**Day 1 – 26th Sept (Friday)**

**Topic:** Introduction & Framework Basics

* Overview of Next.js vs. React
* Project structure and key concepts
* Setting up the environment
* Creating your first Next.js app
* File-based routing basics

**Lab:**

* Build and run a basic Next.js app locally.
* Explore default pages and navigation.

**Outcome:** Participants can set up and run a Next.js project.

**Day 2 – 29th Sept (Monday)**

**Topic:** Navigation, Assets & Styling

* Navigating between pages (next/link, useRouter)
* Layouts and shared UI components
* Assets in /public (images, icons, fonts)
* Metadata with <Head>
* Styling: Global CSS, CSS Modules, Styled JSX

**Lab:**

* Create a multi-page app with header/footer.
* Add metadata, favicon, and a logo.
* Style using CSS Modules.

**Outcome:** Participants can build styled, multi-page apps with navigation.

**Day 3 – 30th Sept (Tuesday)**

**Topic:** Pre-rendering & Data Fetching

* SSR, SSG, CSR in Next.js
* getStaticProps, getServerSideProps
* Dynamic data with getStaticPaths
* Client-side fetching with SWR/fetch

**Lab:**

* Fetch posts from a public API.
* Display posts with static generation.
* Render dynamic pages for each post.

**Outcome:** Participants can fetch data using multiple rendering strategies.

**Day 4 – 3rd Oct (Friday)**

**Topic:** Dynamic Routes, API Routes & Deployment

* Dynamic routes [id].js, nested/catch-all routes
* API routes for building backend endpoints
* Using environment variables
* Deployment (Vercel focus, alternatives like Netlify)

**Lab:**

* Build a blog with dynamic routes for posts.
* Create a custom API endpoint returning JSON.
* Deploy the app to Vercel.

**Outcome:** Participants can build full-stack Next.js apps and deploy them.