5BCA6-COMPUTER LAB-5

L	T	P	C	Theory	Internal	Practical	Total
Credits/Hours							Marks
-	-	+0/2	+0/2	0	20	80	100

PRACTICAL LIST ON PHP

1. Write a PHP script, to check whether the page is called from 'https' or 'http'.
2. Write a PHP script to redirect a user to a different page.
3. Write a PHP script, which changes the color of the first character of a word.
4. Write a PHP script to count number of lines in a file.
5. Write a PHP program to print out the multiplication table up to 6*6.
6. Write a PHP program to remove duplicates from a sorted list.
7. Write a simple PHP program to check that emails are valid.
8. Write a simple PHP program to verify that the user did not leave any fields blank when submitting the form.
9. Check to make sure the credit card number is composed of exactly 16 numerical digits.
10. Check to make sure that a Visa card number starts with a "4" and a MasterCard number starts with a "5".
11. Write a program in PHP to handle Cookies and Sessions.
12. Write a program in PHP to Create, Access and Destroy Sessions in PHP
13. Write a Web page that asks for the last name of a faculty member. Upon clicking "submit", the Web page should call a HTML/PHP script that retrieves faculty data from the database. If the last name does not match any faculty members, the script should indicate "no faculty match". If the last name does match, then all faculty members with the given last name should be printed. (For testing, note that both Thomas Moore and Emily Moore are in the faculty database.)
14. Write a Web page that asks for the first and last names of a faculty member and a phone extension. Clicking "submit" calls a HTML/PHP script that works as follows:
    a. If no names are entered, the script lists all faculty.
    b. If some names or phone information are listed, but these data do not match any entries in the direction, the script should indicate "no faculty match".
    c. If some names or phone information are listed and match some directory entries, then all matching entries should be printed. For example, during 1998-1999, both Amit Verma and Sonali Choubey an office. Thus, entering telephone 3017 (but no name information) should return entries for both of these faculty members.
15. Write a Web page that asks for faculty data, including first name, last name, title, email, office, and telephone extension. Upon clicking "submit", the HTML/PHP script should check that all fields are filled in. If not, the script should print an error message. Otherwise, the script should insert the data into a new entry within the faculty table.

PRACTICAL LIST ON DOT NET PROGRAMMING WITH VB.NET & ASP.NET

1. Write a program to perform arithmetic operation in console application using switch case.
2. Write a program to perform reverse number.
3. Write a console application that obtains four int values from the user and displays the product.
4. If you have two integers stored in variables var1 and var2, what Boolean test can you perform to see if one or the other (but not both) is greater than 10?
5. Write an application that includes the logic from Exercise 4, obtains two numbers from the user, and displays them, but rejects any input where both numbers are greater than 10 and asks for two new numbers.
6. Write a console application that places double quotation marks around each word in a string .
7. Write an application that uses two command-line arguments to place values into a string and an integer variable, respectively. Then display these values.
8. Write an application that receives the following information from a set of students:
   - Student Id:
   - Student Name:
   - Course Name:
   - Date of Birth:
   The application should also display the information of all the students once the data is Entered. Implement this using an Array of Structures.
9. Create an application that allows the user to enter a number in the textbox named „getnum". Check whether the number in the textbox „getnum" is palindrome or not. Print the message accordingly in the label control named lbl display when the user clicks on the button „check".
10. Write a program to declare class „Distance" have data members dist1,dist2 ,dist3. Initialize the two data members using constructor and store their addition in third data member using function and display addition.
11. Define a class „salary" which will contain member variable Basic, TA, DA, HRA. Write a program using Constructor with default values for DA and HRA and calculate the salary of employee.
12. Write a program to check whether the given number is armstong number or not.
13. Write a console application for bank account in C# .Net.
14. Write a console application to display student information using class and object.
15. Write a console application to display employee information using properties.
16. Write a console application for a class person having data members name & age. Accept the value for this using constructor. And display the output for one object.
17. Write a console application containing a method that will swap the value of two integer type variable.
18. Write a console application calculate the area and circumference of circle &rectangle using inheritance .
19. Write a program for calculates the area and circumference of circle & rectangle using abstract class.
20. Design a sign Up form & validate user phone no with exactly 10 digit and email-id.
21. Design a sign up form & validate username (minimum 8 characters &maximum 15 and only character) password and retype password (both should be same)
22. Design a web application form having loan amount, interest rate and duration fields. calculate the simple interest and perform necessary validation ie Ensures data has been entered for each field. Checking for non numeric value.
23. Create an application which will ask the user to input his name and a message, display the two items concatenated in a label, and change the format of the label using radio

buttons and check boxes for selection , the user can make the label text bold ,underlined or italic and change its color . include buttons to display the message in the label, clear the text boxes and label and exit.

24. List of employees is available in listbox. Write an application to add selected or all records from listbox (assume multi-line property of textbox is true).

25. "How is the book ASP.NET with c# by Raj Sharma?" Give the user three choice :i)Good ii)Satisfactory iii)Bad. Provide a VOTE button. After user votes, present the result in percentage using labels next to the choices.

26. Create a project that calculates the total of fat, carbohydrate and protein. Allow the user to enter into text boxes. The grams of fat, grams of carbohydrate and grams of protein. Each gram of fat is 9 calories and protein or carbohydrate is 4 calories. Display the total calories of the current food item in a label. Use to other labels to display and accumulated some of calories and the count of items entered. The form food have 3 text boxes for the user to enter the grams for each category include label next to each text box indicating what the user is enter.

27. Create a Global.asax file with Application variables cont, color1 and gotohp. Create a Session variable called cont1. Initialize cont as 0 and assign any color to color1. For the variable gotohp, give a hyperlink to any Website. Use the variables in a Web Form. Try these with the lock and unlock methods.

28. Write a prgoram that gets user input such as the user name, mode of payment, appropriate credit card. After the user enters the appropriate values the Validation button validates the values entered.

29. Programs using ASP.NET Server controls. Create the application that accepts name, password ,age , email id, and user id. All the information entry is compulsory. Password should be reconfirmed. Age should be within 21 to 30. Email id should be valid. User id should have at least a capital letter and digit as well as length should be between 7 and 20 characters.

30. Database programs with ASP.NET and ADO.NET. Create a Web App to display all the Empname and Deptid of the employee from the database using SQL source control and bind it to GridView . Database fields are(DeptId, DeptName, EmpName, Salary)

31. Database programs with ASP.NET and ADO.NET Create a Login Module which adds Username and Password in the database. Username in the database should be a primary key.

32. Write a program to get a user input such as the boiling point of water and test it to the appropriate value using Compare Validator.

33. Database programs with ASP.NET and ADO.NET Create a web application to insert 3 records inside the SQL database table having following fields(DeptId, DeptName, EmpName, Salary). Update the salary for any one employee and increment it to 15% of the present salary. Perform delete operation on 1 row of the database table.

34. Create a web page to display the cricket score from the table event (id, name, score). Refresh the website automatically after every 30 seconds.

35. Write a program to display three images in a line. When any one of the images is clicked, it must be displayed below. On clicking the displayed image it must be cleared.

36. Design a college website(minimum 4 pages)

37. Design a company website(minimum 4 pages)

PRACTICAL LIST ON MOBILE APPLICATION DEVELOPMENT

1. Installing Android Environment
2. Create "Hello World" application. That will display "Hello World" in the middle of the screen in the emulator. Also display "Hello World" in the middle of the screen in the Android Phone.
3. Create an application with login module. (Check username and password).
4. Create spinner with strings taken from resource folder (res >> value folder) and on changing the spinner value, Image will change.
5. Create a menu with 5 options and selected option should appear in text box.
6. Create a list of all courses in your college and on selecting a particular course teacher-in-charge of that course should appear at the bottom of the screen.
7. Create an application with three option buttons, on selecting a button color of the screen will change.
8. Create and Login application as above. On successful login, pop up the message.
9. Create an application to Create, Insert, update, Delete and retrieve operation on the database.
10. Create a Simple Application using Android Resources.
11. Create a Simple Application using Layouts.
12. Create a Simple Application using Intents.
13. Create a Simple Application using user interfaces.
14. Create a Simple Application for playing Audio and Video files.

5B.Sc. (MM) 5
OE-5: Data Analytics for Journalism

| Theory | 00 | Practical | 40 | Internal | 10 | Credits | 3 |

COURSE OBJECTIVES

1. Learn the basics of Data Analytics
2. Use of Excel spreadsheets and various basic data functions of Excel.
3. Learn various Excel functions to organize and query data
4. Learn how to set filters in data to selectively access data
5. Understand various charts and get to build own charts

COURSE OUTCOMES (CO):

1. Student can think critically about the uses of Data Analysis in Journalism
2. Student can Examine spreadsheet concepts and explore the Microsoft Office Excel environment
3. Student will obtain basic skills in Data Collection and Correction
4. Student will get working knowledge of Excel
5. Student will visualize data using appropriate tools

UNIT-1	Introduction to Data Analytics	L	T	P
1.1	Concepts of Data (Discussion, Assignment)		1	1
1.2	Concepts of Data Analytics (Discussion, Participation)		1	1
1.3	Data Analytics using Spreadsheets. (Discussion, Practice)		1	2
1.4	Finding Stories in Spreadsheets (Discussion, Practice, Assignment)		1	2
1.5	Data Analysis and Management (Discussion, Quiz)		1	2

UNIT-2	Data Management Using Spreadsheet	L	T	P
2.1	Introduction to Spreadsheets (Discussion, Practice, Assignment)		1	2
2.2	Reading data into Excel using various formats (Discussion, Practice, Assignment)		1	2
2.3	Basic functions in Excel, arithmetic as well as various logical functions (Discussion, Practice)		1	2
2.4	Formatting rows and columns (Discussion, Practice)		1	2
2.5	Using formulas in Excel and their copy and paste using absolute and relative referencing. (Practice)			2

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UNIT-3	Data Management Using Spreadsheet	L	T	P
3.1	Spreadsheet Functions to Organize Data (Discussion, Practice)		1	2
3.2	IF and the nested IF functions (Discussion, Practice, Assignment)		1	2
3.3	VLOOKUP and HLOOKUP (Discussion, Practice,)		1	2
3.4	The RANDBETWEEN function (Discussion, Assignment)		1	2
3.5	Spreadsheet Functions to Organize News Data – Case Study (Practice)			2

UNIT-4	Filtering, Pivot Tables, and Charts	L	T	P
4.1	Introduction to Filtering, Pivot Tables, and Charts (Discussion, Practice)		1	2
4.2	VLOOKUP across worksheets (Practice)			2
4.3	Data filtering in Excel (Discussion , Practice)		1	2
4.4	Use of Pivot tables with categorical as well as numerical data (Discussion, Practice)		1	2
4.5	Charting capability of Excel for News Data (Discussion, Practice)		1	2

UNIT-5	Advanced Graphing and Charting in Excel	L	T	P
5.1	Line, Bar and Pie charts. (Discussion , Practice)		1	2
5.2	Pivot charts (Practice)			2
5.3	Scatter plots(Discussion, Practice)		1	2
5.4	Histograms (Discussion,Practice)		1	2
5.5	Graphs and Charts for News Data (Discussion, Practice)		1	2

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Practical / Projects/Assignments:

1. Work with Cells and Worksheets
2. Calculate the given Data
3. Format the Workbook
4. Add Charts and Graphics
5. Collaborate with Others
6. Analyze the given Data
7. Case study: When you get data in sentences: using SEARCH and error handling to extract numbers from phrases
8. Publishing live data in a live chart
9. Saving time to hit a deadline: repeating and fixing a calculation across cells
10. How to put the story into context, or looking from a fresh angle: merging data from different tables using VLOOKUP

Suggested Readings:

1. Spreadsheets for Journalism, Brant Houston, 2019
2. Finding Stories in Spreadsheets Paul Bradshaw
3. Microsoft Excel 2016 Bible: The Comprehensive Tutorial Resource by John Walkenbach, WILEY Publications, ISBN-13: 978-1119067511
4. Excel 2016 ALL-IN-ONE for Dummies by Greg Harvey, ISBN-13: 978-1119077152

E-Resources:

1. Learn excel - free online excel training accessed at https://trumpexcel.com/learn-excel/
2. Excel lecture notes accessed at https://owerricbt.files.wordpress.com/2017/02/excel-lecture-notes3.pdf

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