

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 <ol 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 <ol style="list-style-type: none"> a. If <ol 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 <ol style="list-style-type: none"> a. While loop b. For loop c. Do while loop 	2
3	1) Array <ol style="list-style-type: none"> a. Single Dimensional Arrays b. Double Dimensional Arrays 2) String <ol style="list-style-type: none"> a. String Handling b. String Function 	2

4	<ol style="list-style-type: none"> 1) Function <ol style="list-style-type: none"> a. Built in/Library Functions b. User Define Functions <ol style="list-style-type: none"> i. Declaring a function ii. Defining a function <ol 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	<ol style="list-style-type: none"> 1) Recursion 2) Type Casting 3) Scope of variable <ol style="list-style-type: none"> a. Local variable b. Global variable 4) Storage Classes <ol style="list-style-type: none"> a. Automatic b. Register c. Static d. External 	2
6	<ol style="list-style-type: none"> 1) Preprocessors <ol style="list-style-type: none"> a. File inclusion (#include) b. Macro Expansion (#define) 2) Header files <ol style="list-style-type: none"> a. Built in/Library header Files b. User Define header file <ol style="list-style-type: none"> i. Creating user define header file ii. Using user define header file 	2
7	<ol style="list-style-type: none"> 1) Problem Solving & Recovery Session 2) Test 	2

Foundation of 'HTML & CSS'

L.N.	Content	Hours
8	<ol style="list-style-type: none"> 1) Introduction of Web pages 2) Introduction of Websites 3) Introduction of Web Browsers 4) Introduction of HTML <ol 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 a. Title tag b. Style tag c. Script tag d. Noscript tag e. Link tag f. Meta tag g. Base tag 11) Body tag 12) Attributes</p>	
9	<p>1) Text Editing tags 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 2) Lists a. Ordered List (ol, li) b. Unordered list (ul, li) c. Definition list (dl, dt, dd) 3) Table (table, tr, th, td, thead, tbody, tfoot) 4) Marquee (marquee) 5) Image (img) 6) Hyperlink (a)</p>	2
10	<p>1) Form 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</p>	2
11	<p>1) div 2) span 3) iframe 4) video 5) audio 6) Introduction of CSS</p>	2

	<ul style="list-style-type: none"> 7) Selectors 8) Properties & values 9) Text Styling Properties <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	<ul style="list-style-type: none"> 1) Box Modal Properties <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 2) Background <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) 3) List (list-style-type, list-style-image) 4) Table (border, border-collapse) 	2
13	<ul style="list-style-type: none"> 1) Position 2) Z-index 3) opacity 4) Pseudo-classes <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) 5) Designing a simple menu 6) Designing a menu have sub menu	
14	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	2
15	1) Problem Solving & Recovery Class 2) Test	2

Foundation of 'JavaScript'

L.N.	Content	Hours
16	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 5) Document object Modal 6) Write & writeln & message (alert) box 7) Events 8) DOM traversing	2
17	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	2
18	1) Dialog boxes <ul style="list-style-type: none"> a. Alert Box b. Confirm Box c. Prompt Box 2) String Functions 3) Number Functions	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 a. Create Database b. Create table 2) Drop Command a. Drop database b. Drop table 3) Truncate Command a. Truncate table 4) Alter Command a. Modify table column b. Drop Table column c. Add new column into table 5) Insert Command a. Insert single record into table b. Insert multiple records into table	2
23	1) Select Command a. Select all columns from table b. Select specific columns from table c. Select using where clause 2) Update Command a. Update all records of table	2

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

Foundation of 'PHP'

L.N.	Content	Hours
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26	<ol 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	<ol style="list-style-type: none">1) PHP operators<ol style="list-style-type: none">c. Arithmetic Operatorsd. Assignment Operatorse. Comparison Operatorsf. Logical Operatorsg. Concatenation Operators2) Decision Making Statements<ol style="list-style-type: none">a. If else statementb. Else if statementc. Switch case statement3) Looping Statement<ol style="list-style-type: none">a. While loopb. Do-while loopc. For loopd. Foreach loop	2

28	<ol style="list-style-type: none"> 1) Strings 2) Function <ol style="list-style-type: none"> a. Defining a user define function b. Function with arguments c. Function with return type 3) Arrays <ol 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 <ol style="list-style-type: none"> a. Sort() b. Rsort() c. Asort() d. Ksort() e. Arsort() f. Krsort() 	2
29	<ol style="list-style-type: none"> 1) Introduction of all Super global variables <ol 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
30	<ol 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1) Include & require functions 2) Sending Emails Using PHP Mailer 3) \$_SERVER (Web Concept) 4) Cookies 5) Sessions 	2
33	<ol style="list-style-type: none"> 1) Date & Time 2) PHP AJAX 3) File handling <ol style="list-style-type: none"> a. Opening/Creating a File b. Reading a File c. Writing a File d. Closing a File 	2
34	<ol style="list-style-type: none"> 1) Server Side Form Validation 2) User Authentication (Login and Logout) 	2
35	<ol style="list-style-type: none"> 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