

**7-Days**  
Refund Policy

New Batch  
Starts From  
**November !!!**

# TRAINING & CERTIFICATION COURSE..



COURSES  
STARTS FROM  
**Rs. 3999/-**

## OUR COURSE

- **Data Analytics Using Python**
- **Data Science & Machine Learning**
- **Frontend Developmenet**
- **Backend Developmenet**
- **Full-Stack Developmenet**
- **Mobile App Development**



**ENROL NOW**



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Code Sphere Academy, Bhilai, CG

# Data Analytics Using Python

**Duration : 2 Months**

**3 Days Free Trail**

**Price : Rs. 3999 /-**

## **Module - 1: Introduction to Python**

1. Python Setup
2. Variables
3. Data Types
4. Casting
5. Numbers
6. Strings
7. Lists
8. Tuples
9. Sets
10. Dictionaries
11. Operators
12. Conditional Statements
13. Loops ( for, while )
14. Functions
15. Object Oriented Programming
16. Exception Handling
17. File Handling
18. Modules and Packages

## **Module - 3: Introduction to SQL**

1. Basics of SQL
2. SQL Statements
3. SQL Constrints
4. SQL Opertors
5. SQL Functions
6. SQL Clause
7. Sub Queris
8. SQL Joins

## **Module - 5: Power BI**

1. Power BI Introduction
2. Power Query
3. Visualizations
4. PowerBI Service
5. Creating Dashboards

## **Module -7: Mathematics**

1. Introduction to Statistics
2. Descriptive Statistics

## **Module - 2: Introduction to Excel**

1. Basic Excel
2. Insert ( Illustrations, Charts )
3. Basic Functions ( Sum/Average/Count Etc.. )
4. Basic Formula
5. Absolute / Relative Referencing
6. LOOKUP Functions
7. Pivot Tables
8. Logical / Statistical Functions
9. Chart Data Techniques
10. Date / Time Functions
11. Text Functions Using
12. Validations
13. Math & Trigonometry Functions
14. Summarizing Data
15. Outlining
16. Consolidation
17. Custom Views
18. Importing & Exporting Data

## **Module - 4: TABLEAU**

1. Understanding Data
2. Creating First visualization
3. Tableau Calculations
4. Formatting
5. Manipulating Data in Tableau
6. Advanced Visualization Tools
7. Creating Dashboards & Stories
8. Distributing & Publishing Visualization

## **Module - 6: Introduction to ML**

1. Machine Learning Introduction
2. Linear and Logistics Regression
3. Decision Trees & Random Forests
4. Principal Component Analysis

## **Module - 8: Projects**

1. Covid Dataset Analysis
2. Analysis of World Economic Data
3. Supermarket Data Analysis



# Data Science & Machine Learning

**Duration : 4 Months**

**3 Days Free Trail**

**Price : Rs. 6999 /-**

## **Module - 1: Introduction to Python**

1. Python Setup
2. Variables
3. Data Types
4. Casting
5. Numbers
6. Strings
7. Lists
8. Tuples
9. Sets
10. Dictionaries
11. Operators
12. Conditional Statements
13. Loops ( for, while )
14. Functions
15. Object Oriented Programming
16. Exception Handling
17. File Handling
18. Modules and Packages

## **Module - 3: Introduction to SQL**

1. Basics of SQL
2. SQL Statements
3. SQL Constrints
4. SQL Opertors
5. SQL Functions
6. SQL Clause
7. Sub Queris
8. Joins

## **Module - 5: Machine Learning**

1. Machine Learning Introduction
2. Linear and Logistics Regression
3. Decision Trees & Random Forests
4. Naive Bayes
5. KNN and SVM
6. Principal Component Analysis
7. Natural Language Processing
8. Neural Networks
9. TensorFlow and Keras
10. Deep Learning Algorithms
11. Unsupervised Learning

## **Module - 2: Introduction to Excel**

1. Basic Excel
2. Insert ( Illustrations, Charts )
3. Basic Functions ( Sum/Average/Count Etc.. )
4. Basic Formula
5. Absolute / Relative Referencing
6. LOOKUP Functions
7. Pivot Tables
8. Logical / Statistical Functions
9. Chart Data Techniques
10. Date / Time Functions
11. Text Functions Using
12. Validations
13. Math & Trigonometry Functions
14. Summarizing Data
15. Outlining
16. Consolidation
17. Custom Views
18. Importing & Exporting Data

## **Module - 4: Visualization Tools**

1. Understanding Data
2. Introduction to Data Visualizations
3. Introduction to Tableau
4. Tableau Visualizations
5. Power BI Introduction
6. Power BI Visualizations
7. Creating Dashboards
8. Distributing & Publishing Visualization

## **Module - 6: Mathematics**

1. Introduction to Statistics
2. Descriptive Statistics
3. Inferential Statistics
4. Hypothesis Testing

## **Module - 7: Projects**

1. Covid Dataset
2. Analysis of World Economic Data
3. Supermarket Data Analysis
4. Twitter Sentiment Analysis



# Front-End Web Development

**Duration : 2 Months**

**3 Days Free Trail**

**Price : Rs. 4999 /-**

## **Module - 1: Introduction to HTML**

1. Introduction To HTML
2. Form Elements And Attributes
3. Working With Canvas
4. Audio / Video Source tags
5. HTML Tag-List
6. HTML Semantics
7. HTML Geolocation
8. HTML Drag / Drop
9. HTML Web Storages
10. HTML Web Workers

## **Module - 3: Introduction to JS**

1. Fundamentals of JS
2. Loops and Arrays
3. Function and Objects
4. Working of JS
5. Functions in JS
6. OOPS in JS
7. DOM Manipulation
8. JS Async, AJAX & APIs
9. Modules in js
10. JavaScript Object Notation (JSON)

## **Module - 5: Introduction to JQuery**

1. Introduction to JQuery
2. JQuery Selectors
3. JQuery Events
4. JQuery Effects
5. JQuery HTML / CSS
6. JQuery Traversing
7. JQuery AJAX
8. JQuery MISC
9. JQuery Properties

## **Module - 7: Firebase Database**

1. Introduction to Firebase
2. Firebase Authentication
3. Firebase Firestore
4. Firebase Storage
5. Firebase CRUD
6. Firebase Hosting

## **Module - 2: Introduction to CSS**

1. CSS Introduction
2. Styling with CSS
3. Intro to Flex
4. CSS Advance
5. Intro to Grid
6. Responsive designs
7. Animations and 3D space
8. Bootstrap Framework
9. Resume Project
10. PhotoFolio Project

## **Module - 4: Version Control System**

1. Introduction to Git
2. Git Branches
3. Git Workflow
4. Introduction to Github
5. Github Branches
6. Pull / Push to Github
7. Clone / Fork from github
8. Git Ignore
9. Git & Github SSH
10. Git Revert / Reset / Amend

## **Module - 6: React & Redux**

1. Introduction to React
2. Learning JSX
3. Create-React-App
4. React Components - I
5. React Components - II
6. Styling in React
7. Component Lifecycle Methods
8. React Hooks
9. React Router
10. Context API
11. Redux in React
12. Redux Toolkit

## **Module - 8: Projects**

1. Music Player WebApp
2. Stock Market Analysis WebApp
3. E-commerce WebApp



# Back-End Web Development

**Duration : 4 Months**

**3 Days Free Trail**

**Price : Rs. 8999 /-**

## **Module - 1: Introduction to JS**

1. Fundamentals of JS
2. Loops and Arrays
3. Function and Objects
4. Working of JS
5. Functions in JS
6. OOPS in JS
7. DOM Manipulation
8. JS Async, AJAX & APIs
9. Modules in js
10. JavaScript Object Notation (JSON)

## **Module - 3: Introduction to NodeJS**

1. Introduction to Nodejs
2. Core Node.js modules
3. Reading and writing files asynchronously
4. File system operations and events
5. Event loop and its role
6. Callbacks and event emitters
7. Promises & async/await

## **Module -5: Introduction to ExpressJs**

1. Introduction to Expressjs
2. Creating Servers with ExpressJs
3. Creating Dynamic Template
4. Defining RESTful Routes
5. Implementing MVC in Express
6. Middleware in ExpressJs
7. Using Template Engines
8. Error Handling
9. API Handling
10. Developing Template Engines
11. Using Process Managers

## **Module -7: Introduction to MongoDB**

1. Introduction to MongoDB
2. CRUD With MongoDB
3. MongoDB Data Modelling
4. MongoDB Security
5. MongoDB Aggregation
6. MongoDB Indexes
7. MongoDB Storage & replication

## **Module - 2: Version Control System**

1. Introduction to Git
2. Git Branches
3. Git Workflow
4. Introduction to Github
5. Github Branches
6. Pull / Push to Github
7. Clone / Fork from github
8. Git Ignore
9. Git & Github SSH
10. Git Revert / Reset / Amend

## **Module - 4: Introduction to DBMS**

1. Introduction to PostgreSQL
2. Basics of RDBMS Concepts
3. Basics of SQL Concepts
4. PostgreSQL Security Concepts
5. PostgreSQL Infrastructure Skills
6. Automation in PostgreSQL
7. SQL Optimization Techniques

## **Module - 6: React & Redux**

1. Introduction to React
2. Learning JSX
3. Create-React-App
4. React Components - I
5. React Components - II
6. Styling in React
7. Component Lifecycle Methods
8. React Hooks
9. React Router
10. Context API
11. Redux in React
12. Redux Toolkit

## **Module - 8: Projects**

1. File Analyzer App
2. Image Bazaar WebApp
3. Google Drive Clone WebApp
4. Open-Board WebApp
5. Instagram Clone WebApp



# Full-Stack Web Development

**Duration : 6 Months**

**3 Days Free Trail**

**Price : Rs. 12999 /-**

## **Module - 1: Introduction to HTML**

1. Introduction To HTML
2. HTML Forms
3. HTML Tag-List
4. HTML Graphics
5. HTML Media
6. HTML Apis

## **Module - 3: Introduction to JS**

1. Fundamentals of JS
2. JS Objects & Functions
3. JS Classes
4. DOM Manipulation
5. JS Web Apis & JS Graphics
6. JS AJAX & JSON
7. JQuery Library

## **Module - 5: Introduction to NodeJs**

1. Introduction to Nodejs
2. Core Node.js modules
3. File system operations & events
4. Event loop and its role
5. Callbacks and event emitters
6. Promises & async/await

## **Module -6: Introduction to ExpressJs**

1. Introduction to Expressjs
2. Creating Servers with ExpressJs
3. Creating Dynamic Template
4. Defining RESTful Routes
5. Implementing MVC in Express
6. Middleware in ExpressJs
7. API & Error Handling
8. Socket Programming

## **Module -7: Introduction to MongoDB**

1. Introduction to MongoDB
2. CRUD With MongoDB
3. MongoDB Data Modelling
4. MongoDB Security
5. MongoDB Aggregation
6. MongoDB Indexes
7. MongoDB Storage & replication

## **Module - 2: Introduction to CSS**

1. CSS Introduction
2. Intro to Flex
3. Intro to Grid
4. Responsive designs
5. Animations and 3D space
6. Bootstrap Framework

## **Module - 4: Version Control System**

1. Introduction to Git
2. Introduction to Github
3. Pull / Push to Github
4. Clone / Fork from github
5. Git Ignore
6. Git & Github SSH
7. Git Revert / Reset / Amend

## **Module - 8: React & Redux**

1. Introduction to React
2. Learning JSX
3. Create-React-App
4. React Components
5. Styling in React
6. Component Lifecycle Methods
7. React Hooks
8. React Router
9. Context API
10. Redux in React
11. Redux Toolkit

## **Module - 9: Deployment**

1. Grunt / Gulp
2. Creating Databases (MongoDB)
3. Deploying NodeJS on AWS

## **Module - 10: Projects**

1. Music Player WebApp
2. Stock Market Analysis WebApp
3. E-commerce WebApp
4. File Analyzer App
5. Google Drive Clone WebApp
6. Open-Board WebApp
7. Instagram Clone WebApp



# React-Native Mobile App Development

**Duration : 6 Months**

**3 Days Free Trail**

**Price : Rs. 19999 /-**

## **Module - 1: Get Started**

1. React Native overview
2. Advantages of React Native
3. Course introduction

## **Module - 2: Pre-requisites**

1. CSS fundamentals
2. JavaScript fundamentals
3. React fundamentals

## **Module - 3: Environment Setup**

1. Setup development environments
2. Installing required tools
3. Creating a new project
4. Configuring emulators

## **Module - 4: Development Workflow**

1. React Native project structure
2. Debugging tools
3. Managing dependencies
4. Running, testing, and building apps
5. CI / CD options

## **Module - 5: Core Components**

1. Core components in React Native
2. Building and styling components
3. State management and props
4. Handling user interactions
5. Developing a user interface

## **Module - 6: Platform Specific Code**

1. Writing platform-specific code
2. Platform-specific modules / libraries
3. Platform-specific design / functionality

## **Module - 7: Styling**

1. Styling with Flexbox and CSS
2. Theming and design patterns
3. Responsive design
4. Animations and transitions

## **Module - 8: Networking**

1. Making API requests
2. RESTful APIs
3. Secure data transmission

## **Module - 9: Push Notifications**

1. Implementing push notifications
2. Firebase Cloud Messaging (FCM)
3. Handling notifications / user interactions

## **Module - 10: Interactions**

1. User interactions / gestures
2. Touch events / gestures
3. Gesture recognizers / animations

## **Module - 11: Deep Linking**

1. Deep linking for navigation
2. Handling deep links
3. Routing and navigation

## **Module - 12: Security**

1. Security best practices
2. Authentication and secure data handling
3. Secure storage and data encryption

## **Module - 13: Storage**

1. Local data storage and persistence
2. AsyncStorage and SQLite
3. Data synchronization

## **Module - 14: Testing**

1. Unit tests
2. Component and integration tests
3. Testing on real devices / simulators

## **Module - 15: Performance**

1. Optimizing app performance
2. Handling images / assets
3. Profiling / debugging performance

## **Module - 16: Publishing Apps**

1. Preparing apps for deployment
2. Generating production builds
3. App store submission guidelines

## **Module - 17: Projects**

1. To-Do List App
2. Weather App
3. E-commerce App
4. Social Media App