

COVERAGE

Introduction to Web Application
HTML
CSS
Java Script
jQuery
Bootstrap
PHP
MySQL

Web Application Security
OOPS
PDO
Codeigniter
Laravel
Report Generation
Project

SYLLABUS IN DETAILS

1. Introduction to Web Application

- Website and Webpage
- Web Terminologies
- Web Application Architecture
- Introduction to PHP
- Develop and Execute First PHP Application

2. HTML

- Introduction to HTML
- Tags and Attributes
- Adding Image
- Hyperlink
- Table
- Form
- List
- Scrolling Text and Image
- Playing Audio and Video
- Tooltip, datalist

3. CSS

- Introduction to CSS
- Advantages and Disadvantages of CSS
- Types of CSS
 - Inline CSS
 - Internal CSS
 - External CSS
- Different Types of Selector
 - Class Selector
 - Id Selector
- Creating Template using CSS

4. JavaScript

- Introduction to JavaScript
- Advantages of JavaScript
- Types of JavaScript
 - Internal JavaScript
 - External JavaScript
- Working with User defined and Built-in Function
- Reading HTML Element in JavaScript
- Form Validation

5. jQuery

- Introduction to jQuery
- Advantages of jQuery
- jQuery Syntax
- jQuery Functions
- jQuery with HTML
- jQuery with CSS
- jQuery with AJAX
- jQuery with JSON

6. Bootstrap

- Introduction to Bootstrap
- Advantages of Bootstrap
- Grid
- Buttons
- Tables
- Images
- Form
- Tooltips, Modal, Templates

7. PHP

- Basics of PHP
- Conditional Statements
- Looping Statement
- Array
- String
- Functions
- HTML Form Processing
- File Uploading and Downloading
- Session Tracking Mechanism
 - URL-Rewriting
 - Hidden Form Fields
 - Cookies
 - Session Variable
- File Include Function
- PHP MySQL Integration
- CURD Application
- Pagination
- File Encryption Function
- htaccess file

8. MySQL

- Introduction to MySQL Database
- phpMyAdmin
- Introduction to SQL
- SQL Sublanguages (DDL, DML, DRL, TCL and DCL)
- Constraints

9. Web Application Security

- Cross Site Scripting
- Session Fixation
- SQL Injection
- Salt Hashing

10. OOPS

- Introduction to OOPS
- Class, Method and Objects
- Constructor vs. Destructor
- Inheritance
- Static Class Members
- Object Cloning
- Helper Function
- Abstract Class
- Access Specifier
- Interface
- Exception Handling

11. PDO

- Connect to Different Databases:
 - MySQL
 - Oracle
 - PostgreSQL
- CRUD Operation

12. Framework (Codeigniter)

- Introduction to MVC
- Different Types of Logic in PHP based Web Application
- MVC pattern Layer
 - Model
 - View
 - Controller
- Introduction to Codeigniter
- CRUD Operation
- Form Validation
- Page Redirection
- Security

13. Framework (Laravel)

- Introduction to Laravel
- Routing
- Controllers
- Views
- Cookie and Session
- Working with Database
- Forms

14. Report Generation

- PDF File
- Excel File
- CSV File

15. Project