ABAP CONTENTS

1. Introduction of ERP

- ERP Fundamentals.
- Why ERP ?
- Features and advantages of ERP
- About SAP R/3 ERP
- Comparison of SAP R/3 with other products

2. SAP R/3 Architecture

- Presentation Server, Application Server, Database Server
- Defining an R/3 Instance
- Understanding a User Context
- Understanding a Roll Area
- List and their jobs of background services

3. Introduction to ABAP/4

- ABAP/4 Programming concept
- Introduction of various types of program
- Fundamentals of creation of programs
- Introduction of standard Data Types
- Declaration of different types of variables
- Loop and Controls
  - IF structure
  - Case statement
  - Loop statement
  - Control break statement
  - Data structure
  - User-Defined Data Types
  - System Fields

4. Introduction of ABAP Dictionary

- Overview of Dictionary objects
- Overview of Types of Base tables
- Creation of Client independent base tables
- Creation of Client dependent base tables
- Understanding of standard database tables
- Views
- Structure
- Data Element
- Domain
- Search Help

5. **Introduction of Database Operations**

- Understanding of Open SQL statement
- Understanding of Native SQL statement
- Working with Insert, Update, Delete statement
- Addition of corresponding fields of statement

6. **Introduction of Internal Table**

- Overview of types of Internal tables
- Creation of an Internal table with an implicit header line
- Creation of an Internal table with an explicit header line
- Processing on internal table using following statements
- Append, Insert, Modify, Sort, Read, Collect, Clear, Refresh, Delete, Free
- Processing logic Read table statement Loop at

7. **Message class**

- Creation of user define massages
- Overview of types of massages
- Displaying massages

8. **Modularization technique**

- Include programs
- Subroutines
- Function modules

9. **Introduction of dialogue programming**

- Understanding of module pool programming
- Creation of module pool program
- Designing screens using various screens elements
- Navigation in between multiple screens
- Displaying data into table control
- Screen painter
- Menu painter
- Creation of menu bar, tool bar, title bar etc.,

10. **Introduction of object transportation**

- Understanding of development class / package
- Creation of development class / package
- Creation of workbench request
- Transportation of objects
- Understanding of TMS technique

11. **Reports**

- Understanding of types of reports
- Generation of various types of reports
- Classical report
- ALV report
- ABAP Query

12. **Understanding of report events**

- Initialization
- Start-of-selection
- Add-selection-screen
- Top-of-page
- End-of-page
- At line-selection
- At user-command

13. **Introduction of selection screen**

- Understanding of selection screen methods
- Creation of selection screen using SELECT-OPTIONS
- Usage of SELECT-OPTIONS in function module

14. **Introduction of logical database**

- Creation of LDB
- Usage of LDB
- LDB events

Get, Put

15. **Introduction of BDC**

- Overview of BDC
- Methods of BDC
- I/O method
- Direct input method
- Call transaction method
- Session method
- Working with foreground and background techniques
- Recording method

16. **Introduction of SAP Script**

- Designing of layout
- Working with standard text object
- Creation of various elements of SAP Script
- Working with standard SAP Script
- Writing print programs

ADVANCED ABAP CONTENTS

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- Ø **SMART FORMS.**
  - Creation of smart form with different Window Types
  - Passing Parameters into Smart Form
  - Smart Form with Database using Tables
  - Smart Form with Derived Fields to perform Calculations
  - Or validations using with FLOWLOGIC
  - Smart Form with Table Format Output.
  - Smart Form with Graphic window, Address Window
  - Calling Smart at Runtime using Module Programming

By passing Parameters

- Smart Form at runtime to export report output into

Client independent

- Sending Mail process with Smart Form

- **Ø OBJECT ORIENTED ABAP**
  - OBAP Programming.
  - Local Classes, Global Classes.
  - Class, Encapsulation, Inheritance, Polymorphism….
  - ABAP OBJECTS with BDC Applications.

- **Ø BADI'S**
  - API application programming Interface.
  - Add-Ins Programming
  - User Exits, Menu Exits, Function Module Exits

- Reports with SCREEN PAINTER LAYOUT CONTAINER
- Using GRID, HOTSPOT and interactive selection process.

- **Ø User Exits**
- **Ø Enhancements**

- **Web Dynpro**

CROSS APPLICATIONS

- Introduction of Cross Application
- Overview of Tools of Cross Application

- Ø RFC (Remote Function Calling)
  - Introduction of Client / Server Architecture
  - Introduction of RFC
  - Setup of Remote Access of a client
  - Communication between two clients
  - Accessing Function Remotely

- Ø IDOC (Intermediate Document)
  - Introduction of IDOC
  - Architecture of IDOC
  - Creation of Field Type
  - Creation of Segment
  - Creation of IDOC
  - Creation of Message Type

- Ø ALE (Application Link Enabling)
  - o What is ALE ?
  - o Why ALE
  - o Phases in ALE
  - o About IDOC
  - o Idoc Structure
  - o Idoc Records
  - o Transporting data using Idoc
  - o Defining Logical System
  - o Mapping of Logical System with Clients
  - o Defining Port
  - o Defining Partner Profile
  - o Defining Distribution Model
  - o Transfer of data between two clients
  - o Transfer of data using Message Control

- EDI (Electronic Data Interchange)
  - o Introduction of EDI
  - o Architecture of EDI
  - o Generation of Partner Profile
  - o Distribution of data using EDI

- Ø LSMW (Legacy System Migration Workbench)
  - o Overview of LSMW
  - o Customization of steps
  - o Understanding of SAP Standard Application
  - o Distribution of data using Standard Application
  - o Ø BAPI'S
    - ▪ Third Party Clients API programming functions.
    - ▪ Creation of BOR Objects using Remote Function modules, Remote Function call system