

3002	1800.21	01/03/21	2019	1004
3005	1650.54	01/03/21	2018	1002
3006	1808.61	01/03/21	2016	1005
3009	1719.32	10/04/21	2013	1008
3007	57.57	10/04/21	2017	1004
3008	7432.00	11/05/21	2020	1005
3010	3108.59	11/05/21	2012	1002
3011	8981.88	11/05/21	2011	1008

Practical List – 1

Solve the following queries using above databases and where clause range searching and pattern matching.

1. Produce the order no, amount and date of all orders.
2. Give all the information about all the customers with salesman number 1001.
3. Display the following information in the order of city, Sname, Snum and commission.
4. List of rating followed by the name of each customer in Surat.
5. List of snum of all salesmen with order in order table without any duplicates.
6. List of all orders for more than Rs.1000. List of names and cities of all salesmen in London with commission above 10% List all customers excluding those with rating ≤ 100 unless they are located in London
7. List all orders for more than Rs.1000 except the orders of snum<1006 of 10/03/21.
8. List all order taken on October 3rd or 4th or 6th, 2008.
9. List all customers whose names begins with a letter 'A'.
10. List all customers whose names begins with letter 'A' to 'G'.
11. List all orders with zero or NULL amount.

Practical List – 2

1. Solve the following queries using above databases and where clause range searching and pattern matching
2. List all salesmen with their % of commission.
3. Display the no. Of orders for each day in the descending order of the no. Of orders in the following format. FOR dd-mm-yy, there are ____ Orders.
 - a. Assume each salesperson has a 12% commission. Write a query on the order table that will produce the order number, salesman no and the amount of commission for that order.
4. Find the highest rating in each city in the form: For the city (city), the highest rating)
5. List all in descending order of rating. Calculate the total of orders for each day and place the result in descending order.

BCA410: Web Technologies (Discipline Specific Core Course)

Credit 06

Total Marks: 100 Marks (Theory: 75 Marks, Internal Assessment: 25 Marks)

Workload: 4 Lectures (Per Week), 4 Practical (Per Week)

Course Objectives:

The course content enables students to:

1. Understand best technologies for solving web client/server problems

2. Analyze and design real time web applications
3. Use Java script for dynamic effects and to validate form input entry
4. Analyze to Use appropriate client-side or Server-side applications

Course Outcomes:

At the end of the course students are able to:

1. Choose, understand, and analyze any suitable real time web application.
2. To develop and deploy real time web applications in web servers and in the cloud.
3. Extend this knowledge to .Net platform



UNIT-I: 10 mark

Introduction to Web Design: Introduction of Internet, WWW, What is Website? How the Website Works?, Web pages, Front End, Back End, Client and Server Scripting Languages, Responsive Web Designing, Types of Websites (Static and Dynamic Websites) . Editors Notepad, Downloading free Editors: Notepad++, Sublime Text Editor, Making use of Editors, File creation and editing, saving

UNIT-II : 10 mark

HTML: Introduction, Basic Structure of HTML , Head Section and Elements of Head Section, Formatting Tags :Bold , Italic, Underline, Strikethrough, Div, Pre Tag Anchor links and Named Anchors ImageTag, Paragraphs, Comments, Tables : Attributes – (Border, Cellpadding, Cellspacing , height , width), TR, TH, TD, Rowspan, Colspan Lists : Ordered List , Unordered List, Definition List, Forms, Form Elements, Input types, Input Attributes, Text Input Text Area, Dropdown Radio buttons , Check boxes ,Submit and Reset Buttons Frames : Frameset , nested Frames HTML 5 Introduction , HTML5 New Elements: Section , Nav, Article , Aside, Audio Tag, Video Tag, HTML5 Form Validations: Require Attribute, Pattern Attribute , Autofocus Attribute, email, number type, date type , Range type. Introduction to CSS, Types of CSS, CSS Selectors : Universal Selector ,ID , Tag Selector, Class Selector, Sub Selector, Attribute Selector, Group Selector, CSS Properties : Back Ground properties , Block Properties , Box properties , List properties , Border Properties , Positioning Properties, CSS Lists CSS Tables, CSS Menu Design CSS Image Gallery,

UNIT-III: 15 mark

Introduction to CSS: Types of CSS, CSS Selectors : Universal Selector ,ID , Tag Selector, Class Selector, Sub Selector, Attribute Selector, Group Selector, CSS Properties : Back Ground properties , Block Properties , Box properties , List properties , Border Properties, Positioning Properties, CSS Lists CSS Tables, CSS Menu Design CSS Image Gallery.

Web Site Development using W3.CSS Framework, W3.CSS Intro, W3.CSS Colors, W3.CSS Containers, W3.CSS Panels, W3.CSS Borders, W3.CSS Fonts, W3.CSS Text, W3.CSS Tables, W3.CSS List, W3.CSS Images, W3.CSS Grid

UNIT-IV: 15 mark

Javascript and Angular Js Introduction to Client Side Scripting Language, Variables in Java Script, Operators in JS, Conditions Statements, JS Popup Boxes, JS Events, Basic Form Validations in JavaScript.

UNIT-V: 15 mark

PHP Programming: Introducing PHP: Creating PHP script, Running PHP script. Working with Variables and constants: Using variables, Using constants, Data types, Operators.

Controlling program flow: Conditional statements, Control statements, Arrays, functions. Working with forms.

UNIT-VI: 15 mark

Web Publishing and Browsing Overview, SGML, Web hosting Basics, HTML, CGL, Documents Interchange Standards, Components of Web Publishing, Document management, Web Page Design Consideration and Principles, Search and Meta Search Engines, WWW, Browser, HTTP, Publishing Tools

Text Books:

1. ITL Education Solution Limited, Introduction to Information Technology, Pearson Education, 2012 DT Editorial Services, HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery), Second Edition, Dreamtech Publisher, 2016
2. Web Technologies, Uttam Roy, OXFORD University press
3. Web programming with HTML, XHTML and CSS, 2e, Jon Duckett, Wiley Achyut Godbole, Atul Kahate, Web Technologies, Third Edition, Mc Graw Hill Education.
4. O level Web design and Publishing .

Reference Books:

1. Web programming Bai, Michael Ekedahl, CENAGE Learning, India edition.
2. An Introduction to Web Design + Programming, Paul S.Wang, India Edition Sharma & Sharma, "Developing E-Commerce Sites", Addison Wesley Ivan Bayross, "Web Technologies Part II", BPB Publications

Practical (Web Technologies)

1. Create an HTML file (e.g. first_page.html) that specifies a page that contains a heading and two paragraphs of text. As the texts in the heading and paragraphs you can use any texts you like.
2. Write a HTML program to design a form which should allow to enter your personal data (Hint: make use of text field, password field, e-mail, lists, radio buttons, checkboxes, submit button)
3. Write HTML Code to demonstrate the use of Anchor Tag for the Following:-
 - a. Creating a web link that opens in a new window.
 - b. Creating a web link that opens in the same window
 - c. Reference within the same html document.
 - d. Reference to some image.
 - e. Making an image a hyperlink to display second image
4. Create an html page with following specifications. Title should be about my City. Place your City name at the top of the page in large text and in blue color. Add names of landmarks in your city each in a different color, style and typeface. One of the landmark, your college name should be blinking. Add scrolling text with a message of your choice
5. Create an html page with 7 separate lines in different colors. State color of each line in its text.
6. Create an html page containing the polynomial expression as follows : $a^0 + a^1x + a^2x^2 + a^3x^3$
7. Write a HTML code to generate following output

First Frame: Name and address		
Second frame		Third frame
Bulleted list of qualifications		Links to favourite sites
Fourth frame	Fifth frame	Sixth frame
Scrolling message	Blinking reminders	Image

8. Create a HTML Document with JavaScript code that has three Textboxes and a button. The details should be accepted using textboxes are principal, rate of interest, and duration in years. When user clicks the OK Button a message box appears showing the simple interest of principal amount.
9. Write a HTML Script to insert a hyperlink. Create a hyperlink in html which when clicked links to www.google.com in a new window. Create a HTML file which displays three images at LEFT, RIGHT and CENTER respectively in the browser.
10. Create table with ROWSPAN and COLSPAN attribute of TABLE in HTML (Prepare timetable of your class). Include CELSPACING & CELL PADDING.
11. Create a web page, divide the web page into four frames. In one frame create three links that will display different HTML forms in the remaining three frames respectively.
12. Write a program in Java Script to print factorial
13. With CSS use the shorthand background property to set background image to eg. "xyz.png", show it once, in the top right corner.
14. Write a program in javascript to generate series of prime numbers. Write a JavaScript program to display the current day and time in the following format.
 - a. Sample Output: Today is: Tuesday.
 - b. Current time is: 10 PM: 30:38
15. Write a program to sum and multiply of two numbers using JavaScript.
16. Write a program to redirect, popup and print function in JavaScript.
17. Create your first "Hello world" application in AngularJS.
18. Write a code to display the words "AngularJS" in both text format and in a text box when the page is viewed in the browser.
19. Create a sample form program that collects the first name, last name, email, user id, password and confirms password from the user. All the inputs are mandatory and email address entered should be in correct format. Also, the values entered in the password and confirm password textboxes should be the same. After validating using JavaScript, in output display proper error messages in red color just next to the textbox where there is an error.

BCA511: Computer Networks (Discipline Specific Core Course)

Credit: 06

Total Marks: 100 Marks (Theory: 75 Marks, Internal Assessment: 25 Marks)

Workload: 4 Lectures (Per Week), 4 Practical (Per Week)

Course Objective

This course covers the concepts of data communication and computer networks. It comprises of the study of the standard models for the layered protocol architecture to communicate between autonomous computers in a network and also the main features and issues of communication protocols for different layers. Topics covered comprise of introduction to OSI and TCP/IP models also.

Course Learning Outcomes

On successful completion of the course, the student will be able to:

1. Describe the hardware, software components of a network and their interrelations.
2. Compare OSI and TCP/IP network models.
3. Describe, analyze and compare different data link, network, and transport layer protocols.