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**

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Code Sphere Academy, Bhilai, CG

ENROL NOW

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 – 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 – 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 – 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 – 5 : Power BI

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

Module – 6 : Introduction to ML

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

Module – 7 : Mathematics

1. Introduction to Statistics
2. Descriptive Statistics

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 /- |

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13. Math & Trigonometry Functions
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16. Consolidation
17. Custom Views
18. Importing & Exporting Data

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 – 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 – 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 – 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

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 - 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 - 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 - 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 - 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 - 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 - 7: Firebase Database

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

Module - 8: Projects

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

Back-End Web Development

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 - 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 - 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 - 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 -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 - 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 -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 - 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 - 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 - 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 - 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 - 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 - 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 -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 - 9: Deployment

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

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 - 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

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