

# FULL STACK



DURATION: 12 MONTHS

## Web Designing & Publishing

- Introduction to Web Design, HTML Basics
- Cascading Style Sheet
- CSS Framework
- JavaScript and Angular JS
- Photo Editor
- Web Publishing and Browsing

## J Query

- Introduction to JQuery
- JQuery syntax
- JQuery selector
- JQuery events
- JQuery effects
- JQuery HTML
- JQuery Traversing
- JQuery AJAX & Misc.

## Bootstrap

- Responsive Web Design
- Bootstrap Grid
- Typography
- Tables
- Images
- Jumbotron
- Buttons
- Glyphicons
- Badges/ labels
- Pagination
- List
- Navbar
- Dropdown
- Forms
- CSS Reference
- JS Reference

## My SQL

- Introduction to RDBMS
- What is Relational Database Package
- Difference between SQL & Database

- Installing MySQL Server database
- SQL Basic
- DDL: Create, Alter, Drop, etc.
- DML: Insert, Update, Delete, etc.
- DQL: Select
- Autoincrement field
- SQL Comments
- SQL Aliases
- Savepoint & rollback
- SQL Constraints
- NOT NULL, Unique key Primary key, Check Default, Foreign key
- SQL Operators Arithmetic operators
- Logical operators' Conditional operators
- Like, between, in operators
- SQL Clauses Order by, Where Limit/top, Group by, having
- SQL Joins - Inner Join, Left Join, Right Join, Full Join
- SQL View - creating view, updating view, fetching data from view
- String functions
- Aggregate functions
- Date & time functions
- Stored Procedures & Functions
- Understanding stored procedures and their key benefits
- Working with stored procedures
- Studying user-defined functions
- Working with CSV Files:
- How to write result to csv file
- How to read csv file
- Python Database Connectivity
- Database Drivers and connectors
- Creating connection object
- Understanding cursor object
- Executing SQL statements using cursor
- Executing SQL statements using cursor
- Storing and retrieving Date and Time

## MongoDB

- Introduction To MongoDB
- Understanding NoSQL DB
- NoSQL vs. SQL DB
- NoSQL vs. SQL DB
- Downloading & Installation
- Introduction of MongoDB shell and Compass
- Understanding database, collection & document
- Crud Operations
- Crud Operations

- Delete Document
- Update Document
- Query Document
- Operators In MongoDB
- Query and Projection operators
- Update operator
- Aggregation Pipeline operators
- Methods In MongoDB
- limit and sort
- bulk methods
- other methods
- Indexing And Relationships
- Types of Indexes
- Creating an Indexes
- Dropping an Indexes
- Defining Relationships between Documents
- Python Connectivity With MongoDB
- Introduction to pymongo
- Installing pymongo module
- MongoClient
- Getting database and collection
- CRUD operations
- Range Queries

## Node JS

- Introduction to Node JS
- Modules in JS
- Event & stream
- Working with process and File system
- HTTP

## Express JS

- Expressjs introduction & setup
- Routing
- Middleware
- Template engine
- Expressjs security

Partners :



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