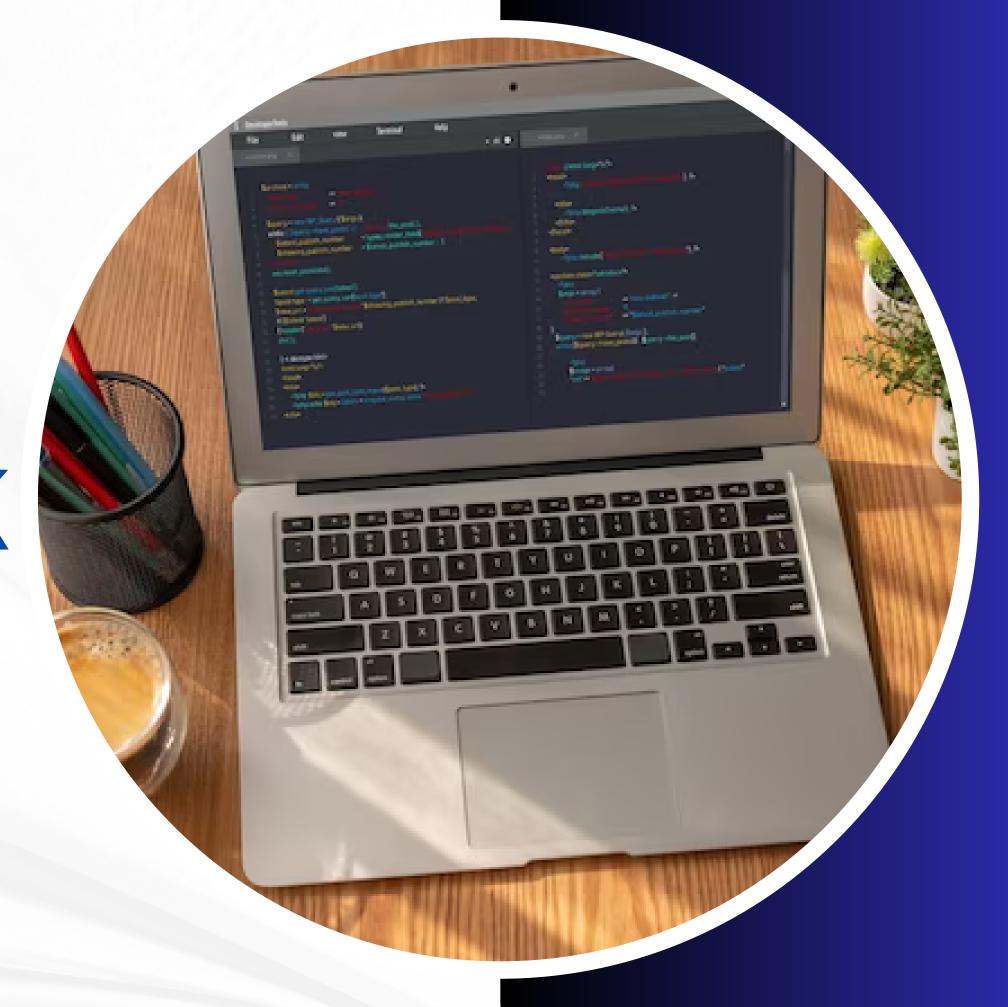# BLUBAY SOLUTIONS

COURSE SYLLABUS

MERN STACK

FULL STACK DEVELOPMENT

COURSE

DURATION : 4 MONTH

CLASS MODE: OFFLINE/ONLINE

CONTACT: 9072663351

Module 1

- Concepts of Web Development
- Installation of All Necessory Tools
- Introduction to Programming
- Basics of Object Oriented Paradigm
- Client- Server Architecture
- Git and GitHub

Module 2

HTML

- Introduction
- Basic Tags
- Elements
- HTML Attributes
- Formatting
- Shortcut icons
- Images
- Tables

- Comment
- Lists
- Backgrounds
- Forms
- Marquee
- Map

Module 3

- Introduction
- Types and Syntax
- Inclusion
- Measurement Units
- Colors
- Backgrounds
- Fonts
- Borders

- Margin & Padding
- Video/Audio
- Gradients
- Position
- Transitions
- Animations
- Tooltips
- Skew Divider

Module 4

BOOTSTRAP

- Introduction
- Basic Classes
- Heading Tags
- Colors
- Grid System
- Buttons
- Bootstrap icons
- Margin and Padding

- Images
- Alert
- Badges
- Paginations
- Cards
- Dropdown
- Button Collapse
- Navigation

- Carousel
- Models
- Tool tips
- Pop over

- Scroll-spy
- Off-Canvas
- Forms
- Floating-labels

Module 5

- Introduction
- Synatx
- Variables
- Data Types
- Operators
- Functions & Statements
- Conditional Statements
- Looping

- Built-In Functions & User defined Functions
- Arrow Functions
- Events
- DOM
- Async() and Await()
- Typescript/ES6

Module 6

- Introduction
- Install
- Data Modeling
- Create Database & Collection
- Datatypes
- Drop Database & Drop Collection

- Limit, Sort, Indexing
- find() method
- Replication
- Sharding
- Create Backup
- Aggregation

Module 7

- Introduction
- Installation
- How to start a project
- Environment Setup, Features
- Angular vs React js
- JSX
- Events

- Components
- Class Component
- Functional Component
- Controlled Components
- Uncontrolled Components
- Rendering Lists
- Conditional Rendering

Module 7

- State and Props
- Component Lifecycle
- Forms
- Routing - React router
- Formik
- API Integration
- Consuming rest APIs via axios

- Flux
- ReDux and ReDux Toolkit
- Framer Motion
- Material UI
- Firebase

Module 8

- Introduction
- Installation
- Postman Installation and working with it
- Node js App Creation
- Create a Node js Server
- Sending basic request and responses

- Node Package Manager (NPM)
- Callbacks concept
- Event-driven programming concepts
- Event loop

Module 8

- Emitter
- Buffers
- Streams
- File system
- Global objects
- Utility modules

- Web modules
- RestAPI through Nodejs
- How to scale a Nodejs application
- Packaging

Module 9

- Introduction
- Installation
- Routing
- HTTP Methods
- URL Building
- Middleware

- Templating
- Static Files
- Form Data
- Express with Database (MongoDB)

Module 9

- CRUD Operations
- Error handling and debugging
- Sessions & Cookies

- JWT Token Authentication
- Rest APIs
- Scaffolding

Module 10

- Project 1
- Project 2
- Testing & Debugging
- Deployment

THANK YOU

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