HTML/CSS/JavaScript Content (Regular batch)

Topic Name	Sub-topic
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
Introduction to HTML	What is HTML? HTML Editors HTML Versions Features of HTML Limitations of HTML
Introduction to HTML	<!DOCTYPE> HTML Version Info. Head Section Introduction to TAGS Types of Tags Structure of HTML Document HTML Comments
Presentational or Formatting Tags	Heading tags, paragraph tag, strong tag, emphasis tag strike tag, underline tag, subscript tag, subscript tag span tag, label tag, br tag
title and Html entities	Html entities title tag how to set logo/icon
attributes	What is attribute? Types of attributes html attributes vs css attributes
HTML Images	Web image formats How images are used in web design The image tag Clickable images Image Links Images types
Anchor Tag	The anchor tag Types of links Internal Links & External Links Text Links

	Picture Links...
working with colors	**How to apply the color** **foreground color** **background color** **single color** **gradient colors**
working with Lists	**Making Unordered lists** **Making Ordered lists** **Legend tag** **fieldset tag**
Div Tag	**Div tag**
HTML - Tables	**Headings in a Table** **Empty Cells in a Table** **Declaring width & height** **caption tag** **Colspan and Rowspan** **Nesting tables etc..**
HTML Forms	**Introduction to forms** **GET vs. POST**
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 buttons,** **Email field,** **Url field** **, Date field** **, Time field,** **File upload control, etc...**
additional from controls	**Select tag** **text area tag** **datalist tag**
HTML5	**HTML4 Drawbacks** **Introduction to HTML5** **Structure of HTML5 Document** **New Semantic/Structural Elements** **details & summary tags, 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…
Multimedia	What is Multimedia?
	Browser Support
	Video Formats
	Audio Formats
	Video on the Web
	HTML5 Video Tags
	HTML5 Audio Tags
Introduction to CSS	Introduction to CSS
	Why CSS
	Advantages
	Limitations
	Inline style
	Internal style sheet
	External style sheet
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, etc..
	selector rules
CSS Text and Font Attributes	Font-size
	, Font-style
	, Font-family,
	Font-weight
	, Letter-spacing,
	Word-spacing,
	Line-height,
	Text-align,
	Text-decoration,
	Text-transform,
	Vertical-align,
	Cursor styles, etc…
CSS box model	Css borders
	css margins
	css padding
CSS Lists & CSS Tables	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
Advanced Cascading Style Sheets	Border-radius, overflow, display-flex, display-grid Floating, Navigation Bar, Image Gallery, Image Opacity Image Sprites, etc...
Border & Backgrounds	Introduction Border-radius, Box-shadow, Border-image Background-size, Background-origin, Text-shadow , etc...
CSS3 Transforms	introduction 2D Transforms translate() rotate() Scale() skew() matrix() rotatex() rotatey() etc..
CSS3 Transitions & Animations	Introduction transition-property transition-duration transition-delay CSS3 @keyframes Rule Browser Support Animation, animation-duration
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
Basic of JavaScript	Types of JS Inline script Internal script External script Comments in JAVASCRIPT Javascript Code Javascript Blocks <noscript> tag
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
JavaScript Operators	Assignment Operators Arithmetic Operators Unary Operators - Incrementing and Decrementing Comparison Operators String Operators Logical Operators Conditional Operators
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 etc...
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
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
Functional Expressions	Introduction to functional expression (anonymous) advantages of functional expr implementation of functional expr
Arrow Functions	Introduction to arrow functions advantages of arrow functions limitations of arrow functions

	implementation of arrow functional
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**
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**
JS OOPs	**Object Oriented Programming in javascript** **Types Of oops** **Introduction to Objects** **types of Object Creations** **Object Literals**
JS OOPs	**Construction Functions** **this keyword**
JS OOPs	**Functional/object inheritance** **call() function**
JS OOPs	**Introduction to classes** **Class,** **Properties,** **Methods,** **Constructors** **Inheritance**
JS DOM	**Dom intro** **dom objects** **document object,** **Element object,** **Dom html** **dom css** **Dom events** **dom event listener** **dom collections etc...**
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**
JavaScript History Object & Cookies	**Introduction** **History object Attributes & Methods** **What is a javascript Cookie?**

	The Structure of a Cookie **Cookie Name / Value Pair** **Cookie Expiration Setting** **Creating a Cookie** **Reading a Cookie** **Removing a Cookie etc…**
Events in JavaScript	**What is event hadling?** **Types of event handling** **Click,** **Dblclick,** **Focus,** **Load , Mouseout** **, Mouseover** **, Change** **Submit, Keypress etc..**
Javascript validations	**What is validation?** **Types of validations** **form validations**
Regular Expressions	**Introduction** **regexpr attributes** **regexpr methods** **client side validations**
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?**