

Module 1: Web Designing

		Topics
Pre-requisites	Matric & Computer Familiarity	Internet
Duration	2.5 Months	How Does The Internet Work What is HTTP?
Quizzes	1. HTML5	Domain Name
	2. CSS3	Hosting DNS
Hackathon	After completion	Browsers

- **HTML5**
- [Book](#)
- **CSS3**
- [Book](#)
- **CSS Animations**
- [Animate.style](#)
- **Media queries**
- [CSS-Tricks](#)
- **Flexbox**
- [CSS-Tricks](#)
- **Font Awesome**
- [Fontawesome](#)
- **Bootstrap**
- [Bootstrap](#)
- **Google Fonts**
- [Google Fonts](#)

Figma

Plugins

Developer Mode

- Pixel Perfect UI
- Explore if there are any AI tools
- [Web Accessibility](#)
- Netlify Hosting
 - [Netlify](#)

- Git & Github Basics
 - [Github Desktop](#)
- Domain & Hosting Subscription (Deployment)
 - [Namecheap](#)

Module 2: Front-End Development

Pre-requisite Module 1

Duration 4.5 Months

Quizzes 1. JS1 (Chapters 1 to 20)
 2. JS2 (Chapters 21 to 40)
 3. JS3 (Chapters 41 to 60)
 4. JS4 (Chapters 61 to 89)
 5. TypeScript
 6. Git

Hackathon After completion

Topics

- **JavaScript**
 - [Docs](#)
 - [Assignments](#)
 - Fetch API/ AJAX
- **Advanced Javascript (All ES Versions)**
 - Variable Scoping
 - Closure
 - Template literals
 - Destructuring
 - Default parameters
 - Rest parameter
 - Spread Operator
 - Arrow functions

- Enhanced object literals
- Iterators & For..of
- Generators
- Modules
- Map
- Array methods
- Higher-order function
- CallBack
- Promises
- Exponentiation Operator
- Classes
- Ternary Operator
- Optional chaining
- **TypeScript**
 - TS Compiler
 - Type Annotations
 - Interfaces
 - Classes
 - Generics
 - Enums
 - Type Inference
 - Union and Intersection Types
 - Type Guards
 - Decorators
- **Advance Github**
 - Branches
 - PR
 - PR review
 - Merge
 - Rebase
 - Cherry Pick
- **GSAP Animations**
- **Supabase**
 - Authentication
 - Email
 - Google

- Database
- Storage
- Certifications
 - [JavaScript by Jetbrain](#)

Module 3: Modern Front-End Development

Prerequisites Module 1, 2

Duration 3 Months

Quizzes 1. ReactJS

Hackathon After completion

Topics

- Node runtime
- Package Managers
 - NPM
 - Yarn
- ReactJS V19
 - [CRA](#)
 - [Vite](#)
 - Linters & Formatters
 - Module Bundlers
 - Context API
 - Redux & RTK
 - [TanStack Query](#)
 - Zustand (Optional)
 - Axios (API Integration)
- [Tailwind](#)
- [Shadcn](#)
- Authentication Strategies
 - Web Security Knowledge
 - CORS
 - HTTPS
 - Content Security Policy

- OWASP Security Risks
- NextJS Introduction
- Testing
 - Playwright/ Vitest
- Certifications
 - [React Nano degree](#)
 - [Meta Front-Ene](#)

Module 4: Back-End App Development

Prerequisites	Module 2
Duration	4 Months
Quizzes	1. NodeJS/ Express 2. MongoDB 3. PostgreSQL
Hackathon	After completion

Topics

- NodeJS
 - ExpressJS
 - RESTful APIs
 - Architecture
 - Basic Routes
 - Database Connection
 - CRUD
 - Authentication
 - Middleware
 - Protected Routes
 - JWT
 - WebSocket
 - Bcrypt
 - Cloudinary
 - Redis

- Node-cache
- Messaging Queue
- File System module
- Socket IO
- MongoDB
 - CRUD
 - Queries
- PostgreSQL
 - CRUD
 - Queries
- Payment Integration
- Stripe
- Paypal
- Linux Basics
- Deployment (Google Cloud)

Module 5: Mobile App Development

Prerequisites	Module 2
Duration	1 Month
Quizzes	1. React Native
Hackathon	After completion

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Topics

- React Native
- *CLI*
- Expo
- Build
- App Publish
- IOS & ANDROID