Here's a **detailed syllabus** covering **HTML, CSS, and JavaScript**, including all topics, subtopics, and sub-subtopics.

HTML Syllabus

1. Introduction to HTML

- What is HTML?

- HTML History

- HTML Editors

2. HTML Elements & Attributes

- Basic Tags (`<html>`, `<head>`, `<title>`, `<body>`)

- Heading Tags (`<h1>` - `<h6>`)

- Paragraph & Formatting Tags (`<p>`, `<br>`, `<b>`, `<i>`, `<u>`, `<strong>`, `<em>`, `<mark>`)

- HTML Attributes (`id`, `class`, `style`, `title`, `alt`, `href`)

3. HTML Links & Navigation

- `<a>` Tag (Internal & External Links)

- Open Links in New Tab (`target="_blank"`)

- Bookmarking with `id`

4. HTML Lists

- Ordered List (`<ol>`)

- Unordered List (`<ul>`)

- Description List (`<dl>`, `<dt>`, `<dd>`)

5. HTML Tables

- Creating Tables (`<table>`, `<tr>`, `<td>`)

- Table Headings (`<th>`)

- Row & Column Span (`rowspan`, `colspan`)

6. HTML Forms & Input

- Form Elements (`<form>`, `<input>`, `<textarea>`, `<button>`, `<select>`, `<option>`)

- Input Types (`text`, `email`, `password`, `number`, `radio`, `checkbox`, `file`)

- Form Validation (`required`, `min`, `max`, `pattern`)

7. HTML Multimedia

- Adding Images (`<img>`, `alt`, `src`)

- Audio (`<audio>`, `<source>`)

- Video (`<video>`, `<source>`, `controls`, `autoplay`)

- Embedding YouTube Videos

8. HTML Semantic Elements

-   `<header>`, `<footer>`, `<article>`, `<section>`, `<aside>`, `<nav>`

9. HTML5 New Features

- Canvas & SVG

- Local Storage & Session Storage

- Geolocation API

- Drag and Drop API

CSS Syllabus

1. Introduction to CSS

- What is CSS?

- Types of CSS (Inline, Internal, External)

- CSS Syntax & Selectors

2. CSS Selectors

- Basic Selectors (`*`, `element`, `.class`, `#id`)

- Attribute Selectors (`[type="text"]`, `[href^="https"]`)

- Pseudo-classes (`:hover`, `:focus`, `:first-child`)

- Pseudo-elements (`::before`, `::after`)

3. CSS Box Model

- Margin, Padding, Border

- Width & Height

- Overflow (`visible`, `hidden`, `scroll`)

4. CSS Positioning & Layouts

- Display Property (`block`, `inline`, `inline-block`, `none`)

- Position (`static`, `relative`, `absolute`, `fixed`, `sticky`)

- Float & Clear

5. CSS Flexbox

- Flex Container (`display: flex;`)

- Justify Content (`center`, `space-between`, `space-around`)

- Align Items (`stretch`, `center`, `flex-start`, `flex-end`)

- Flex Properties (`flex-grow`, `flex-shrink`, `flex-basis`)

6. CSS Grid

- Grid Container (`display: grid;`)

- Grid Template Rows & Columns

- Grid Gap, Grid Area

7. CSS Animations & Transitions

- CSS Transitions (`transition-property`, `transition-duration`)

- CSS Animations (`@keyframes`, `animation-name`, `animation-duration`)

8. Responsive Web Design (RWD)

- Media Queries (`@media (max-width: 768px)`)

- Mobile First Design

- Viewport Meta Tag

9. CSS Preprocessors (Optional)

- Introduction to SASS & LESS

- Variables & Nesting

JavaScript Syllabus

1. Introduction to JavaScript

- What is JavaScript?

- JavaScript History & Versions

- JavaScript Placement (Internal, External)

2. JavaScript Basics

- Variables (`var`, `let`, `const`)

- Data Types (String, Number, Boolean, Array, Object)

- Operators (`+`, `-`, `*`, `/`, `==`, `===`)

3. JavaScript Functions

- Function Declaration

- Function Expressions

- Arrow Functions (`=>`)

- Callback Functions

4. JavaScript Control Statements

- If-Else Statement

- Switch Case

- Loops (For, While, Do-While)

5. JavaScript Arrays

- Array Methods (`push()`, `pop()`, `slice()`, `splice()`)

- Iterating Arrays (`map()`, `forEach()`, `filter()`)

6. JavaScript Objects

- Object Properties & Methods

- Object Destructuring

- JSON (JavaScript Object Notation)

7. JavaScript DOM Manipulation

- Selecting Elements (`getElementById`, `querySelector`)

- Modifying Elements (`innerHTML`, `textContent`, `style`)

- Adding & Removing Elements (`appendChild`, `removeChild`)

8. JavaScript Events

- Event Listeners (`click`, `mouseover`, `keydown`)

- Event Bubbling & Capturing

9. JavaScript ES6+ Features

- Template Literals

- Destructuring Arrays & Objects

- Spread & Rest Operators

- Promises & Async/Await

10. JavaScript Asynchronous Programming

- Callbacks

- Promises (`then()`, `catch()`)

- Async/Await

11. JavaScript Modules

- Import & Export Modules (`import`, `export`)

12. JavaScript Error Handling

- Try, Catch, Finally

- Throwing Errors

13. JavaScript APIs & AJAX

- Fetch API

- XMLHttpRequest

- Working with REST APIs

This syllabus includes **all essential topics, subtopics, and sub-subtopics** for learning **HTML, CSS, and JavaScript**. Do you also want this structured into an **Excel sheet** for easy tracking?