

SHRI MAHAVEER COLLEGE, JAIPUR

Name of faculty	Dr. NEHA AGARWAL
Class- II Year	B.C.A – IInd Year
Course Code	BCA-A02
Course Name	PHP PROGRAMMING
Session	2023-24

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

Vision & Mission of Shri Mahaveer College

Vision

To be a globally competent learning and research centre for the contemporary holistic development of young minds to make them industry-fit and job-creators by providing quality education in varied disciplines with modern insights and ethical values.

Mission

- To empower our students to achieve global excellence in varied disciplines and carve a niche on global horizon.
- To foster holistic development of our students to develop professionalism and globally competent skill-set.
- To encourage and support our students to develop innovative thinking for contributing towards a progressive ethical contemporary society.

Vision & Mission of Department of Computer Science

Vision

To promote students by imparting knowledge, relevant practice and inculcating Human values to transform students as potential resources into globally Competent professionals and expertise in software development and aptitude for research and ethical values.

Mission

- To provide high standard value-based education in all aspects of computer science through state-of-the-art infrastructure and innovative approach.
- To inculcate the habit of students to focus on sustainable solutions to improve the quality of life and welfare of society.
- To enhance the fabric of research in computing through collaborative relationships with industry and academia.

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1: Graduates will work productively as skillful engineers playing the leading roles in multifaceted teams

PEO2: Graduates will identify the solutions for challenging issues inspiring the upcoming generations leading them towards innovative, creative, and sophisticated technologies.

PEO3: Graduates will implement their pioneering ideas practically to create products and the feasible solutions of research oriented problems

PROGRAM OUTCOMES (POs)

PO1: Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity.

PO2: Problem Solving: Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.

PO3: Difficulty Analysis: Talent to classify, significantly evaluate and prepare complex computing problems using fundamentals of computer knowledge and request domains.

PO4: Design and Development of Solutions: Ability to design and development of algorithmic solutions to real/world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.

PO5: Accomplish Investigations of Compound Computing Troubles: Ability to invent and ways experiments interpret data and present well up to date conclusions.

PO6: Application Systems Knowledge: Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.

PO7: Modern Tool Usage: Identify, select and use a modern scientific and IT tool or technique for modeling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based application software.

PO8: Mission Administration: Skill to recognize administration and Computing philosophy with computing acquaintance to supervise projects in multidisciplinary environments.

PO9: Communication: Must have a reasonably good communication knowledge both in oral and writing.

PO10: Ethics on Professional, Environment and Society: Exhibiting professional ethics to maintain the integrity in a working environment and also have concern on societal impacts due to computer-based solutions for problems.

PO11: Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1:Develop proficiency in problem solving and logical thinking skill in computer science.

PSO2:Appraise in-depth expertise and learning the knowledge of programming languages, web designing, networking and Software development cycle.

**SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE**

MAPPING OF KEY PHRASES OF THE INSTITUTES MISSION STATEMENT WITH THE KEY PHRASES OF INSTITUTES VISION STATEMENT

(Institution Mission Vs Institute Vision)

Key Phrases of the Mission Statement of the Institute	Key Phrases of the Vision Statement of the Institute		
	Pending	Pending	Pending
Pending	3		3
Pending		1	3
Pending	2		2

MAPPING OF KEY PHRASES OF THE DEPARTMENTS VISION STATEMENT WITH THE KEY PHRASES OF INSTITUTES MISSION STATEMENT

(Department Vision Vs Institution Mission)

Key Phrases of the Vision Statement of the Department	Key Phrases of the Mission Statement of the Institute		
	Pending	Pending	Pending

Pending	3	2	1
Pending	2	2	1
	2	1	

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

**MAPPING OF KEY PHRASES OF THE DEPARTMENTS MISSION STATEMENT WITH THE
KEY PHRASES OF DEPARTMENTS VISION STATEMENT**
(Department Mission Vs Department Vision)

Key Phrases of the Mission Statement of the Department	Key Phrases of the Vision Statement of the Department		
	Pending	Pending	Pending
Pending	3		2
Pending	2		2
Pending	1	2	1

**MAPPING OF KEY PHRASES PEOS WITH KEY PHRASES OF DEPARTMENTS MISSION
STATEMENT**
(PEO Vs Department Mission)

Key Phrases of PEO Statements	Key Phrases of the Mission of the Department		
	Pending	Pending	Pending
Pending	3	2	
Pending	3		1
Pending	2	2	

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

MAPPING OF KEY PHRASES OF PSO WITH KEY PHRASES OF DEPARTMENTS MISSION STATEMENT
(PSO Vs Department Mission)

Key Phrases of PSO Statement	Key Phrases of the Mission Department		
	Pending	Pending	Pending
Pending	3	2	
Pending	1	2	2
Pending	2		

MAPPING OF KEY PHRASES OF PEO WITH KEY PHRASES OF PO
(PEO Vs PO)

Key Phrases of PEO Statement	Key Phrases of PO Statement										
	Discipline knowledge:	Problem Solving:	Difficulty Analysis:	Design and Development of Solutions:	Accomplish Investigations of Compound Computing Troubles:	Application Systems Knowledge:	Modern Tool Usage:	Mission Administration:	Communication:	Ethics on Profession, Environment and Society:	Motivation to take up Higher Studies:
Pending	3	3	3	3	2		1	1	2	2	1

Pending		3	2	2		1	1	1				
Pending	2	1	1	2	2			1	1	2	1	

**SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE**

**MAPPING OF KEY PHRASES OF PSO WITH KEY PHRASES PEO
(PSO Vs PEO)**

Key Phrases of the PEO Department	Key Phrases of the PSO Department		
	Pending	Pending	Pending
Pending	3	2	2
Pending	2	2	2
Pending		1	2

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

Course: B.C.A	Year/Section: 2nd	Date:
Name of Faculty: Neha Agarwal	Name of Subject : PHP Programming	Code: BCA-A02

COURSE OUTCOMES

After completion of course

CO1: Understanding client side & server side scripting

CO2: Utilizing the basic concept of statements and arrays.

CO3: Understanding Regular expression & Functions

CO4: Implement browser handling power of PHP & Exceptions

CO5: Imparting Database applications, File handling, Cookies in the webpage

MAPPING OF CO WITH PO AND PSO

	After completion of course,	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding client side & server side scripting	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CO2	Utilizing the basic concept of statements and arrays.	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
CO3	Understanding Regular expression & Functions	-	-	2	-	-	-	-	-	-	-	-	-	2	-	-
CO4	Implement browser handling power of PHP & Exceptions	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-

PO Strongly Mapped:

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO Moderately Mapped:

PO2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3:Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PSO Moderately Mapped:

PSO-1:The ability to understand and apply knowledge of mathematics, system analysis & design, Data Modelling, Cloud Technology, and latest tools to develop computer-based solutions in the areas of system software, Multimedia, Web Applications, Big data analytics, IOT, Business Intelligence and Networking systems.

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

Assignments: CO-ATTAINMENT LEVELS

Course Category	Level 3	Level 2	Level 1
A	60 % of students getting > 60% marks	50-60 % of students getting > 60% marks	40-50 % of students getting > 60% marks

END-TERM Rajasthan University COMPONENT: CO-ATTAINMENT LEVELS

Course Category	Level 3	Level 2	Level 1
A	50 % of students getting > 60% marks	40-50 % of students getting > 60% marks	30-40 % of students getting > 60% marks

CO ATTAINMENT LEVELS FOR THEORY OF COMPUTATION

S. No.	Course Type	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	Theory Courses Mid Semester Exams	40-50 % of students getting > 60% marks	50-60 % of students getting > 60% marks	60 % of students getting > 60% marks
2	Theory Courses University Exam	30-40 % of students getting > 60% marks	40-50 % of students getting > 60% marks	50 % of students getting > 60% marks
3	Assignments/Unit Test	40-50 % of students getting > 60% marks	50-60 % of students getting > 60% marks	60 % of students getting > 60% marks

CO WISE ASSESSMENT ACTIVITIES (AS MENTIONED IN SESSION PLAN)

CO	Activities			
	Class Test	Assignment	Mid 1	Mid 2
CO1	Yes	Yes	Yes	Yes
CO2	Yes	Yes	Yes	Yes
CO3	Yes	Yes	Yes	Yes
CO4	Yes	Yes	Yes	Yes

CO-PO/PSO MAPPING AND TARGETS

CO	PO												Avg.	PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	CO Targets	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-
CO2	-	2	-	-	-	-	-	-	-	-	-	-	2	2	-	-
CO3	-	-	2	-	-	-	-	-	-	-	-	-	2	2	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	2	2	-	-

SHRI MAHA VEER COLLEGE

Name of faculty	Dr. NEHA AGARWAL
Class- II Year	B.C.A – IInd Year
Course Code	BCA-A02
Course Name	PHP PROGRAMMING
Session	2023-24

COURSE OUTCOMES

After completion of course

CO1: Understanding client side & server side scripting

CO2: Utilizing the basic concept of statements and arrays.

CO3: Understanding Regular expression & Functions

CO4: Implement browser handling power of PHP & Exceptions

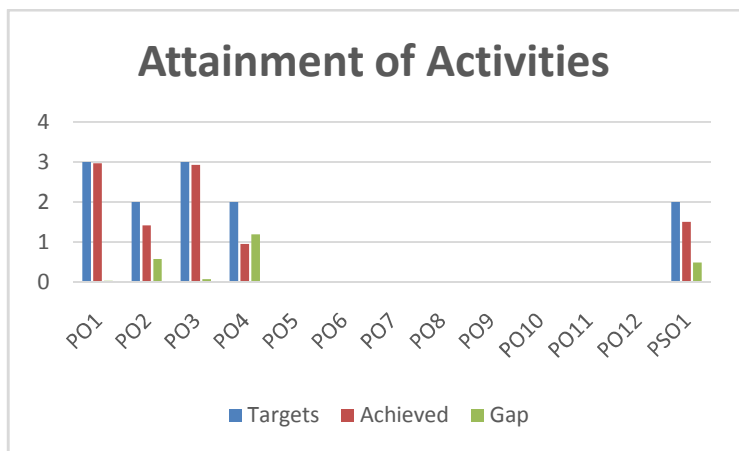
CO5: Imparting Database applications, File handling, Cookies in the webpage

CO-PO/PSO MAPPING AND TARGETS

	After completion of course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	Understanding client side & server side scripting	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CO2	Utilizing the basic concept of statements and arrays	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-
CO3	Understanding Regular expression & Functions	-	-	2	-	-	-	-	-	-	-	-	-	2	-	-
CO4	Implement browser handling power of PHP & Exceptions	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-

Attainment of PO through CO(MIDTERM-I) Component															
3CS4-06	P												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets	3	2	3	2	-	-	-	-	-	-	-	-	2		
Achieve	2.97	1.42	2.93	0.95	-	-	-	-	-	-	-	-	1.5		
Gap	0.03	0.58	0.07	1.19	-	-	-	-	-	-	-	-	0.49		
Attainment of PO through CO(RTU) Component															
3CS4-06	P												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets															
Achieve															
Gap															

Attainment & Gap of Overall PO Session 2021-22															
3CS4-	P												PS		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Targets	3	2	3	2									2		
Achieve	2.97	1.32	2.93	0.95									1.36		
Gap	0.03	0.68	0.07	1.04									0.64		

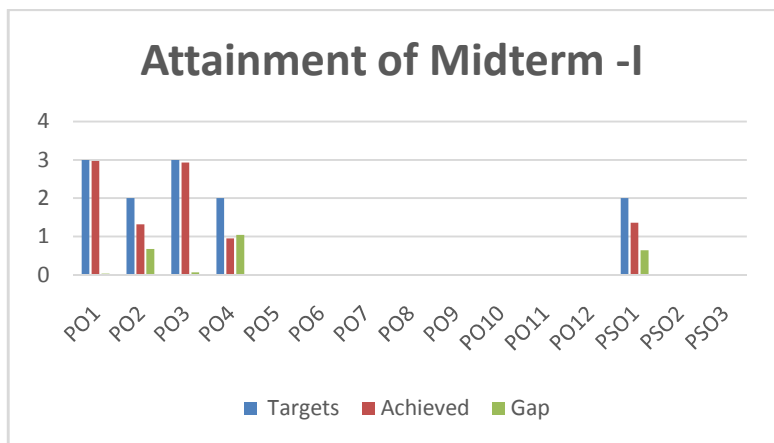


Gaps Identified:
Describe what the reasons for gaps are

1. Observed the mistakes in the assignment

Activities decided to bridge the gap

1. Discussed assignment in class

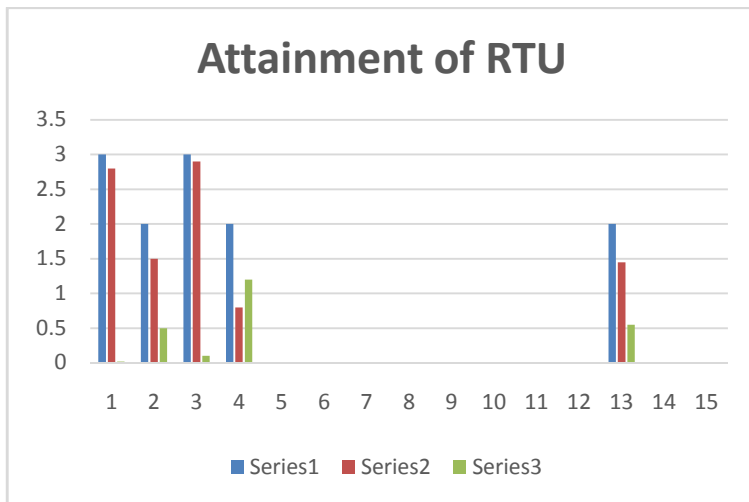


Gaps Identified:
Describe what the reasons for gaps are

1. some concepts are weak

Activities decided to bridge the gap

1. Took the extra classes
2. Discuss the problems in class

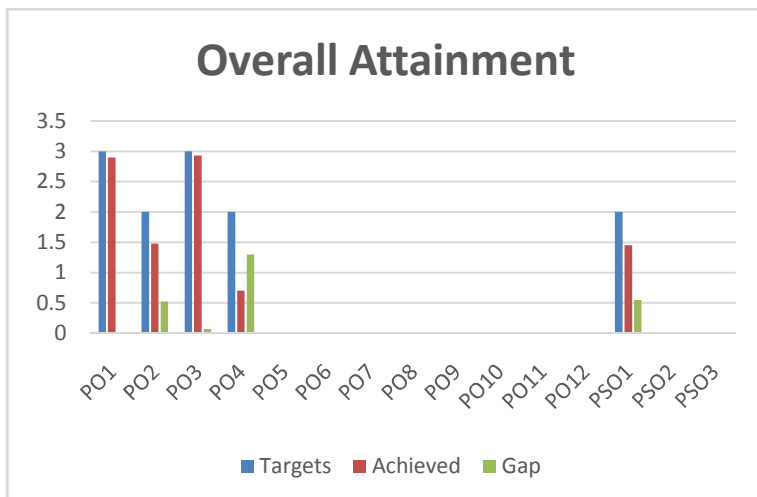


Gaps Identified:
Describe what the reasons for gaps are

1. Minor gap identified

Activities decided to bridge the gap

1. After taking extra classes or solve the problems of the students all major gaps are rectified.



Gaps Identified:
Describe what the reasons for gaps are

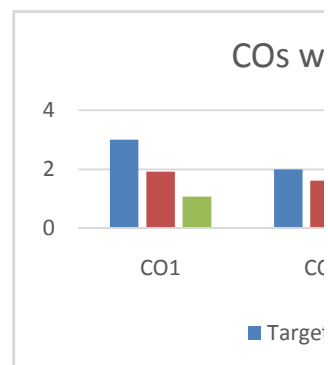
1. Minor gap identified

Activities decided to bridge the gap

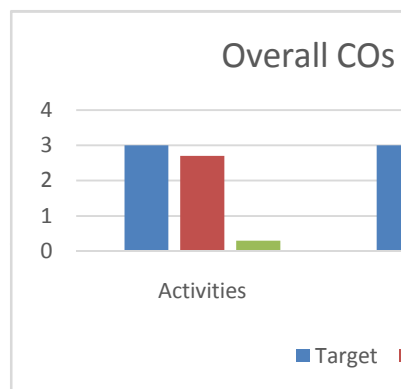
1. After taking extra classes or solve the problems of the students all major gaps are rectified.

Overall Comments: I observed that basic concepts are not cleared so in future give more focus on basic concepts and explain lots of problems. Some topic are very hard so will take more lectures on that topics.

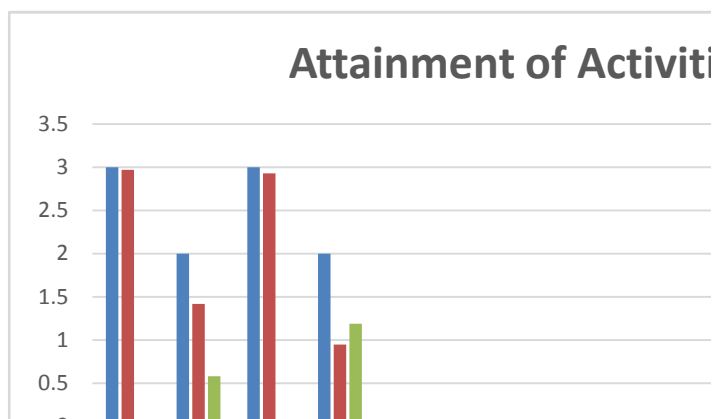
COs	CO1	CO2	CO3	CO4
Target	3	2	2	1
Achieved	1.92	1.61	1.04	3
Gap	1.07	0.38	0.95	0

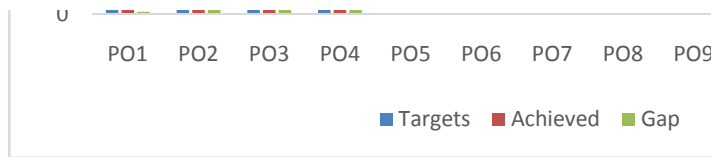


	Activities	Midterm-I	RTU exam
Target	3	3	3
Achieved	2.7	2.93	2.96
Gap	0.3	0.07	0.04

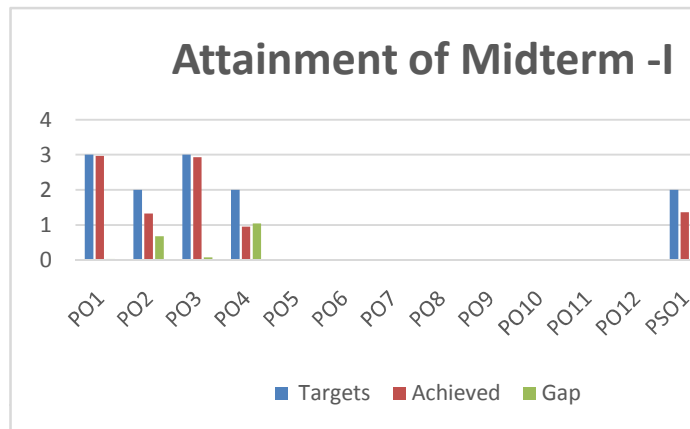


	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Targets	3	2	3	2	-	-	-	-
Achieved	2.97	1.42	2.93	0.95	-	-	-	-
Gap	0.03	0.58	0.07	1.19	-	-	-	-

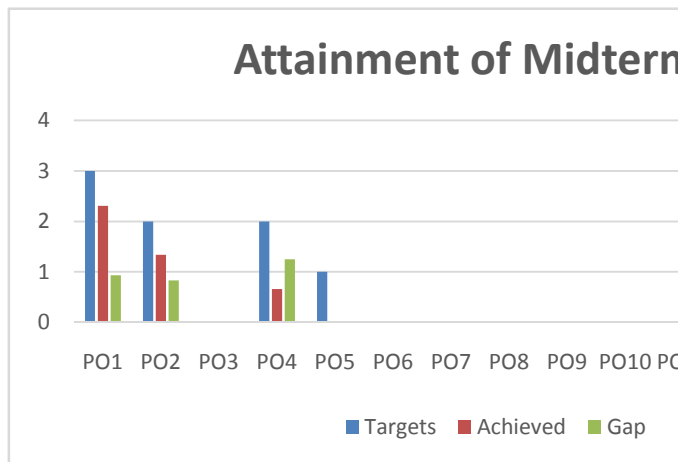




	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Targets	3	2	3	2				
Achieved	2.97	1.32	2.93	0.95				
Gap	0.03	0.68	0.07	1.04				

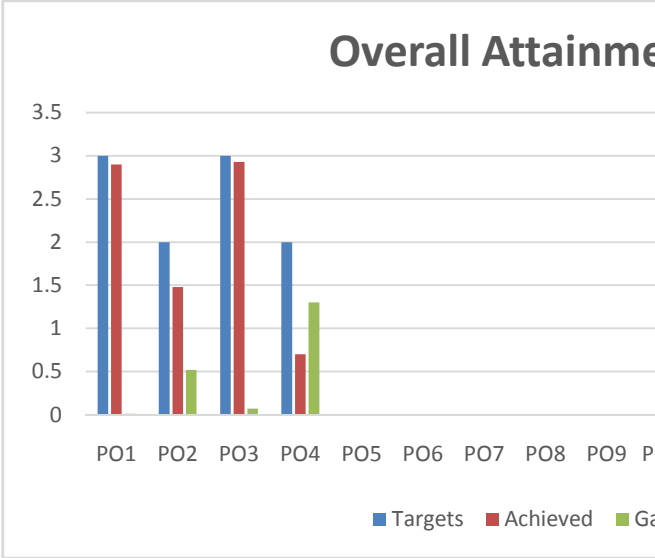


	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Targets	3	2		2	1			
Achieved	2.31	1.34		0.66	0.33			
Gap	0.93	0.83		1.25	0			

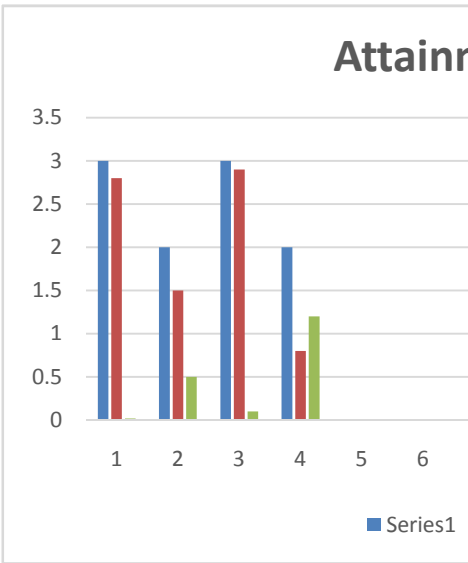


	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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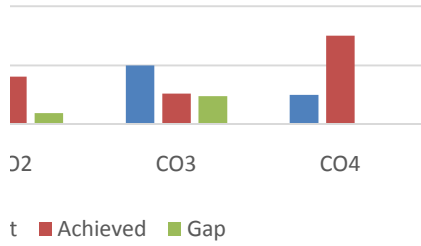
Targets	3	2	3	2				
Achieved	2.9	1.48	2.93	0.7				
Gap	0.01	0.52	0.07	1.3				



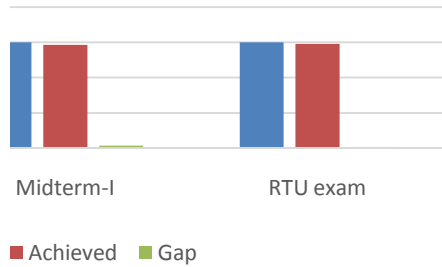
3CS4-06	PO							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Targets	3	2	3	2				
Achieved	2.8	1.5	2.9	0.8				
Gap	0.02	0.5	0.1	1.2				



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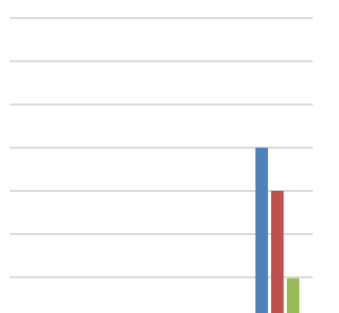


wise Attainment



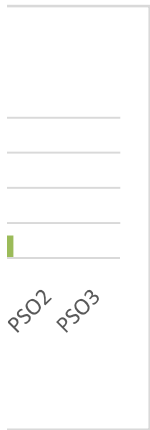
PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
-	-	-	-	2		
-	-	-	-	1.5		
-	-	-	-	0.49		

ies



PO10 PO11 PO12 PSO1

PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
				2		
				1.36		
				0.64		



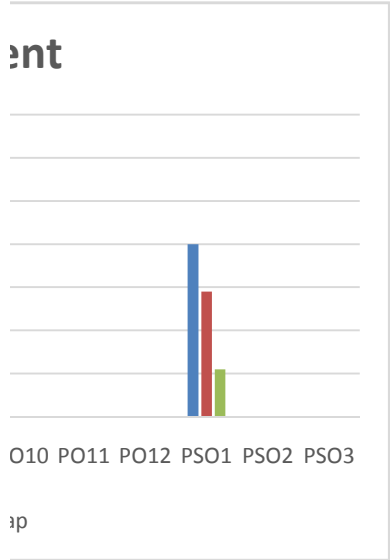
PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
				2		
				0.72		
				0		

n - II

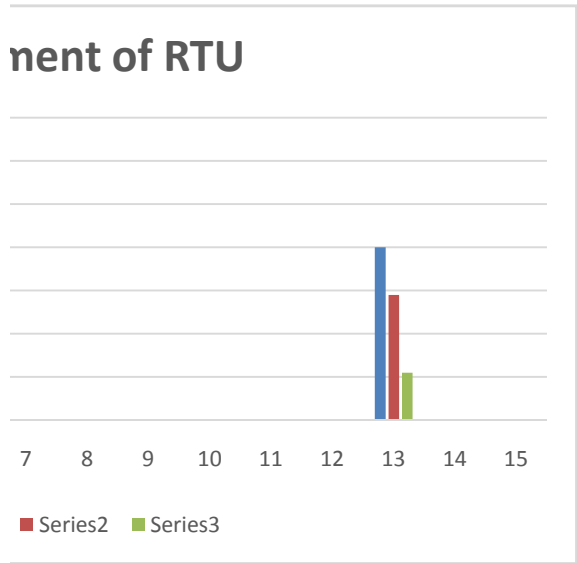


PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
-----	------	------	------	------	------	------

				2		
				1.45		
				0.55		



PO9	PO10	PO11	PO12	PSO		
				PSO1	PSO2	PSO3
				2		
				1.45		
				0.55		



Max. Time: 2 hrs.

NOTE:- Read the guidelines given with each part carefully.**Course Outcomes (CO):**

At the end of the course the student should be able to:

CO1: Understanding client side & server side scripting

CO2: Utilizing the basic concept of statements and arrays

CO3: Understanding Regular expression & Functions

CO4: Implement browser handling power of PHP & Exceptions & Databases

PART - A: (All questions are compulsory) Max. Marks (20)					
		Marks	CO	BL	PO
Q.1	What do you mean by server side script in PHP?	2			
Q.2	Write simple syntax of PHP.	2			
Q.3	Write the syntax of "for each" loop.	2			
Q.4	Write the Difference between variable and Constant.	2			
Q.5	Name different types of Array in PHP	2			
PART - B: (Attempt all 5 questions) Max. Marks (20)					
Q.6	Write steps to run PHP code?	4			
Q.7	Write steps to install Xampp server.	4			
Q.8	Explain Static and Global variables.	4			
Q.9	Explain ternary operators.	4			
Q.10	Explain Regular Expressions.				
PART - C: Long answer (5 question , 12 marks each) (5x12=60Marks)					
Q.11	Explain the features of PHP in detail. Or Write the Difference between Server Side Scripting and Client Side Scripting.	12			
Q.12	Write a Program to find odd or even number. Or Write the difference between While and DO...While loop.	12			
Q.13	Explain different type of string library function with examples. Or Explain pattern matching function in PHP with examples.	12			
Q.14	Write a program to create login page and submit data to another page. Or Describe cookies and sessions in detail.	12			
Q.15	Write a program to create database connection and create table.	12			

Or

Create a form and insert data into form and submit data in database.

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SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

	Class/Section: BCA Part-II	
Course: BCA	Year/ Section –II	Date:6 August 2023
Name of Faculty: Dr. Neha Agrawal	Name of Subject: PHP Programming	Code: BCA A02

COURSE PLAN (Zero Lecture)

Session: 2023-24

1). Name of Subject with Code: PHP programming (BCA A02)

2). Self-Introduction:

a). Name: Dr. Neha Agarwal

b). Qualification: M.C.A., M.Tech, P.hd

c). Designation: Assistant Professor

d). Research Area: E-Banking

e). E-mail Id: neha391981@gmail.com

f). Other details:

- More than 15 years of teaching experience.
- Around 10 Papers in National, International journals and Conferences

3).Introduction of Students: II year II year (BCA)

a). Identifying and keeping records of students based on meritorious/weak in academics.

b). Achievement of students in previous years:- Teaching first time in this class.

4). Instructional Language: 100% English

5). Introduction to subject: - PHP is the most popular scripting language for web development. It is free, open source and server-side (the code is executed on the server). MySQL is a Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). It is also free and open source. The combination of PHP and MySQL gives unmet options to create just about any kind of website – from a small contact form to large corporate portal.

PHP is a fast and feature-rich open source scripting language used to develop Web Applications or Internet / Intranet Applications. MySQL is a powerful open source database server built based on a relational database management system (RDBMS) and is capable of

handling a large concurrent database connection. When combined together, talented PHP and MySQL developers can build very powerful and scalable Web / Internet / Intranet Applications. PHP and MySQL are referred to as development tools. PHP and MySQL are Open Source, meaning that they are free development tools, and there is a large community of dedicated volunteer programmers who contribute to make improvements and are continuously adding features to it

a) *Relevance to Branch:*

It provides the knowledge necessary to design and develop dynamic, database-driven web pages using PHP that powers many websites. PHP is a programming language used to script websites that are dynamic and interactive. You'll find it in various types of web applications, from e-commerce websites to CRM systems like Sales force.

PHP and MySQL work together to build websites from nothing on the back end. They are server-side scripts responsible for creating the aspects of the website users do not see that keep all the information stored and keep it running smoothly. PHP and MySQL offer a slight learning curve, but they are also fast languages that provide flexibility to beginners while giving them more control over their code. PHP and MySQL are still widely used to power some of the most visited websites.

b) *Relevance to Society:*

It will explore the types of careers that benefit from PHP and MySQL and how learning these languages can enhance your professional life. You can create dynamic page content by working with a server-side programming language. Many programmers working with PHP and MySQL work with e-commerce and WordPress themes. You can write the script for and create desktop applications. You can implement real-time applications like chats, bots, social networks, and games into your website. You can become Web Developer, Full Stack Developer, Back End Developer, Software Engineer, WordPress Developer and you can start business and create employment.

c). *Relevance to Self:*

Now with the help of PHP Programming with MySql,

- List the major elements of the PHP & MySQL work and explain why PHP is good for web development
- Learn how to take a static website and turn it into a dynamic website run from a database using PHP and MySQL
- Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application.
- Learn how databases work and how to design one, as well as how to use PHP with MySql.

- Learn different ways of connecting to MySQL through PHP, and how to create tables, enter data, select data, change data, and delete data. Connect to SQL Server and other data source.
- Good opportunities of placements and jobs in web application development

d). Connection with Laboratory:

Laboratory contains covers two main parts:

1. PHP Programming with frontends(Design Forms)
2. Database handling with PHP Programming (MySQL)

PHP Programming lab deals with user input forms and understanding the various database operation (Insert, Delete, Update, Select, Truncate, Alias, OrderBy etc.), using Sql queries for inserting and retrieving information to and from Database.

SHRI MAHAVEER COLLEGE, JAIPUR

DEPARTMENT OF COMPUTER SCIENCE

Campus: Shri Mahaveer College
Course: B.C.A
Name of Faculty: Dr. Neha Agarwal

Class/Section: BCA II
Year: II
Name of Subject: PHP
Programming

Date: 6 August 2024
Code: BCA-A02

COURSE PLAN –BLOWN UP

SNo.	TOPIC AS PER SYLLABUS	BLOWN UP TOPICS (up to 10 Times Syllabus)
1.	Zero Lecture	Objective, scope and outcome of the course.
2.	Introduction to PHP & Embedding with HTML	Introduction to PHP: Installation of PHP and MySQL, PHP configuration in IIS & Apache Web Server. Features of PHP, Writing PHP, Parsing PHP code, Embedding PHP and HTML Executing PHP and viewing in Browser
3.	Control Structures, Conditional statements. Arrays and its types	Control Structures: Data types, Operators, PHP variables: static and global variables. Comments in PHP, Control Structures, Condition statements, If...Else, Switch. Ternary operator, Loops, While, Break Statement Continue, Do...While, For, For each loop, Exit, Die. Return, Arrays: Numeric, Associative and Multidimensional Arrays
4.	Strings, Regular expressions. Functions	Strings: Creating and accessing String, Searching & Replacing String, Formatting String, String Related Library function, Pattern matching, replacing text, splitting a string in a Regular Expression Functions: Defining a Function, Calling a Function, Parameter passing. Returning value from function
5.	Form Handling Cookies, Sessions. Exception Handling	Form Data Handling: \$GET, \$POST, \$REQUEST Variables, Cookies handling. Session Management Exception Handling: Understanding Exception and error, Try, catch, throw
6.	File Handling Database Handling	File Handling: Opening and closing a file, Copying, renaming and deleting a file Database Handling: Connection with MySql Database or ODBC, Performing basic database operation (Insert, Delete, Update, Select, Truncate Alias, Order By), Setting query parameter.

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

**RAJASTHAN UNIVERSITY,
JAIPUR**

Syllabus

II Year: B.C.A

BCA- A02: PHP PROGRAMMING

Max. Marks: 100

End Term Exam: 3Hours

Unit	Contents	Hours
I	Introduction to PHP: Installation of PHP and MySQL, PHP configuration in IIS & Apache Web Server. Features of PHP, Writing PHP, Parsing PHP code, Embedding PHP and HTML Executing PHP and viewing in Browser.	
II	Control Structures: Data types, Operators, PHP variables: static and global variables. Comments in PHP, Control Structures, Condition statements, If...Else, Switch. Ternary operator, Loops, While, Break Statement Continue, Do...While, For, For each loop, Exit, Die. Return, Arrays: Numeric, Associative and Multidimensional Arrays	
III	Strings: Creating and accessing String, Searching & Replacing String, Formatting String, String Related Library function, Pattern matching, replacing text, splitting a string in a Regular Expression Functions: Defining a Function, Calling a Function, Parameter passing. Returning value from function	
IV	Form Data Handling: \$GET, \$POST, \$REQUEST Variables, Cookies handling. Session Management Exception Handling: Understanding Exception and error, Try, catch, throw	
V	File Handling: Opening and closing a file, Copying, renaming and deleting a file Database Handling: Connection with MySql Database or ODBC, Performing basic database operation (Insert, Delete, Update, Select, Truncate Alias, Order By), Setting query parameter	
	Total	

ABC Analysis (RGB method)

Unit No.	A (Hard Topics)	B (Topics with average hardness level)	C (Easy-to-understand topics)
I			Introduction to PHP: Installation of PHP and MySQL, PHP configuration in IIS & Apache Web Server. Features of PHP, Writing PHP, Parsing PHP code, Embedding PHP and HTML Executing PHP and viewing in Browser
II		Switch. Ternary operator, Loops, While, Break Statement Continue, Do...While, For, For each loop, Exit, Die. Return, Arrays: Numeric, Associative and Multidimensional Arrays	Control Structures: Data types, Operators, PHP variables: static and global variables. Comments in PHP, Control Structures, Condition statements, If...Else
III	Pattern matching, replacing text, splitting a string in a Regular Expression	Strings: Creating and accessing String, Searching & Replacing String, Formatting String, String Related Library function, Functions: Defining a Function, Calling a Function, Parameter passing. Returning value from function	
IV	Form Data Handling: \$GET, \$POST, \$REQUEST Variables, Cookies handling. Session Management Exception Handling: Understanding Exception and error, Try, catch, throw		

V	File Handling: Opening and closing a file, Copying, renaming and deleting a file Database handling: Connection with MySQL Database or ODBC, Performing basic database operation (Insert, Delete, Update, Select, Truncate Alias, Order By), Setting query parameter.		
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Faculty :Dr. Neha Agarwal

	1	2	3	4	5	6	7
MON							
TUE							
WED							
THU							
FRI							
SAT							

PO GAP IDENTIFICATION

	PO													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Targets	2	2	3	3									3	2
Achieved	1.742857143	1.294117647	2.985714286	2.970149254									2.828571429	1.419047619
Gap	0.257142857	0.705882353	0.014285714	0.029850746									0.171428571	0.580952381

Gaps in CO through PRE UNIVERSITY component: Minor gap.

Action to be taken: Additional Lecture will be taken and Revision of the units will be done to bridge this gap.

ATTAINMENT OF CO (ASSIGNMENT-1) COMPONENT

CO-GAP IDENTIFICATIONS

COs	CO1	CO2	CO3	CO4
Target	3	2	2	2
Achieved	2.25	1.82	1.25	1.78
Gap	0.75	0.18	0.75	0.22

COs	CO1	CO2	CO3	CO4
Attainment level as per rules set	3	2	2	2
Average CO attainment through internal assessment	2.25			

ATTAINMENT OF PO THROUGH CO (ASSIGNMENT-1) COMPONENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	-	-	2	
CO2	-	2	-	-	-	-	-	-	-	-	-	2	
CO3	-	-	2	-	-	-	-	-	-	-	-	2	
CO4	-	-	-	2	-	-	-	-	-	-	-	2	

Attainment of PO through CO(ASSIGNMENT-1) Component													
	PO											PSO	
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
Target	3	2	2	2								2	
Achieved	2.12	1.6	1.16	1.87								1.52	
Gap	0.88	0.4	0.84	0.13								0.48	

Gaps in PO through Assignment I component: Minor gap.

Action to be taken: Assignments will be taken and Revision of the units will be done to bridge this gap.

ATTAINMENT OF CO (ASSIGNMENT-1) COMPONENT

CO-GAP IDENTIFICATIONS

COs	CO1	CO2	CO3	CO4
Target	3	2	2	2
Achieved	2.25	1.82	1.25	1.78
Gap	0.75	0.18	0.75	0.22

COs	CO1	CO2	CO3	CO4
Attainment level as per rules set	3	2	2	2
Average CO attainment through internal assessment	2.25			

ATTAINMENT OF PO THROUGH CO (ASSIGNMENT-1) COMPONENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	-	-	2	
CO2	-	2	-	-	-	-	-	-	-	-	-	2	
CO3	-	-	2	-	-	-	-	-	-	-	-	2	
CO4	-	-	-	2	-	-	-	-	-	-	-	2	

Attainment of PO through CO(ASSIGNMENT-1) Component													
	PO											PSO	
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
Target	3	2	2	2								2	
Achieved	2.12	1.6	1.16	1.87								1.52	
Gap	0.88	0.4	0.84	0.13								0.48	

Gaps in PO through Assignment I component: Minor gap.

Action to be taken: Assignments will be taken and Revision of the units will be done to bridge this gap.

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

Course: BCA	Year/Section: 2nd	Date:
Name of Faculty: Dr. Neha Agrawal	Name of Subject : PHP Programming	Code: BCA- A02

ATTAINMENT OF CO (University of Rajasthan) COMPONENT

CO:: PHP Programming	
Target	3.00
Achieved	2.58
Gap	0.42

ATTAINMENT OF PO THROUGH CO (University of Rajasthan) COMPONENT

CO:: PHP Programming	
Target	2.00
Achieved	1.58
Gap	0.42

Gaps in CO from University of Rajasthan component: The Gap is very much minor

Action to be taken: Teaching strategy is ok and this gap can be covered by revision

**SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE**

Course: BCA	Year/Section: 2nd	Date:
Name of Faculty: Dr. Neha Agrawal	Name of Subject: PHP Programming	Code: BCA- A02

CO:: PHP Programming	
Target	3
Achieved	2.81
Gap	0.19

ATTAINMENT OF PO THROUGH CO (OVERALL) COMPONENT

Attainment of PO through CO(OVERALL) Component														
	PO											PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	
Target	3	2	2	2								2		
Achieve	2.98	1.89	1.78	1.4								1.29		
Gap	0.02	0.11	0.22	0.6								0.71		

SHRI MAHA VEER COLLEGE, JAIPUR

DEPARTMENT OF COMPUTER SCIENCE

BCA – II YEAR

BCA-A02 PHP PROGRAMMING

Assignment-II

Note:- Attempt All Questions

Q1. Explain variable scope in PHP.

Q2. Explain str_replace() function with example.

Q3. Explain Regular Expression Modifiers.

Q4. What is recursive function?

SHRI MAHAVEER COLLEGE, JAIPUR
DEPARTMENT OF COMPUTER SCIENCE

Course: B.C.A
Name of Faculty: Dr. Neha Agarwal

Year/ Section –II
Name of Subject :PHP Programming

Date: 6/8/2023
Code: BCA-A02

COURSE PLAN (Deployment)

COURSE PLAN

S.No	Lect.No	Points to cover	CO/LO	Proposed Date	Actual Date	Ref. Book/Journal with Pg. No.
1	L0	Zero Lecture		7/8/2023	7/8/2023	
2	L1	Introduction to PHP	CO1	8/8/2023		The Complete Reference, TMH
3	L2	Installation of PHP and MySQL	CO1	14/8/2023	14/8/2023	The Complete Reference, TMH
4	L3	PHP configuration in IIS & Apache Web Server.	CO1	14/8/2023	14/8/2023	The Complete Reference, TMH
5	L4	Features of PHP, Difference between client side and server side scripting	CO1	21/8/2023	21/8/2023	The Complete Reference, TMH
6	L5	Writing PHP, Parsing PHP code	CO1	22/8/2023	22/8/2023	The Complete Reference, TMH
7	L6	Embedding PHP and HTML Executing PHP and viewing in Browser	CO1	23/8/2023	24/8/2023	The Complete Reference, TMH
8	L7	Some example codes of PHP (using echo)	CO1	28/8/2023	28/8/2023	The Complete Reference, TMH
9	L8	Some example codes of PHP	CO1	29/8/2023	29/8/2023	The Complete Reference, TMH
10	L9	Some example codes of PHP	CO1	4/9/2023	4/9/2023	The Complete Reference, TMH
11	L10	Revision of Unit 1	CO1	11/9/2023	11/9/2023	The Complete Reference, TMH
12	L11	Data types	CO2	12/9/2023	12/9/2023	The Complete Reference, TMH
13	L12	Data types	CO2	13/9/2023	13/9/2023	The Complete

						Reference, TMH
14	L13	Operators	CO2	18/9/2023	18/9/2023	The Complete Reference, TMH
15	L14	Operators	CO2	20/9/2023	20/9/2023	The Complete Reference, TMH
16	L15	Some Examples	CO2	25/9/2023	26/9/2023	The Complete Reference, TMH
17	L16	PHP variables	CO2	26/9/2023	26/9/2023	The Complete Reference, TMH
18	L17	static and global variables.	CO2	27/9/2023	27/9/2023	The Complete Reference, TMH
19	L18	Some examples till variables	CO2	3/10/2023	3/10/2023	The Complete Reference, TMH
20	L19	Some examples till variables	CO2	4/10/2023	4/10/2023	The Complete Reference, TMH
21	L20	Comments in PHP	CO2	9/10/2023	9/10/2023	The Complete Reference, TMH
22	L21	Condition statement If...Else	CO2	10/10/2023	10/10/2023	The Complete Reference, TMH
23	L22	Condition statement Switch	CO2	11/10/2023	11/10/2023	The Complete Reference, TMH
24	L23	Example code for if...else and switch	CO2	16/10/2023	16/10/2023	The Complete Reference, TMH
25	L24	Example code for if...else and switch	CO2	17/10/2023	17/10/2023	The Complete Reference, TMH
26	L25	Ternary operator	CO2	18/10/2023	On leave	The Complete Reference, TMH
27	L26	Introduction to Loops, while loop	CO2	25/10/2023	On leave	The Complete Reference, TMH
28	L27	For Loop, For each loop	CO2	30/10/2023	30/10/2023	The Complete Reference, TMH
29	L28	Exit, Die, Return	CO2	31/10/2023	31/10/2023	The Complete Reference, TMH
30	L29	Arrays: Numeric, Associative and Multidimensional Arrays	CO2	1/11/2023	1/11/2023	The Complete Reference, TMH
31	L30	examples	CO2	6/11/2023	6/11/2023	The Complete Reference, TMH
32	L31	Creating and accessing String	CO3	7/11/2023	7/11/2023	The Complete Reference, TMH
33	L32	Searching & Replacing String	CO3	8/11/2023	8/11/2023	The Complete Reference, TMH
34	L33	Formatting String	CO3	8/11/2023	8/11/2023	The Complete Reference, TMH
35	L34	Examples of strings	CO3	20/11/2023	20/11/2023	The Complete Reference, TMH
36	L35	String Library function	CO3	21/11/2023	21/11/2023	The Complete Reference, TMH
37	L36	String Library	CO3	22/11/2023	22/11/2023	The Complete

		functions				Reference, TMH
38	L37	Pattern matching	CO3	28/11/2023	4/12/2023	The Complete Reference, TMH
39	L38	replacing text & splitting a string in a Regular Expression	CO3	29/11/2023	5/12/2023	The Complete Reference, TMH
40	L39	Examples of regular expression	CO3	4/12/2023	5/12/2023	The Complete Reference, TMH
41	L40	Defining a Function, Calling a Function	CO3	5/12/2023	6/12/2023	The Complete Reference, TMH
41	L41	Parameter passing. Returning value from function With examples	CO3	6/12/2023	11/12/2023	The Complete Reference, TMH
42	L41	Introduction to \$GET, \$POST, \$REQUEST Variables and form handling	CO4	11/12/2023	12/12/2023	The Complete Reference, TMH
43	L42	Cookies handling	CO4	12/12/2023	12/12/2023	The Complete Reference, TMH
44	L43	Create & Delete cookies	CO4	13/12/2023	13/12/2023	The Complete Reference, TMH
45	L44	Session Management	CO4	18/12/2023	18/12/2023	The Complete Reference, TMH
46	L45	Create & Delete sessions	CO4	19/12/2023	19/12/2023	The Complete Reference, TMH
47	L46	Difference between cookies & Sessions	CO4	20/12/2023	20/12/2023	The Complete Reference, TMH
48	L47	Revision of Strings & Regular Expression	CO3	2/1/2024	2/1/2024	The Complete Reference, TMH
49	L48	Revision of functions	CO3	3/1/2024	3/1/2024	The Complete Reference, TMH
50	L49	Some examples of handling cookies & sessions	CO4	8/1/2024	8/1/2024	The Complete Reference, TMH
51	L50	Understanding Exception and error	CO4	9/1/2024	9/1/2024	The Complete Reference, TMH
52	L51	Exception Handling	CO4	10/1/2024	10/1/2024	The Complete Reference, TMH
53	L52	TRY, THROW &	CO4	15/1/2024	15/1/2024	The Complete Reference, TMH

		CATCH mechanism				
54	L53	PHP syntax for Exceptions	CO4	16/1/2024	16/1/2024	The Complete Reference, TMH
55	L54	Examples of Exception Handling	CO4	22/1/2024	22/1/2024	The Complete Reference, TMH
56	L55	Examples of Exception handling	CO4	23/1/2024	22/1/2024	The Complete Reference, TMH
57	L56	Revision Test of IV Unit	CO4	24/1/2024	23/1/2024	The Complete Reference, TMH
58	L57	Introduction to files & Directories	CO5	29/1/2024	24/1/2024	The Complete Reference, TMH
59	L58	File Modes	CO5	30/1/2024	29/1/2024	The Complete Reference, TMH
60	L59	File I/O functions	CO5	31/1/2024	30/1/2024	The Complete Reference, TMH
61	L60	Opening & Closing a file	CO5	5/2/2024	31/1/2024	The Complete Reference, TMH
62	L61	Reading file with example	CO5	6/2/2024	31/1/2024	The Complete Reference, TMH
63	L62	Reading File types	CO5	7/2/2024	5/2/2024	The Complete Reference, TMH
64	L63	Writing a file	CO5	12/2/2024	6/2/2024	The Complete Reference, TMH
65	L64	Rename & Delete a file	CO5	13/2/2024	7/2/2024	The Complete Reference, TMH
66	L65	Example of file handling	CO5	14/2/2024	12/2/2024	The Complete Reference, TMH
67	L66	Examples of File Handling	CO5	19/2/2024	13/2/2024	The Complete Reference, TMH
68	L67	Introduction to Database	CO5	20/2/2024	14/2/2024	The Complete Reference, TMH
69	L68	Introduction to MYSQL	CO5	21/2/2024	19/2/2024	The Complete Reference, TMH
70	L69	SQL queries to create database, create table etc.	CO5	26/2/2024	On leave	The Complete Reference, TMH
71	L70	More SQL Queries related to tables like create, update, delete, insert	CO5	27/2/2024	20/2/2024	The Complete Reference, TMH
72	L71	More SQL Queries related to tables	CO5	28/2/2024	21/2/2024	The Complete Reference, TMH

		like create, update, delete, insert				
73	L72	More SQL Queries related to tables like create, update, delete, insert	CO5	4/3/2024	26/2/2024	The Complete Reference, TMH
74	L73	PHP code for connectivity to database	CO5	5/3/2024	27/2/2024	The Complete Reference, TMH
75	L74	PHP code creating table	CO5	11/3/2024	28/2/2024	The Complete Reference, TMH
76	L75	PHP MYSQL Insert query	CO5	12/3/2024	4/3/2024	The Complete Reference, TMH
77	L76	PHP MYSQL update query	CO5	13/3/2024	5/3/2024	The Complete Reference, TMH
78	L77	PHP MYSQL delete query	CO5	18/3/2024	11/3/2024	The Complete Reference, TMH
79	L78	Creating HTML Forms	CO5	19/3/2024	12/3/2024	The Complete Reference, TMH
80	L79	Retrieving and Inserting the Form Data	CO5	20/3/2024	13/3/2024	The Complete Reference, TMH
81	L80	Display the results in Table format	CO5	26/3/2024	18/3/2024	The Complete Reference, TMH
82	L81	Remedial class	CO5	27/3/2024	18/3/2024	The Complete Reference, TMH
83	L82	Remedial class	CO5	1/4/2024	18/3/2024	The Complete Reference, TMH
84	L83	Remedial class	CO1	2/4/2024	26/3/2024	The Complete Reference, TMH
85	L84	Remedial class	CO2	3/4/2024	27/3/2024	The Complete Reference, TMH
86	L85	Remedial class	CO3	8/4/2024		The Complete Reference, TMH
87	L86	Remedial class	CO4	9/4/2024		The Complete Reference, TMH
88	L87	Remedial class	CO5	10/4/2024		The Complete Reference, TMH

Study material

Textbook:

Author- PHP The Complete Reference, Steven Holzner, TMH

Reference books:

SHRI MAHAVEER COLLEGE, JAIPUR

DEPARTMENT OF COMPUTER SCIENCE

BCA – II YEAR

BCA-A02 PHP PROGRAMMING

Assignment-I

Note:- Attempt All Questions

Q1- Describe the steps of installation of APACHE web server.

Q2- Describe different types of jumping statements in PHP.

Q3-What are different types of Array in PHP.

Q4- Explain different types of operators in PHP.