

Training Syllabus (PHP)

Lecture wise

Foundation of 'C'

L.N.	Contents	Hours
1	1) Introduction of programming 2) Translator 3) Introduction of 'C' 4) History of 'C' 5) C tokens <ul style="list-style-type: none"> a. Keywords b. Identifiers c. Variables/Constant d. Data types e. Operators f. Function g. Header Files 	2
2	1) Decision making statements <ul style="list-style-type: none"> a. If <ul style="list-style-type: none"> i. Simple if ii. Else if iii. Nested if iv. Else if ladder b. Switch case c. Goto 2) Looping statements / Iterative statements <ul style="list-style-type: none"> a. While loop b. For loop c. Do while loop 	2
3	1) Array <ul style="list-style-type: none"> a. Single Dimensional Arrays b. Double Dimensional Arrays 2) String <ul style="list-style-type: none"> a. String Handling b. String Function 	2

4	<p>1) Function</p> <ul style="list-style-type: none"> a. Built in/Library Functions b. User Define Functions <ul style="list-style-type: none"> i. Declaring a function ii. Defining a function <ul style="list-style-type: none"> 1. No Return, No Parameter 2. Return, No Parameter 3. No Return, Parameter 4. Return, Parameter iii. Calling a function 	2
5	<p>1) Recursion</p> <p>2) Type Casting</p> <p>3) Scope of variable</p> <ul style="list-style-type: none"> a. Local variable b. Global variable <p>4) Storage Classes</p> <ul style="list-style-type: none"> a. Automatic b. Register c. Static d. External 	2
6	<p>1) Preprocessors</p> <ul style="list-style-type: none"> a. File inclusion (#include) b. Macro Expansion (#define) <p>2) Header files</p> <ul style="list-style-type: none"> a. Built in/Library header Files b. User Define header file <ul style="list-style-type: none"> i. Creating user define header file ii. Using user define header file 	2
7	<p>1) Problem Solving & Recovery Session</p> <p>2) Test</p>	2

Foundation of 'HTML & CSS'

L.N.	Content	Hours
8	<p>1) Introduction of Web pages</p> <p>2) Introduction of Websites</p> <p>3) Introduction of Web Browsers</p> <p>4) Introduction of HTML</p> <ul style="list-style-type: none"> a. What is Hypertext? b. What is Markup language 	2

	<p>5) History of HTML 6) How to use HTML to create web pages? 7) What is tag? 8) What is element? 9) HTML tag 10) Head tag</p> <ul style="list-style-type: none"> a. Title tag b. Style tag c. Script tag d. Noscript tag e. Link tag f. Meta tag g. Base tag <p>11) Body tag 12) Attributes</p>	
9	<p>1) Text Editing tags</p> <ul style="list-style-type: none"> a. H1, h2, h3, h4, h5, h6, p, pre, center, br, hr, b, strong, i, em, u, ins, s, strike, del, sup, sub, big, small <p>2) Lists</p> <ul style="list-style-type: none"> a. Ordered List (ol, li) b. Unordered list (ul, li) c. Definition list (dl, dt, dd) <p>3) Table (table, tr, th, td, thead, tbody, tfoot) 4) Marquee (marquee) 5) Image (img) 6) Hyperlink (a)</p>	2
10	<p>1) Form</p> <ul style="list-style-type: none"> a. input (type=text, number, date, email, password, url, range, button, submit, reset, radio, checkbox) b. textarea c. label d. fieldset e. legend f. select g. option h. optgroup i. button j. datalist 	2
11	<p>1) div 2) span 3) iframe 4) video 5) audio 6) Introduction of CSS</p>	2

	<p>7) Selectors 8) Properties & values 9) Text Styling Properties</p> <ul style="list-style-type: none"> a. Font-family b. Font-size c. Font-weight d. Text-decoration e. Text-transform f. Color g. Line-height h. Word-spacing i. Text-shadow j. Text-align 	
12	<p>1) Box Modal Properties</p> <ul style="list-style-type: none"> a. Width b. Height c. Padding d. Margin e. Border f. Box-shadow g. Border-radius h. Float i. Outline <p>2) Background</p> <ul style="list-style-type: none"> a. Background-color b. Background-image c. Background-repeat d. Background-size e. Background-position f. Background-attachment g. Background (rbga) <p>3) List (list-style-type, list-style-image)</p> <p>4) Table (border, border-collapse)</p>	2
13	<p>1) Position</p> <p>2) Z-index</p> <p>3) opacity</p> <p>4) Pseudo-classes</p> <ul style="list-style-type: none"> a. Hover b. Focus c. Active d. Visited e. Link f. Disabled g. Enabled 	2

	<ul style="list-style-type: none"> h. First-child i. Last-child j. Nth-child (odd,even,2n+1,1) <p>5) Designing a simple menu 6) Designing a menu have sub menu</p>	
14	<p>1) Designing a simple home page of a website 2) Designing a Registration page of a website 3) Designing a login page of a website</p>	2
15	<p>1) Problem Solving & Recovery Class 2) Test</p>	2

Foundation of 'JavaScript'

L.N.	Content	Hours
16	<p>1) Introduction of Scripting language 2) Difference between Client & Server Side Scripting 3) Introduction of JavaScript 4) JavaScript Tokens <ul style="list-style-type: none"> a. Keywords b. Identifiers c. Variables d. Data types e. Operators f. Variable declaration <p>5) Document object Modal 6) Write & writeln & message (alert) box 7) Events 8) DOM traversing</p> </p>	2
17	<p>1) Conditional Statements (if, else if, nested if, else if ladder) 2) Looping Statements (while, for, do while) 3) Arrays 4) Objects 5) Functions 6) Call function on events</p>	2
18	<p>1) Dialog boxes <ul style="list-style-type: none"> a. Alert Box b. Confirm Box c. Prompt Box <p>2) String Functions 3) Number Functions</p> </p>	2

	4) Math's Functions 5) Date Functions	
19	1) Creating a Simple Slider 2) Form validation using JavaScript (using regular expression)	2
20	1) Problem Solving & Recovery Class 2) Test	

Foundation of 'Database'

L.N.	Content	Hours
21	1) Introduction of database 2) Introduction of DBMS / RDBMS 3) Introduction of SQL (Structured Query Language) 4) Introduction of DDL commands 5) Introduction of DML commands 6) Introduction of DCL commands	2
22	1) Create Command <ul style="list-style-type: none"> a. Create Database b. Create table 2) Drop Command <ul style="list-style-type: none"> a. Drop database b. Drop table 3) Truncate Command <ul style="list-style-type: none"> a. Truncate table 4) Alter Command <ul style="list-style-type: none"> a. Modify table column b. Drop Table column c. Add new column into table 5) Insert Command <ul style="list-style-type: none"> a. Insert single record into table b. Insert multiple records into table 	2
23	1) Select Command <ul style="list-style-type: none"> a. Select all columns from table b. Select specific columns from table c. Select using where clause 2) Update Command <ul style="list-style-type: none"> a. Update all records of table 	2

	<ul style="list-style-type: none"> b. Update single record of table using where clause <p>3) Delete Command</p> <ul style="list-style-type: none"> a. Delete all records from table b. Delete single multiple records from table using where clause <p>4) Keys</p> <ul style="list-style-type: none"> a. Unique Key b. Primary Key c. Foreign key <p>5) Not Null</p> <p>6) Default</p> <p>7) Auto Increment</p>	
24	<p>1) AND & OR Operators</p> <p>2) Order By (Ascending or Descending Orders)</p> <p>3) Top or Limit</p> <p>4) Like</p> <p>5) Distinct</p> <p>6) Between</p> <p>7) Joins</p> <ul style="list-style-type: none"> a. Inner join b. Left Join c. Right Join d. Full Join 	2
25	<p>1) SQL Aggregate Functions</p> <ul style="list-style-type: none"> a. Avg() b. Count() c. Min() d. Max() e. Sum() f. Now() <p>2) Problem Solving & Recovery Class</p> <p>3) Test</p>	2

Foundation of 'PHP'

L.N.	Content	Hours

26	<ul style="list-style-type: none">1) Introduction of Scripting language2) Introduction of Server Side Scripting language3) Introduction of PHP4) Overview of PHP5) Installation of PHP6) Syntax7) Echo / Print8) Data types9) Variables10) Constant	2
27	<ul style="list-style-type: none">1) PHP operators<ul style="list-style-type: none">c. Arithmetic Operatorsd. Assignment Operatorse. Comparison Operatorsf. Logical Operatorsg. Concatenation Operators2) Decision Making Statements<ul style="list-style-type: none">a. If else statementb. Else if statementc. Switch case statement3) Looping Statement<ul style="list-style-type: none">a. While loopb. Do-while loopc. For loopd. Foreach loop	2

	<ul style="list-style-type: none"> 1) Strings 2) Function <ul style="list-style-type: none"> a. Defining a user define function b. Function with arguments c. Function with return type 3) Arrays <ul style="list-style-type: none"> a. Indexed arrays b. Associative arrays c. Single Dimensional arrays d. Double dimensional arrays e. Multi-dimensional arrays 4) Arrays Sorting <ul style="list-style-type: none"> a. Sort() b. Rsort() c. Asort() d. Ksort() e. Arsort() f. Krsort() 	
28	<ul style="list-style-type: none"> 1) Introduction of all Super global variables <ul style="list-style-type: none"> a. \$Global b. \$_SERVER c. \$_REQUEST d. \$_POST e. \$_GET f. \$_FILES g. \$_SESSION h. \$_COOKIE 2) Form Handling 3) Collect form data by \$_GET, \$_POST and \$_REQUEST 4) Implode & explode function 5) Submit all data of registration form with validation 	2
29		
30	<ul style="list-style-type: none"> 1) File Uploading with validation 2) Working with MySql 3) Connect to MySql with PHP using mysqli() 4) Execute insert/update/delete query using mysqli_query() 5) Execute select query using mysqli_query() 6) Show data in table from database 	2

31	1) User Registration 2) Save user registration data into MySql database 3) Show registered users data 4) Delete registered users 5) Edit registered users	2
32	1) Include & require functions 2) Sending Emails Using PHP Mailer 3) \$_SERVER (Web Concept) 4) Cookies 5) Sessions	2
33	1) Date & Time 2) PHP AJAX 3) File handling <ul style="list-style-type: none"> a. Opening/Creating a File b. Reading a File c. Writing a File d. Closing a File 	2
34	1) Server Side Form Validation 2) User Authentication (Login and Logout)	2
35	1) Problem Solving & Recovery Class 2) Test 3) Project Allotment 4) Divide Team & Project Coordinators	2
36-44	Project Development (Complete All Project Modules)	2
45	Project Testing & Submission	2