



C. U. Shah University, Wadhwan City

Faculty of Computer Science

**Name of Program: Bachelor of Science (Information Technology)
(B.Sc IT.)**

Semester : IV

W.e.f. June 2017

Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni.	
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
1	4CS04IWD1	Advanced Web Development with PHP	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives: At the end of the syllabus student can develop dynamic web site using PHP

Pre-requisites: Student should have the knowledge of basic PHP Programming.

Course Content:

Sr No.	Chapter Name	Contents	Number of Lectures
1	GD Library and PDF creation	1.1 Creating an image 1.2 Displaying image on HTML page 1.3 Drawing lines 1.4 Setting line thickness 1.5 Drawing rectangle 1.6 Drawing ellipses 1.7 Drawing arcs 1.8 Drawing polygons 1.9 Filling in figures 1.10 Drawing text 1.11 Drawing vertical text 1.12 Pdf creation functions 1.13 Generate page report using PDF	10
2	Object Oriented Programming with PHP	2.1 OOPS Concept 2.2 Classes & Object 2.3 Define a class 2.4 Class Attributes 2.5 Creating object 2.6 Object Properties 2.7 Object Methods 2.8 Constructors and Destructors 2.9 Static keyword 2.10 Access Specifiers	8

		2.11 Class Inheritance 2.12 Abstract Class	
3	PHP MYSQLi	3.1 Introduction 3.2 Difference between MySQL & MySQLi 3.3 Establishing a database connection using OOPs MySQLi 3.4 Preparing a database query 3.5 Passing query parameters 3.6 Setting a destination for the query result 3.7 Executing the query with MySQLi 3.8 Fetching the results	10
4	JQuery Basic	4.1 Introduction to JQuery 4.2 Obtaining/Accessing the jQuery Library 4.3 JQuery Syntax 4.4 JQuery Selector 4.5 JQuery Events 4.6 JQuery Effects(hide, show, fade, slide, animate,stop, Callback, chaining)	9
5	Advance jQuery	5.1 JQuery HTML 5.1.1 JQuery get,set, 5.1.2 add, remove, 5.1.3 CSS classes, 5.1.4 CSS() 5.1.5 Dimenstions 5.2 JQuery Traversing 5.3 JQuery Ancestors 5.4 JQuery Descendants 5.5 JQuery Siblings 5.6 JQuery filtering	9
6	Ajax	6.1 What is AJAX? 6.2 How AJAX works 6.3 XMLHttpRequest, 6.4 XMLHttpRequestResponse, 6.5 Onreadystatechange event 6.6 AJAX and PHP 6.7 AJAX and Databases 6.8 AJAX Live Search 6.9 JQuery AJAX Intro 6.10 jQuery Load 6.11 jQuery Get/Post	9
		Total	55

Text books :

No	Book name	Author	Publication
1	The complete reference PHP	Steven holzner	McGraw Hill education
2	PHP 6 and MySQL Bible	Steve suehring, tim converse, and joyce park	Wrox

Reference Books :

No	Book name	Author	Publication
1	PHP, MySQL and Apache Server	Shashi banzal	Firewall media
2	Samstech Yourself PHP, MySQL and Apache all in one	Julie C. Meloni	Pearson
3	Beginning PHP6, Apache , MySQL web development	Timothy Boronczyk, Elizabeth Naramore, Jason Gerner, Yann Le Scouarnec, Jeremy Stolz	Wrox

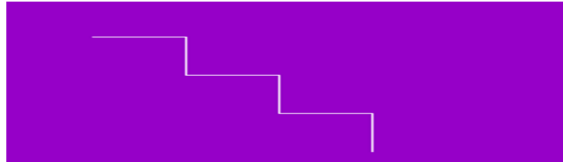
PROGRAM LIST

Chapter 1 : GD Library and PDF creation

1. Write a PHP script to create an image and display the following output using lines inside it.



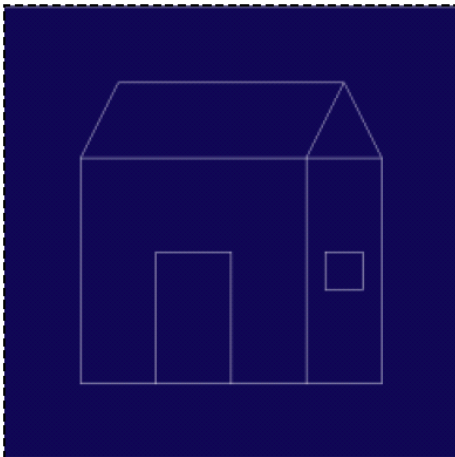
2. Write a PHP script to create an image and display the following output using lines inside it.



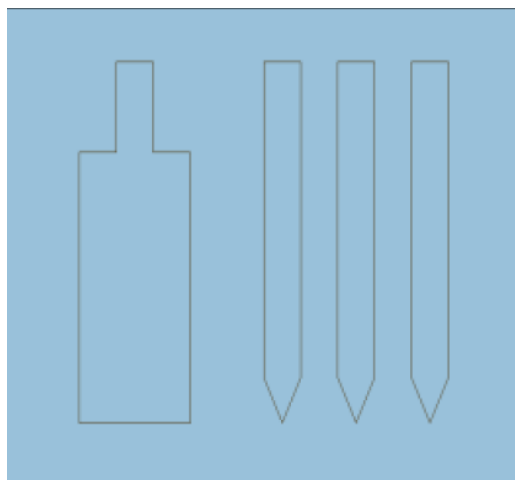
3. Write a PHP script to create an image and display the following output using lines inside it.



4. Write a PHP script to create an image and display the following output using lines inside it.



5. Write a PHP script to create an image and display the following output using lines inside it.



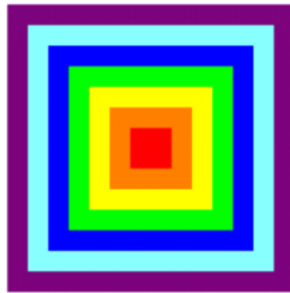
6. Write a PHP script to create an image and display the following output using lines inside it.



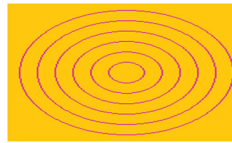
7. Write a PHP script to create an image and display the following output using lines inside it.



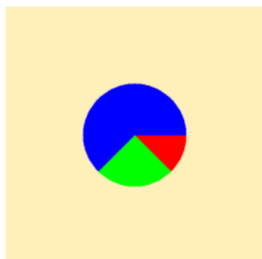
8. Write a PHP script to create an image and display the following output.



9. Write a PHP script to create an image and display the following output.



- 10. Write a PHP script to create triangle image.
- 11. Write a PHP script to create diamond image.
- 12. Write a PHP script to create polygon image.
- 13. Write a PHP script to create Pentagon image.
- 14. Write a PHP script to create Hexagon image.
- 15. Write a PHP script to create Octagon image.
- 16. Write a PHP script to create an image and display the following output.



17. Write a PHP script to enter the values and display bar graph.

Enter Value(0-100)	<input type="text"/>
Enter Value(0-100)	<input type="text"/>
Enter Value(0-100)	<input type="text"/>
<input type="button" value="Display"/>	

18. Write a PHP script to enter the values and display pie chart.

Enter Value	<input type="text"/>
Enter Value	<input type="text"/>
Enter Value	<input type="text"/>
<input type="button" value="Display"/>	

19. Write a PHP code to write text into pdf file

20. Write a PHP file to create a table into pdf file

Write a PHP file to insert image into pdf file

Chapter 2 : Object Oriented Programming with PHP

21. Write a PHP script to create a student class with rollno, nm and city data member . Create an object of the class and display all the data.
22. Write a PHP script to create above program with public class specifier.
23. Write a PHP script to create above program with private class specifier.
24. Write a PHP script to create a student class with rollno, nm as protected and extends studentdetail class with city data member and display all the data.
25. Write a PHP script to demonstrate constructor.
26. Write a PHP script to demonstrate parameterized constructor.
27. Write a PHP script to demonstrate destructor.
28. Write a PHP script to demonstrate static method.
29. Write a PHP script to display how many objects are created.
30. Write a PHP script to demonstrate single inheritance with public access specifier.
31. Write a PHP script to demonstrate single inheritance with private access specifier.
32. Write a PHP script to demonstrate single inheritance with protected access specifier.
33. Write a PHP script to demonstrate multilevel inheritance.
34. Write a PHP script to demonstrate hierarchical inheritance.

35. Write a PHP script to demonstrate abstract class.

Chapter 3 : PHP MYSQLi

36. Write a php script to create table student with filed(id, name, branch,sem) in database kbssc

37. Write a php script to insert multiple record into student table using mysqli.

38. Write a php script to insert multiple record into student table using mysqli.

39. Create a form for insert record into student table using mysqli.

40. Write a program that display all records from student table.

41. Write a php script that display record of entered student id.

42. Write a program using mysqli that display record of students of selected branch.

43. Write a program for update student record set branch ='bca' where id=1 & name='abc'.

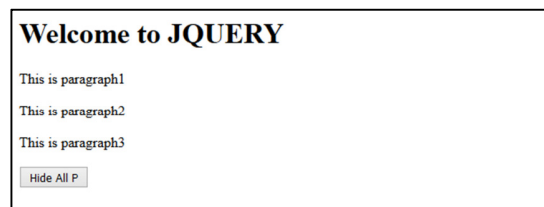
44. Write a program for insert record into student table using prepared statement

45. Write a program for delete record into student table using prepared statement

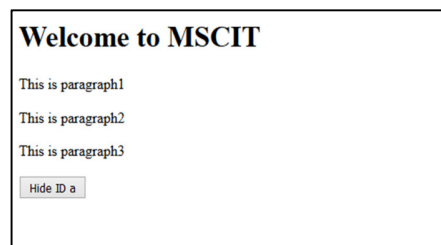
46. Write a program that display content of student table using Prepared statement.

Chapter 4 : JQuery Basic

47. Write a program that hide all <p> elements by clicking on button. (Hint : use element selector)



48. Write a program that hide all <p> elements with id havig 'a' by clicking on button. (Hint : use id selector)



49. Write a program that hide all <p> elements with id havig 'a' by clicking on button. (Hint : use class selector)


Welcome to MSCIT

This is paragraph1

This is paragraph2

This is paragraph3

50. Write a jquery program for following



51. Write a JQuery code to display no of character inputted in textbox (Hint : keypress())

Enter string

No of characters : 5

52. Write a JQuery code to change the color of active textbox (Hint : blur() and focus())

Enter first name

Enter last name

53. Write a JQuery code to display the current page coordinates when the mouse is moved over the screen. (Hint : use event.pageX, event.pageY)

Co-ordinates : 118,82

54. Write a JQuery code to display the following vertical menu. (Hint : mouseover() & mouseout())

MSCIT

MBA

MCA

55. Write a JQuery code that displays an image when user mouse overs that elements another image should be displayed and when user mouse outs from that image, again the original image should be displayed.



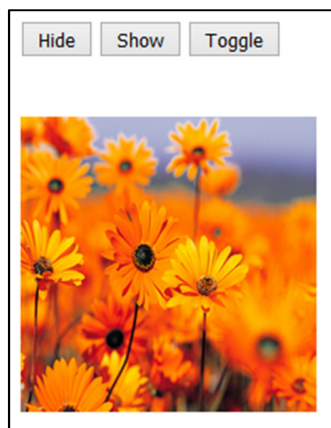
56. Write a JQuery code to create vertical drop down menu. (Hint : mouseenter(), mouseleave())



57. Write a JQuery code to swap two images.



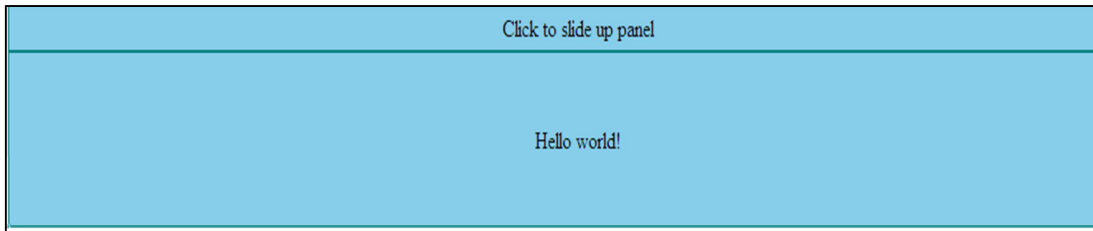
58. Write a jquery code to apply hide, show and toggle effect to the image while clicking on the button.



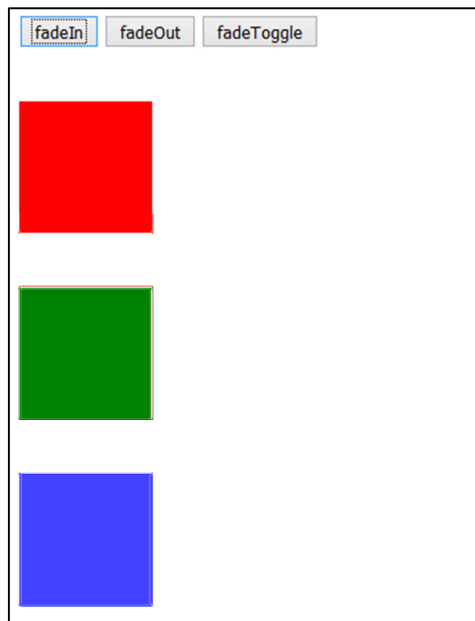
59. Write a jquery program that demonstrate sliding effect with image



60. Write a following JQuery code to apply slidetoggle effect.



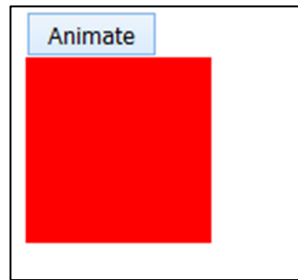
61. Write a JQuery code to display three divisions with three buttons fadein and fadeout and fadetoggle. Apply effects using jquery.



62. Write a JQuery code to display three images with opacity 0.2. when the mouse is over particular image, the opacity of that image should be 1 & when the mouse is out that image, again the opacity of that image should be 0.2. (Hint : fadeTo ())



63. Write a JQuery code to change the height and width of the division when clicking on Animate button
(Hint : animate())



64. Write a jquery program that start animation of div element which change its left property and opacity.

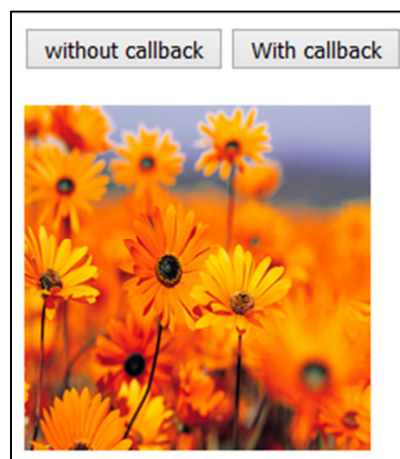
65. Write a jquery program for animation as following



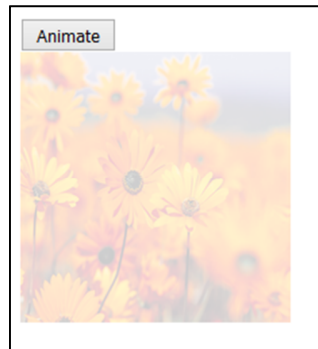
Output



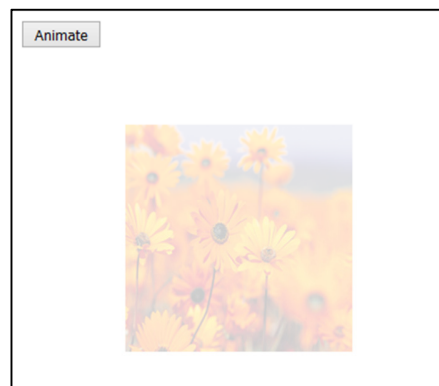
66. Write a JQuery code to demonstrate callback and without callback.



67. Write a JQuery code to change the height, width and opacity of the image while clicking on the buton. (Hint : animate())



68. Write a Jquery code to change left, top and opacity of the image while clicking on the buton. (Hint : animate())



69. Write a Jquery code to change left and opacity of the text while clicking on the buton. (Hint : animate())



70. Write a jquery program that demonstrate chaining effect (create a program that change paragraph color will be read then silde up and then slide down)

Chapter 5 : Advance jQuery

71. Write a jquery program to get html, text of an HTML tag and value of text field.(Hint : html(), text(), val())

Welcome to JQuery

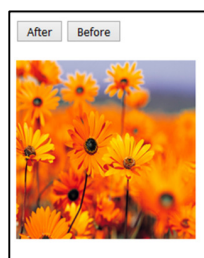
72. Write a jquery program to set html, text of an HTML tag and value of text field.(Hint : html(), text(), val())

Welcome to JQuery

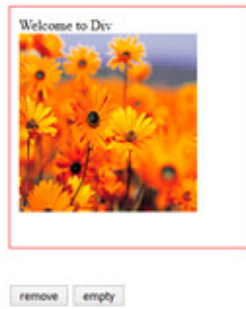
73. Write a JQuery code to append and prepend items in the list : (Hint : append(), prepend())

1. HTML
2. DHTML

74. Write a JQuery code to add element after or before the img element while clicking on the button (Hint : after(), before())



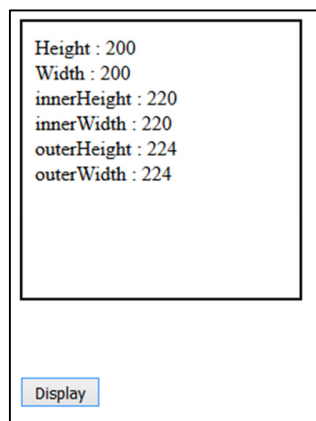
75. Write a jquery code to remove the div tag and empty it while clicking on button (Hint : remove(), append())



76. Write a JQuery code to apply css class to p element, remove it and toggle it while clicking on the button (Hint: `addClass()`, `removeClass()`, `toggleClass()`)



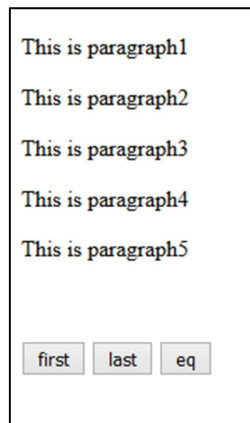
77. Write a jquery code to display height, width, innerheight, innerwidth, outheight, outer width of the div into it while clicking on Display button.



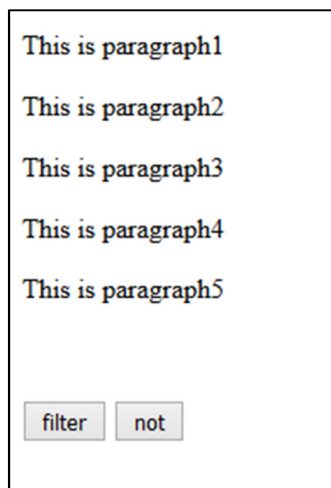
78. Write a jquery code for jquery sibling traversing.



79. Write a jquery code for jquery filtering.



80. Write a jquery code for jquery filtering.



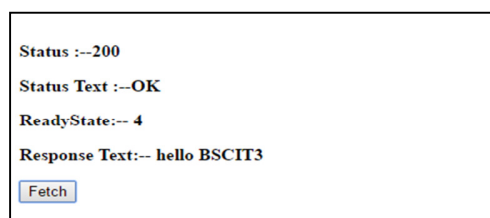
Chapter 6 : AJAX

81. Write an HTML code using Ajax that change content of <h1> by clicking on button.

82. Write an HTML code using Ajax to load the content of the PHP file into p element while clicking on the button.



83. Write an HTML code script using Ajax that displays the status, status text, readystate and responseText
 XMLHttpRequest property of object.



84. Write an HTML code using Ajax script with php for displaying the following output.

Enter Class:	<input type="text" value="BSCIT"/>
Enter Semester:	<input type="text" value="3"/>
<input type="button" value="Display"/>	
You Are in BSCIT3	

85. Write an HTML code using Ajax script with php for displaying the following output .(Hint : onBlur())

Enter No1	<input type="text" value="15"/>
Enter No2	<input type="text" value="15"/>
Result	<input type="text" value="30"/>

86. Write an HTML code using Ajax script that change display image as change in combo box.

Select Image



87. Write an HTML code using Ajax that check whether given number is prime or no

Check Prime no using Ajax

Enter No	<input type="text" value="15"/>
<input type="button" value="Check"/>	

15 is not a prime no

88. Write an HTML code using Ajax that print Factorial of a given no.

89. Write an HTML code using Ajax that check whether given number is Armstrong or not.

90. Write an HTML code using Ajax that print reverse no of a given no.

91. Write an HTML code using Ajax that print Sum of digit of a given no.
92. Write an HTML code using AJAX that display record of a student which no is given into text box
 Database : db1
 Table : student
 Field : id, name, branch and sem

Enter no

No	105
Name	aaa
Branch	BCA
Semester	3

93. Write an HTML code using ajax with php for the following output design:
 Database : db1
 Table : employee
 Field : id, name, dept and email

Select Department:

Emp ID	Employee Name	Department	Email
101	ABC	Computer	abc@gmail.com
102	XYZ	Computer	xyz@gmail.com

94. Write an HTML code using ajax with php for the following output design:
 Database : db1
 Table : employee
 Field : id, name, dept and email

B.C.A B.Sc.IT

Rollno	Name	City
1	abc	aaa
2	xyz	bbb

95. Write a PHP script for Ajax Live Search.
96. Write an HTML code using jquery that display content of html file using load() method.

Let jQuery AJAX Change This Text

97. Write a php file data using \$.get() or \$.post() in jquery

<input type="button" value="Get Data using \$.get()"/>
Welcome to AJAX

98. Write a php script to find sum of two nos using \$.get() in jquery

Enter No1 :	<input type="text" value="15"/>
Enter No2 :	<input type="text" value="15"/>
<input type="button" value="Sum"/>	
Result :	<input type="text" value="30"/>

99. Write a php script to find maximum from two nos using \$.post() in jquery

100. Write an HTML code and PHP script to send an array argument using jquery \$.get() to find sum of three nos.

101. Write an HTML code using AJAX and PHP script to check if the entered username is available in database or not (Hint : blur())

Enter Username : <input type="text"/>
