🌱 **Digital Excellence Program – Class Plan** **Document Object Model (DOM) in JavaScript**

⏱ **Time & Activity Breakdown**

| **Time Slot** | **Activity** | **Description** |
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| First 5 minutes | Warm-up & Reflection | Start with a relatable question: **"Have you ever wondered how JavaScript knows what’s on a webpage?"**  Use this to introduce the DOM as a bridge between HTML and JS. |
| 40 minutes | Core Concept Explanation – I | **Topic: Understanding the DOM Structure**  Subtopics:  ▫ What is the DOM?  ▫ DOM as a tree of nodes and elements  ▫ Inspecting the DOM using browser DevTools |
| 10 minutes | Interactive Activity | Use a sample HTML page.  Ask students to:  – Open DevTools  – Hover and inspect elements  – Identify parent, child, and sibling relationships |
| 45 minutes | Core Concept Explanation – II | **Topic: Accessing and Modifying the DOM**  Subtopics:  ▫ Selecting elements: getElementById, getElementsByClassName, querySelector  ▫ Reading/modifying content with textContent, innerHTML  ▫ Changing styles with .style and .classList |
| 15–30 minutes | Doubt Solving Session – I | Students perform small tasks using JS in console:  – Change the text of a heading  – Modify a paragraph’s style  – Add or remove a class from an element  Mentors assist with syntax, selection confusion, and debugging |
| 5 minutes | Class Wrap-up | Recap:  – DOM as a representation of HTML  – How to select and change elements  Ask: “What’s one element you successfully changed today using JavaScript?” |

📘 **References & Notes**

* [DOM Introduction – MDN](https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction)
* [JavaScript DOM Tutorial – W3Schools](https://www.w3schools.com/js/js_htmldom.asp)

✅ **5 Checklist Questions to Assess Understanding**

1. What is the DOM and how is it related to HTML?
2. How can you select an element with the ID main-title?
3. What’s the difference between textContent and innerHTML?
4. How do you change the background color of an element using JavaScript?
5. What happens when you add or remove a class from an element?