# G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
**Accredited by NAAC with A+ Grade**
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# Department of  Science & Technology
# Syllabus

# MCA Semester-I
# Syllabus

## MCAL103/MCAP103: PHP

| Teaching Scheme | | | | Credits | Continuous Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Theory | | | Practical | | Total |
| Th. | Tu | Pr. | Total Hours | | TAE | CAE | ESE | Int | Ext | |
| 3 | - | 2 | 9 | 5 | 20 | 30 | 50 | 25 | 25 | 150 |

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| **Course Objectives** | 1. Gain the PHP programming skills needed to successfully build interactive, data driven sites |
| | 2. Use the MVC pattern to organize code |
| | 3. Test and debug a PHP application |
| | 4. Work with form data, regular expressions, handle exceptions, and validate data, MYSQL and Database |
| **Course Outcomes** | 1. Understand basic PHP syntax for variable use and standard language constructs, such as conditionals and loops. |
| | 2. Understand the syntax and working with concept different concepts of functions |
| | 3.  Understand the paradigm for dealing with form-based data, both from the syntax of HTML forms, and how they are accessed inside a PHP-based script. |
| | 4. Understand  to deal with Error handling ,file type processing and state management as well as processing images. |
| | 5. Developing and understanding the working MYSQL and Database connectivity |

**Course Contents:**

| Unit | Contents | Hours |
|------|----------|-------|
| I | **INTRODUCTION TO PHP:** History of PHP, Apache Web Server, MySQL and Open Source, Relationship between Apache, MySQL and PHP (AMP Module), PHP configuration in IIS, Apache Web server BASICS OF PHP: PHP structure and syntax, Creating the PHP pages, Rules of PHP syntax, Integrating HTML with PHP, Constants, Variables : static and global variable, Conditional Structure & Looping, PHP Operators, Arrays, for each constructs, User defined function, argument function, Variable function, Return Function, default argument, variable length argument. | 12 |
| II | **WORKING WITH FUNCTIONS:** Variable Function, String Function, Math Function, Date Function, Array Function, and File Function. User defined function, Systems defined function, Parameterized function, Non parameterized function, Dynamic parameter in function, Variable scope, Passing Argument in function, Static function. | 10 |
| III | **WORKING WITH DATA:** FORM element, INPUT elements, Processing the form, User Input, Adding items, Validating the user input, Passing variables between pages. Files, Creating and deleting file, Reading and writing file, Working with file, Creating and deleting folder, Working with regular Expression Basic regular expression, Matching patterns, Finding match, Replace match. | 10 |
| IV | **ERROR HANDLING:** Error types in PHP, Generating PHP errors, Exceptions, Parse errors, State Management: - Cookies Session, Destroying cookies and session Http management, Sent mail Images with PHP: Working with GD Library, File types with GD and PHP, Compiling PHP with GD, Creating the image table, uploading the image. | 08 |
| V | **INTRODUCTION TO MYSQL:** MySQL structure and syntax, Types of MySQL tables and storages engines, MySQL commands, Integration of PHP with MySQL, Connection to the MySQL server, Working with PHP and arrays of data, Referencing two tables, Joining two tables. WORKING WITH DATABASE: Creating a table, manipulating the table, editing the database, inserting a record, deleting a record, editing data Understand process of executing a PHP-based script on a webserver. | 12 |

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| **Text Books** | 1. Beginning PHP, Apache, MySQL Web Development - Elizabeth Naramore, Jason Gerner, Yann Le, Scouarnec, Jeremy Stolz, Michael K. Glass, Gary Mailer - By Wrox Publication |
| | 2. PHP, MySQL and Apache - Julie C. Melone By Pearson Education |
| **Reference Books** | 1. Beginning PHP 5.3, by Matt Doyle - By Wrox Publication |
| | 2. PHP and MySQL Bible – Tim Converse and Joyce Park with Clark Morgam By Wiley INDIA |
| **On-line TL Material** | |

| Sr. No. | Name of Experiments |
|---|---|
| 1. | Write a program using Conditional Structure. |
| 2. | Write a program using array which accepts five values and print the values. |
| 3. | Write a program using Looping Structure with concept of Functions |
| 4. | Write a program in PHP for type casting of a variable |
| 5. | Write a program in PHP to display Multiplication Table using nested for loop |
| 6. | Write a program In PHP to Sort an array using Bubble Sort function |
| 7. | Design the personal information form ,submit and retrieve the form data using php $_POST,$_GET,$ REQUEST variable |
| 8. | Study of Cookies and Session In PHP |
| 9. | Study Of Mysql DDL,DML,DCL Commands |
| 10. | Design Login Form and Validate that form using PHP Code |
| 11. | Write a PHP code to create database & table in Mysql |
| 12. | Write a PHP code to insert ,delete,select the data from database |
| 13. | Design a from which upload & Display image in PHP |
| 14. | Write a PHP Code to make database connection, Create Data Base, Create Table In Mysql |
| 15. | Write a PHP code Insert, Delete, Update, Select the Data From Data Base |