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## **Course: Mern Stack Development**

Duration: 120 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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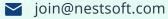
- \* INTRODUCTION
- \* What is full-stack web development?
- \* What is a website / web application?
- \* How does a web site / web application work?
- \* History
- \* VCS
- \* What is a Version Control System (VCS)
- \* Introduction to Git and GitHub
- \* Installing Git
- \* Configuring Git
- Basic 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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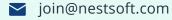
- \* Iframe
- **\*** SVG
- \* Audio & Video
- **\*** HTML5
- \* CSS introduction
- Selectors
- \* Inline vs Internal vs External Styling
- **\*** CSS Properties
- \* Font styling
- \* Font awesome / google font
- \* Pseudo-elements and pseudo-classes
- \* Tool tips
- Transitions, Transformation, Animations
- \* 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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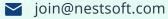
- \* Maps
- Regular expression
- \* Hashing
- Set timeout, setInterval, clear interval
- Working with DOM
- Developers tools in Browsers
- Call back function
- Call back Hell
- Promise
- \* Async and await
- \* Closures
- \* Local Storage, SessionStorage, cookies
- \* Advanced javascript (ES6, ES7 & 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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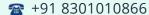
- \* Data modeling
- Creating and retrieving data
- \* Updating and deleting data
- \* Limit, sort and indexing
- **Data Types**
- Aggregation
- Database replication and sharing
- Drop database and drop collection
- \* NODEJS
- NodeJS introduction
- \* Install NodeJS
- \* Node Package Manager (NPM)
- 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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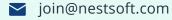
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- \* Cloudinary
- \* Creating REST API
- \* Payment Integration
- \* Debugging
- \* Mini project
- **\*** REACTJS
- \* React introduction
- \* Javascript Compilers & package bundlers
- \* Installing React
- \* Understanding basics of React app
- **\*** 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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