



IT Expert
TECHNOLOGY



DATA ANALYTICS

(COMPLETE COURSE)

NOW YOU CAN CODE

100% PLACEMENT ASSISTANCE

COURSE OVERVIEW

Practical program to become job-ready in Data Analytics, BI reporting and business insights.

The Data Analytics Complete Course at IT Expert Technology is designed for students, freshers, graduates and working professionals who want practical skills in Python, SQL, Excel, Power BI, data cleaning, dashboards, reporting and project portfolio preparation. The training focuses on real business datasets, insight writing and interview readiness.

Practical First

- Python and SQL practice with real datasets.
- Excel and Power BI reporting tasks.
- Dashboard design and insight writing.
- Module-wise assignments and review.

Industry Tools

- Python, Pandas, NumPy and Matplotlib.
- SQL and MySQL database analytics.
- Excel functions, Pivot Tables and Macros.
- Power BI, DAX and Power Query.

Project Portfolio

- Mini projects and case studies.
- BI dashboards and analytics reports.
- GitHub-ready notebooks and screenshots.
- Final capstone with presentation.

Career Support

- Resume building with analytics keywords.
- Mock interviews and technical Q&A.
- LinkedIn and GitHub portfolio guidance.
- 100% Placement Assistance.

Best Suitable For

- BCA, BCS, BSc, BE/BTech, MCA, MSc, Diploma, MBA, commerce graduates and working professionals.
- Freshers and final-year students needing projects and portfolio preparation.
- Professionals moving into analytics and reporting roles.

WHAT YOU WILL LEARN

Clear skill outcomes and professional confidence after completion.

1 Data Analytics Skills

- Collect, clean and interpret datasets.
- Use Python for analytics and automation.
- Analyze data with Excel, SQL, Pandas and NumPy.
- Create charts, reports and dashboards.
- Build Power BI dashboards and visual reports.
- Write insights and recommendations.

2 Professional Skills

- Prepare interview-ready project documentation.
- Build a portfolio with dashboards and GitHub.
- Explain business problems, data approach and outcomes.
- Practice SQL, Excel, Power BI and dashboard interview questions.
- Present client-ready reporting workflows.

Why This Course Works

- Learn by building dashboards and reports, not only by studying theory.
- Module-wise assignments, guided project work and case-study practice.
- Interview-focused portfolio with Excel, SQL, Python and Power BI projects.
- Professional communication of insights and recommendations.

Training Type

Practical + Project-Based

Mode

Classroom / Online / Hybrid

Certification

Support as per Policy

Placement

100% Assistance

COURSE ROADMAP

Step-by-step professional learning journey from foundation to portfolio.

1

Phase 1 | Foundation

Python setup, statistics and Excel analytics.

2

Phase 2 | Database

SQL, MySQL, NumPy, Pandas and data cleaning.

3

Phase 3 | Visualization

Matplotlib and Power BI reporting.

4

Phase 4 | Advanced BI

DAX, KPIs, Power Query and executive reports.

5

Phase 5 | Portfolio

Live projects, resume, GitHub and interviews.

After Completing This Roadmap, Student Can

- Clean and analyze datasets using Python, Excel and SQL.
- Create professional Power BI dashboards and reports.
- Explain insights and business recommendations clearly.
- Build a portfolio with reports, dashboards and a capstone project.
- Face interviews with project-based confidence.

ONE COMPLETE COURSE PLAN

One professional course plan with practical training, projects and 100% Placement Assistance.

COMPLETE DATA ANALYTICS COURSE - ALL BENEFITS INCLUDED

- Python, SQL, Excel, Power BI and dashboard development.
- Practical assignments, case studies and live projects.
- Power Query, DAX, KPI reporting and insight writing.
- Final capstone project with portfolio guidance.
- Course certificate and certification support as per institute policy.
- Resume, LinkedIn, GitHub and mock interview support.
- 100% Placement Assistance.

COURSE FEE DETAILS & STUDENT BENEFITS

Regular Course Fee

Rs. 40,000

Discounted Course Fee

Rs. 30,000

One-Time Payment Offer

Rs. 27,000

IMPORTANT FEE & PLACEMENT CLARIFICATIONS

- IT Expert Technology provides 100% Placement Assistance with resume guidance, mock interviews and job opportunity support.
- Placement outcome depends on student skills, attendance, project completion, interview performance and employer selection.
- Students receive dashboard, LinkedIn, GitHub and project presentation support.
- Course discounts and fee offers are valid only when recorded on the official fee receipt.

MODULE-WISE SYLLABUS

Professional, readable modules with practical deliverables.

1 Analytics Foundation & Career Roadmap

KEY TOPICS

- What is data analytics and why businesses use it.
- Collecting, categorizing and interpreting data.
- Market trends and customer behavior insights.
- Business decision-making using data.
- Data analyst and BI career roles.

PROFESSIONAL OUTCOME

- Clear understanding of analytics workflow, roles and project roadmap.

HANDS-ON LAB

- Map a business problem.

MINI PROJECT

- Portfolio roadmap.

INTERVIEW FOCUS

- Analytics workflow.

DELIVERABLE

- Roadmap sheet.

Analytics

Insights

Business

Career

2 Python Setup & Programming Basics

KEY TOPICS

- Python overview and applications in analytics.
- Anaconda, Jupyter Notebook, Spyder and VS Code setup.
- Python syntax, variables, constants and indentation.
- Data types: strings, lists, tuples, dictionaries and sets.
- Input/output operations and first Python script.

PROFESSIONAL OUTCOME

- Strong Python foundation for data cleaning and automation tasks.

HANDS-ON LAB

- Run the first script.

MINI PROJECT

- Data utility script.

INTERVIEW FOCUS

- Python basics.

DELIVERABLE

- Practice notebook.

Python

Jupyter

VS Code

Basics

MODULE-WISE SYLLABUS

Professional, readable modules with practical deliverables.

3 Functions, Conditions & Loops

KEY TOPICS

- Defining and calling functions.
- Arguments, return values and lambda functions.
- Boolean logic, if, elif, else and nested conditions.
- For loop, while loop and nested loops.
- Break, continue and pass statements.

PROFESSIONAL OUTCOME

- Ability to solve logic-based analytics programming tasks.

HANDS-ON LAB

- Trace program loops.

MINI PROJECT

- Calculator or grade app.

INTERVIEW FOCUS

- Functions and loops.

DELIVERABLE

- Logic programs.

Functions

Loops

Conditions

Lambda

4 File Handling, Exceptions & Statistics

KEY TOPICS

- Read and write text, CSV and JSON files.
- File modes: read, write and append.
- try, except, else and finally blocks.
- Raising exceptions and custom exceptions.
- Statistical analysis for data interpretation.

PROFESSIONAL OUTCOME

- Handle files, runtime errors and basic statistical analysis.

HANDS-ON LAB

- Process a CSV file.

MINI PROJECT

- Record manager.

INTERVIEW FOCUS

- Files and errors.

DELIVERABLE

- File scripts.

Files

CSV

JSON

Statistics

MODULE-WISE SYLLABUS

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5 NumPy Mathematical Computing

KEY TOPICS

- NumPy arrays and numerical operations.
- Indexing, slicing, shape and reshape.
- Array calculations and vectorized operations.
- Sorting, filtering and aggregations.
- Mathematical computing for real datasets.

PROFESSIONAL OUTCOME

- Numerical computing skill for analysis and reporting workflows.

HANDS-ON LAB

- Perform array operations.

MINI PROJECT

- Sales calculation.

INTERVIEW FOCUS

- Arrays and math.

DELIVERABLE

- NumPy notebook.

NumPy

Arrays

Math

Compute

6 Pandas Data Manipulation

KEY TOPICS

- Pandas Series and DataFrame.
- Read CSV, Excel and JSON datasets.
- Filtering, sorting, grouping and aggregation.
- Handling missing values and duplicates.
- Data type conversion and cleaning workflow.

PROFESSIONAL OUTCOME

- Clean analysis-ready dataset with documented preprocessing steps.

HANDS-ON LAB

- Clean a dataset.

MINI PROJECT

- Customer data preparation.

INTERVIEW FOCUS

- DataFrame operations.

DELIVERABLE

- Clean dataset.

Pandas

DataFrame

Cleaning

Excel

MODULE-WISE SYLLABUS

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7 Matplotlib Visualization & EDA

KEY TOPICS

- Data visualization with Matplotlib.
- Line, bar, pie, histogram and scatter charts.
- Chart labels, titles, legends and formatting.
- EDA observations and insight writing.
- Visual storytelling for business reporting.

PROFESSIONAL OUTCOME

- Clear charts and EDA report with business observations.

HANDS-ON LAB

- Create charts.

MINI PROJECT

- EDA report.

INTERVIEW FOCUS

- Chart selection.

DELIVERABLE

- Insight report.

Matplotlib

EDA

Charts

Reports

8 SQL & Database Analytics

KEY TOPICS

- SQL introduction and database concepts.
- Normalization and entity relationship model.
- MySQL installation and setup.
- Databases, tables, operators and constraints.
- SQL functions, views and advanced queries.

PROFESSIONAL OUTCOME

- Extract, summarize and analyze data using SQL.

HANDS-ON LAB

- Write queries.

MINI PROJECT

- SQL report.

INTERVIEW FOCUS

- Joins and views.

DELIVERABLE

- SQL scripts.

SQL

MySQL

Views

Queries

MODULE-WISE SYLLABUS

Professional, readable modules with practical deliverables.

9 Power BI Data Sources & Power Query

KEY TOPICS

- Power BI Desktop, Service and Mobile overview.
- Connect Excel, CSV, database, web and cloud sources.
- DirectQuery versus Import mode.
- Data profiling and quality checking.
- Clean and load data using Power Query Editor.

PROFESSIONAL OUTCOME

- Import, profile, clean and load business data into Power BI.

HANDS-ON LAB

- Load data sources.

MINI PROJECT

- Sales model.

INTERVIEW FOCUS

- Power Query.

DELIVERABLE

- PBIX file.

Power BI

Power Query

Sources

Cleaning

10 Power BI Modeling, Reports & Dashboards

KEY TOPICS

- Data modelling with relationships and star schema.
- DAX calculated columns and measures.
- Visual reports with charts, maps, slicers and filters.
- Dashboard design with tiles and KPIs.
- Advanced DAX, AI visuals and what-if analysis.

PROFESSIONAL OUTCOME

- Interactive Power BI dashboard with KPIs and business insights.

HANDS-ON LAB

- Build a dashboard.

MINI PROJECT

- KPI dashboard.

INTERVIEW FOCUS

- DAX and reports.

DELIVERABLE

- Dashboard file.

DAX

Reports

KPIs

Dashboard

MODULE-WISE SYLLABUS

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Power BI Data Modeling & DAX

KEY TOPICS

- Model view, relationships and star schema.
- Calculated columns, measures and DAX formulas.
- Time intelligence and KPI calculations.
- Bookmarks, drill-through and report navigation.
- Performance analyzer and model optimization.

PROFESSIONAL OUTCOME

- Optimized Power BI models with business KPIs and DAX calculations.

HANDS-ON LAB

- Create DAX measures.

MINI PROJECT

- Power BI data model.

INTERVIEW FOCUS

- DAX and model.

DELIVERABLE

- PBIX model file.

Power BI

DAX

Modeling

KPIs

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Power BI Reports, Dashboards & Insights

KEY TOPICS

- Interactive reports with charts, maps, tables and slicers.
- Dashboard pages for sales, HR and business KPIs.
- AI visuals, what-if analysis and forecasting.
- Power BI Service publishing and sharing overview.
- Insight writing and executive presentation.

PROFESSIONAL OUTCOME

- Professional Power BI dashboard with clear insights and presentation flow.

HANDS-ON LAB

- Create dashboard.

MINI PROJECT

- Executive report.

INTERVIEW FOCUS

- Reports and insights.

DELIVERABLE

- Dashboard file.

Power BI

Reports

Dashboard

Insights

FINAL MODULE & TOOL STACK

Excel analytics plus a complete modern data analytics toolkit.

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Excel Analytics & Automation

KEY TOPICS

- Excel basics for data analytics.
- Data cleaning and preparation.
- Conditional formatting and key functions.
- Pivot tables and statistical analysis.
- Macros for analytics automation and reporting.

PROFESSIONAL OUTCOME

- Excel-based data analysis, MIS reporting and dashboard preparation skills.

HANDS-ON LAB

- Create pivot reports.

MINI PROJECT

- Excel MIS report.

INTERVIEW FOCUS

- Formulas and pivots.

DELIVERABLE

- Excel dashboard.

Excel

Pivot

Macros

MIS

Programming

- Python
- Jupyter
- VS Code
- NumPy
- Pandas

Database

- SQL
- MySQL
- Normalization
- Views

BI Tools

- Power BI
- Power Query
- DAX
- KPIs

Excel

- Functions
- Pivot Tables
- Macros
- MIS

LIVE PROJECTS & PORTFOLIO

Practical mini projects and final capstone project for resume and interview explanation.

Project Name	Technology Focus	Outcome
Sales Performance Dashboard	Excel / Power BI	KPI dashboard for revenue tracking
Customer Behavior Analysis	Python / Pandas	Customer trend insights
HR Attrition Analytics	Power BI / SQL	Employee attrition dashboard
Retail Data Analysis	Python / Matplotlib	EDA report with charts
Power BI Executive Dashboard	Power BI	Management KPI report
Marketing Campaign Analysis	Python / BI	ROI and campaign insights
Excel MIS Reporting System	Excel / Macros	Automated reporting workbook
Final Capstone Project	Full Analytics Stack	Portfolio-ready project

Project Development Support

- Project planning, data collection, cleaning and dashboard design.
- Code implementation, chart selection and insight writing.
- Power BI dashboard review and presentation support.
- GitHub upload, screenshots, README writing and final viva preparation.

CERTIFICATION & STUDENT BENEFITS

Professional support beyond classroom learning.

Certification Included

- IT Expert Technology course completion certificate after successful attendance, assignments and project completion.
- Certification support as per institute policy and external provider availability.
- Project completion support for interview and portfolio presentation.

Student Benefits

- Complete practical training from basic to advanced level.
- Trainer support for doubts, assignments and project errors.
- Live projects to build resume and portfolio.
- Batch-wise progress tracking, tests and feedback.

Professional Development Support

- Resume building with data analytics project keywords and clear achievements.
- LinkedIn profile improvement and job search guidance.
- GitHub project upload with README, screenshots and explanation notes.
- Mock interviews with Python, SQL, Excel, Power BI and project questions.
- Aptitude, communication and HR preparation as per batch schedule.
- Interview-ready explanation of business problem, approach, result and impact.

Career-Ready Outcome

- Resume + dashboards + live projects + interview practice. Students complete the course with practical analytics skills and dashboard confidence.

PLACEMENT ASSISTANCE & ADMISSION

Career support process, eligibility requirements and admission guidance.

100% PLACEMENT ASSISTANCE INCLUDES

- Resume preparation with analytics and project keywords.
- LinkedIn and GitHub portfolio guidance.
- Mock interviews and technical question practice.
- Job opportunity sharing and interview coordination support.
- Dashboard and capstone presentation guidance.

STUDENT RESPONSIBILITIES

- Maintain regular attendance or complete approved make-up sessions.
- Complete assignments, tests, dashboards and final capstone submission.
- Prepare updated resume, LinkedIn profile, portfolio and documentation.
- Attend suitable interview opportunities shared by the institute.
- Maintain professional communication and accurate information.

Placement Outcome Note

Placement assistance supports students in career preparation and interview opportunities. Final selection depends on student performance, eligibility and employer requirements.

ADMISSION PROCESS

- Counselling and single course plan explanation.
- Admission form, fee confirmation and official receipt generation.
- Batch allocation and software setup guidance.
- Training, assignments, dashboards, projects and portfolio preparation.
- Course completion and placement assistance process.

JOIN DATA ANALYTICS COURSE

Start learning with practical training and project-based mentoring

ADMISSIONS OPEN

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Course Tracks

Python | SQL | Excel | BI

Placement

100% Assistance

Portfolio

Projects + Dashboards

BOOK YOUR COUNSELLING SESSION TODAY

ONE COMPLETE COURSE PLAN | 100% PLACEMENT ASSISTANCE

Brochure Note: Final course duration, batch timing, fee plan, certification details, placement assistance details and special offers will be confirmed during admission counselling and on the official fee receipt.