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### **Course: Node JS**

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

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### Syllabus on the Next Page ..

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#### Module 1: Introduction to Node.js

- \* What is Node.js
- \* Features of Node.js
- \* Concept
- \* Where to fit and not fit
- \* Event-Driven programming style
- \* What is Asynchronous

#### Module 2: Installation / Setup

- \* Local environment setup
- \* Node.js runtime
- \* Download source code
- \* Installation on OS
- \* Verify

#### Module 3: Node Package Manager

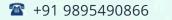
#### Install module by NPM

- \* Global vs Local setup
- \* Update Module
- \* CRUD Module

#### Module 4: Express Framework

- What is Express
- Setup Express
- \* Request And Response
- Handling Routes

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- \* Route Middleware
- \* Objects
- \* Cookies Management
- \* File upload
- \* HTTP methods

#### Module 5: Buffers and Streams

- \* What is buffers and Streams
- \* Benefit of Streams over buffers
- \* Create / Write / Read operation on Buffers
- \* Process on Buffers
- \* Read / Write data by Streams
- \* Pipeline
- \* Chaining Stream

#### Module 7: REST API

- \* RESTful Architecture
- \* HTTP URI and Methods
- \* RESTful web services
- \* Expose solution as API
- \* Best practice for REST API solution

#### Module 8: Callback

- What is Callback
- \* Benefit of Callback

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- \* Asynchronous communications
- \* Block and Non-Blocking
- \* Standard Callback pattern
- \* Async Flow control Library
- \* Executing in parallel

#### Module 9: Events

- \* What is Events
- \* Events types
- \* Event Emitter API
- \* Multiple event listeners
- \* Event emitter pattern
- Class methods
- \* Event Loop
- \* Blocking Event Loop
- \* Escaping Event Loop

#### Module 10: Connecting with Database

- \* Introduction of MySQL
- \* Connect with MySQL
- \* Introduction of MongoDB
- \* Features of MongoDB
- \* Connect with MongoDB
- \* Defining a schema

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\* Defining a Model

#### **Module 11: External Processes and Services**

- \* What is processes
- \* Spawning Child process
- \* Create and kill processes
- \* Building with HTTP Severs
- ✤ HTTP requests
- \* Secure HTTP Server

#### Module 12: External Processes and Services

- \* Using Test Runner
- \* Using Assertion Testing Module
- \* Built-in Debugger
- \* Console log
- \* Node Inspector

(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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