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NODE JS Course Syllabus

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
- 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 6: REST API
- RESTful Architecture
- HTTP URI and Methods
- RESTful web services
- Expose solution as API
- Best practice for REST API solution
 Module 7: Callback
- What is Callback
- Benefit of Callback
- Asynchronous communications
- Block and Non-Blocking
- Standard Callback pattern
- Async Flow control Library
- Executing in parallel Module 8: 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 9: Connecting with Database
- Introduction of MySQL
- Connect with MySQL
- Introduction of MongoDB
- Features of MongoDB
- Connect with MongoDB
- Defining a schema
- Defining a Model

Module 10: External Processes and Services

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

Module 11: External Processes and Services

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

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