Certificate Course in Advanced ERP Implementation for Business Management

Title of the Paper: Advanced ERP Implementation for Business Management

Course Code: AERP004   **Contact Hours: 30**

Syllabus

Course Overview: This course provides a comprehensive exploration of Enterprise Resource Planning (ERP) systems, covering implementation processes, configuration, data management, security, and maintenance. Participants will gain hands-on skills and theoretical knowledge essential for driving successful ERP projects within organizations, ultimately optimizing operational efficiency and performance.

Outcome: Upon completing the course, participants will master ERP systems, from configuration to security, enabling them to drive successful implementation projects and enhance organizational efficiency.

Learning Objectives:

This course aims to provide students with advanced skills and knowledge in Enterprise Resource Planning (ERP) systems implementation for effective business management. By the end of the course, students will be able to understand the principles and methodologies of ERP implementation, analyze business requirements, design and configure ERP systems to meet organizational needs, manage ERP project lifecycles, and optimize ERP solutions for improved business performance. They will also gain proficiency in implementing ERP modules such as finance, human resources, supply chain, and customer relationship management (CRM), with a focus on real-world applications and case studies.

Course Content:

Unit 1: Introduction to ERP Systems (6 hours)

- Overview of Enterprise Resource Planning (ERP) systems
- Evolution and history of ERP
- Key features and benefits of ERP systems
- Common ERP modules and their functions (e.g., finance, HR, supply chain)
- Introduction to popular ERP software solutions (e.g., SAP, Oracle, Microsoft Dynamics)

Unit 2: ERP Implementation Lifecycle (6 hours)

- Understanding the ERP implementation process
- Key stages in ERP implementation: planning, design, configuration, testing, deployment, and maintenance
- Roles and responsibilities of stakeholders in ERP implementation
- Strategies for effective project management during ERP implementation

- Identifying potential challenges and risks in ERP implementation and mitigation strategies

Unit 3: ERP Configuration and Customization (6 hours)

- Configuration vs. customization: Understanding the difference
- Customization options available in ERP systems
- Configuring ERP modules to meet specific business requirements
- Best practices for customizing ERP software without compromising system integrity
- Case studies and examples of successful ERP configuration and customization projects

Unit 4: Data Migration and Integration in ERP (6 hours)

- Importance of data migration in ERP implementation
- Strategies for data extraction, transformation, and loading (ETL) into ERP systems
- Ensuring data quality and integrity during migration
- Integration of ERP systems with other business applications (e.g., CRM, BI)
- Tools and techniques for seamless data integration in ERP environments

Unit 5: ERP Security and Maintenance (6 hours)

- Understanding ERP security challenges and risks
- Implementing role-based access controls (RBAC) and user authentication mechanisms
- Data encryption and protection in ERP systems
- Strategies for maintaining and updating ERP software
- Continuous improvement and optimization of ERP systems for enhanced performance

References:

Gupta, S. & Ahuja, V. (n.d.). Enterprise Resource Planning: Concepts and Practice
Mahboob, F., Limson, L. & De Wet, D. (n.d.). Implementing SAP ERP Financials: A Configuration GuidePtak, C. A. & Schragenheim, E. (n.d.). ERP: Tools, Techniques, and Applications for Integrating the Supply Chain
Wallace, T. F. & Kremzar, M. H. (n.d.). ERP: Making It Happen - The Implementers' Guide to Success with Enterprise Resource Planning