

6.1 APPLICATION DEVELOPMENT USING WEB FRAMEWORK

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RATIONALE

This course will cover the practical aspects of Web App development using various frameworks. The course equips the students with resources for design, development and production of web applications. Students will be introduced to popular web application frameworks for building scalable web applications. The main objective for this course is to motivate student's interest in learning Web-app development by giving them an insight into its possibilities through practical applications. In addition, the course also provides a sufficiently broad but practical introduction to Server-side web technologies

COURSE OUTCOMES

After undergoing the training, the students will be able to:

- CO1: Identify basic aspects of web-frameworks.
- CO2: Install, create and manage Blogs, Websites using WordPress.
- CO3: Use PHP & MySql with WordPress.
- CO4: Install and create Web Application using Moodle.
- CO5: Manage features of Moodle sites and take backup of site content.

PRACTICAL EXERCISES:

1. Install WordPress & Create Blogs
2. Manage blogs features e.g. Images, Text Around Images, Comments, Post Formats, Linking, Pages, Categories, Smilies, Feeds, Gravatars, Password Protection
3. Practice various designing features: Colour Scheme, Headers, CSS Horizontal Menus, Dynamic Menu, Highlighting, Navigation Links, Print
4. Read More, Formatting Date and Time, Finding CSS Styles, Creating Individual Pages, Uploading Files, Using WordPress Themes, Templates, Template Tags, Template Hierarchy, Validating a Website, Know Your Sources, WordPress Site Maintenance
5. Integrate PHP & MySql with WordPress

6. Install Moodle & various plugins.
7. Create a Moodle site and Database Schema
8. Design Site appearance, Front page, Front page settings, My Moodle, User profiles, Navigation, Course list, Themes, Theme settings, Header and footer, Language settings, Using web services, Publishing a course, Blogs, RSS feeds
9. Manage Moodle site, Managing authentication, Manual accounts, No login, Email-based self-registration, Account
10. Create Roles and permissions, Assign roles,
11. Implement Password salting.
12. Perform Site backup, Course backup, Course restore, Automated course backup.

RECOMMENDED BOOKS

1. <http://www.wpbeginner.com/beginners-guide/how-to-learn-wordpress-for-free-in-a-week-or-less/>
2. https://docs.moodle.org/22/en/Table_of_Contents
3. e-books/e-tools/relevant software to be used as recommended by AICTE/HSBTE/NITTTR.

RECOMMENDED WEBSITE

1. <http://swayam.gov.in>

INSTRUCTIONAL STRATEGY

Since the entire course content is web based, students can practice it online. The teachers should have practice on this framework. Entire course is hands-on based so practicals should be conducted in the laboratory.