Enterprise Business Analyst AI

S. No.	Topic	Subtopic	Learning Outcome
1	Introduction to Business Analytics	- Overview of Business Analytics	- Understand the fundamentals of business analytics and the role of a business analyst in an enterprise.
		- Types of Analytics (Descriptive, Predictive, Prescriptive)	- Learn about different types of analytics and their applications in business decision-making.
		- Setting Up Analytical Tools (Excel, Power BI)	- Set up and get familiar with Excel and Power BI for data analysis and visualization.
2	Data Handling and Management	- Data Collection Methods	- Understand various data collection methods and their significance in business analytics.
		- Data Cleaning and Preprocessing in Excel	- Learn techniques for data cleaning, preprocessing, and handling missing data in Excel.
		- Data Structuring with Pivot Tables	- Use pivot tables to structure and analyze large datasets effectively in Excel.
3	Statistical Analysis in Excel	- Descriptive Statistics	- Apply descriptive statistics to summarize and describe data in Excel.
		- Inferential Statistics	- Conduct hypothesis testing and make inferences from data using Excel.
		- Regression Analysis	- Perform linear and multiple regression analysis to predict outcomes and understand relationships in Excel.
4	Data Visualization with Excel and Power BI	- Charts and Graphs in Excel	- Create and customize various charts and graphs in Excel to visualize data effectively.
		- Advanced Excel Charts (Histograms, Pareto, Waterfall)	- Learn to create advanced charts like histograms, Pareto, and waterfall charts in Excel.
		- Introduction to Power BI	- Get an overview of Power BI, its interface, and its capabilities in data visualization and reporting.
5	Advanced Data Visualization in Power BI	- Data Modeling in Power BI	- Understand data modeling concepts and create relationships between datasets in Power BI.
		- Interactive Dashboards	- Build interactive dashboards in Power BI to present data insights dynamically.
		- DAX (Data Analysis Expressions) Basics	- Learn the basics of DAX to create calculated columns, measures, and complex data analysis in Power BI.
6	Advanced Analytics Techniques	- Time Series Analysis	- Perform time series analysis to identify trends and make forecasts using Excel and Power BI.
		- Scenario Analysis and What-If Analysis	- Use scenario analysis and what-if analysis tools in Excel to simulate business situations.
7	AI Tools in Business Analytics	- AI Tools in Excel (Excel AI Features)	- Explore AI tools available in Excel, like data insights and predictive models.
		- Power BI AI Visuals	- Use AI-powered visuals in Power BI to enhance data interpretation and decision-making.
8	Security and Ethical Considerations	- Data Security in Business Analytics	- Understand the importance of data security and apply best practices to protect business data.
		- Ethical Considerations in Data Handling	- Learn about ethical issues in data collection, analysis, and reporting, and how to address them.
		- Compliance and Regulatory Requirements	- Understand compliance and regulatory requirements related to data security and privacy.
9	Case Studies and Practical Applications	- Real-World Business Scenarios	- Apply analytical skills to real-world business scenarios using Excel and Power BI.
		- Case Study Analysis and Presentation	- Conduct a detailed analysis of a case study and present findings.
10	Project Development and Presentation	- Project Planning and Data Collection	- Plan and collect data for a comprehensive business analytics project using Excel and Power BI.
		- Project Analysis and Visualization	- Analyze data, create visualizations, and derive insights for the project.
		- Final Project Presentation and Documentation	- Present the final project, demonstrating advanced analytical skills and effective data visualization.