

# DIPLOMA IN WEB DEVELOPMENT



**DURATION: 15 MONTHS**

## IT Tools & Network Basics

- Introduction to computers
- Introduction to Operating System
- Word Processing using Ms-Word
- Spreadsheet Using Ms-Excel
- Presentations Using Ms-PowerPoint
- Introduction to Internet, WWW and Web
- Email, Social Networking and e-Governance Services
- Digital Financial Tools and Applications
- Overview on Futuristic IT Technology and Cyber Security

## 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
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## 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

## Python

- Introduction To Python
- Writing and Executing First Python Program
- Python Language Fundamentals
- Python Conditional Statements
- Looping Statements
- Standard Data Types
- String Handling
- Python List
- Python Tuple
- Python Set
- Python Dictionary
- Python Functions
- Modules & Packages
- File I/O
- Regular Expressions (Regex)
- Object Oriented Programming
- Exception Handling
- GUI Programming
- Multi-Threading Programming

## Complementary (Choose anyone)

- Figma/Adobe XD

Partners :



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