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## Course: MERN Stack Training

Duration: Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

### Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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- \* INTRODUCTION
- \* What is full-stack web development?
- \* What is a website / web application?
- \* How does a web site / web application work?
- \* History
- \* VCS
- \* What is a Version Control System (VCS)
- \* Introduction to Git and GitHub
- \* Installing Git
- \* Configuring Git
- \* Basic Git commands
- \* Managing a git repository
- \* HTML
- \* HTML introduction
- \* HTML page structure
- \* Basic HTML tags
- \* Comments
- \* HTML div
- \* List
- \* Image
- \* Link
- \* Form
- \* Table

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- \* Iframe
- \* SVG
- \* Audio & Video
- \* HTML5
- \* CSS introduction
- \* Selectors
- \* Inline vs Internal vs External Styling
- \* CSS Properties
- \* Font styling
- \* Font awesome / google font
- \* Pseudo-elements and pseudo-classes
- \* Tool tips
- \* Transitions, Transformation, Animations
- \* Box sizing
- \* Flex
- \* Grid
- \* Media Query
- \* Creating a page design
- \* Mini project 1
- \* Tailwind
- \* Introduction to Tailwind CSS
- \* What is Tailwind CSS?

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- \* Difference between Tailwind and other CSS frameworks (Bootstrap, Material UI)
- \* Installing Tailwind (CDN, npm, Vite, Next.js)
- \* Setting up Tailwind in an HTML project
- \* Basic Utility Classes
- \* Layout & Positioning
- \* Components & Reusability
- \* Advanced Tailwind Concepts
- \* Custom Configuration
- \* JAVASCRIPT
- \* JavaScript introduction
- \* Variable, scoping and data types
- \* Strings and numbers
- \* Comments
- \* Operators
- \* Conditional statements
- \* Loops
- \* Break and continue
- \* Function
- \* Arrays
- \* Stacks
- \* Queue
- \* Objects

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- \* Maps
- \* Regular expression
- \* Hashing
- \* Set timeout, setInterval, clear interval
- \* Working with DOM
- \* Developers tools in Browsers
- \* Call back function
- \* Call back Hell
- \* Promise
- \* Async and await
- \* Closures
- \* Local Storage , SessionStorage, cookies
- \* Advanced javascript (ES6, ES7 & ES8)
- \* OOP concepts
- \* Mini project 3
- \* DATABASE
- \* Introduction to Data Base
- \* Types of Data Bases
- \* Introduction to MongoDB
- \* Installing MongoDB
- \* Connecting MongoDB
- \* Creating database and create collection

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- \* Data modeling
- \* Creating and retrieving data
- \* Updating and deleting data
- \* Limit, sort and indexing
- \* Data Types
- \* Aggregation
- \* Database replication and sharing
- \* Drop database and drop collection
- \* NODEJS
- \* NodeJS introduction
- \* Install NodeJS
- \* Node Package Manager (NPM)
- \* Create NodeJS app
- \* Simple server using NodeJS
- \* Request and Response
- \* Response types - JSON,HTML,XML etc
- \* Emitter
- \* Buffers
- \* Streams
- \* File system
- \* Global objects

## Utility modules

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## Web modules

- \* Scaling a NodeJS application
- \* Packaging
- \* SocketIO
- \* Mini Project
- \* EXPRESSJS
- \* ExpressJs introduction
- \* Install ExpressJS
- \* Creating express server
- \* Routing
- \* HTTP methods
- \* HTTP response codes
- \* Express params and Query strings
- \* Middlewares
- \* Static files
- \* Form data
- \* Express with Database
- \* Cookies
- \* Sessions
- \* Authentication
- \* JWT token
- \* Multer

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- \* Cloudinary
- \* Creating REST API
- \* Payment Integration
- \* Debugging
- \* Mini project
- \* REACTJS
- \* React introduction
- \* Javascript Compilers & package bundlers
- \* Installing React
- \* Understanding basics of React app
- \* JSX
- \* React components
- \* Class components vs function components
- \* Understanding virtual DOM and single page apps
- \* States and props
- \* React lifecycle
- \* Conditional rendering
- \* Hooks
- \* Global State Management
- \* Event handling
- \* Forms
- \* Controlled vs Uncontrolled components

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- \* Routes
- \* Pure components
- \* High order components
- \* Redux
- \* Axios
- \* Oauth0
- \* UI Tool Kit
- \* MiniProject
- \* ANGULAR
- \* Introduction to angular
- \* Angular CLI


- \* Components

## Modules

- \* Templates
- \* Directives
- \* Services
- \* Dependency Injection
- \* Routing
- \* Forms
- \* Mini Project
- \* Hosting
- \* AWS

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- \* Netlify
- \* Vercel
- \* Render
- \* Domain mapping

(Click on Course for more details)

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**- Thank You -**

N.B: This syllabus is not final and can be customized as per requirements / updates.

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