



STANLEY

COLLEGE OF ENGINEERING & TECHNOLOGY FOR WOMEN

(Approved by AICTE , New Delhi | Affiliated to Osmania University ,Hyderabad)
Address : Chapel Road, Abids ,Hyderabad

SE-564

SERVICE ORIENTED ARCHITECTURE

UNIT - I

Software Architecture - Types of IT Architecture - SOA - Evolution - Key components - perspective of SOA - Enterprise-wide SOA - Architecture - Enterprise Applications - Solution Architecture for enterprise application - Software platforms for enterprise Applications - Patterns for SOA – SOA programming models

UNIT - II

Service-oriented Analysis and Design - Design of Activity, Data, Client and business process services - Technologies of SOA - SOAP - WSDL - JAX - WS - XML WS for .NET - Service integration with ESB - Scenario - Business case for SOA - stakeholder objectives - benefits of SPA - Cost Savings

UNIT - III

SOA implementation and Governance - strategy - SOA development - SOA governance – trends in SOA - event-driven architecture - software s a service - SOA technologies - proof-of-concept - process orchestration - SOA best practices

UNIT - IV

Meta data management - XML security - XML signature - XML Encryption - SAML - XACML - XKMS - WS-Security - Security in web service framework - advanced messaging

UNIT - V

Transaction processing - paradigm - protocols and coordination – transaction specifications - SOA in mobile - research issues

Suggested Reading:

1. Shankar Kambhampaly, "*Service -Oriented Architecture for Enterprise Applications*", Wiley India Pvt Ltd, 2008.
2. Eric Newcomer, Greg Lomow, "*Understanding SOA with Web Services*", Pearson Education, 2005.
3. Mark O' Neill, et al. , "*Web Services Security*", Tata McGraw-Hill Edition, 2003.