



**B.C.A. (Honours) & B.C.A. (Honours with Research)**  
**(Semester - 3 and Semester - 4)**  
**Saurashtra University**  
**To be effective from June – 2024**

<b>CS-17: Content Management System using WordPress</b>		
<b>Objectives:</b>		
<ul style="list-style-type: none"><li>• Learn how to create custom themes and pages</li><li>• Work with custom post types and taxonomies</li><li>• In detail knowledge of the WordPress CMS backend</li><li>• Working with widgets and widget areas</li><li>• Working in default cms functions and extending its core</li></ul>		
<b>Prerequisites:</b> <ul style="list-style-type: none"><li>• Basic knowledge of web development and CMS</li></ul>		
Unit No.	Topic	Detail
1	Introduction, Installation & Configuration	<ul style="list-style-type: none"><li>• What is Content Management System (CMS)?<ul style="list-style-type: none"><li>- Introduction of Wordpress</li><li>- Features of Wordpress</li></ul></li><li>• Advantages &amp; Disadvantages of Wordpress<ul style="list-style-type: none"><li>- Installation of Wordpress.</li><li>- Wordpress Directory &amp; file structure.</li><li>- Dashboard overview</li><li>- How to add, edit and delete page, category, post, tag.<ul style="list-style-type: none"><li>- Add new media file (image, pdf, doc etc.) &amp; attach to post or page.</li></ul></li></ul></li><li>• Gutenberg Introduction<ul style="list-style-type: none"><li>- Gutenberg Blocks (Paragraph, Heading, Subheading, Quote, Image, Cover Image, Gallery, Video, Audio, Columns, Code, List, Button, Embeds)</li></ul></li><li>• User Roles and Capabilities. - Setting (General, writing, Reading, Discussion, Media, Permalinks)</li><li>• Updating Wordpress<ul style="list-style-type: none"><li>- One-click Update</li><li>- Manual Update</li></ul></li><li>• Database Structure</li></ul>
2	Theme	<ul style="list-style-type: none"><li>• What is Theme?</li><li>• How to install &amp; activate theme</li><li>• Theme Customize Options (Site Identity, Menus, Widgets, HomePage Settings, Additional CSS)</li></ul>
3	Widget	<ul style="list-style-type: none"><li>• What is widget &amp; widget areas?</li><li>• Widget Management<ul style="list-style-type: none"><li>- Available Widgets (Archive, Calendar, Categories, Navigation Menu, Meta, Pages, Recent Comments, Recent Posts, RSS, Search, Tag Cloud, Text, Image Gallery, Video, Audio, Custom HTML)</li></ul></li><li>• Inactive Sidebar (not used)</li></ul>



**B.C.A. (Honours) & B.C.A. (Honours with Research)**  
**(Semester - 3 and Semester - 4)**  
**Saurashtra University**  
**To be effective from June – 2024**

	<b>Plugin</b>	<ul style="list-style-type: none"><li>• Inactive Widgets</li><li>• What is plugin?</li><li>• How to install and activate plugin</li><li>• Useful plugins for website<ul style="list-style-type: none"><li>- SEO Yoast</li><li>- Contact Form 7</li><li>- WooCommerce</li><li>- WP Super Cache</li><li>- Regenerate Thumbnails</li><li>- Advanced Custom Fields</li><li>- All-in-One WP Migration</li><li>- Custom Post Type Widgets</li></ul></li><li>• Inactive Sidebar (not used) Inactive Widgets</li></ul>
4	<b>Theme Development</b>	<ul style="list-style-type: none"><li>• Anatomy of a Theme: header.php, footer.php and sidebar.php</li><li>• Template Files (style.css, index.php, page.php, home.php, archive.php, single.php, comments.php, search.php, attachment.php, 404.php, category.php, tag.php, author.php, date.php)</li><li>• The Loop (have_posts (), the_post())</li><li>• Template Tags<ul style="list-style-type: none"><li>◦ General tags (wp_head(), get_footer(), get_header(), get_sidebar(), get_search_form(), bloginfo(), wp_title(), single_post_title(), wp_footer(), comments_template(), add_theme_support(), get_template_directory_uri(), body_class())</li><li>◦ Author tags (the_author(), get_the_author(), the_author_link(), get_the_author_link(), the_author_meta(), the_author_posts())</li><li>◦ Category tags (category_description(), single_cat_title(), the_category() )</li><li>◦ Link tags (the_permalink(), get_permalink(), home_url(), get_home_url(), site_url(), get_site_url())</li><li>◦ Post tags (the_content(), the_excerpt(), the_ID(), the_tags(), the_title(), get_the_title(), the_date(), get_the_date(), the_time(), next_post_link(), previous_post_link(), posts_nav_link(),</li></ul></li></ul>



**B.C.A. (Honours) & B.C.A. (Honours with Research)**  
**(Semester - 3 and Semester - 4)**  
**Saurashtra University**  
**To be effective from June – 2024**

		<p>post_class())</p> <ul style="list-style-type: none"> <li>○ Post Thumbnail tags (has_post_thumbnail(), get_post_thumbnail_id(), the_post_thumbnail(), get_the_post_thumbnail())</li> <li>○ Navigation Menu tags (wp_nav_menu())</li> <li>○ Conditional Tags (is_archive(), is_category(), is_front_page(), is_home(), is_page(), is_single(), is_search(), is_attachment(), is_active_sidebar())</li> <li>● functions.php file</li> </ul>
5	<b>Advanced Development</b>	<ul style="list-style-type: none"> <li>● Advanced Functions <ul style="list-style-type: none"> <li>- add_action(), add_filter(), add_shortcode(), do_shortcode(), register_nav_menu()</li> </ul> </li> <li>● Custom Post Types <ul style="list-style-type: none"> <li>- Register_post_type(), register_taxonomy(), Display custom post type &amp; taxonomy</li> </ul> </li> <li>● Widget Area <ul style="list-style-type: none"> <li>- register_sidebar(), dynamic_sidebar()</li> </ul> </li> </ul>

Seminar	-	5 Lectures
Expert Talk	-	5 Lectures
Test	-	5 Lectures

**Total Lectures 60 + 15 = 75**

**Reference Books:**

- Build Your Own Wordpress Website: An ultimate guide for small business owners paperback by Wordpress Genie
- Teach Yourself VISUALLY Wordpress paperback – by George Plumley 3<sup>rd</sup> Edition.
- Wordpress for Beginners: A visual step-by-step guide to Mastering Word press Paperback – by Dr. Andy Williams.
- Wordpress to Go: How to build a Wordpress website on your own domain, from scratch, Even if you are a complete beginner paperback – by Sarah McHarry (Author)

**Course outcomes:**

- Work with and configure the cms backend
- Know when to use a custom post type or custom field
- Extend the Wordpress cms core to match requirements
- Create stunning dynamic themes