

Moodle LMS Development

Prerequisites: Knowledge of LMS

Day 1: Introduction to Moodle and Basic Setup

Morning Session: Overview of Moodle

- **Introduction to Learning Management Systems (LMS):** What is an LMS, role of Moodle in education.
- **Overview of Moodle Features:** Key features such as course creation, activity modules, and user management.
- **Roles in Moodle:** Administrator, Manager, Teacher, Student roles and permissions.
- **Moodle Interface Walkthrough:** Dashboard, navigation, and settings.

Lab: Basic Setup and Navigation

- **Lab Objective:** Become familiar with Moodle interface.
- **Lab Activities:**
 - Create a Moodle account.
 - Navigate through different sections.
 - Change user profile settings.
 - Explore the dashboard and create a personal home page.

Afternoon Session: Site Administration Basics

- **Site Settings:** General settings, server settings, and appearance customization.
- **User Management:** Creating and managing users, roles, cohorts, and user permissions.
- **Course Categories:** Organizing courses into categories and subcategories.

Lab: Basic Administration

- **Lab Objective:** Set up users and categories.
- **Lab Activities:**
 - Add new users and assign roles.
 - Set up user cohorts.
 - Create course categories and organize courses into them.

Day 2: Course Creation and Management

Morning Session: Creating a Course

- **Course Settings:** Understanding course formats, course visibility, and layout.
- **Adding Content:** Text, images, videos, and files.
- **Managing Sections:** Adding topics and organizing content.
- **Enrolling Students:** Manual enrollment, self-enrollment, and guest access.

Lab: Create a Basic Course

- **Lab Objective:** Set up a new course and enroll students.
- **Lab Activities:**
 - Create a course with multiple sections.
 - Add multimedia resources (videos, images, PDFs).
 - Manually enroll students and set up self-enrollment.

Afternoon Session: Activities and Resources in Moodle

- **Adding Resources:** Files, URLs, Pages, Labels, and Folders.
- **Interactive Activities:** Assignments, Quizzes, Forums, and Glossaries.
- **Blocks:** Adding blocks to course pages (calendar, upcoming events, etc.).

Lab: Adding Resources and Activities

- **Lab Objective:** Explore different types of resources and activities.
- **Lab Activities:**
 - Add files and URLs as resources.
 - Create an assignment and set deadlines.
 - Set up a discussion forum for students.

Day 3: Managing Student Engagement and Tracking Progress

Morning Session: Managing Activities

- **Activity Completion:** Track which activities are completed by students.
- **Conditional Access:** Restrict access to activities based on conditions (dates, grades).
- **Student Groups:** Grouping students for collaborative work.

Lab: Managing Activities and Groups

- **Lab Objective:** Set up activity completion and conditional access.

- **Lab Activities:**
 - Enable activity completion tracking.
 - Set up access restrictions for certain modules.
 - Create student groups and assign group-specific tasks.

Afternoon Session: Tracking Progress and Analytics

- **Gradebook Setup:** Adding and configuring grade items, categories, and grading scales.
- **Grading Assignments:** Using rubrics, marking guides, and quick grading.
- **Activity Reports:** Reviewing logs, participation, and engagement data.

Lab: Grading and Reporting

- **Lab Objective:** Grade student work and view course analytics.
- **Lab Activities:**
 - Set up a gradebook for a course.
 - Grade an assignment using a rubric.
 - Review activity completion reports and user logs.

Day 4: Advanced Course Customization and Plugins

Morning Session: Course Customization

- **Course Themes:** Selecting and modifying themes.
- **Course Formats:** Understanding different course formats (Weekly, Topic, Social).
- **Custom Fields:** Adding custom course fields.

Lab: Customizing a Course

- **Lab Objective:** Apply advanced customizations to a course.
- **Lab Activities:**
 - Change the course format and appearance.
 - Add a custom course field.
 - Enable and configure course completion tracking.

Afternoon Session: Moodle Plugins

- **Understanding Plugins:** Types of plugins (blocks, activities, filters, etc.).
- **Installing Plugins:** How to find, install, and configure plugins.

- **Popular Plugins:** Attendance, H5P, Turnitin, and more.

Lab: Plugin Installation and Configuration

- **Lab Objective:** Install and configure a plugin.
- **Lab Activities:**
 - Install a plugin (e.g., H5P or Attendance).
 - Configure and use the plugin in a course.
 - Explore plugin settings and options.

Day 5: Assessments, Backup, and Course Maintenance

Morning Session: Assessments and Advanced Quiz Setup

- **Creating Quizzes:** Different question types, quiz layouts, and settings.
- **Question Bank:** Organizing questions by categories.
- **Managing Question Pools:** Reusing questions across courses.
- **Advanced Quiz Settings:** Time limits, attempts, grading methods.

Lab: Creating Quizzes

- **Lab Objective:** Create and manage quizzes with advanced settings.
- **Lab Activities:**
 - Create a quiz with different question types.
 - Organize questions in the question bank.
 - Set up timed quizzes with multiple attempts.

Afternoon Session: Course Backup, Restore, and Maintenance

- **Backing Up Courses:** Manual and automated course backups.
- **Restoring Courses:** Restoring from backups.
- **Course Reset and Cleanup:** Removing students, resetting activities, and cleaning up data.

Lab: Course Backup and Maintenance

- **Lab Objective:** Perform backup and restore operations.
- **Lab Activities:**
 - Back up a course.
 - Restore a course from a backup file.

- Reset a course for a new batch of students.