



IT EDUCATION  
CENTRE

# Data Analyst



# Course content in Data Analyst

- Advance Excel
- PowerBI
- Tableau
- Python for Data Analysis
- SQL

## Advance Excel

- Introduction to Excel
- Data cleaning and preparation
- Conditional formatting
- Important functions
- Analyzing data with pivot table
- Data analysis using statistics
- Using macros for analytics

# Power BI

- ▶ Introduction to Power BI
- ▶ Get Data from different sources
- ▶ Profile the data
- ▶ Clean and load the data
- ▶ Design a data model
- ▶ Develop a data model
- ▶ Optimize the model performance
- ▶ Create Reports
- ▶ Create dashboards
- ▶ Advance analysis

# Tableau

- ▶ Introduction to Tableau
- ▶ Connecting various data sources and preparing data
- ▶ Working with Metadata
- ▶ Filters in Tableau
- ▶ Structuring data in Tableau
- ▶ Calculations in Tableau
- ▶ Advanced visual analysis
- ▶ Dashboard and stories

# Python For Data Analysis

- ▶ Introduction to Python
- ▶ Basics of Python
- ▶ Python functions
- ▶ Conditional statement
- ▶ Loops and control statement
- ▶ File handling with Python
- ▶ Exception handling
- ▶ Statistical analysis of data
- ▶ Mathematical computing using NumPy
- ▶ Data manipulation with Pandas
- ▶ Data visualization with Matplotlib

## SQL

- ▶ Introduction to SQL
- ▶ Database normalization and entity relationship model
- ▶ MySQL Installation and setup
- ▶ Working with database and tables
- ▶ Working with operators and constraints
- ▶ Functions in SQL
- ▶ Working with views
- ▶ Advance queries for performance optimization

- **Creating a Git Account**
- **Cloning the repository**
- **Adding the file**
- **Committing the file**
- **Git push**
- **Removing the file**

