



CPNT 200 - Content Management Systems

Course Description:

This course will introduce industry standard content management systems used to create websites by using and customizing themes and templates. Advanced concepts will investigate large customized local and remote content management systems.

1.5 credits

Time Guidelines:

The standard instructional time for this course is 64 hours.

Effective Year

2019/2020

Course Assessment:

Individual CMS Assignments	50%
Team CMS Assignments	50%
Total	100%

SAIT Policies and Procedures:

The School of Information and Communications Technologies (ICT) expects students to act professionally during their studies. A guideline outlining expectations is available on the [Information and Communications Technologies Orientation](#) page. Students should review the guideline regularly, as the content may change.

Required Course Publication(s):

Williams, B., Damstra, D. & Stern, H. (2015). *Professional WordPress: Design and Development* (3rd ed.). Wrox Press. ISBN: 9781118987247.

Course Learning Outcome(s):

1. Understand what content management systems are and how they are used.

Objectives:

- 1.1 Explain a content management system.
- 1.2 Describe major common components of a content management system (language, database, web server, DNS name).
- 1.3 Outline common content management systems requirements (log in, user and permissions management, separation of content and style, Nice/URI /permalinks support, language support, publication management).
- 1.4 Demonstrate local installation of a WordPress CMS.
- 1.5 Demonstrate the ability to install, edit and manage themes and plugins in WordPress.
- 1.6 Demonstrate the ability to add, edit, manage and publish text and media content in WordPress.
- 1.7 Use and understand the administrative features in WordPress.. Create artwork using Flash.

2. Construct simple PHP scripts with variables and decision structures.

Objectives:

- 2.1 Describe the PHP tag and its placement inside an HTML page.
- 2.2 Demonstrate the use of PHP variables in a script.
- 2.3 Use operators, built-in functions, and control structures to generate HTML from a PHP script.

3. Customize a content management system site.

Objectives:

- 3.1 Identify files and PHP code that comprises 'the core' of a WordPress installation.
- 3.2 Describe how 'The Loop' (logic for displaying posts) works in WordPress.
- 3.3 Identify WordPress PHP functions that can be called to modify 'The Loop'.

3.4 Demonstrate the ability to customize a WordPress theme.

3.5 Identify files that can be created and incorporated into a WordPress theme.

3.6 Demonstrate the ability to create a WordPress theme.

3.7 Work on a team to build a customized WordPress site and theme.

4. Demonstrate the ability to install a WordPress remote server.

Objectives:

4.1 Understand WordPress dependencies on a Linux Server.

4.2 Install (with yum) WordPress dependencies on a Linux server.

4.3 Demonstrate file management and editing proficiency with Linux shell commands and the VI Editor.

4.4 Manage MySQL from the command line.

4.5 Demonstrate the ability to start/stop mysqld and httpd.

5. Explore other content management systems.

Objectives:

5.1 Demonstrate a local SilverStripe installation.

5.2 Compare and contrast functionality between WordPress and SilverStripe.

5.3 Identify files and folders involved in a customized SilverStripe theme.

5.4 Demonstrate a local Drupal installation.

5.5 Compare and contrast functionality between WordPress and Drupal.

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