COURSE OUTLINE

CITA 310 – WEB SERVER ADMINISTRATION

Revised By: MINHUA WANG
A. **TITLE:** Web Server Administration

B. **COURSE NUMBER:** CITA 310

C. **CREDIT HOURS:** 3 credit hours

D. **WRITING INTENSIVE COURSE:** No

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Fall

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   2 lecture hours and 2 laboratory hours per week

H. **CATALOG DESCRIPTION:** A comprehensive survey of all aspects of Web server administration. Students gain hands-on experience by actually installing and administering their own Web servers in a lab environment. Topics include: server installation and configuration, site planning, supporting dynamic content with CGI's and ASP's server maintenance and site security.

I. **PRE-REQUISITES/CO-REQUISITES:**
   a. Pre-requisite(s): CITA 220 Data Communications and Network Technology
   b. Co-requisite(s): none

J. **GOALS (STUDENT LEARNING OUTCOMES):**
   By the end of this course, the student will be able to:

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<th>Course Objective</th>
<th>Institutional SLO</th>
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<tr>
<td>b. Experiment various Web services to extend the web environment</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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<td>d. Demonstrate tools to be used to monitor and analyze the Web environment</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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<td>e. Develop security applications for the Web environment</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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<td>f. Compare different Web server versions in various operating system environments</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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L. **REFERENCES:** N/A

M. **EQUIPMENT:** computer classroom with virtual machine software installed

N. **GRADING METHOD:** A-F
O. **MEASUREMENT CRITERIA/METHODS:**
   - Exams
   - Quizzes
   - Participation

P. **DETAILED COURSE OUTLINE:**

I. Basics of Server Administration
   A. The Basics of Server and Web Server Administration
   B. Preparing for Server Installation
   C. Installing the Server
   D. Name Resolution
   E. Managing a Server

II. Basics of Web Server Administration
   A. Configuring a Web Server
   B. Installing and Testing a Programming Environment
   C. Providing E-Mail Services

III. Web Environment Administration
   A. Extending the Web Environment
   B. Securing the Web Environment
   C. Monitoring and Analyzing the Web Environment

Q. **LABORATORY OUTLINE:**

I. Installing and Configuring Windows Server 2008
II. Installing and Configuring Linux Server
III. Installing and Configuring DNS Server
IV. Installing and Configuring Apache Web Server
V. Installing and Configuring IIS Web Server
VI. Installing and Testing Web Server Programming Environment
VII. Installing and Testing Email Server
VII. Web Environment Administration