commerce Technologies  
A. Types of e-commerce  
B. Business issues  
C. Database management  
D. Security and electronic payment

III. Administration and Applications
A. Basic system administration
B. Setting up Internet servers (such as web server, mail server, DHCP server, DNS server, ftp server, etc)
C. Construction of e-commerce sites