

VALUE ADDED COURSE

Data Analytics for Banking & Insurance (30 Hours)

Course Overview: Develops Python and Power BI skills for RBI's data-driven supervision and IRDAI's analytics mandates.

Course Objectives:

Analyze banking and insurance data using Python.
Build dashboards for risk assessment (RBI's DAKSH framework).
Apply predictive models (loan defaults, claim fraud detection).

Learning Outcomes: By the end of the course, students will:

- ✓ Clean financial data using Python Pandas.
- ✓ Visualize NPA trends in Power BI.
- ✓ Submit a risk analytics report.

Course Modules:

Data Analytics Foundations (4 Hours)

Advanced Excel, Python/Pandas, SQL queries for transaction data

AI Tools for Finance (6 Hours)

Power BI + GenAI (automated insights), Fraud detection models

Customer & Risk Analytics (6 Hours)

CLV models, Telematics in auto insurance

Regulatory Reporting (6 Hours)

RBI's data norms, AML/KYC dashboards

Capstone Project (8 Hours)

Build a "Customer Churn Predictor" for a bank using Python

Assessment Criteria:

Dashboard (40%) + Python Assignment (30%) + Exam (20%) + Participation (10%)

Software Tools Used:

Python (Pandas, NumPy)

Power BI (Data Visualization)

SQL (Data Extraction)