

Angular and Node JS Syllabus

Session 1: Introduction to HTML	
✓ HTML Basics, Elements, Attributes, Styles	✓ Forms, Form Elements, Input Element Types
✓ Input Attributes, File Paths, Script tag	✓ HTML & XHTML
Session 2: Introduction to CSS	
✓ CSS Introduction, Syntax, Selectors, Styling	✓ CSS Tables, CSS Box Models
✓ Pseudo class, Pseudo Elements	✓ CSS Opacity, CSS Navigation Bar, Dropdowns
Session 3: Introduction to JavaScript	
✓ JavaScript Statements, Keywords, Functions	✓ JavaScript Programs, Operators, Functions
✓ Function Parameters, Function Return Types	✓ Data Types, Primitive Types
Session 4: Working with Objects	
✓ Object Oriented Programming, Object Creation	✓ Adding Properties of Objects
✓ Adding Methods of Objects	✓ JavaScript Conditional Statements
✓ JavaScript Loops & Iteration	✓ Enumerating Properties, Callbacks, JSON
Session 5: Angular JS Basics	
✓ What is AngularJS?, Why AngularJS?	✓ Features of Angular JS, Model-View-Controller
✓ Why MVC matters, MVC-The Angular JS way	✓ My First Angular JS app
Session 6: Angular Expressions	
✓ All about Angular Expressions	✓ How to use expressions, Angular vs JavaScript
Session 7: Filters	
✓ Built-In Filters, Using Angular JS Filters	✓ Creating Custom Filters
Session 8: Directives	
✓ Introduction to Directives, Directive Lifecycle	✓ Using Angular JS built-in directives
✓ Binding controls to data, Matching directives	✓ Creating a custom directive
Session 9: Controllers	
✓ Role of a Controller, Controllers & Modules	✓ Attaching Properties and functions to scope
✓ Nested Controllers, Using Filters in Controllers	✓ Controllers in External Files
Session 10: Angular JS Modules	
✓ Introduction to Angular JS Modules	✓ Bootstrapping Angular JS
Session 11: Angular JS Forms	
✓ Working with Angular Forms, Model Binding	✓ Form Controller, Validating Angular Forms
✓ Forms Events, Updating Models with a Twist	✓ \$error object
Session 12: Scope	
✓ What is scope, Scope Lifecycle	✓ Two-way data binding, Scope Inheritance
✓ Scope Inheritance, Scope & Controllers	✓ Scope & Directives, \$apply and \$watch
✓ Rootscope, Scope Broadcasting	✓ Scope Events
Session 13: Dependency Injection & Services	
✓ What is Dependency Injection	✓ Using Dependency Injection, What are services
✓ Creating Services, Factory, Service & Provider	✓ Using Angular JS built in services
Session 14: Single Page Application (SPA)	
✓ What is SPA, Pros and Cons of SPA	✓ Installing the ngRoute module, Configure routes
✓ Passing Parameters, Changing location	✓ Resolving promises, Creating a Single Page Apps
Session 15: Angular JS Animation	
✓ ngAnimate Module, CSS Transforms	✓ CSS Transitions, Applying Animations
Session 16: Introduction to Node JS	
✓ Introduction to Node JS	✓ What is Node JS, Node.js Process Model
✓ Advantages of Node JS	✓ Traditional Web Server Model
Session 17: Setup Development Environment	
✓ Install Node.js on Windows	✓ Working in REPL, Node JS Console
Session 18: Node JS Modules	
✓ Functions, Buffer, Module	✓ Core Modules, Local Modules
✓ Modules Types	✓ Modules Exports

Session 19: Node Package Manager	
✓ What is NPM, Installing Packages Locally	✓ Adding dependency in package json
✓ Installing package globally	✓ Updating packages
Session 20: Creating Web Server	
✓ Creating Web Server	✓ Handling http requests
✓ Sending Requests	
Session 21: File System	
✓ Fs.readFile, Writing a File	✓ Writing a file asynchronously
✓ Opening a file, Deleting a file	✓ Other IO Operations
Session 22: Debugging Node JS Application	
✓ Core Node JS Debugger	
Session 23: Events	
✓ Event Emitter class	✓ Returning event emitter
✓ Inheriting Events	
Session 24: Express JS	
✓ Configuring Routes	✓ Working with Express
Session 25: Serving Static Resources	
✓ Serving Static Files	✓ Working with Middle Ware
Session 26: Database Connectivity	
✓ Connecting String, Configuring	✓ Working with Select Command
✓ Updating Records	✓ Deleting Records
Session 27: Project Development	
✓ Project Development using Node JS	