SSN COLLEGE OF ENGINEERING
KALAVAKKAM- 603110
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE PLAN

Course Handler : Dr. V.S. Felix Enigo
Subject Code & Name: IT6801-Service Oriented Architecture
Batch : 2013 - 2017
Class : **BE (CSE)** VII Semester 'B'

Content Delivery Methods (CDM) : Powerpoint presentations\Use of ICT\Chalk
and Blackboard for all lectures
Demonstration during 5 class hours

Unit No. & Name	Topics	CDM	Hours Planned	Hours Handled	Reasons for Deviation
I INTRODUCTION TO XML	XML document structure		1		
	Well formed and valid documents		1		
	Namespaces in XML		1		
	Validating XML with DTD	Demo	2		
	Creating XML Schemas	Demo	2		
	X-Files		2		
	Planned Hours		**9**		
II BUILDING XML BASED APPLICATIONS	Parsing XML – using DOM		2		
	Parsing XML – using SAX		2		
	XML Transformation and XSL		2		
	XSL Formatting		2		
	Modeling Databases in XML	Demo	2		
	Planned Hours		**9**		

	Characteristics of SOA		2	
	Comparing SOA with Client-Server and Distributed architectures		2	
III SERVICE ORIENTED ARCHITECTURE	Benefits of SOA		1	
	Principles of Service orientation		2	
	Service layers		2	
	Planned Hours		**9**	
	WSDL Basics, Service descriptions – WSDL		2	
	SOAP basics, Messaging with SOAP		2	
	Service discovery – UDDI, Message Exchange Patterns		1	
IV WEB SERVICES	Orchestration		1	
	Choreography		1	
	WS Transactions		1	
	Developing Web Service	Demo	1	
	Planned Hours		**9**	
	Service Oriented Analysis and Design		1	
	Design standards and composition guidelines		2	
V BUILDING SOA BASED APPLICATIONS	WS-BPEL	Demo	2	
	WS-Coordination		1	
	WS-Policy		1	

	WS-Security		1		
	SOA support in J2EE		1		
	Planned Hours		**9**		
	Assignment & Discussion		**3**		

Total Number of Syllabus Hours: 45
Total Number of Planned Hours: 48

(V.S. FELIX ENIGO)

Prepared by	**Reviewed By**	**Approved by**
Faculty-Incharge	PAC- UG Team	(HOD / CSE)