

WOTMERS TECHNOLOGIES LTD

Data Analysis

Uncover Insights, Drive Decisions, Tell Stories with Data

Duration	Level	Course Fee	Delivery
10 Weeks (Full-Time) / 20 Weeks (Part-Time)	Beginner to Intermediate	NGN 100,000	In-Person Abuja & Kaduna

Course Overview

The Data Analysis programme trains students to collect, clean, analyse, and present data to support business decision-making. Covering Excel, SQL, Python, and Power BI, the course gives students a well-rounded, tool-agnostic skill set. Emphasis is placed on real-world business cases including sales analysis, financial reporting, customer behaviour, and operational performance tracking. Students leave with a portfolio of dashboards and reports ready to present to employers.

Course Curriculum

Week	Topic	What You Will Learn
Wk 1	Introduction to Data & Analytics	Data types, data lifecycle, analytics vs analysis, business intelligence concepts, data ethics
Wk 2	Advanced Excel for Analysis	Formulas, VLOOKUP/XLOOKUP, PivotTables, PivotCharts, conditional formatting, data validation
Wk 3	Excel Dashboards & Reporting	Interactive dashboards, slicers, sparklines, scenario analysis, report automation with macros
Wk 4	SQL for Data Analysis	SELECT, WHERE, GROUP BY, JOINS (inner/outer/cross), subqueries, window functions, CTEs
Wk 5	Database Design & Querying	Relational schemas, ERDs, normalisation, query optimisation, stored procedures, PostgreSQL
Wk 6	Python for Analysis	Python fundamentals, Pandas for data wrangling, Matplotlib/Seaborn for visualisation, Jupyter
Wk 7	Statistical Analysis	Descriptive statistics, hypothesis testing, A/B testing, regression analysis, confidence intervals
Wk 8	Power BI Fundamentals	Data modelling, DAX calculations, relationships, data sources, Power Query (M language)

Wk 9	Power BI Dashboard Design	Report layout, visual best practices, drill-through, row-level security, publishing to service
Wk 10	Capstone Project & Career Prep	End-to-end business analysis project, portfolio building, LinkedIn optimisation, interview prep

Learning Outcomes

By the end of this course, students will be able to:

- ✓ Clean and transform messy data using Excel, SQL, and Python
- ✓ Build professional interactive dashboards in Power BI
- ✓ Identify trends, patterns, and anomalies in datasets
- ✓ Automate reporting workflows to save time
- ✓ Write complex SQL queries to extract business insights
- ✓ Perform statistical analysis and hypothesis testing
- ✓ Create compelling data narratives for decision-makers
- ✓ Build a job-ready portfolio of data projects

Tools & Technologies Covered

Microsoft Excel	SQL / PostgreSQL	Python (Pandas)	Power BI
Tableau (intro)	Google Sheets	Jupyter Notebook	Git

Career Opportunities

- Data Analyst
- Business Intelligence Analyst
- Reporting Analyst
- Financial Analyst
- Operations Analyst
- Product Analyst

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