

## Course Name: Internet and Web Technology (BCST-504(C))

### Course Outcomes (CO):

After completion of the course students will be able to

1. Describe the concepts of WWW including browser and HTTP protocol.
2. List the various HTML tags and use them to develop the user friendly web pages.
3. Define the CSS with its types and use them to provide the styles to the web pages at various levels.
4. Develop the modern web pages using the HTML and CSS features with different layouts as per need of applications.
5. Use the JavaScript to develop the dynamic web pages.
6. Use server side scripting with PHP to generate the web pages dynamically using the database connectivity.
7. Develop the modern Web applications using the client and server side technologies and the web design fundamentals.

**Model Question Paper**  
**Total Duration (H:M): 3:00**  
**Course: Internet and Web Technology**  
**Maximum Marks: 100**

Q.No	Questions	Marks	CO	BL	PI
1(a)	Suppose we wish to create a web site , where each page contains its specific style. How might we take advantage of the CSS for styling of web page at various levels?	4	CO3	L3	1.4.1
1(b)	With the help of suitable code snippets and useful HTML tags , “create a most user friendly web page”	6	CO2	L2	1.4.1
1(c)	Using the various protocols tree create all web pages for <ul style="list-style-type: none"> <li>• Automated Admission Portal</li> <li>• Cab Booking</li> </ul>	10	CO1	L2	1.4.1
2(a)	Differentiate between HTML and XML with suitable code snippets.	4	CO1	L3	1.4.1
2(b)	Design using modern techniques all web pages for Online admission web Portal.	6	CO4	L3	1.4.1

2(c)	Write a java script code for dynamic interactive web portal for automated online attendance system .	10	CO5	L4	1.4.1
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Q.No	Questions	Marks	CO	BL	PI
3(a)	What are the benefits of implementing in PHP over the other web languages for better database connectivity and other issues	4	CO6	L1	1.4.1
3(b)	Complete the function described below: Function Name: Secure login Input Params: user name /phone number,OTP Return URL: Main Dashboard Description: A user wants to login securely . For input “user id/phone number ”, the function should produce “OTP OF FIVE DIGITS”. Do not use any inbuilt method for handling functions.	6	CO1	L3	1.4.1
3(c)	Write the modules to implement the following using Java Script : <ul style="list-style-type: none"> <li>• Check if the given user id is available</li> <li>• Sort the given set of user ids in chronological order</li> </ul>	10	CO3	L3	1.4.1
4(a)	You have been invited to a talk on Internet and Web Technology i) Which tools you use for interactive session? Justify. ii) How you interact everyone present and during each meeting, you talk about everyone in the room. To what extent of latest technologies does this talk cover in 1 hour? Justify.	4	CO7	L6	1.1.2
4(b)	Create a web pages for: News website Can you implement it without using RSS feed? Justify your answer.	6	CO3	L3	1.4.1
4(c)	Apply Event Handling in Java Script for Locating position of pointer on screen  What are Event Objects ? On what design technique does the Event Objects applied? Explain.	10	CO7	L3	1.4.1
5(a)	Bring out the differences between PHP and Java Script . Also compare with respect to response analysis.	4	CO4	L2	1.4.1
5(b)	Write a function for given below description: ALGORITHM Authentication(P) // P is the password entered by the user against his valid user id	6	CO3	L3	1.4.1

Q.No	Questions	Marks	CO	BL	PI
5(c)	Apply CSS techniques on the following: “Portal for Online Hospital Management System Write the main modules of it in any web language.	10	CO4	L3	1.1.2
6(a)	Write the design of portals for the given below problems: i) Tracking System ii) Reservation System iii) Expert System for Medicine iv) Pension System v) Government Policy and their Monitoring	4	CO4	L2	1.4.1
6(b)	A DNA sequence consists of a text on the alphabet {A, C, G, T} and the gene or gene segment is the pattern. For the pattern for chromosome-10: TCCTATTCTT construct the following tables: i) Using HTML only ii) Using PHP	6	CO4	L3	1.4.1
6(c)	Write a function to VALIDATE the user details for Gas Booking. Suitably comment the code explaining each of the cases.	10	CO3	L3	1.4.1
7(a)	What are the benefits of XML?	4	CO5	L1	1.4.1
7(b)	Explain AJAX with help of a suitable program. Explain each of the parameter it takes in detail.	6	CO5	L3	1.4.1
7(c)	A file consists of user Aadhar data . Write a program to read and count the number of users not having PAN card linked to it. Write the individual count in a separate file. Also find the size of the file using PHP and MySQL.	10	CO5	L3	1.4.1
8(a)	What do you mean by DTD?	4	CO5	L1	1.4.1
8(b)	Differentiate between the DTD and XML	6	CO5	L2	1.4.1
8(c)	With a help of a suitable program explain the concept of Client Server Model and how they can be used as an efficient communication means.	10	CO5	L3	1.4.1