Web Module Lesson Plan – Week 1

Introduction to Web Development with HTML

Lesson Objectives:

By the end of this week, learners will be able to:

1. Define web development and its significance.
2. Understand the role of HTML in web development.
3. Identify key features of HTML5 and its advantages over previous versions.
4. Recognize the importance of accessibility and SEO in web development.

Learning Outcomes:

Upon completing this week, learners will be able to:

- Explain what web development entails and differentiate between front-end and back-end development.
- Use HTML to structure a basic web page.
- Implement HTML5 elements correctly.
- Apply fundamental accessibility and SEO best practices in HTML.

Lesson Expectations:

- Engage with course materials and discussions.
- Complete small hands-on exercises in HTML.
- Participate in Q&A sessions to clarify concepts.
- Implement learned concepts in a simple HTML project.

Duration: 120 minutes

Lesson Outline:

Lesson 1: What is Web Development?

- Definition and importance of web development.
- Difference between front-end and back-end development.
- Introduction to web technologies (HTML, CSS, JavaScript).

Lesson 2: Purpose of HTML in Web Development

- What is HTML and why is it fundamental?
- Basic structure of an HTML document.
- Common HTML tags and their roles.

Lesson 3: HTML5

- Evolution from previous HTML versions.
- Key HTML5 features (semantic elements, multimedia support, forms, etc.).
- Practical examples of HTML5 elements.

Lesson 4: Accessibility and SEO Basics

- Importance of web accessibility and its impact.
- Basic accessibility practices in HTML.
- Introduction to SEO (search engine optimization) and how HTML structure affects rankings.
  -

AI Chatbot Prompts

These prompts cover a wide range of basic HTML topics and provide opportunities for practical learning through examples and exercises. They will help beginners build a solid foundation in HTML.

These prompts can be used to guide your learning and provide practical examples:

Basic HTML Structure

- "What is the basic structure of an HTML document?"
- "Can you show me an example of a simple HTML document?"
- "What are the main sections of an HTML document?"
- "What is the purpose of the <!DOCTYPE html> declaration?"

HTML Elements and Tags

- "What are HTML elements and tags?"
- "Can you explain the difference between block-level and inline elements?"
- "What are some common HTML tags and their uses?"

- "How do I create a hyperlink in HTML?"
- "How do I insert an image into my HTML document?"

Practical Examples and Exercises

- "Can you provide a simple example of an HTML page with a form, table, and list?"
- "How do I add comments in HTML and why are they useful?"
- "How do I create the basic structure of a html web page?"
- "How can I validate my HTML code to check for errors?"

Additional Resources:

🎥 Videos

1. **HTML5 Tutorial for Beginners | Full Course (FreeCodeCamp)**
   A beginner-friendly, in-depth guide to HTML5 (2+ hours). 🌟

2. **HTML Crash Course for Beginners | Traversy Media**
   A crash course covering HTML basics and semantic elements. 🚀

3. **HTML5 Basics | Programming with Mosh**
   A fast and clear explanation of HTML5 for beginners. 💡

4. **Semantic HTML5 Explained | Kevin Powell**
   A focused session on the importance of semantic HTML. 🎯

5. **HTML Forms Crash Course | Net Ninja**
   Learn how to build forms using HTML5 elements. 📋

6. **HTML5 Tags and Attributes | Tech with Tim**
   Covers a variety of tags and attributes in detail. 📌

7. **HTML5 Semantic Elements Tutorial | The Net Ninja**
   A hands-on approach to understanding `<header>`, `<footer>`, and more. 🔍

8. **Build Your First Webpage | FreeCodeCamp**
   Walks through creating a simple webpage step-by-step. 🛠️

9. **HTML for Absolute Beginners | Academind**
Breaks HTML into digestible concepts with clear examples. 📚

10. **HTML5 New Features | Dev Ed**
Highlights HTML5's unique and modern features. ✨

📚 Websites

Interactive Tutorials

1. **MDN Web Docs: HTML Guide**
The official documentation by Mozilla with examples and explanations. 🚀

2. **W3Schools: HTML5 Tutorial**
A simple, interactive guide to learning HTML5.

3. **Khan Academy: Intro to HTML/CSS**
Hands-on coding exercises to practice HTML basics.

4. **Codecademy: Learn HTML**
An interactive course that helps you apply what you learn immediately.

Practice Platforms

8. **Frontend Mentor**
Real-world projects to practice your HTML5 skills.

9. **CodePen**
A platform to write, test, and share HTML5 code in real-time.

10. **Scrimba: HTML & CSS Interactive Tutorials**
Engaging, video-based coding exercises with live editors.

📘 Tip: Combine These Resources

- **Start** with videos for an overview.
- **Dive deeper** using MDN Web Docs and books.
- **Practice daily** using CodePen, Frontend Mentor, or Scrimba.

🚀 Ready to start building amazing web pages? Let's go! 🎉