

Bachelor of Computer Application
(Semester – 3 and Semester - 4)
Saurashtra University
Effective from June - 2023

CS – 16: Content Management System using WordPress

Objectives:

- Learn how to create custom themes and pages
- Work with custom post types and taxonomies
- In detail knowledge of the Wordpress CMS backend
- Working with widgets and widget areas.
- Working in default cms functions and extending its core.

Prerequisites:

- Basic knowledge of web development and CMS.

No.	Topic	Details	Marks weight In %	Min. Lect.
1	Introduction Installation & Configuration	What is Content Management System (CMS)? - Introduction of Wordpress - Features of Wordpress <ul style="list-style-type: none"> • Advantages & Disadvantages of Wordpress - Installation of Wordpress. - Wordpress Directory & file structure. - Dashboard overview - How to add, edit and delete page, category, post, tag. - Add new media file (image, pdf, doc etc.) & attach to post or page. - Gutenberg Introduction <ul style="list-style-type: none"> • Gutenberg Blocks (Paragraph, Heading, Subheading, Quote, Image, Cover Image, Gallery, Video, Audio, Columns, Code, List, Button, Embeds) - User Roles and Capabilities. - Setting (General, writing, Reading, Discussion, Media, Permalinks) - Updating Wordpress <ul style="list-style-type: none"> • One-click Update • Manual Update - Database Structure	15	9
2	Theme	- What is theme? - How to install & activate theme. - Theme Customize Options (Site Identity,	25	15

Bachelor of Computer Application
(Semester – 3 and Semester - 4)
Saurashtra University
Effective from June - 2023

		Menus, Widgets, HomePage Settings, Additional CSS)		
3	Widget	<ul style="list-style-type: none"> - What is widget & widget Areas? - Widget Management <ul style="list-style-type: none"> • Available Widgets (Archive, Calendar, Categories, Navigation Menu, Meta, Pages, Recent Comments, Recent Posts, RSS, Search, Tag Cloud, Text, Image, Gallery, Video, Audio, Custom HTML) • Inactive Sidebar (not used) • Inactive Widgets 	15	10
	Plugin	<ul style="list-style-type: none"> - What is plugin? - How to install and activate plugin. - Useful plugins for website. <ul style="list-style-type: none"> • Seo yoast • Contact form 7 • Woocommerce • WP Super Cache • Regenerate Thumbnails • Advanced Custom Fields • All-in-One WP Migration • Custom Post Type Widgets 		
3	Theme development	<ul style="list-style-type: none"> - Anatomy of a Theme: header.php, footer.php and sidebar.php - 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) - The Loop (have_posts (), the_post()) - Template Tags <ol style="list-style-type: none"> 1. 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(), 	30	14

Bachelor of Computer Application
(Semester – 3 and Semester - 4)
Saurashtra University
Effective from June - 2023

		<p>body_class())</p> <p>2. Author tags (the_author(), get_the_author(), the_author_link(), get_the_author_link(), the_author_meta(), the_author_posts())</p> <p>3 Category tags (category_description(), single_cat_title(), the_category())</p> <p>4. Link tags (the_permalink(), get_permalink(), home_url(), get_home_url(), site_url(), get_site_url())</p> <p>5 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(), post_class())</p> <p>6 Post Thumbnail tags (has_post_thumbnail(), get_post_thumbnail_id(), the_post_thumbnail(), get_the_post_thumbnail())</p> <p>7 Navigation Menu tags (wp_nav_menu())</p> <p>8 Conditional Tags (is_archive(), is_category(), is_front_page(), is_home(), is_page(), is_single(), is_search(), is_attachment(), is_active_sidebar())</p> <p>- functions.php file</p>		
4	Advanced development	<p>- Advanced functions</p> <ul style="list-style-type: none"> • add_action() • add_filter() • add_shortcode() • do_shortcode() • register_nav_menu() 	15	12

Bachelor of Computer Application
(Semester – 3 and Semester - 4)
Saurashtra University
Effective from June - 2023

		<ul style="list-style-type: none"> - Custom Post Types <ul style="list-style-type: none"> • register_post_type() • register_taxonomy() • Display custom Post Type & Taxonomy - Widget Area <ul style="list-style-type: none"> • register_sidebar() • dynamic_sidebar() • 		
TOTAL:			100	60

Students seminar - 5 Lectures.
Expert Talk - 5 Lectures
Students Test - 5 Lectures.

TOTAL LECTURES 60+15=75

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

Reference Books:

1. Build Your Own Wordpress Website: An Ultimate Guide for Small Business Owners Paperback by Wordpress Genie
2. Teach Yourself VISUALLY Word Press Paperback –by George Plumley 3rd Edition.
3. Wordpress for Beginners: A Visual Step-by-step Guide to Mastering Word press Paperback –by Dr. Andy Williams.
4. 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)