

Python for Data Analytics & Reporting ***THEMED TRACK***

(with R, Tableau & Power BI)

4-Course Series

- Business Intelligence using Power BI and Tableau
- Data Analytics using R
- Microsoft 365 Excel
- Data Analytics using Python



Duration of 140 Hours

access anytime and anywhere



Online Self-Paced

Learn at your convenience



1-Year of Access

Get LMS access for one year



Completion Certificate

Jointly issued by NAL & GT Bharat



Online Query Support

Through LMS, by SME within 48-Hrs

Inaugural Price

₹ 19,500/-

Plus Taxes

Organizations value data as an asset. When managed effectively, data can help define long-term business strategies, improve systems and streamline processes, mitigate risks, and gain a competitive edge. This program will teach learners how to transform data into actionable insights, maximize the value of data for an organization, analyze large datasets quickly, and develop reporting dashboards that make data more accessible.

Business intelligence is a strategic tool that helps organizations track trends, identify actions, and understand their overall operations. It can improve processes, efficiency, and decision-making.



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Program Website

Enroll Now!

Business Intelligence (Power BI & Tableau)

Module 1: Introduction

Module 2: Power BI

Module 3: Tableau

Module 4: Software Support

- a. Support Material
- b. Final Assessment
- c. Power BI and Tableau Instructions
- d. Software Download Instructions

Data Analytics using R

Module 1: Introduction and Programming

1. Introduction to Data Analytics
2. Introduction to R
 - a. R programming
 - b. R programming - Case Study
 - c. Customer Churn

Module 2: Statistics and Visualization

1. Data Visualization: Various graphs, charts
2. Data Visualization: Advance
3. Descriptive Statistics: Basic statistical techniques including data properties: Hypothesis testing DPLYR package.
4. Linear Regression Model
5. Multinomial Linear Regression - Case Study
6. Logistic Regression
7. Multinomial Logistic Regression
 - a. Multinomial Logistic Regression - Case Study

Module 3: Advance Methods

1. Introduction to Artificial intelligence, ML and Deep learning
2. Neural Networks
3. Support Vector Machines (SVM)
4. Support Vector Machines (SVM) - Case Study
5. Decision Tree
6. Random Forest
7. K-nearest Neighbors
8. K-nearest Neighbors - Case Study
9. Clustering (K Means)
10. Principle Component Analysis
11. Principle Component Analysis - Case Study

Microsoft 365 Excel

Module 1: MS Excel Essentials: Functions and Tools

1. Data management and formatting
2. Referencing in Excel
3. Data split
4. Data validation
5. Adding hyperlinks
6. Logical functions
7. Lookup functions
8. Conditional functions
9. SUMPRODUCT function
10. Large and small values
11. Data concatenation
12. Working with dates and time
13. Financial functions
14. Text-oriented functions
15. Aggregate function
16. OFFSET function
17. INDIRECT function
18. Formula auditing
19. Statistical functions
20. Using Range Names
21. Excel Table
22. What If Analysis
23. Protecting Worksheet and Workbook
24. Dashboards and Data Summarization

Module 2: Microsoft 365 Excel

1. MS-365 Excel overview
2. Create dynamic sequence
3. Unique, sort and filter
4. New age lookup
5. Text-oriented functions
6. New data types
7. Create customized functions in Excel
8. Other functions
9. Assessment and study material

Data Analytics using Python

Module 1: Basic Python

1. Getting started with Python
2. Data and information management with Python Containers in Python
3. Conditional statements and control structures
4. Functions in programming
5. Functional programming in Python
6. Exceptions handling in Python
7. Python advanced topics
8. Python projects to check the knowledge
9. File handling and other OS interactions

Module 2: Python for Data Science

1. Lecture on introduction to Vectors, Matrices, and NumPy
2. Lecture on introduction to Data Frame manipulation series
3. Introduction to Data Frame manipulation
4. Data Frame manipulation
5. Date and time data frame manipulation
6. Lecture on Pandas internal commands
7. Lecture on visualization in Python
8. Lecture on visualization in Python part 2
9. Lecture on understanding Seaborn from scratch
10. Lecture on exploratory data analytics case study Chipotle

Module 3: Stats for Python

1. Basic statistics
2. Basic statistics
3. Probability theory



ADVANCED E-LEARNING COURSES

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GRANT THORNTON & NSE ACADEMY**



Get ready with specialized skills sets in advance analytics and technologies.



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In-course exercises files to help apply knowledge in real-world situations.



Joint certificate will be awarded by Grant Thornton & NSE Academy upon completion.

Grant Thornton & NSE Academy, self-paced courses are designed to impart practical knowledge and skills to the learners. The programs are helpful to those individuals who aim to build or advance careers in specialized domains like Finance & advanced technologies like Blockchain, Analytics, Cyber Security, and Taxation.

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The organization serves India region with 13 offices in all major cities with more than 15,000 people.

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