

H.N.G. University, Patan
M.Sc.(C.A. & I.T.) SEMESTER - VIII
805 : XML & Web Services

Unit : 1

[20%]

XML Introduction, XML Pros and Cons, How to use, XML Tree, XML Syntax of, XML Elements, XML Attributes, XML Validation, XML Validator, XML , A valid XML Document, viewing, XML CSS, XML XSLT, XML HTTP Request, XML Parser, XML DOM,XML to HTML,XML Applications, XML Namespaces, XML Cdata, XML Encoding, XML Technologies, Extracting and Displaying data

XML DOM:

DOM Introduction, DOM Document, DOM Nodes, and Types, DOM Node Tree, DOM Load Function, DOM Methods, DOM Accessing ,DOM Node Info, DOM Node List, DOM traversing, DOM Document Type, DOM Cdata

Manipulating Nodes:

DOM get values, DOM Create Nodes, DOM Replace Nodes, DOM Remove Nodes, DOM Add Nodes, and DOM clone Nodes

Unit : 2

[35%]

DTD: Introduction to DTD, Purpose of DTD, DTD Building Blocks, DTD Elements, DTD Attributes, DTD Elements Vs Attributes, DTD Entities, DTD Validation

XSLT: Introduction to XSLT, XSLT Languages, XSLT Browsers, XSLT Transform, XSLT <Template>, XSLT <value-of>, XSLT <for-each>, XSLT <sort>, XSLT <if>, XSLT <choose>, XSLT Apply, XSLT on the Client, XSLT on the server, XSLT Edit XML

XPATH: Introduction to XPATH, XPATH nodes, XPATH syntax, XPATH Axes, XPATH Operators, XPATH Functions

XQUERY: Introduction to XQUERY, XQUERY Flow, XQUERY HTML, XQUERY terms, XQUERY syntax, XQUERY Add, XQUERY select, XQUERY Functions

Unit : 3

[35%]

XLINK: Introduction to XLINK, XLINK syntax, XLINK Example, XLINK reference

XPOINTER: Introduction to XPOINTER, XPOINTER syntax, XPOINTER Example

XSD: Introduction to XSD, XSD<schema>, simple types (XSD elements, XSD attributes), Complex Types (XSD elements, XSD elements only, XSD empty, XSD text only, XSD mixed, XSD indicators, XSD <any>, XSD <any Attribute>, Data Types(XSD string, XSD date, XSD numeric, XSD misc)

XSLFO: Introduction to XSLFO, XSLFO Documents, XSLFO Area, XSLFO Output, XSLFO flow, XSLFO pages, XSLFO block, XSLFO lists, XSLFO tables

Unit : 4

[10%]

SOAP: Overview Of SOAP, SOAP: Protocol - Message Structure

Web Services: Overview - Architecture - Key Technologies - UDDI - WSDL - SOAP And Web Services In E-Com - Overview Of .NET.

Text/Reference Books:

1. Beginning XML, 4th Edition, David Hunter, Jeff Rafter, Joe Fawcett, Eric van der Vlist, Danny Ayers, Jon Duckett, Andrew Watt, Linda McKinnon, Wrox Publication
2. Frank. P. Coyle, XML, Web Services And The Data Revolution, Pearson Education, 2002
3. Xml and Web services Unleashed, Ron Schmelzer, Travis Vandersypen, Madhu Siddalingaiah, Diane Kennedy, Pearson Edition,
4. Foundations of the Semantic Web: XML, RDF & Ontology by Rajendra Akerkar

5. An Introduction to XML and Web Technologies by Anders Moller, Michael Schwartzbach, Pearson Edition