Common Course Outline
CSIT 222
Emerging Web Technologies
4 Credits

Community College of Baltimore County

Description

CSIT 222 – Emerging Web Technologies introduces current emerging technologies related to web Content Management Systems (CMS), interactive media and modern trends in web authoring. The course surveys current CMS technology, advanced visual design and layout principles, graphics and interactive multimedia for the web.

4 Credits

Prerequisite: CSIT 121 and CSIT 154, or consent of the program coordinator.

Overall Course Objectives

Upon completion of this course students will be able to:
1. summarize web CMS technologies and features;
2. design, develop, and maintain websites using an emerging web CMS;
3. evaluate features needed for web design tasks;
4. apply Information Architecture (IA) principles and relate to website design;
5. use multiple media types and manipulate files;
6. integrate website with social media and other tools;
7. evaluate content and create interactive page elements; and
8. construct data visualizations to be used for a website.

Major Topics
  I. CMS
   - A. Introduction
   - B. Installation and setup
   - C. Configuration
   - D. Administrative interface
   - E. Working with articles
   - F. Categories and menus
   - G. Site structure, design and layout
   - H. Templates and modules
   - I. Packages and advanced features
   - J. Managing updates
   - K. Social media integration

  II. Information Architecture for CMS
   - A. Content organization
   - B. User experience

      C. Usability
      D. Web accessibility
  III. Interactive Media
      A. Multiple media formats
      B. Data visualization for the web
      C. Graphics and simple animation
      D. Web typography
      E. Interactive page elements

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include a minimum of the following:

- Two exams
- Five projects/labs
- Final project

Written Assignments: Students are required to use appropriate academic resources.

Other Course Information
This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

This is a required course for the Web Development option of the Information Technology Degree Program.

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