**Full Stack Basics - 5-Day Internship Syllabus**

**Project:** Portfolio Website

**Day 1: Introduction to Web Development & Frontend Basics**

* Overview of Full Stack Development
* Understanding how websites work (Client-Server Model, HTTP Requests)
* Introduction to **HTML**
  + Structure of a webpage
  + Semantic elements
  + Forms & Inputs
* Introduction to **CSS**
  + Selectors, Box Model, Flexbox & Grid
  + Responsive Design Basics
* **Hands-on:** Build the basic structure of the portfolio website

**Day 2: Advanced Frontend with JavaScript & Interactivity**

* Introduction to **JavaScript**
  + Variables, Data Types, Loops, Functions
  + Event Listeners & DOM Manipulation
* Basic **Bootstrap** / TailwindCSS for styling
* Introduction to **Git & GitHub**
  + Creating a repository
  + Pushing the first project
* **Hands-on:** Add interactive sections (like a project gallery) and push changes to GitHub

**Day 3: Backend Basics with Node.js & Express.js**

* Introduction to **Backend Development**
  + What is a server?
  + Basics of **Node.js**
  + Setting up **Express.js**
  + Handling requests & responses
* Introduction to **REST API**
  + Creating a basic API with Express
  + Fetching data using JavaScript
* **Hands-on:** Connect a simple form to an Express backend for handling user input

**Day 4: Database & Deploying the Website**

* Introduction to **Databases** (MongoDB or Firebase)
  + Understanding NoSQL
  + Connecting Express with a database
  + Storing & retrieving user data
* Deploying a Full Stack App
  + Hosting frontend (GitHub Pages / Netlify)
  + Hosting backend (Render / Railway)
* **Hands-on:** Deploy the portfolio website with a functional backend

**Day 5: Project Completion & Final Touches**

* Adding a **Contact Form** (with backend email handling)
* Implementing simple authentication (if needed)
* Final debugging & optimizations
* **Final Project Presentation**
* Certification & Feedback Session

**Outcome:**

By the end of the program, students will have:  
✅ A fully functional **portfolio website** hosted online  
✅ Basic knowledge of **Frontend, Backend, and Database**  
✅ Experience with **Git & GitHub**  
✅ Hands-on exposure to **Full Stack Development**