| **Session** | **Topic Name** | **Sub-topic** |
| --- | --- | --- |
| 1 & 2 | **Web - Introduction** | **Introduction What is Web & History of Web? What is a web page? How does it work? What a browser does? What is W3C? The importance of W3C standards Overview of the Internet Overview of the World Wide Web (WWW) Email, SMTP MIME, FTP What is HTTP & HTTPS What is URL, URI & URN What is Client & Web Server? What is Hyperlink? Types of Web Pages & Web Sites** |
| 3 | **Introduction to HTML** | **What is HTML? HTML Editors HTML Versions Features of HTML Limitations of HTML** |
| 4 | **Introduction to HTML** | **<!DOCTYPE> HTML Version Info. Head Section Introduction to TAGS Types of Tags Structure of HTML Document HTML Comments** |
| 5 & 6 | **Presentational or Formatting Tags** | **Heading tags paragraph tag pre tag strong tag emphasis tag strike tag underline tag subscript tag subscript tag blockquote tag span tag label tag br tag** |
| 7 | **title and Html entities** | **Html entities  html hexadecimal codes title tag how to set logo/icon** |
| 8 | **attributes** | **What is attribute? Types of attributes html attributes vs css attributes** |
| 9 | **HTML Images** | **Web image formats**  **How images are used in web design**  **The image tag**  **Clickable images Image Links**  **Images types** |
| 10 | **Anchor Tag** | **The anchor tag Types of links Internal Links & External Links Text Links Picture Links Local Links Email links** |
| 11 | **working with colors** | **How to apply the color foreground color background color single color gradient colors** |
| 12 | **working with Lists** | **Making Unordered lists Making Ordered lists Legend tag fieldset tag** |
| 13 | **Div Tag** | **Div tag** |
| 14 | **HTML - Tables** | **Border Headings in a Table Empty Cells in a Table Declaring width & height Cellspacing& Cellpadding caption tag Colspan and Rowspan Nesting tables Alignment & Rules Attributes** |
| 15 | **HTML Forms** | **Introduction to forms GET vs. POST** |
| 16, 17, 18 & 19 | **HTML Form Controls** | **Input tag,**  **Input tag attributes,**  **Text fields,**  **Hidden fields,**  **Number fields,**  **Password fields,**  **Reset button,**  **Submit button,**  **Image button,**  **Checkbox control,**  **Radio button control,**  **Email field,**  **Url field,**  **Date field,**  **Time field,**  **File upload control, etc…** |
| 20 & 21 | **additional from controls** | **Select tag text area tag datalist tag** |
| 22 & 23 | HTML5 | **HTML4 Drawbacks Introduction to HTML5 New Features and groups Why HTML5? Structure of HTML5 Document New Semantic/Structural Elements details & summary tag output tag  figure tag figcaption tag header tag nav tag section tag article tag aside tag footer tag bdi tag mark tag base tag iframe tag etc…** |
| 24 | **Multimedia** | **Introduction What is Multimedia? Browser Support Video Formats Audio Formats Video on the Web HTML5 Video Tags HTML5 Audio Tags** |
| 25 | **Introduction to CSS** | **Introduction to CSS Why CSS Advantages Limitations Inline style Internal style sheet External style sheet** |
| 26 & 27 | **CSS Selectors** | **What is selector? Types of selectors universal selector tag selector id selector class selector group selector descendant selector direct descendant selector compound selector attribute selector pseudo selectors pseudo elements selector rules** |
| 28 | **CSS Text and Font Attributes** | **Font-size**  **Font-style**  **Font-family**  **Font-weight**  **Letter-spacing**  **Word-spacing**  **Line-height**  **Text-align**  **Text-decoration**  **Text-indent**  **Text-transform**  **Vertical-align**  **White-space**  **Cursor styles**  **Custom cursors** |
| 29 | **CSS box model** | **Css borders css margins css padding** |
| 30 | **CSS Lists & CSS Tables** | **List Different List Item Markers An Image as The List Item Marker List - Shorthand property Table Borders Collapse Borders Table Width and Height Table Text Alignment Table Padding Table Color** |
| 31 | **Advanced Cascading Style Sheets** | **Border-radius overflow display-flex display-grid Floating Navigation Bar Image Gallery Image Opacity Image Sprites Media Types** |
| 32 | **Border & Backgrounds** | **Introduction**  **Border-radius**  **Box-shadow**  **Border-image**  **Background-size**  **Background-position**  **Background-repeat**  **Text-shadow**  **Word-wrap** |
| 33 | **CSS3 Transforms** | **introduction 2D Transforms translate() rotate()**  **Scale() skew() matrix() rotatex() rotatey() etc..** |
| 34 | **CSS3 Transitions & Animations** | **Introduction transition-property transition-duration transition-delay CSS3 @keyframes Rule Browser Support Animation, animation-duration** |
| 35 | **What is Scripting Language?** | **Advantages of Scripting Languages Limitations of Scripting Languages Types of Scripts Difference between Scripting and Programming Langs. What is javascript? Who Developed? JS Versions Features of javascript What javascript can Do? Javascript Syntax** |
| 36 | **Basic of JavaScript** | **Types of JS**  **Inline script**  **Internal script**  **External script**  **Comments in JAVASCRIPT**  **Javascript Code**  **Javascript Blocks**  **<noscript> tag** |
| 37 | **Java Script Variables & datatypes** | **Javascript Naming Conventions Variable Declaration and the Assignment Operator working with var, let, const javascript datatypes what is loosely typed n JS what is dynamic declarations in JS what hoisting in JS javascript Popup Boxes** |
| 38 | **JavaScript Operators** | **Assignment Operators Arithmetic Operators Unary Operators - Incrementing and Decrementing  Comparison Operators String Operators Logical Operators Conditional Operators** |
| 39 & 40 | **Java Script Control Controls** | **What is control statement? Types of control statements if statement if else statement if else if statement switch statement for loop while loop do while loop break and continue statement label statement** |
| 41 & 42 | **Arrays** | **What is a Array advantages  How to Create a Array Initializing the Elements of an Array Accessing the Elements of a Array javascript Array Object Methods and Properties arrays for in loop arrays for of loop rest operator with array destructing array** |
| 43 & 44 | **Functions** | **Introduction to functions**  **Declaring and calling a function**  **Local variables, outer variables, shadowing**  **Working with function parameter & arguments**  **Return statement**  **Functions with rest operator**  **Default parameters**  **Function closures** |
| 45 | **Functional Expressions** | **Introduction to functional expression (anonymous) advantages of functional expr implementation of functional expr** |
| 46 | **Arrow Functions** | **Introduction to arrow functions  advantages of arrow functions limitations of arrow functions implementation of arrow functional** |
| 47 | **JavaScript Strings** | **Creating a javascript String Object javascript String Object Methods javascript String Object Properties javascript String Object Examples Getting the length of a String Object** |
| 48 | **Date, time and Math classes** | **Understanding System Time Creating a javascript Date Object Setting the Time and Date  Reading the Date and Time  Finding the Time Zone Offset and Getting Local Time**  **Javascript Math class Methods** |
| 49 | **JavaScript - Errors Handling** | **Try catch finally throw  onerror()** |
| 50 | **JS OOPs** | **Object Oriented Programming in javascript Types Of oops Introduction to Objects types of Object Creations Object Literals** |
| 51 | **JS OOPs** | **Construction Functions this keyword** |
| 52 | **JS OOPs** | **Functional/object inheritance call() function** |
| 53 | **JS OOPs** | **Introduction to classes**  **Class,**  **Properties,**  **Methods,**  **Constructors**  **Inheritance** |
| 54 | **JS DOM** | **Dom intro dom methods dom document dom elements** |
| 55 | **JS DOM** | **Dom html dom css dom animations** |
| 56 | **JS DOM** | **Dom events dom event listener dom navigation dom nodes dom collections** |
| 57 | **JavaScript Window Object** | **Referencing the javascript window Object javascript window Object Properties Opening Browser Windows using javascript Closing Browser Windows using javascript Moving and Resizing Windows Changing Window Focus** |
| 58 | **Events in JavaScript** | **What is event hadling?**  **Types of event handling**  **Click**  **Dblclick**  **Focus**  **Load**  **Mouseout**  **Mouseover**  **Reset**  **Select**  **Submit**  **Keypress etc..** |
| 59 | **Javascript validations** | **What is validation? Types of validations form validations** |
| 60 | **Regular Expressions** | **Introduction regexpr attributes regexpr methods  client side validations** |
| 61 | **Web Hosting (Live Web Site)** | **What is Web Hosting? Hosting Types: What is Domain Name? General Domains Top Level Domains How to Register a Domain Name?** |