

GURU DAKSH GOVERNMENT POLYTECHNIC HISAR

Department of Computer Engineering
Lesson Plan – ADWF (VI Semester)

Department: Computer Engineering	Semester: 6th	Duration: 16 Weeks
Subject: Application Development Using Web Framework (ADWF) Lab		
Work Load: Lectures–0, Practicals–06 (06 Hrs/Week)	Exam Marks: 100	
Prepared By: Kapil Bhoria Session: Jan–May 2026 Source: AWF_LabManual.docx (E-Content)		

Syllabus / List of Experiments (as per E-Content, 13 experiments)

1. Practice on HTML, CSS, JavaScript, Ajax, PHP & MySQL
2. Install WordPress & Create Blogs
3. Manage blogs: images, text around images, comments, post formats, linking, pages, categories, smilies, feeds, avatars, password protection
4. Designing features: colour scheme, headers, CSS horizontal menus, dynamic menu, highlighting, navigation links, print
6. Integrate PHP & MySQL with WordPress
7. Install Moodle & various plugins
8. Create a Moodle site and database schema
10. Manage Moodle site, authentication – manual, no login, email-based self-registration
11. Create roles and permissions, assign roles
12. Implement password salting
13. Site backup, course backup, restore, automated backup

Learning Outcomes

1. Identify basic aspects of web frameworks.
2. Apply website development using PHP & MySQL.
3. Install WordPress; create and manage blogs/websites.
4. Install and configure Moodle LMS; manage authentication, roles, security & backup.

Lesson Plan Distribution: Jan–May 2026 — 06 Hrs Lab per Week

Detailed Lesson Plan – Week Wise

Wk	L.Day	Theory Topic (Assignment/Test)	P.Day	Practical Topic
1st	1st	Intro Web Frameworks, HTML structure	1st	Exp-1: HTML, CSS, JS
	2nd	CSS Selectors, Box Model, Colour Scheme	2nd	Ajax, PHP & MySQL
	3rd	JavaScript & Ajax, DOM		
	4th	PHP & MySQL Intro		
2nd	1st	WordPress Intro & Architecture	1st	Exp-2: Install WP & Create Blogs
	2nd	Blogs vs Websites, Themes	2nd	Exp-3: Images, Comments, Categories, Feeds
	3rd	Post Formats, Linking, Pages		
	4th	Smilies, Gravatars, Password Protection		
3rd	1st	Designing - Headers, CSS Menus	1st	Exp-4: Colour, Headers, CSS Menus, Dynamic Menu, Navigation
	2nd	Navigation, Highlighting, Print	2nd	Navigation Links, Print
4th	1st	Read More, Date/Time, CSS Styles	1st	Exp-5: Read More, Date/Time, Pages, Files, Themes, Templates, Maintenance
	2nd	WP Themes, Templates, Hierarchy	2nd	Template Tags, Validation
5th	1st	PHP & MySQL with WP, wp-config	1st	Exp-6: Integrate PHP & MySQL, phpMyAdmin
	4th	Internal Assessment-I		
6th	1st	Moodle Intro, LMS Concepts	1st	Exp-7: Install Moodle & plugins
	2nd	Moodle DB Schema	2nd	Exp-8: Create Moodle site & DB Schema
7th	1st	Site Appearance, Front Page	1st	Exp-9: Appearance, Front page, User profiles, Navigation, Themes, RSS
8th	1st	Auth Methods - Manual, No login, Email	1st	Exp-10: Manage Auth, Manual, Email reg
9th	1st	Roles - Admin/Teacher/Student	1st	Exp-11: Create Roles & Permissions
	2nd	Password Salting & Hashing	2nd	Exp-12: Implement Password Salting
10th	1st	Backup/Restore Concepts	1st	Exp-13: Site/Course Backup, Restore, Automated
	4th	Sessional Test-II		
11th	1st	Mini Project - WordPress	1st	Project: Website/Blog using WP
	2nd	Moodle Course Creation	2nd	Project: Course, Enrol, Publish
12th	1st	File Checking	1st	File Completion
13th	1st	Revision WP Exp 1-6	1st	Revision Prac 1-6
	2nd	Revision Moodle Exp 7-13	2nd	Revision Prac 7-13
14th	1st	Viva Prep & Doubt	1st	Mock Viva
15th	1st	Final Revision	1st	Final File Submission
16th	1st	HSBTE Exam Prep	1st	External Exam Prep

Prepared By:
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Principal

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