

*Dear Student,*

*Based upon your enquiry we are pleased to send you the course curriculum for NodeJS. Classes would be held by Working Professional Trainer*

*Given below is the brief description for the course you are looking for:*

### **Prerequisites**

Initial Java Script knowledge.

Basic Web Development knowledge

### **NODE JS Course Contents**

- Introduction about Node JS
- Fundamental
  - Node.js framework
  - How to Install Node.js
  - Execute Node JS scripts
- NodeJS Projects setup
  - Package Manager
  - Creating project
  - The package.json config file
  - Global and local package installation process
- Work with HTTP
  - What is HTTP protocol?
  - Creating HTTP server
  - Render a response
  - Process query strings
  - Use of (REST) Representational State Transfer

- File System (IO Operation)
  - Synchronous and asynchronous I/O operation
  - Path and directory operation
  - filename and dirname commands
  - Asynch reads and writes operations on file
  
- Buffer, Streams, and Events with IO
  - Use of buffers for binary data
  - Flowing and non-flowing streams
  - Streaming of I/O from files and sources
  - Asynch Processing of streams
  - Event handler configuration
  
- Module & Unit Testing of NodeJS
  - Implementation of Modularization
  - CommonJS and RequireJS standards
  - Creating module with exports
  - Creating a package
  - Module scope and construction
  - Working with unit testing frameworks
  - How to perform unit test?
  - Creating unit tests with Mocha
  
- NodeJS Express Framework
  - The MVC (model-view-controller) pattern
  - Defining Jade and Handlebars templates
  - Building a front-end controller
  - Defining routes
  - Creating actions
  - Configuring Express to use Handlebars
  - Using REST
  - Reading POST data
  - Building Handlebars helpers

- Adding middleware
- Connection with DB(RDBMS & MongoDB)
  - Connection of Node.js code to databases
  - Connecting to RDBMS and NoSQL databases (Mongo DB)
  - What is NoSQL and Why NoSQL?
  - Difference Between RDBMS and NoSQL Databases
  - Inserting record in Mongo DB using NodeJS
  - Retrieving record in Mongo DB using NodeJS
  - Updating record in Mongo DB using NodeJS
  - Deleting record in Mongo DB using NodeJS
  - Performing search operation.
- Project
  - ProductManagement
    - Project Setup
    - Routes & Views
    - Database & Models
    - CRUD – Create/Retrieve/Update/Delete product.

Course Duration	2 Months
Fees	Call or WhatsApp at 9015041412 to know the fees
Slots	Weekends
Placement	yes, <a href="http://www.techaltum.org/">http://www.techaltum.org/</a>

Venue: - 501, 5<sup>th</sup> Floor, Om Complex, Sec-15

Noida-201301

Opp. Nirulas Hotel

(Walking Distance from Sec-15 Metro Station)

**Note: - It is informed to all Candidates that our institute is located at 5th floor only. We have no other floor and no other branch.**

**Some institutes are doing FRAUDS with the name of Tech Altum. So make sure you come at 5th floor only**