

Mandatory Course 2: Business Intelligence & Automation with Power Platform

Course Type:	SEC: Skill enhancement course	Course Credits:	4
Course Code:	S3SE508	Course Duration:	60 Hours

Course Objective:

- To familiarize students with strategic implications of information technology within business contexts.
- To equip students with practical skills for managing IT resources, infrastructure, and services.
- To cultivate analytical capabilities to align IT strategy with organizational objectives.
- To foster understanding of IT governance, compliance, and cybersecurity issues.
- To develop strategic insight into leveraging emerging technologies for competitive advantage.

Course Outcomes:

- CO1: Understand the components, business value, and integration capabilities of the Microsoft Power Platform within the Microsoft ecosystem.
- CO2: Apply governance, security, and administration practices while utilizing Dataverse architecture to develop secure and scalable business applications.
- CO3: Create, interpret, and share data visualizations and dashboards using Power BI to support data-driven decision-making.
- CO4: Evaluate and optimize business applications and automation flows using Power Apps and Power Automate for improved operational efficiency.
- CO5: Create intelligent, user-centric business solutions by leveraging AI Builder, Copilot, and Power Pages, and deliver integrated projects using Power Platform tools.

Unit/ Module	Content	CO Mapping	Hours Assigned
1	Power Platform Overview & Business Value - Introduction to Power Platform	CO1	4

	- Value of Power Apps, Power Automate, Power BI, Power Pages - Use of connectors, Dataverse, and Copilot		
2	Integration with Microsoft Ecosystem - How Power Platform integrates with Dynamics 365, Microsoft 365, Teams- Common use cases	CO1, CO2	4
3	Governance, Security & Admin - Power Platform admin centers - Environment types, security roles - Data privacy and accessibility	CO1, CO2	4
4	Microsoft Dataverse Concepts - Dataverse vs traditional DBs - Tables, columns, relationships - Business rules and logic	CO1, CO2	4
5	Connectors in Power Platform - Standard vs premium connectors - Connector architecture and use cases - Creating custom connectors	CO3, CO4	4
6	Power BI – Basics & Use Cases - Power BI Desktop & Service - Dashboards, reports, workspaces - Paginated reports vs dashboards	CO3, CO4	4
7	Power BI – Build Dashboards - Create reports using visualizations - Use Q&A to add visual elements - Share and consume reports	CO3, CO4	4
8	Power Apps – Canvas Apps - Canvas vs model-driven apps - Connect data sources - Create app from data + use containers	CO4, CO5	4
9	Power Apps – Model- Driven Apps - Tables, views, forms, dashboards - App creation steps - Modify and publish model-driven apps	CO3, CO4,	4
10	Power Automate – Cloud Flow Basics - Types of flows: automated, scheduled, instant - Triggers, actions, approvals	CO3, CO4, CO5	4

	- Use with Teams, Outlook, SharePoint		
11	Power Automate – Desktop & AI Flows <ul style="list-style-type: none"> - Desktop flow with recorder - Power Automate for Desktop, mobile, portal - Document processing, Process Mining 	CO4, CO5	4
12	AI Builder & Copilot in Power Platform <ul style="list-style-type: none"> - AI Builder use cases - Build an AI model: lifecycle - Copilot integration across apps 	CO4, CO5	4
13	Power Pages Overview <ul style="list-style-type: none"> - Use cases and templates - Creating a site with Copilot - Sharing data externally with authentication 	CO4, CO5	4
14	Copilot Studio & AI Authoring <ul style="list-style-type: none"> - Create topics, actions, and entities - Use Copilot Studio to build bots - Deploy and test conversation flows 	CO4, CO5	4
15	Capstone & Mock Exam <ul style="list-style-type: none"> - Real-world project combining Power Apps, BI, Automate - Admin setup, connectors, AI features - Mock exam & review 	CO4, CO5	4