

## **Microsoft Fabric Course Syllabus**

### **Section 1: Introduction to Microsoft Fabric**

- Overview of Microsoft Fabric
- Explore End-to-End Analytics with Microsoft Fabric
- Data Teams and Microsoft Fabric
- Enable and Use Microsoft Fabric
- Understanding Data Teams and Roles

### **Section 2: Data Ingestion & Integration**

- Connecting to Various Data Sources (Cloud, On-premise)
- Data Transformation & ETL Processes
- Integrating Data into Microsoft Fabric
- Using Data flows and Pipelines

### **Section 3: Data Modeling & Design**

- Building Data Models in Microsoft Fabric
- Relationships, Tables, and DAX Basics
- Designing Efficient Data Models
- Best Practices for Data Architecture

### **Section 4: Data Exploration & Visualization**

- Exploring Data with Power BI
- Creating Interactive Dashboards & Reports
- Visualizing Data Effectively
- Advanced Power BI Features in Microsoft Fabric

### **Section 5: Advanced Analytics & AI in Microsoft Fabric**

- Leveraging Machine Learning Models
- Using Azure Machine Learning with Microsoft Fabric
- Advanced Data Insights through AI
- Real-world Applications of AI in Data Analysis

## **Section 6: Data Governance & Security**

- Managing Data Security in Microsoft Fabric
- Setting Up Access Controls and Permissions
- Implementing Data Governance Best Practices
- Ensuring Compliance with Regulatory Standards

## **Section 7: Performance Monitoring & Optimization**

- Monitoring Data Workflows & Pipelines
- Troubleshooting Data Issues
- Optimizing Data Models for Performance
- Scaling Data Infrastructure in Microsoft Fabric

## **Section 8: Deploying Data Solutions**

- Deploying Solutions into Production
- Using Azure Synapse for Data Deployment
- Version Control and CI/CD for Data Pipelines
- Automating Data Operations in Microsoft Fabric

## **Section 9: Collaboration & Sharing in Microsoft Fabric**

- Sharing Reports and Dashboards with Teams
- Collaborating on Data Models and Pipelines
- Using Microsoft Teams for Data Collaboration
- Data Sharing and Permissions Best Practices

## **Section 10: Capstone Project and Certification Preparation**

- Hands-on Project: Build an End-to-End Analytics Solution
- Best Practices for Certification Exam
- Key Concepts Review