

GOVT. POLYTECHNIC, HAMIRPUR (H.P.)**Lesson Planning and Coverage****Branch:** Computer Engineering**Semester:** 5th**Subject:** Web Programming**Session:** Aug -Dec 2024**Teacher:** Ritesh Avasthi**Laboratory:** Yes

Sr. No.	No of Lectures	Chapter/Unit Description	Detailed contents	Reference Resources	Remarks
1	08	UNIT 1: Dynamic Websites	Review of HTML5, CSS and JavaScript; HTTP, HTTP Request, HTTP Response, Working of a Web Server, Static Websites, Dynamic Websites, Web Applications, Form Data Submission Methods - GET and POST, HTTP Sessions, HTTP Cookies.	R1,R2	
2	10	UNIT 2: Introduction to PHP	Origin of PHP, Advantages of PHP, Embedding PHP Code in Webpages, LAMP Stack, Install and Configure PHP Environment, PHP Syntax, Comments, Variables, Naming Variables, Variable Scope, Constants, echo statement, PHP Data Types, String Literals - Single and Double Quoted Strings, PHP Operators, PHP Control Statements, PHP Arrays.	R2	
3	08	UNIT 3: PHP Functions	PHP Standard Library Functions: String Functions - htmlspecialchars(), ltrim(), rtrim(), trim(), strtoupper(), strtolower(), explode(), implode(), strlen(), strcmp(), strpos(); Math Functions – sqrt(), ceil(), floor(), log(), pow(), sin(), cos(), tan(); User-defined Functions.	R3	
4	10	UNIT 4: PHP Form Processing	HTML Form Element, action and method Attributes, submit and clear Buttons, Form Elements, name and id attributes, Hidden Input, Client-side Form Validation, PHP Superglobals - \$_GLOBALS, \$_SERVER, \$_REQUEST, \$_POST, \$_GET, \$_FILES, \$_ENV, \$_COOKIE, \$_SESSION; Server-side Validation, Handling Uploaded Files.	R3,R4	
5	12	UNIT 5 Using MySQL Database with PHP	Basic Database Concepts - Database, Table, Column, keys & Constraints, Connecting PHP to MySQL, Executing Simple SQL Statements - INSERT, UPDATE, DELETE and SELECT, Retrieving and Processing Query Results, mysqli_real_escape_string()function, Handling MySQL errors.	R4	

References:

R1. Learning PHP, MySQL & JavaScript by Robin Nixon, O'Reilly Media.

R2. PHP and MySQL Web Development by Luke Welling and Laura Thomson, Addison-Wesley Books.

R3. <https://nptel.ac.in>R4. <https://www.w3schools.com> -**COURSE OUTCOMES:****After completing this course students will be able to:**

- CO-1 Analyze the basic structure of a web application.
- CO-2 Distinguish between static and dynamic websites.
- CO-3 Understand the components of the LAMP stack.
- CO-4 Develop dynamic websites using LAMP stack.

Signature of Teacher with Date**Signature of HOD**