# Diploma in SAP ABAP

**Introduction to ERP**

- What is ERP?
- Why we need ERP?
- Advantages of ERP
- Major ERP Packages

**Introduction to SAP & R/3 Architecture**

- What is SAP?
- History & Features of SAP
- SAP R/2 Architecture (Limitations of R/2 Architecture)
- SAP R/3 Architecture (Types of work processes)
- SAP R/3 Application Modules
- SAP Landscape

**Introduction to ABAP/4**

- What is ABAP?
- Logon to SAP Environment
- Transaction Codes
- Multitasking Commands
- Comments
- Errors
- ABAP/4 Editor ( SE38 )
- Steps for Creating a Program
- Elements in R/3 Screen
- Out put Statements
- Operators in ABAP
- Data, Parameter & Constant Statements
- Data Types & Classification
- Data Objects & Classification
- Text Elements
- String Operations
- Control Statements

- Field strings

**ABAP Dictionary**

- ABAP Dictionary Introduction
- Data Dictionary Functions
- Data Dictionary Objects
- Data Base Tables
- Structures
- Views
- Data Elements
- Type Groups
- Domains
- Search helps
- Lock objects
- Primary Key And Foreign Key
- Table Maintenance Generator

**Packages**

- Creating a package
- Difference between local objects & packages
- Transferring local objects to packages

**Variants**

- Variants Introduction
- Creating variants in ABAP Editor & Data Dictionary

**Message Classes**

- Message Class Introduction
- Message types

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- Calling message class in Report
- & Dialog programs

- tables contents in Debugging Editor
- Options to step through the program in Debugging Editor

## Selection Screens

- Selection screen Introduction
- Parameter Statement
- Select-options Statement
- Selection-screen Statement
- Screen table and its fields
- Dynamic screen modification by using Modif Id key

## Modularization Techniques

- Modularization Techniques Introduction
- Includes
- Subroutines
- Passing Parameters to Subroutines
- Passing Tables to Subroutines
- Function Groups & Function Modules

## Open SQL Statements

- Select
- Insert
- Modify
- Update
- Delete Internal Tables

## Reports

- Reports Introduction
- Classical Reports
- Interactive Reports
- Techniques Used For Interactive Reports
- Hotspot
- Hide
- Get Cursor

## Internal Tables Introduction

- Declaring Internal Table
- Populating Internal Table
- Processing Internal Table
- Initializing Internal Tables
- Inner Joins And For All Entries
- Control Break Statements

## Dialog / Module Pool Programming/ Transactions

- MPP Introduction
- Relationship between Screen, Flow Logic and Program
- Flow Logic Events
- Process Before Output (PBO)
- Process After Input (PAI)
- Process On Value Request (POV)
- Process On Help Request (POH)
- Include Programs in MPP

## Debugging Techniques

- Debugging Techniques Introduction
- Break-points (Static & Dynamic)
- Watch points
- Dynamically changing internal

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- Include TOP
- Include I01
- Include O01
- Include F01
- Dynamic Screens
- Leave Screen
- Leave to Screen
- Call Screen
- Set Screen
- Processing of List from Transaction and Vice Versa
- Elements in Screen Layout
- Table Controls
- Step Loops
- Tabstrip Controls
- Subscreens

- Standard Text
- Out Put Program
- Modifying Standard SAP Script Layouts
- Including Logos
- SAP Script Utilities – Upload / Download

## Smart Forms

- Smart Forms Introduction
- Graphics Management
- Style Maintenance
- Paragraph Formats
- Character Formats
- Writing print program and designing layouts

## Batch Data Communication

- BDC Introduction
- Recording
- BDC Methods
- Call Transaction Method
- Session Method
- Handling Table Controls in BDC
- Legacy System Migration Workbench
- Different Methods
- Flat file creation
- Uploading data
- File Handling
- Application Server
- Presentation Server

## ALV Reports

- ALV Reports Introduction
- ALV through Function Modules
- ALV Types

Runtime Analysis & SQL Tracing

## Cross Applications

- Introduction to Distributed Environment
- Introduction to Cross Applications

## RFC

- Introduction to RFC
- Creating RFC Destination between 2 Systems

## SAP Scripts

- SAP Scripts Introduction
- Components of SAP Scripts
- Layout Set

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- Creating Remote Enabled Function Modules
- Creating program using Remote Enabled Function Modules

**ALE**

- ALE Basics
- Overview of Outbound & Inbound Process
- Configuration Steps
- Define logical systems
- Assign client to logical system
- RFC destination
- Customer distribution model
- Creating Ports

**IDocs**

- What is an Idoc?
- Types of Idocs
- Basic Idocs
- Extension Idocs
- Creating Idocs
- Message Types
- Assigning Idoc type to Message type

- Partner Profile Creation

**BAPIs**

- BAPI Overview
- Creation of BAPI

**Workflow**

- What is workflow?
- Overview of workflow

**User Exits**

- User Exits Overview
- Types of User Exits
- Field Exit
- Screen Exit
- Function Exit
- Menu Exit

**BADIs**

- BADIs Overview
- Defining a BADI
- Implementing a BADI

**EDI**

- EDI Basics
- Difference between ALE & EDI
- Overview of Outbound & Inbound Process
- Configuration Steps
- Port Creation

**OOPS Concept**

- Object Oriented ABAP Overview
- Defining a Class
- Implementing a Class

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**Miscellaneous Topics**

- Correction & Transport request (CTS)
- Transport Organizer
- Work Bench Request
- Task Creation
- Release Objects
- SAP Memory & ABAP Memory
- Logical Database
- SD Flow
- MM Flow