



LJ University
University with a Difference

Diploma in Artificial Intelligence & Machine Learning



Course Code: 025090205

Web Development Tools

Programme / Branch Name			Diploma in Artificial Intelligence & Machine Learning			
Course Name	Web Development Tools				Course Code	025090205
Course Type	HSSC	BSC	ESC	PCC	OEC	PEC

Legends: HSSC: Humanities and Social Sciences Courses

ESC: Engineering Science Courses

OEC: Open Elective Courses

BSC: Basic Science Courses

PCC: Program Core Courses

PEC: Program Elective Courses

1. Teaching and Evaluation Scheme

Teaching Hours / Week				Evaluation Scheme			
L	T	P	Total Credit	CCE	SEE (Th)	SEE (Pr)	Total
0	0	6	3	50	-	50	100

Legends:

L: Lectures T: Tutorial P: Practical

CCE: Continuous & Comprehensive Evaluation

SEE (Th): Semester End Evaluation (Theory)

SEE (Pr): Semester End Evaluation (Practical)

2. Prerequisites

- ✓ Knowledge of HyperText Markup Language and Cascading Style Sheets
- ✓ Knowledge of web pages and websites

3. Rationale

In the age of consuming content in different modes, a website is the most preferable mode. To make a website from scratch one needs to learn many different web development technologies like HTML, CSS, Server-side scripting languages, databases, etc. But WordPress is a tool that simplifies the process of creating a simple content management site. Developing a website using WordPress only takes very little of anyone's time. After completion of this course, the student will be able to utilize WordPress to create a professional website like a blogging site, an e-commerce site, a content management system, and other websites.

4. Objectives

- ✓ To give idea about basics of Content Management Systems
- ✓ To explain methods of creating a website using WordPress Tool
- ✓ To create different types of content and managing websites using WordPress tool.

5. Contents

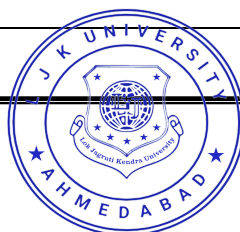
Unit No.	Unit Name	Topics	Learning Outcomes	% Weightage	Hours
1.	Introduction to WordPress	1.1. Introduction to WordPress: make a website or a blog using a WordPress 1.2. Downloading and Installing WordPress on XAMPP SERVER 1.3. Introduction to Wordpress.com	Analyze functionalities and use of WordPress	24	20
2.	Site Management & Administration	2.1. Work with administration menu and Dashboard 2.2. Use different tools from the Tools menu 2.3. Site Maintenance, backup, and security	Manage sites developed using WordPress	14	12
3.	Manage Themes & Site Customization	3.1. Manage and customize Themes 3.2. Create and Manage Menus 3.3. Use Custom Fields, Post Types, and Taxonomies	Design the site and customize it according to the need	14	12
4.	Manage Content	4.1. Manage Posts 4.2. Manage Pages 4.3. Manage Media files 4.4. Manage Post Comments	Write and arrange the content of the site	22	18
5.	Manage Plugins & Widgets	5.1. Add and Customize Widgets 5.2. Install and Manage Plugins 5.3. Install and configure various Plugins and widgets	Extend the basic functionalities of WordPress	26	22

Total Hours 84

6. List of Practicals / Exercises

The practicals/exercises have been properly designed and implemented in an attempt to develop different types of skills, so that students can acquire the competencies/programme outcomes. Following is the list of practicals/exercises.

Sr. No.	Practicals / Exercises	Key Competency	Hours
1.	Go through the functionalities of different blog sites.	To be aware of the blog site and its functionalities	4
2.	Download and Install WordPress on a computer.	To be able to install WordPress and solve installation problems	2
3.	Manage User Profiles and Roles	To be able to perform user management effectively	2
4.	Work with administration menu and Dashboard around.	To gain complete knowledge of WordPress dashboard and its working	4
5.	Use different tools from the Tools menu.	To be able to use different tools of the WordPress admin panel	2
6.	Explore features of Site Maintenance and backup	To be able to maintain a WordPress website	4
7.	Explore features of Site Security	To gain knowledge of security features by WordPress and use them	2
8.	Manage and customize Themes	To be able to install themes for customized projects	4
9.	Create and Manage Menus	To be able to manage features of the menu	4
10.	Use Custom Fields, Post Types, and Taxonomies	To know custom features and use them	4
11.	Steps to Add and Edit Posts	To be able to add posts and modify them	4
12.	Explore and use Manage Posts functionality.	To be able to use the Manage Posts feature of WordPress	4
13.	Steps to Add and Edit Pages	To be able to prepare new pages and modify them	2
14.	Explore and use Manage Pages functionality.	To be able to use the Manage Pages feature of WordPress	2
15.	Manage site-wide Media files.	To be able to add and manage media files on WordPress website	4
16.	Manage Post Comments	To be able to manage comments by users on a post	2
17.	Add and Customize Widgets	To know about prominent widgets and use them	4



18.	Install and Manage Plugins	To know about the most useful plugins and use them	4
19.	Install and configure Woocommerce Plugin	To be able to install Woocommerce plugin for eCommerce	10
20.	Install and configure Slideshow Plugin	To be able to install the Slideshow plugin for making custom sliders	4
21.	Introduction of Wordpress.com	To know Wordpress.com website	2
22.	Create Site on Wordpress.com	To be able to create a site on Wordpress.com	2
23.	Configure Site on Wordpress.com	To be able to manage website made on Wordpress.com	4
24.	Deployment of Site developed on Wordpress.com	To be able to deploy website on Wordpress.com	4
Total Hours			84

7. Textbooks

- 1) WordPress All-in-One for Dummies by Lisa Sabin-Wilson, Michael Torbert, Cory Miller, Kevin Palmer, Andrea Rennick, Latest Edition, Wiley Publication.
- 2) Professional WordPress: Design and Development by Brad Williams, David Damstra, and Hal Stern, Latest Edition, Wrox Publication.

8. Reference Books

- 1) Head First WordPress by Jeff Siarto, Latest Edition, O'Reilly Publication.

9. Open Sources (Website, Video, Movie)

- 1) <https://learn.wordpress.org/>
- 2) <https://www.tutorialspoint.com/wordpress/index.htm>
- 3) <https://www.wpbeginner.com/category/beginners-guide/>
- 4) <https://wordpress.com/learn/>