# Power Platform Course Curriculum

## 1. Power Apps:

### Module 1: Introduction to Power Apps

- What is Power Apps?
- Role in the Power Platform ecosystem
- Types: Canvas Apps, Model-driven Apps, Portals

### Module 2: Power Apps Interface & Components

- Power Apps Studio overview
- Controls: Text input, Dropdowns, Buttons
- Screens and navigation basics

### Module 3: Creating Your First App

- Canvas App from template and scratch
- Connecting to data sources (Excel, SharePoint)
- Creating forms and galleries

### Module 4: Data Integration

- Using Dataverse and connectors
- Working with collections and tables
- Filtering, sorting, and searching data

### Module 5: Variables and Functions

- Types of variables: global, context, collections
- Common functions: If, Switch, Patch, Navigate

### Module 6: User Experience and Interface Design

- Layout best practices
- Responsive design tips
- Icons, themes, and tooltips

### Module 7: Power Apps Logic and Navigation

- Multi-screen navigation
- Conditional visibility and user interactions
- Form validation and error handling

### Module 8: App Publishing & Sharing

- Saving and publishing apps
- Sharing with users and managing permissions
- Versioning and updates

**Optional Advanced Module: Introduction to Model-driven Apps**

- When to use model-driven apps
- Navigation and data model basics

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## 2. Power Automate:

### Module 1: Introduction to Power Automate

- What is Power Automate?
- Flow types: Automated, Instant, Scheduled
- Role in automating business processes

### Module 2: Interface and Flow Structure

- Navigation of the flow designer
- Triggers and actions
- Using templates

### Module 3: Building Your First Flow

- Creating a flow with Microsoft Forms and Outlook
- Using dynamic content
- Testing and debugging flows

### Module 4: Connectors and Integration

- Common connectors: SharePoint, Excel, Outlook
- Working with multiple services in a flow
- Managing connections

### Module 5: Conditions and Expressions

- If, Switch, and Condition actions
- Expression syntax and functions
- Using "Apply to each" and loops

### Module 6: Approval Workflows

- Building approval processes
- Customizing approval responses
- Tracking and managing requests

### Module 7: Flow Management

- Monitoring and error handling
- Flow history and versioning
- Best practices for organizing flows

## Module 8: Using Power Automate with Power Apps

- Triggering flows from Power Apps
- Passing parameters between apps and flows