

Data Analyst Course Syllabus 2026

What 14 courses in India actually teach. Read from official course pages on 1 November 2026.

The common syllabus

Subject	What it covers	Syllabi (of 14)
Excel or Google Sheets	Formulas, lookups, cleaning, pivot tables, charts	13
SQL	Queries, joins, aggregates, subqueries, window functions	13
Python	pandas, NumPy, Matplotlib, Seaborn, exploratory analysis	13
Capstone project	An end-to-end analysis on a real or realistic dataset	12
Power BI	Power Query, data modelling, DAX, dashboards	9
Statistics	Descriptive statistics, distributions, sampling, hypothesis tests	9
Generative AI	Copilot, prompting, AI-assisted analysis	9
Tableau	Charts, calculated fields, interactive dashboards	8
Machine learning	Regression, classification and clustering basics	7

Six-month study order

Month	Subject	Finish with
1	Excel and basic statistics	A cleaned dataset and a pivot-table summary
2	SQL	Joins and window functions on a real database
3	Power BI or Tableau	A published dashboard
4	Python with pandas	An exploratory analysis in a notebook
5	Statistics, hypothesis tests and AI tools	An A/B test write-up
6	Capstone, portfolio and interview practice	Two or three projects you can explain

Before you pay, ask

- Does it cover Excel, SQL, a BI tool, Python and statistics?
- How many hours does each tool get?
- Who reviews your projects, and are the datasets unique?
- When was the syllabus last updated?
- Which modules are live, and which are self-paced or "value add"?
- Do the tools match ten job posts in your city?

14 courses side by side

Course	Excel	SQL	Power BI	Tableau	Python	Stats	ML	GenAI	Capstone
Cisco Data Analytics Essentials	✓	✓		✓		✓			
Google Data Analytics (Coursera)	✓	✓		✓	✓				✓
IBM Data Analyst (Coursera)	✓	✓			✓		opt	✓	✓
NPTEL, IIT Roorkee					✓	✓	✓		
Codebasics	✓	✓	✓	✓	✓	✓		✓	✓
PW Skills	✓	✓	✓	✓	✓	✓	✓	✓	✓
ExcelR	✓	✓	✓	✓	✓	✓		✓	✓
DataMites	✓	✓	✓	✓	✓	✓	✓		✓
AccioJob	✓	✓	✓		✓	✓		✓	✓
AnalytixLabs	✓	✓	✓	opt	✓	✓	✓	✓	✓
Masai, IIT Roorkee	✓	✓			✓			✓	✓
Simplilearn, IIT Kanpur	✓	✓	✓	opt	✓		✓	✓	✓
Intellipaat, IITM Pravartak	✓	✓	✓		✓	✓	✓		✓
Coding Ninjas	✓	✓	✓		✓			✓	✓

✓ = named in the published curriculum. opt = optional, elective or basic. Blank = not listed on the page, not that it is never taught. Syllabi change between batches, so check the current one before paying.

Power BI: what Microsoft's PL-300 exam tests

Skill area	Share of exam
Prepare the data	25 to 30%
Model the data	25 to 30%
Visualize and analyze the data	25 to 30%
Manage and secure Power BI	15 to 20%

Full comparison, hours per subject and sources: www.bootcampguide.com/blog/data-analyst-course-syllabus
By Prince Dewani, for BootcampGuide.