SAP FIORI/UI5/SAP Hana Cloud Platform
(Duration: 45 to 50 days)

❖ **Basics of Web & Mobile apps (HTML, CSS, JavaScript, jQuery)**
❖ **HTML5**
  ✓ Creating our first web page
  ✓ line breaks, paragraphs and headers
  ✓ bold, italics and comments
  ✓ lists
  ✓ linking to another page
  ✓ images
  ✓ Table
  ✓ Forms, Get/Post method, action

❖ **Cascade Style Sheet**
  ✓ Internal/External Style Sheet
  ✓ Font properties
  ✓ CSS comments
  ✓ Classes
  ✓ Div and Span
  ✓ working with colors
  ✓ Background images
  ✓ ID's, child selectors, pseudo classes
  ✓ New tags for the layout

❖ **JavaScript & jQuery**

  ✓ Introduction to JavaScript
  ✓ Statements and Comments
  ✓ Finding Errors
  ✓ Variables, Data Types, Operators, Strings, Arrays
  ✓ Events
  ✓ Functions, Functions with Single & Multiple Parameters
  ✓ Variable scope
  ✓ Statements if, else, nesting if, Complex Conditions, switch
  ✓ While loop, for loop
  ✓ Objects, properties and methods
  ✓ Referencing elements in JavaScript
  ✓ Forms, form values

- ✓ Form validation text boxes, and passwords
- ✓ Creating, Modifying, Appending, Deleting HTML Element
- ✓ JavaScript Objects, properties, and functions
- ✓ jQuery Selectors
- ✓ jQuery Events
- ✓ jQuery HTML

❖ **SAP Fiori**

- ✓ Overview of the SAP Fiori
- ✓ SAP Fiori Design UI/UX Principles
- ✓ Overview of Fiori Launchpad
- ✓ SAP Fiori architectures and technology (App types, Architecture structure/details, hardware & software requirements)
- ✓ Overview of sap NetWeaver gateway, OData services and restful APIs
- ✓ Introduction to SAP Fiori Apps Library
- ✓ Standard Fiori Application Implementation
  1) Configuration overview – Transactional, Analytical apps & Launchpad
  2) Activation of Odata services and SICF Services
  3) Launchpad overview, functions & Configuration
  4) Creating Tiles, Catalog, Group, Roles for adding Application to Fiori
- ✓ Configuration of SAP GUI Application in Fiori Launchpad
- ✓ Overview of Theme Designer
- ✓ Introduction to SAP WebIDE (Local & Cloud)
- ✓ Introduction to SAP HANA Cloud platform
- ✓ SAP Fiori Application Enhancement

❖ **SAP UI5**
- ✓ Overview of SAP UI5
- ✓ Overview of SAP UI5 architecture
- ✓ Overview of MVC architecture
- ✓ Difference between SAP Fiori & UI5
- ✓ SAPUI5 development Tools
- ✓ Versioning of SAPUI5 - https://sapui5.hana.ondemand.com/versionoverview.html
- ✓ Introduction to SAP HANA Cloud Connector
- ✓ **Getting Started with SAPUI5**
  - ▪ Create Your First SAPUI5 Application
  - ▪ Develop Your First Application using SAPUI5 Tools
  - ▪ Testing SAPUI5 Applications
- ✓ **Concepts**
  - ▪ **Mo**del View Controller (MVC)
  - ▪ Resource Handling

- Libraries
- Manifest.json
- SAPUI5 Components
- Fragments

✓ **Initializing and Loading SAPUI5**
- Bootstrapping: Loading and Initializing SAPUI5 in HTML Pages
- Initialization Process
- Configuration of the SAPUI5 Runtime

✓ **Models and Data Binding**
- Data Binding: Getting Started
- Models and Data Binding in Applications
- Binding Types
- Using the Data Binding Type System
- Calculated Fields for Data Binding
- Using Data Binding for Data Export
- Property Metadata Binding

✓ **Building the UI**

- Instantiating Views
- Implementing XML Views
- Handling Events in JSON Views
- Typed Views and Controllers
- File Names and Locations (View and Controller)
- View Cloning
- Support for Unique IDs
- Fragments
- HTML Templating in SAPUI5
- Navigation
- Working with Controls in SAPUI5

✓ **Component.js**
- Example: Component Configuration
- Controller Extension
- Controller Replacement
- I18n Resource Text Customization
- Limitations

✓ **Building Mobile Applications with SAPUI5**
- Handling Navigation and Lifecycle Events
- Working with Lists and Tables
- Triggering Phone, SMS and E-Mail
- Scrolling in SAPUI5 Mobile
- Message Handling

- ✓ **Troubleshooting**
  - ▪ Debugging
  - ▪ Logging and Tracing
  - ▪ Troubleshooting: Common Issues
- ✓ **Testing in SAPUI5**
- ✓ **SAP WEB-IDE**
  - ▪ Create a new CRUD SAPUI5 application
  - ▪ Odata services Consumption
  - ▪ Development process overview
  - ▪ Deploy to SAPUI5 ABAP Repository
  - ▪ Configuration of Custom SAP UI5 application in SAP Fiori Launchpad
- ✓ **Introduction to SAP Fiori Client**