A set of middleware programs and tools that provide the underlying base that enable applications to be interoperable across operating systems. SAP Basis includes a RDBMS, GUI, and client server architecture. Beyond the interface aspect of Basis, it also includes such components as a data dictionary as well as user and system administration.

Basis is a business application software integrated solution. Simply, Basis is the administration of the SAP system.

It's a piece of middleware which links the application with the database and the operating system. Basis is most commonly associated with the GUI interface to the SAP, and the Basis administrator is an SAP professional who is responsible for configuring the SAP environment, including the GUI screens and SAP application servers.

**Course Road Map**

**ERP:**
- Introduction to ERP
- ERP Comparison

**Architecture:**
- R/3 Architecture
- R/2 Architecture
- Architecture comparison
- SAP Instance
- Work process Services

**SAP Landscape:**
- Multi system Landscape
- 3 System Landscape
- 2 System Landscape
- 1 System Landscape

**Implementation Phases:**
- Project preparation
- Blue print
- Realization
- Testing
- Go live and support
Installation (Windows / Linux)

- Pre Installation activities
- Installation
- Post Installation
- Installation of SAP 4.7 on Oracle, MSSQL
- Installation of SAP ECC 5.0 on Oracle, MSSQL
- Starting and stopping of SAP System

SAP Licensing:

- Overview of applying SAP license from SAP AG
- Install / Edit /Delete / License

SAP Directories:

User Administration:

- User master records
- User creation, deletion, lock, unlock, copy
- Mass user creation / deletion

Client Administration:

- Local client copy
- Remote client copy
- Client export / import

SAP securities:

- Roles
- Profiles
- Authorizations
- Single sign on
- Overview of SOX, SOD tools

TMS (Transport Management System)

- Landscape design
- Transport domain
- Transport group
- Transport routes
- Transport layers
- Transporting at OS level and SAP level
CCMS (Computing Central Management System)

- Health check
- Profile parameters
- Operation modes
- Background Jobs
- Standard Jobs

Spool Administration:

- Local printing
- Remote Printing
- Access method
- Temp Se Administration

Patch Management:

- Knowledge about OSS (Online Support Services)
- Adding patches and plug ins
- Kernel patches

Database Administration:

- Oracle database administration
- MSSQL database administration

SAPDBA:

- Table space administration
- Starting and stopping instances
- Reorganization
- Exporting database
- Database backup
- Restoring database backup
- Archive logs
- Database file system

Advanced topics:

- Live demonstration of SAP market place
- Installation of solution manager 4.0
- Maintenance optimizer
- Early watch alerts
- Central monitoring system
- Service desk configuration
• SAP router configuration
• Installation of ECC 6.0 on Linux with oracle
• System copy
• MCOD (Multiple Components on Single Database)
• DB refresh
• R3LOAD
• Kernel upgrades
• Knowledge of upgrades
• Migration from 32 bit to 64 bit
• SAP best practice knowledge
• Net weaver concepts
• Interweave 2004s administration
• EP, XI, Process Integration BI

Implementation:

• Introduction of ERP, SAP R/3 overview.
• Client server architecture
• Hardware Sizing using quick seizer tool
• Installation of ERP and GUI.
• Starting and stopping of SAP R/3 systems
• Post installation activities
• SAP Transport management system
• Client copies
• Rfcs generation
• Change and transport management system
• kernel, SPAM/SAINT, Support Packages and Add-ons
• TRANS directory structure.

Solution Manager:

• Installation of Solution Manager & Post-installations
• Generation of license keys
• Satellite system configuration.
• Solution creation and configurations
• System Monitoring
• System Administration
• Maintenance Optimizer
• Service Desk Configuration
• Root Cause Analysis & End to End Monitoring
• Router configuration
• Implementation using ASAP methodology.
• Change Request Management System.
Database:

- Oracle database architecture
- BRTools
- Backup, Restore and Recovery
- Homogeneous / Heterogeneous System Copies, DB Refresh and Disaster Recovery
- DB monitoring,
- Tape management
- Space management
- Migration of DMTS to LMTS
- Database upgrade.

Support Phase:

- mySAP ERP Solution Architecture
- Planning the Installation of SAP ERP
- Installing SAP GUI
- SAP System Navigation
- Software Development in SAP
- Communication and Integration
- Tools for SAP System Administration
- Setting Up Remote Connections
- Scheduling Background Tasks
- Update Mechanism
- Enqueue Mechanism
- Spool Mechanism
- Data Transfer Techniques
- SAP Archiving
- System Monitoring
- CCMS Architecture
- Handling Transports
- SAP systems load balancing
- Performance and Fine tuning of the system.
- New language imports

Security:

- Authorization
- Designing SOD
- Working with Profile Generator
- User Management
- Role Management
- SOX Compliance
- Configuring Virsa Tool
- Authorization Objects
- Missing Authorizations
- User Buffers
- Central User Administration
- Management Information Reports
- Security Parameters