SAL CONNECTS
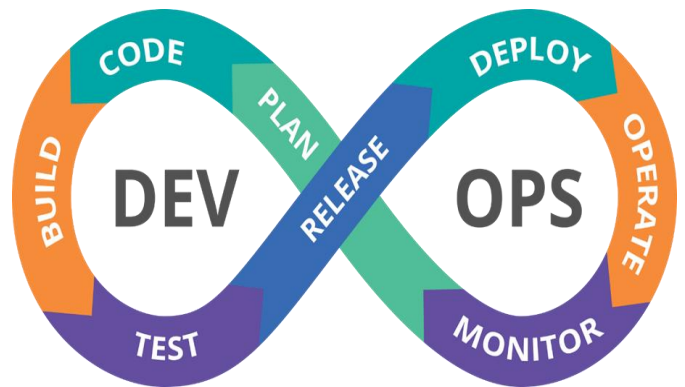## MODERN TAKSHASILA FOR TECHIES

OFFERING COURSES

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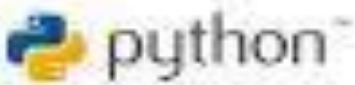**salconnectss@gmail.com**

SAL CONNECTS
MODERN TAKSHASILA FOR TECHIES

PYTHON FULL STACK DEVELOPER

python   django   ANGULAR

Program Details
Name of the Course: PYTHON FULL STACK
Duration: 4 months

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M   **salconnectss@gmail.com**

PYTHON FULL STACK COURSE CONTENT

HTML

- Introduction to HTML
- HTML Basics
- HTML Text Formatting and Semantic Elements
- HTML Lists
- HTML Links
- HTML Images
- HTML Tables
- HTML Forms
- HTML Multimedia
- HTML Block-Level and Inline Elements
- HTML Layouts
- HTML Attributes and Global Attributes
- HTML5 New Features
- HTML Best Practices
- HTML Integrations
- HTML Meta Tags
- MINI PROJECTS

CSS

- Introduction to CSS
- CSS Selectors
- CSS Properties for Styling
- CSS Box Model
- CSS Positioning
- CSS Flexbox
- CSS Grid
- CSS Responsive Design
- CSS Units
- CSS Colors and Gradients
- CSS Transitions and Animations
- CSS Transformations
- CSS Pseudo-classes and Pseudo-elements
- CSS Variables
- CSS Frameworks (Introduction)
- CSS Best Practices
- Debugging CSS

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PYTHON FULL STACK COURSE CONTENT

BOOTSTRAP

- Introduction to Bootstrap
- Bootstrap Grid System
- Bootstrap Typography
- Bootstrap Colours and Backgrounds
- Bootstrap Components
- Bootstrap Tables
- Bootstrap Utilities
- Bootstrap Images
- Bootstrap Icons
- Bootstrap Layout
- Bootstrap Responsive Design
- Customizing Bootstrap
- Mini projects

JAVASCRIPT

- Introduction to JavaScript
- JavaScript Basics
- Data Types and Variables
- Operators in JavaScript
- Control Flow and Loops
- Functions in JavaScript
- Objects in JavaScript
- Arrays and Array Methods
- JavaScript DOM Manipulation
- Events in JavaScript
- Error Handling in JavaScript
- JavaScript ES6 Features
- Asynchronous JavaScript
- JavaScript Modules
- Browser APIs
- JavaScript Best Practices
- Mini projects

REACT JS

- Introduction to React.js
- JSX (JavaScript XML)
- React Components
- React Hooks
- React Event Handling
- React Lists and Keys
- React Forms
- React Router
- React State Management
- Styling in React
- React Performance Optimization
- Working with APIs
- Deployment
- Advanced React Concepts
- Mini Projects

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PYTHON FULL STACK COURSE CONTENT

CORE and ADVANCED PYTHON

- Introduction to Python
- Setting up Python Environment
- Python Syntax and Semantics
- Variables and Data Types
- Operators in Python
- Control Flow Statements
- Functions in Python
- Data Structures in Python
- String Manipulation
- File Handling
- Exception Handling
- Modules and Packages
- Object-Oriented Programming (OOP)
- Python Iterators and Generators
- Python Decorators
- Python Comprehensions
- Python Multithreading and Concurrency
- Working with Databases in Python
- Python Memory Management
- Python Advanced Concepts
- Python Best Practices
- Mini Projects

NUMPY

- Introduction to NumPy
- Installing NumPy
- NumPy Array Basics
- Creating Arrays
- Array Data Types
- Array Shapes and Dimensions
- Array Indexing and Slicing
- Reshaping NumPy Arrays
- Array Operations
- Arithmetic Operations
- Comparison Operations
- Array Broadcasting
- NumPy Array Methods
- Accessing Array Elements
- Mathematical Functions
- Array Aggregation
- Sum, Mean, Min, Max, etc.
- Random Number Generation
- Working with Multi-dimensional Arrays
- Array Stacking and Splitting
- Array Manipulation
- Concatenation and Splitting
- Adding, Removing, and Modifying Elements
- Understanding NumPy's Universal Functions (ufuncs)
- NumPy Array File I/O
- Reading and Writing Arrays
- Mini Projects Using NumPy

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PYTHON FULL STACK COURSE CONTENT

PANDAS

- Introduction to Pandas
- Pandas Data Structures
- DataFrame Basics
- Indexing and Selection
- Data Manipulation
- Data Operations
- Working with Dates and Times
- Input and Output Operations
- Basic Visualization with Pandas
- Exploratory Data Analysis (EDA)

DJANGO

- Introduction to Django
- Setting up Django Environment
- Django Project Structure
- Django Models
- Defining Models
- Model Fields
- Relationships (One-to-One, One-to-Many, Many-to-Many)
- Django Migrations
- Django Views
- Function-Based Views (FBVs)
- Class-Based Views (CBVs)
- Django Templates
- Template Syntax
- Rendering Templates

- Template Filters and Tags
- Django URLs and Routing
- Handling Forms in Django
- Creating and Validating Forms
- Model Forms
- Django Admin Interface
- Django Authentication and Authorization
- User Registration
- Login/Logout
- User Permissions and Groups
- Working with Static Files (CSS, JavaScript, Images)
- Django QuerySet and Database Queries
- Django Middleware
- Django Settings and Configuration
- Django REST Framework (Introduction)
- Django Deployment

SQL

- Introduction to SQL
- Database Concepts
- SQL Syntax and Basic Queries
- Data Types in SQL
- CRUD Operations (Create, Read, Update, Delete)
- SQL SELECT Statement
- SQL WHERE Clause
- SQL Sorting and Filtering
- SQL Operators

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PYTHON FULL STACK COURSE CONTENT

- Comparison Operators
- Logical Operators
- LIKE and IN Operators
- BETWEEN and IS NULL Operators
- SQL Aggregate Functions
- COUNT, SUM, AVG, MIN, MAX
- SQL GROUP BY and HAVING Clauses
- SQL Joins
- INNER JOIN
- LEFT JOIN (OUTER JOIN)
- RIGHT JOIN (OUTER JOIN)
- FULL JOIN
- SELF JOIN
- SQL Subqueries
- Subqueries in SELECT, WHERE, and FROM Clauses
- Correlated Subqueries
- SQL Set Operations
- UNION, UNION ALL
- INTERSECT
- EXCEPT
- SQL Constraints
- PRIMARY KEY
- FOREIGN KEY
- UNIQUE
- CHECK
- DEFAULT
- SQL Indexes
- SQL Views
- SQL Transactions
- COMMIT, ROLLBACK, SAVEPOINT
- SQL Functions and Stored Procedures
- SQL Triggers
- Normalization and Denormalization
- 1NF, 2NF, 3NF, BCNF
- Advanced SQL Queries
- SQL Best Practices
- Mini Projects
- **Note: Git and GitHub will be provided:**

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