

COURSE CODE	COURSE TITLE	L	T	P	C
1152IT302	SERVICE ORIENTED ARCHITECTURE LAB	0	0	2	1

Course Category:

~~Foundation (0) / Program Core (1) / Program Elective (2) / Allied Elective (3) / University Elective (4) / Value Education Elective (5) / Independent Learning (6) / Industry – Higher Learning Institute Interaction (7)~~

a. Preamble :

Service Oriented Architecture provides an introduction to the basic concepts of SOA, Xml & Web Services, and WSDL Basics.

b. Prerequisite Courses:

Sl. No	Course code	Course Name
1		Web Programming

c. Related Courses:

Sl. No	Course Code	Course Name
1		Open Source Systems
2		Project Work

d. Course Educational Objectives:

Students are exposed to:

- To provide fundamental concepts of Service Oriented Architecture..
- To gain knowledge about SOAP, UDDI and XML to create web services.
- To know about the Cloud Computing architecture and services.

e. Course Outcomes:

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain(Based on revised Bloom's)
1	Implement the concepts of XML and XSL document in database	S2
2	Design and develop the Web Service creation using JAX-WS and JAX-RS.	S3
3	Design and develop web services using protocol	S3
4	Implement the technology underlying the Web service creation using .NET	S3
5	To learn about JAXB Marshaling and Unmarshaling	S2

K2-Understand, K3-Apply, S3-Processes

f. Correlatin of COs with Programme Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	M										L
CO2	H	M	L			L	L					L
CO3	H	M	L	L		L				L		L
CO4	H					L	L					L
CO5	H	M	L			L	L	L				L

H- High; M-Medium; L-Low

g. Syllabus

Content:

Cycle I

1. XML document creation.
2. Importing and Exporting XML document in database.
3. XSL Transformation
4. Internal and External DTD creation
5. XML Schema creation

Model Practical Examination I

Cycle II

7. Parsing XML document using DOM/SAX parser.
7. Web Service creation using JAX-WS
8. Web Service creation using JAX-RS
9. Web Service creation using .NET
10. JAXB Marshaling and Unmarshaling

A possible set of applications may be the following:

- a. Currency Conversion
- b. Temperature Conversion
- c. Ticket Booking
- d. Dictionary