



	CO2	3	3	2	3	1	-	1	1
	CO3	2	3	2	3	1	1	1	1
	CO4	2	3	3	3	2	2	1	2

### Content:

Unit	Section-I	Hrs
1	<b>Introduction to PHP</b> PHP features, Data types, Control statement, Loop, PHP Arrays, PHP Form Handling, Include Function, Require Function, calling user define function.	5
2	<b>Advanced PHP</b> PHP OOP, Classes/Objects, Constructor, Destructor, Access Modifiers, Inheritance, Constants, Abstract Classes, Interfaces, Traits, Static Methods, Static Properties, Namespaces, Iterables PHP File handling functions, Session and Cookies function, PHP with Ajax, Exception, File Upload	10

### Section-II

3	<b>PHP and MySQL Database</b> connection with MySQL Database, performing basic database operation (DML) (Insert, Delete, Update, Select) using PDO	5
4	<b>Laravel MVC Framework</b> Introduction to MVC Framework, Introduction to Laravel, Laravel Installation process, Application structure, Configuration, Middleware, Controllers, Creating HTML forms and validations in Laravel, working with database in Laravel, Understanding CRUD operations	10

### Practical Content:

List of programs specified by the subject teacher based on above mentioned topics.

### Text Books:

1	PHP 6 and MySQL Bible by Tim Converse and Joyce Park ,Wiley (1 January 2009).
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### Reference Books:

1	Beginning PHP6, Apache, MySql web Development, by Timothy Boronczyk, Elizabeth Naramore. wrox publication,Wiley (1 January 2009).
2	Beginning PHP and MySQL, by W. Jason Gilmore, Apress,2nd edition (1 January 2006).
3	The Complete Reference PHP, by Steven Holzner, McGraw Hill Education; Raunak php study edition (1 July 2017).

### MOOC/Certification Courses:

1	<a href="https://in.coursera.org/learn/web-applications-php">https://in.coursera.org/learn/web-applications-php</a>
2	<a href="https://www.udemy.com/course/php-mysql-tutorial/">https://www.udemy.com/course/php-mysql-tutorial/</a>
3	<a href="https://www.w3schools.com/php/">https://www.w3schools.com/php/</a>
4.	<a href="https://www.mygreatlearning.com/academy/learn-for-free/courses/php">https://www.mygreatlearning.com/academy/learn-for-free/courses/php</a>

### Question Paper Scheme:

#### University Examination Duration: 3 Hours

Note for Examiner: -

(I) Questions 1 and 4 are compulsory with no options.

(II) Internal options should be given in questions 2, 3, 5 and 6.

#### SECTION – I

Q.1 –8 Marks

Q.2 –11 Marks

Q.3 –11 Marks

**SECTION - II**

Q.4 –8 Marks

Q.5 –11 Marks

Q.6 –11 Marks