**Advanced Web Programming**

**Unit 1**

**Introduction to PHP**

**History of PHP**

**Installing PHP**

**Basic syntax**

**PHP variables, constants**

**Data Types in PHP, Expressions**

**Scopes of variable (local, static, global)**

**PHP operators**

**PHP operator precedence and associativity**

**PHP conditional statements and loops: If Else conditional statements (Nested IF and Else)**

**Switch case, while, for, and do while loop**

**Jump statements: Break, Continue, and Exit**

**Unit 2**

**Arrays: Creating index-based and associative arrays, accessing array**

**Multidimensional arrays**

**Some useful library functions**

**Handling HTML form with PHP**

**Capturing Form Data**

**GET and POST form methods**

**Retrieving form data with $\_POST, $\_GET and $\_REQUEST arrays**

**Dealing with Multi-Value fields**

**Strings: Formatting, Joining, Splitting, Comparing Strings**

**Introduction to Regular Expressions**

**Session and Session Variables**

**Creating and Destroying Sessions**

**Cookies, using cookies with sessions**

**Unit 3**

**PHP Functions: function, declaration, and calling of a function.**

**PHP function with arguments**

**Default argument in functions**

**Function arguments with a call by value, call by reference.**

**Session management: session and session Variables, Creating and Destroying Sessions, Cookies, using cookies with sessions**

**Unit 4**

**Introduction to DBMS and MySQL**

**Creating MySQL database**

**Creating database tables**

**Connecting MySQL database with PHP**

**Implementing Insert, Delete, Update, and Select Queries.**