

LESSON PLAN

Subject: WEB TECHNOLOGIES

Subject code: MCA-20-21

Semester: II

| Sno | Topic Name | No. of Lectures | CO Covered | Teaching Methodology |
|-----|--|-----------------|------------|---------------------------|
| 1 | Web browsers and its functions | 2 | CO1 | PPT + Board |
| 2 | Web optimizations | 2 | | PPT + Flip Learning |
| 3 | Static Page Design | 1 | | Board + PPT |
| 4 | HTML5 Basics (Tags, Structure) | 2 | | Board |
| 5 | Multimedia and Graphics in HTML | 1 | | Video + Board |
| 6 | Form Tags in HTML | 1 | | Board + PPT + Live Coding |
| 7 | CSS 2.0 Concepts and Properties | 2 | | PPT + Live Coding |
| 8 | CSS 3.0 Properties (Borders, Backgrounds, Fonts, Text Effects) | 2 | | Board + PPT + Coding |
| 9 | Buffering, Weblog, Web Cache Poisoning | 1 | | PPT + Flip Learning |
| 10 | Document Object Model (DOM) | 2 | CO2 | PPT |
| 11 | Obtaining User Inputs | 1 | | Board + Live Coding |
| 12 | Memory Concepts, Operators, Control Structures | 2 | | PPT + Board |
| 13 | Looping Constructs, Break, Continue Statements | 1 | | Board + Live Coding |

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| 14 | Programmer Defined Functions, Scoping Rules | 2 | | PPT + Coding |
| 15 | Recursion and Iteration | 1 | | Board + Coding |
| 16 | Array Declaration, Passing Arrays to Functions | 2 | | PPT + Board |
| 17 | Objects: String, Date, Boolean, Window, Document | 2 | | PPT + Live Coding |
| 18 | Cookies and Form Validation | 1 | | PPT |
| 19 | Installing and Configuring MySQL and PHP | 2 | CO3 | PPT + Live Demo |
| 20 | Basic Security Guidelines in PHP | 1 | | PPT |
| 21 | Variables, Data Types, Operators, Expressions, Constants | 2 | | Board + Live Coding |
| 22 | Flow Control Functions, Loops, Code Blocks | 2 | | PPT + Board |
| 23 | Objects and String Processing in PHP | 2 | | Board + Live Demo |
| 24 | Form Processing and Database Connectivity | 2 | | Live Coding + PPT |
| 25 | Cookies and Session Handling | 2 | | Live Coding |
| 26 | Introduction to AJAX | 2 | | PPT |
| 27 | Creating a Simple AJAX Application | 2 | | Live Coding + PPT |
| 28 | XMLHttpRequest Object and Interacting with the Web Server | 2 | | CO4 |
| 29 | Differentiating AJAX and Non-AJAX Applications | 1 | PPT + Flip Learning | |

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| 30 | Working with PHP and AJAX (Handling Client Requests) | 2 | Live Coding + Board |
| 31 | Implementing Security and Accessibility in AJAX Apps | 2 | PPT + Live Demo |

Total Lectures :52