



NTI TECH ACADEMY

# NTI TECH ACADEMY

## MEAN Stack Development

MEAN is a popular JavaScript stack used for building modern web applications. MEAN gets its name from 4 technologies that make up the stack which are MongoDB, Express, React, Node.

### HTML

#### Introduction to HTML

- headings
- paragraph
- formatting tags
- image
- anchor
- lists
- table
- id
- class
- iframe
- div
- span
- form
- audio
- video
- html vs html5



**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## CSS

### Introduction to CSS

- ways to use CSS (inline , internal, external)
- css selectors
- css color
- border
- padding
- margin
- height
- width
- lists
- text
- display (none, inline , block , inline - block)
- flex
- grid
- position
- z- index
- Media

## Java Script

### Js Basics

- keywords
- identifiers
- datatypes
- variables and constants
- tokens
- operators

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## Decision Making Statements

### Conditions Statements Or Selection Statements

- if
- if else
- nested if else
- if else if ladder
- switch case

### Iteration Statements Or Loops

- for
- while
- do while
- for in
- for of

### Jump Statements

- continue
- break

### Functions

- function declarations, definitions and calling
- types of functions
- anonymous functions
- flat arrow functions or arrow functions
- self invoked function (IIFE)
- storage classification or varible scope (var let const and without keywords)
- recursion

### Strings Methods

### array Methods

### Global Execution Context and Function execution context

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

- scope chain rule and lexical scoping
- closure

## Strings Methods

## array Methods

## Global Execution Context and Function execution context

- scope chain rule and lexical scoping
- Closure

## Objects

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods

## Set and Map

## WeakMap and WeakSet

## Dates and Time

## OOPS

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods



NTI TECH ACADEMY

## DOM Manipulation

DOM

BOM

event handling

time based events

Website – [www.ntitechacademy.com](http://www.ntitechacademy.com)

Phone no – 07662-482289

Address: LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## Advanced Js

### How Javascript Works

- hoisting
- strict mode
- closure
- synchronous and asynchronous programming

### Event propagation

- bubbling
- capturing

### Event loop

function curring

ajax and json

calling api using ajax

callback hell

promise

async await

fetch

modules

version



NTI TECH ACADEMY

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## Node.js & Node Version Manager(NVM)

- Getting started with Node.js
- Node Package Manager
- Modules
- Asynchronous Programming
- Callbacks
- Events
- Streams

## Introduction to TypeScript

- Why Use TypeScript
- Basic Types
- Classes and Interfaces
- Type Definitions
- Compiling TypeScript

## Getting Started with Angular

- Installing Angular CLI
- Angular Architecture overview
- Creating first Angular application

## Modules

- Why use Modules
- NgModule
- Declarations
- Providers
- Imports
- Bootstrapping
- The Core Module
- Shared Modules

## Components

- Introduction to Components
- Component Architecture Patterns
- Decorator Metadata
- State & Behaviour
- Inputs and Outputs



NTI TECH ACADEMY

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## Templates

- Inline vs External
- Template Expressions
- Data Bindings
- \*ngIf else and \*ngFor
- Built-in Structural Directives
- Built-in Attribute Directives

## Custom Directives

- Types of Directive
- Create your own Structural Directive
- Create your own Attribute Directive

## Pipes

- Built-in Pipes
- Custom Pipes

## Services

- Introduction to Services
- Building a Service

## Dependency Injection

- Introduction to Dependency Injection
- Injectors & Providers
- Registering Providers

## Lifecycle Hooks

- Component LifeCycle
- Using ngOnInit
- All lifecycle Hooks



NTI TECH ACADEMY

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001



NTI TECH ACADEMY

# NTI TECH ACADEMY

## Routing

- The Component Router
- Defining Routes
- Navigation
- Route Params
- Child Routes

## Advanced Routing

- Route Guards

## Template-driven Forms

- Introduction to forms
- Template-driven forms
- Validation

## Asynchronous Operations

- Introduction to Async
- Promises
- Observables
- HTTP Request / Response

## Testing

- Introduction to Testing
- Unit Testing
- E2E Testing

## Third –Party NPM Package

- Social Login Authentication
- Cookies and Local Storage
- Angular File Upload
- Angular Pagination
- Angular Shopping Cart



NTI TECH ACADEMY

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001





NTI TECH ACADEMY

# NTI TECH ACADEMY

## Express.js

- MVC Pattern
- Introduction to Express
- Routing
- HTTP Interaction
- Handling Form Data
- Handling Query Parameters
- Cookies and Sessions
- User Authentication
- Error Handling
- Creating and Consuming RESTful Services
- Using Templates

## MongoDB

- Understanding NoSQL MongoDB
- Finding Documents
- Update, Insert, and Upsert
- Indexing
- Data Modeling
- Aggregation
- Implementing Mongoose

## Deploying Node application on server

## Loading Balancing using PM-2

## Use of Ngrok utility for creating HTTP tunnel

## Use of NodeMon utility

## Mini Project

## Covering All the Concepts

**Website** – [www.ntitechacademy.com](http://www.ntitechacademy.com)

**Phone no** – 07662-482289

**Address:** LIG - 2/21/422, Nehru Nagar, Rewa, Madhya Pradesh 486001