

**BHARATHIAR UNIVERSEITY, COIMBATORE.**

**DIPLOMA IN WEB SERVER ADMINISTRATION**

**(for Community College)**

**(for the candidates admitted form the academic year 2017-18 onwards)**

**SCHEME OF EXAMINATIONS**

<b>S.No</b>	<b>Name of the Subject</b>	<b>Marks</b>
<b>1</b>	<b>Windows Server Administration</b>	<b>100</b>
<b>2</b>	<b>Web Server Administration</b>	<b>100</b>
<b>3</b>	<b>Web Technology</b>	<b>100</b>
<b>4</b>	<b>Content Management System</b>	<b>100</b>
<b>5.</b>	<b>Web Technology Lab</b>	<b>100</b>
	<b>Total</b>	<b>500</b>

**Course Duration 1 year**

## **Paper 1 : Windows Server Administration**

### **Unit - I:**

Deploying and updating windows server 2012 – Configuring and servicing windows 2012 images – understanding windows images – configuring Windows images – Servicing Windows Images – Automated Deployment of Windows Server 2012 images – Automating Installation – Configuring Answer files – Windows Deployment Services – WDS Requirements – Managing Images – Configuring Transmissions.

### **Unit – II:**

Managing account policies and service accounts – Implementing domain password and lockout policies – domain user password policies – Account Management tasks – Using fine-grained password policies – Mastering group managed Service accounts – Configuring Name resolution – DNS Zones and Forwarders – WINS and globalnames zones – Advanced DNS options.

### **Unit – III:**

Administering Active Directory – Domain Controller management – Domain Controller Maintenance – Active directory database optimization – Active directory Metadata cleanup – Active directory snapshots – Active directory Recovery - Active directory recyclebin - Active directory backup

### **Unit – IV:**

Managing Group policy application and Infrastructure – Group Policy Maintenance – Managing Group Policy Objects – Migrate Group Policy Objects – Delegate GPO Management – Managing Group Policy Application – Group policy settings and preferences – Administrative Templates – Group policy preferences

### **Unit – V:**

Administering network policies – Network policy server policies – Network access protection enforcement methods – Network access protection infrastructure – Administering remote access.

### **Text Book :**

Orin Thomas, “Windows server 2012 – Training Guide”, O’Reilly Media, Inc.

## **Paper 2 : Web Server Administration**

### Unit I:

Commands - Basic Linux commands - Basic Windows server commands

### Unit II:

Basic Web server hardware requirements- Install and configure a Web server - Apache Internet information server

### Unit III

Configure the Domain Name server - Manage Web server tasks such as: User authentication - Setup users and groups - Manage file system permissions - Share resources (such as folders for web publishing) - Secure a Web server

### Unit IV

Configuration of multiple Web sites on a Web server

### Unit V

Configuration and support of e-mail services

### Text Book :

- Charles Aulds, Linux Apache Web Server Administration, Wiley Publishers, 2012, ISBN: 978-0-7821-2734-8

## **Paper 3 : Web Technology**

**Unit - I: Introduction** - The internet in Industry and research – HTML5, CSS3, Javascript – Evolution of the Internet and WWW – Web Basics – Multitier Application Architecture – Client side vs Server side scripting – W3C – HTML5 – Headings – Linking – Images - special characters and Horizontal rules – Lists – Tables – Forms.

**Unit – II :** HTML Form Input types – Color – Date – Datetime – email – month – number – range – search – time – Input and Datalist elements and auto complete attribute – Page structure elements – Header – Nav – section and footer element.

**Unit – III:** Introduction to Cascading style sheet – inline styles – embedded styles – Linking external style sheets – positioning elements – backgrounds – drop-down menus – Text shadows – rounded corners – color – box shadows – Multiple Background images – Animations – Transitions and Transformations

**Unit – IV: Introduction to Scripting** - Your first script – obtaining user input with prompt dialogs – Arithmetic – Decision Making :Equality and Relational Operators – Control statements – if – if..else – while – increment and decrement operators – For Statement – switch – do...while – break and continue – logical operators.

**Unit – V:** Javascrit : Functions – Recursion – Arrays – Sorting Arrays with Array Method Sort – Searching Arrays with Array Method indexof – Multidimensional Arrays – Math Object – String Object – Date Object – Javascript Event Handling – Rollover with Mouseover and mouseout – Event Bubbling.

### **Text Book :**

1. Paul Deitel, Harvey Deitel, and Abbey Deitel, “Internet and World Wide Web – How to Program”, 5<sup>th</sup> Edition, Pearson Education, 2012.

## **Paper 4: Content Management System**

### **Unit - I:**

Introduction – What is Content – Content and Intellectual Property rights – CMS versus DAM-S and MAM-S – Application Domains – Content Management in Television, radio and media production, non-media organization, advanced media services.

### **Unit – II:**

Content Management: the problem illustrated – Media and essence handling requirement – Requirements for metadata creation and handling – user requirements example – Content related workflows – workflows in broadcast – workflows in e-commerce – content-related workflows in corporate and other organization

### **Unit – III:**

Essence – the different forms of essence – Encoding and compression basics – Video – Audio – image, web, text and other essence formats – essence processing

### **Unit – IV:**

Content Representation and Metadata – Metadata – Metadata access and exchange – Metadata description schemes – Standards for metadata transmission and exchange – File formats

### **Unit – V:**

Content Management System Architecture – Software design principles – Software architecture – CMS Component software architecture – the core – Content Management system Infrastructure

### **Text Book :**

Dr Andreas Mauthe, Dr Peter Thomas, “Professional Content Management Systems Handling Digital Media Assets”, Willey, 2004.

**Paper 5 – Web Technology Lab**

**Practical**

1. Write an HTML code to display your education details in a tabular format.
2. Write an HTML code to display your CV on a web page.
3. Write an HTML code to create a Home page having three links: About Us, Our Services and Contact Us. Create separate web pages for the three links.
4. Write an HTML code to create a login form. On submitting the form, the user should get navigated to a profile page.
5. Write an HTML code to create a Registration Form. On submitting the form, the user should be asked to login with this new credentials.
6. Write an HTML code to create your Institute website, Department Website and Tutorial website for specific subject.
7. Write an HTML code to illustrate the usage of the following:
  - a. Ordered List
  - b. Unordered List
  - c. Definition List
8. Write an HTML code to create a frameset having header, navigation and content sections.
9. Write an HTML code to demonstrate the usage of inline CSS.
10. Write an HTML code to demonstrate the usage of internal CSS.
11. Write an HTML code to demonstrate the usage of external CSS.
12. Write a Java script to prompt for users name and display it on the screen.
13. Design HTML form for keeping student record and validate it using Java script.
14. Write programs using Java script for Web Page to display browsers information.
15. Write a JavaScript program to demonstrate looping
16. Write a JavaScript program to find the factorial of given number.
17. Write a JavaScript program to find the given text is palindrome or not.
18. Write a JavaScript program to change the background of a browser.