

Module Presenter's Manual

for

Web Application Development using PHP

Effective From: April 2017

Ver. 1.0

Amendment Record

Version No.	Effective Date	Change	Replaced Pages
1.0	April 2017	New	-

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1. Introduction

At the end of this course, students will be able to:

- Understand the need and history of PHP
- Configure PHP 7
- Learn the new features of PHP 7
- Use Form Handling in PHP
- Use Variables and Expressions in PHP
- Use various types of operators in PHP
- > Use conditional and flow control statements in PHP
- Use functions in PHP
- Create and use arrays in PHP
- Describe usage of scalar type declarations in PHP programs
- > Describe usage of anonymous classes in PHP programs.
- > Implement database management in PHP
- Use cookies in PHP
- > Perform session management in PHP
- Manage e-mails using PHP
- Explain OOPS concepts
- > Explain generators and generator return expressions
- ➤ Configure PHP 7.0.4
- > Explain exception handling and changes in exceptions in PHP 7

2. Information on Session Allocation

	Module	Online (No. of Hrs)
PHP		36

Throughout this Presenter's Manual, the module *Web Application Development using PHP* will be referred to as **PHP**.

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3. Session Deliverables

To aid the teaching process, following are the deliverables

(Faculties can access eBooks and other components in Onlinevarsity through Aptrack.)

Resources available on Onlinevarsity:

Icons	Feature - Description / Functionality		
Learner's Guide	Download eBook - Student has the option to download the subject related e-book and read offline		
Glossary)	Glossary - Student can access a list of subject related specialized words with their definitions.		
	FAQ - Student can access frequently asked questions and their answers		
	Practice 4 Me - Student can test and evaluate their understanding of module related topics.		
The base of the control of the contr	Work Assignments - Student can solve scenario based lab assignments (Hands-on). The faculty will evaluate and give their feedbacks.		
	References - Student can access additional subject related material for reading.		
FEEDBACK	Feedback - Student can provide feedback on the course material		
Auk follower	Ask to Learn – Student can submit subject related technical queries. Queries submitted will be directed to the particular course coordinator/head.		

4. Week-wise Session Schedule

• A Session has duration of 2 hours

Week-Wise Schedule

Week	Day 1	Day 2	Day 3	Day 4
1	Session 1	Session 2	Session 3	Session 4
	PHP - TL1	PHP -TL2	PHP - TL3	PHP - TL4
2	Session 5	Session 6	Session 7	Session 8
	PHP - TL5	PHP - TL6	PHP – TL7	PHP - TL8
3	Session 9	Session 10	Session 11	Session 12
	PHP - TL9	PHP – TL10	PHP – TL11	PHP - TL12
4	Session 13	Session 14	Session 15	Session 16
	PHP – TL13	PHP – TL14	PHP - TL15	PHP – TL16
5	Session 17 PHP – TL17	Session 18 PHP – TL18		7

PHP: Web Application Development using PHP

TL: Online Session

5. Session Coverage

Session	Session Title	Session Details	Deliverables'
No.			Mapping
1	PHP – TL1	All the topics as listed below from Session 1 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 1 - Introduction to PHP	SG - Session 1 XP - Session 1
		> Explain the history of PHP.	TG - Session 1
		Identify the need for PHP.	
		Explain PHP tools and setup.	
		Explain a simple PHP script.	
		Explain User Input/Output (I/O).	
		Explain the use of PHP to generate HTTP headers.	
		 Describe passing of variables using Universal Resource Locator (URL). 	
2	PHP – TL2	All the topics as listed below from Session 2 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 2 - Installing and Configuring PHP 7.0.4	SG - Session 2 XP - Session 2 TG - Session 2
		 Learn the pre-requisites for installing PHP7.0.4 	
		> Install PHP 7.0.4 on your system	
	*	Configure PHP 7.0.4	
3	PHP - TL3	All the topics as listed below from Session 3 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
	•	Book should be covered in time session.	
(,0)		Session 3 - New features of PHP 7.0.4	SG - Session 3 XP - Session 3 TG - Session 3
		Explain the intdiv() function.	
		Explain spaceship operator.	
		Explain null coalescing operator.	
		Describe Scalar Type Declarations.	
		Explain Uniform Variable Syntax in PHP programs.	
		Describe use operator.	
		Explain closure call methods in the	

Session	Session		Deliverables'
No.	Title	Session Details	Mapping
		PHP programs.	
		Explain Generator delegation via yield from.	
		Explain Levels parameter of the dirname() function.	
4	PHP – TL4	All the topics as listed below from Session 4 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 4 – Form Handling in PHP	SG - Session 4 XP - Session 4
		Explain the use of the GET method.Explain the use of the POST method.	TG - Session 4
		Retrieve data from forms using the Form methods.	
		Explain the use of hidden fields.	
5	PHP – TL5	All the topics as listed below from Session 5 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 5 - Using Variables and Expressions in PHP	SG - Session 5 XP - Session 5 TG - Session 5
		Explain the use of identifiers.Explain the data types in PHP.	
		 Explain the use of variables and constants. 	
		Explain the scope of variables in PHP.	
		Explain the use of HTTP environment variables.	
6	PHP – TL6	All the topics as listed below from Session 7 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 7 - Scalar Type Declarations	SG - Session 7 XP - Session 7
		> Explain scalar type declarations.	TG - Session 7
		Describe usage of scalar type declarations in PHP programs.	
		Explain scalar type hinting.	
		Explain anonymous classes.	
		Describe usage of anonymous classes	

Session	Session	Session Details	Deliverables'
No.	Title		Mapping
		in PHP programs.	
7	PHP – TL7	All the topics as listed below from Session 8 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 8 - PHP Operators	SG - Session 8
		Explain the use of arithmetic operators.	XP - Session 8 TG - Session 8
		Explain the use of logical operators.	
		Explain the use of relational operators.	
		Explain the use of bitwise operators.	
		Explain the use of assignment operators.	
		Explain the use of string operators.	
		 Explain the use of increment and decrement operators. 	
		Explain the use of conditional or ternary operators.	
		> Explain the precedence of operators.	
8	PHP – TL8	All the topics as listed below from Session 10 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 10 - Conditional Statements	SG - Session 10
		<u>in PHP</u>	XP - Session 10 TG - Session 10
		Explain the use of the if statement.	
		Explain the use of the switch statement.	
(·O		Explain the use of the ternary (?) operator.	
9	PHP – TL9	All the topics as listed below from Session 12 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 12 - Flow Control in PHP	SG - Session 12 XP - Session 12
		> Explain the use of loops.	TG - Session 12
		Explain the use of jump statements.	

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Session No.	Session Title	Session Details	Deliverables' Mapping
NO.	Title		Маррінд
10	PHP -	All the topics as listed below from Session	Programming
	TL10	14 of <i>Programming for the Web with PHP</i> book should be covered in this session.	for the Web with PHP
		Session 14 - Functions in PHP	SG - Session 14 XP - Session 14
		> Explain functions in PHP.	TG - Session 14
		Describe the built-in functions in PHP.	
		Explain the process of creating a user-defined function.	0
		Explain the process of passing arguments to a function.	
		 Explain the process of returning values from a function. 	
		Explain the use of recursive functions.	
11	PHP – TL11	All the topics as listed below from Session 16 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 16 - Working with Arrays	SG - Session 16
			XP - Session 16 TG - Session 16
		Define an array.Explain the use of arrays.	10 - 36351011 10
		Explain the use of arrays.Explain the process of merging	
		arrays.	
	0	Explain the use of single and multi- dimensional arrays.	
	DY	Explain the use of array-related functions.	
12	PHP -	All the topics as listed below from Session	Programming
(-0	TL12	18 of <i>Programming for the Web with PHP</i> book should be covered in this session.	for the Web with PHP
		Session 18 - Handling Databases	SG - Session 18
		with PHP	XP - Session 18 TG - Session 18
		Describe Database APIs.	
		Explain the process of connecting to a database.	
		Explain the use of data access functions.	

Session	Cassian		Deliverables'
No.	Session Title	Session Details	Mapping
		Explain SQL queries using PHP.	
		Explain HTML tables using SQL	
		queries.	
13	PHP -	All the topics as listed below from Session	Programming
	TL13	19 of <i>Programming for the Web with PHP</i> book should be covered in this session.	for the Web with
		book should be covered in this session.	PHP
		Session 19 - Working with Cookies	SG - Session 19
		Describe the process of setting a	XP - Session 19 TG - Session 19
		cookie.	
		Explain the process of retrieving a cookie in PHP.	
		Explain the process to delete a cookie.	
		Identify the drawbacks associated with cookies.	
		*	
14	PHP – TL14	All the topics as listed below from Session 21 of <i>Programming for the Web with PHP</i>	Programming for the Web with
		book should be covered in this session.	PHP
		Session 21 - Session Management in	SG - Session 21
		PHP	XP - Session 21
			TG - Session 21
		> Define a session.	
		Explain the procedure to work with a session.	
	Ó	 Describe the methods to start a session. 	
		 Explain the method to register a session. 	
		> Describe the method to end a session.	
/,0		Explain the use of the php.ini file.	
15	PHP -	All the topics as listed below from Session	Programming
	TL15	22 of <i>Programming for the Web with PHP</i> book should be covered in this session.	for the Web with PHP
		Session 22 - Handling E-mail with	SG - Session 22
		PHP	XP - Session 22 TG - Session 22
		Describe the process of sending an e- mail using PHP.	
		Explain the process of attaching files	

Session No.	Session Title	Session Details	Deliverables' Mapping
		with an e-mail using PHP.	
16	PHP – TL16	All the topics as listed below from Session 24 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 24 - OOP Concepts Explain the OOP concepts	SG - Session 24 XP - Session 24 TG - Session 24
		Explain the OOP concepts.Explain inheritance.	
		Explain the use of classes.	
		Describe the use of constructors.	
		Explain the use of objects.	\odot
17	PHP – TL17	All the topics as listed below from Session 26 of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
		Session 26 - Generator Delegation and Throwable Interface	SG - Session 26 XP - Session 26 TG - Session 26
		 Explain generators and generator return expressions. 	
		Describe Generator Delegation.	
		 Explain exception handling and changes in exceptions in PHP 7 	
		Explain the use of E_ERROR and E_RECOVERABLE_ERROR	
	X	> Explain the Throwable Interface	
18	PHP - TL18	All topics from Session 23 (Lab) and Session 25 (Lab) of <i>Programming for the Web with PHP</i> book should be covered in this session.	Programming for the Web with PHP
/.O			SG - Session 23 & 25

6. Library References

- > Learning PHP by David Sklar
- > PHP 7 Programming Cookbook by Doug Bierer
- Modular Programming with PHP 7 by Ajzele, Branko

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