

VERSION

29

**PROFESSIONAL**

**SR. CODE**

EAPL/PROF/PRTC05

**COURSE CODE**

EAPMA

**SUB CATEGORY**

FULL STACK DEVELOPMENT

  
TOTAL DURATION  
**90**  
HOURS

  
THEORY TAKEN  
**30**  
HOURS

  
PRACTICAL TAKEN  
**60**  
HOURS

EXPERT  
COURSE  
ELYSIUM  
ACADEMY  
MEAN STACK  
EXPERT  
COURSE  
**ELYSIUM**  
**ACADEMY**  
**MEAN STACK**  
**EXPERT**  
**COURSE**  
MEAN STACK  
EXPERT  
COURSE



## COURSE DESCRIPTION



Developers using the MEAN stack work on both the front end and the back end. They are application developers who focus on frontend and backend features and modules, integrate APIs, and organize their work processes around cutting-edge development methodologies like DevOps and Agile.

## COURSE GOALS



- Designing and maintaining fully operational large relational and non-relational databases.
- Developing, testing, and deploying quick and scalable web apps.
- The timely cloud deployment of web applications.
- Server management and cloud-based infrastructure.

## FUTURE SCOPE



The job profile of a MEAN Stack Developer is an excellent career choice. Mastering full-stack languages and tools are important to become a mean stack developer. The journey of being a full-stack developer is a challenging but rewarding one as well.



# 01

## CHAPTER

### HTML 5

O1. Designing Webpages

O2. Design Considerations

O3. Basic HTML Tags

O4. Metadata

O5. HTML Styles

O6. Text Items and Objects

a. Comments

b. Block Quotes

c. Horizontal Lines

d. Special Character

O7. Page Formatting

a. Paragraph

b. Line Break

c. Blank Space

d. Background Color

e. Div Element

O8. Lists

a. Types of lists

O9. Links

a. TEXT Links

b. Image Links

c. New Window or Tab

d. Email Address linking options

e. Files linking options



1.5  
hrs



8.5  
HRS



## 10. Images

- a. Image to Webpages
- b. Resize in Web Pages
- c. ALT Text
- d. Image labels

## 11. Tables

- a. Insert Table
- b. Table Border
- c. Table Header

## 12. Iframes

- a. Introduction
- b. Inserting
- c. Setting Height and width

## 13. Forms

- a. Text Boxes
- b. Text Areas
- c. Check Boxes
- d. Menu Lists
- e. Radio Buttons
- f. Submit Buttons
- g. Reset Buttons
- h. Sending to Email



# 02

## CHAPTER

### CSS

#### O1. Cascading Style Sheets

- a. Create External of CSS
- b. Linking to a CSS
- c. Adding comments and Notes to CSS
- d. Create An internal Style Sheet
- e. ID and Class
- f. Inline Style

#### O2. Text Working

- a. Emphasizing Text
- b. Decoration
- c. Transformation
- d. Styling Links
- e. Sizing Elements
- f. Text Wrapping
- g. Shadowing

#### O3. Backgrounds of CSS

- a. Colors
- b. Images
  - Opacity
  - Floating Images
  - Image Galleries
  - Image Sprites
- c. Fixed Images

#### O4. Box Model

- a. Margin



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- a. Padding
- b. Border
- c. Outline

## **O5. Elements**

- a. Display and Visibility
- b. Grouping and Nesting
- c. Dimensions of Elements
- d. Positioning
- e. Floating
- f. Pseudo Classes

## **O6. Navigation bar**

- a. Vertical navigation Bar
- b. Horizontal navigation Bar
  - Inline
  - Floating

## **O7. Tables**

- a. Borders
- b. Collapsed Borders
- c. Table Width and Cell Height
- d. Table Color
- e. Table Padding



# 03

## CHAPTER

### **BOOTSTRAP 5**

- O1. Containers
- O2. Grid
- O3. Tables
- O4. Typography
- O5. Colors
- O6. Images
- O7. Jumbotron
- O8. Alerts
- O9. Buttons
- 10. Spinners
- 11. Progress Bars
- 12. Pagination
- 13. Cards
- 14. Navbar
- 15. Breadcrumbs
- 16. **BOOTSTRAP Forms**
  - a. Select Menus
  - b. Checks And Radios
  - c. Range
  - d. Floating Labels
  - e. Form Validation
- 17. **BOOTSTRAP Grid & FlexBox**
  - a. System
  - b. XSmall



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- c.. Small
- d. Medium
- e. Large
- f. XLarge

# 04

## CHAPTER

### **JAVASCRIPT**

- O1. Statements
- O2. Variables
- O3. Operators
- O4. Data Types
- O5. Functions
- O6. Objects
- O7. Events
- O8. Strings
- O9. Arrays
- 10. Dates
- 11. Sets
- 12. Maps
- 13. Errors
- 14. Classes
- 15. Modules
- 16. JSON
- 17. HTML DOM
- 18. Web APIs



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# 05

## CHAPTER

### **TYPESCRIPT**

- O1. Simple Types
- O2. Special Types
- O3. Arrays
- O4. Tuples
- O5. Object Types
- O6. Enums
- O7. Aliases & Interfaces
- O8. Union Types
- O9. Functions
- 10. Casting
- 11. Classes
- 12. Basic Generics
- 13. Utility Types
- 14. Key of
- 15. Null
- 16. Definitely Typed



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# 06

## CHAPTER

### **JQUERY**

- O1. Selectors
- O2. Events
- O3. Effects
  - a. Hide/Show



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- b. Fade
- c. Slide
- d. Animate
- e. stop()
- f. Callback
- g. Chaining

#### **O4·jQuery of HTML**

- a. Get & Set
- b. Add & Remove
- c. CSS Classes
- d. Dimensions

#### **O5·Traversing**

- a. AJAX
- b. Load
- c. Get/Post

#### **O5·Traversing**

- a. noConflict()
- b. Filters

# 07

## CHAPTER

### **NODE.JAVASCRIPT**

- O1· What is Express JS?
- O2· Why use Express JS?
- O3· Structure of Express JS
- O4· Installation setup
- O5· Important Terminology



**03**  
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**7.5**  
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- a. Express JS Request
- b. Express.js Response
- c. Get, post
- d. Routing and cookies
- e. File Upload and Middleware
- f. Express.js Scaffolding
- g. Express.js Template

## **O6· What is Node JS?**

## **O7· Purpose of Node JS**

## **O8· Advantages and drawbacks**

## **O9· Structure of Node JS**

## **10· Installation Setup**

## **11· Node JS Modules**

- a. Functions
- b. Buffer
- c. Module
- d. Modules Types
- e. Core Modules
- f. Local Modules
- g. Modules Exports

## **12· Node JS Package Manager**

- a. What is NPM
- b. Installing Packages Locally
- c. Installing package globally
- d. Adding dependency in package JSON
- e. Updating packages



## 13. web server and file system

- a. Creating web server
- b. Sending and Handling HTTP requests
- c. Read file
- d. Writing a file
- e. Opening a file
- f. I/O operations

## 14. Events

- a. Event Emitter class
- b. Inheriting Events
- c. Returning event emitter
- d. Serving Static Files
- e. Working with Middle Ware

# 08

## CHAPTER

### ANGULAR CLI

- O1. Introduction to Angular
- O2. Components in Angular
- O3. Data & Event Binding
- O4. Structural Directives
- O5. Attribute Directives & Property Bindings
- O6. Template/Model Driver Forms
- O7. Pipes & Date Formatting
- O8. Service & Dependency Injection
- O9. Understanding the Digest Loop



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# 09

## CHAPTER

### **INTRODUCTION TO SINGLE PAGE APPLICATION**

- O1. Angular Component Router
- O2. Modules
- O3. Deploying an Angular APP



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# 10

## CHAPTER

### **ANGULAR.JAVASCRIPT**

- O1. Angular Architecture
- O2. Dynamic Binding
- O3. Modules, Controllers, and Scope
- O4. Views
- O5. Custom Directives
- O6. Event Directives
- O7. Expressions
- O8. Built-in and Custom Filters
- O9. Understanding the Digest Loop



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- 10. Form Validations
- 11. AngularJS Service Types
- 12. Factories
- 13. Creating Custom Services
- 14. Routing, Redirects, and Promises

# 11

CHAPTER

## **EXPRESS.JAVASCRIPT**

- O1. MVC Pattern
- O2. Introduction to Express
- O3. Routing
- O4. HTTP Interaction
- O5. Handling Form Data
- O6. Handling Query Parameters
- O7. Cookies and Sessions
- O8. User Authentication
- O9. Error Handling
- 10. Creating and Consuming Restful Services
- 11. Using Templates



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# 12

## CHAPTER

### **MONGO DB**

O1. MongoDB Data Types

O2. MongoDB Data Modeling

O3. Installation setup

O4. Query Modifiers

O5. Database and collections

a. Create database

b. Drop Database

c. Create collections

d. Drop collections

e. Hands on database and collections

O6. Mongo DB Operators and commands

O7. CRUD Operations

a. CRUD Operations (Update and Delete)

b. Data Modeling

c. Model Tree Structure

d. Schema Validation

e. Hands on CRUD operations

O8. JSON

O9. Mongo DB shells

a. MongoDB Shell

b. Mongo Collection Methods

c. Mongo Shell Methods

d. Cursor methods

e. Database methods

O10. Dynamic Schema

O11. Error Handling



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Partners





- b. Fade
- c. Slide
- d. Animate
- e. stop()
- f. Callback
- g. Chaining

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- c. CSS Classes
- d. Dimensions

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- b. Load
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#### **O5·Traversing**

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hrs



**7.5**  
HRS