

Microsoft Fabric Course Outline (7 Modules)

Module 1: Introduction to Microsoft Fabric

- Overview of Big Data Analytics with Azure
- Products and Services in Analytics
- Microsoft Fabric: One Umbrella
- Advantages of Microsoft Fabric

Module 2: Fabric Licenses & Capacity

- Fabric Workspace: Licensing
- Fabric Components & Tenant
- Organizational Licenses
- Capacity, PPU, and SKUs

Module 3: Lakehouse Concepts & Data Loads

- What is a Lakehouse?
- How to configure a Lakehouse?
- Lakehouse Explorer Tool
- Data Load Options to Lakehouse
- Large-Scale Data Analytics
- OneLake Metastore & Usage
- SQL Queries in Tables

Module 4: Fabric Data Factory – ETL & Pipelines

- Fabric Data Factory Overview
- Data Ingestions & Orchestrations
- Power Query: Advantages
- Pipeline Design: Copy Data
- Copy Assistant Usage Options
- Connections & Linked Services
- Secure Input/Output Options

- Pipeline Monitoring

Module 5: Spark Clusters & Synapse Warehouse

- Apache Spark Configurations
- Notebooks & Concurrency
- DataFrames & Realtime Usage
- Spark SQL Queries
- Overview of Fabric Data Warehouse
- Warehouse Creation & Compute Scaling
- Creating Tables & Sample Datasets

Module 6: Real-Time Analytics & OneLake

- Streaming & Time-Series Data
- Data Capture, Transformation & Routing
- Ingesting, Loading & Streaming Data
- Unified Data Lake in Fabric
- Warehouse vs. Lakehouse
- OneLake Workspace Management
- Governance & Unified Data Management

Module 7: Microsoft Fabric with Power BI & Final Project

- Using Power BI with Fabric
- Power BI Desktop with Fabric, OneLake, Synapse & Lakehouse
- Creating Power BI Dashboards
- Hands-on Practice & Project Implementation
- Final Project & Q&A