

LIS14 406EA SEMANTIC WEBAND BIBLIOGRAPHIC INFORMATION ORGANISATION

(4 Credits)

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To acquaint students with concept of web with particular referenceto elementsand features of semantic web for effective retrieval and discovery of information and knowledge.
- To make understanding of its application in Bibliographic organization and digital libraries etc

Unit I

1.1 Concept of Semantic web: Genesis, development and issues

1.2 Ontology: concept and development

Unit II

2.1 Select Ontology use &languages : salient features XML,RDFS,OWL,Z39.50 etc

2.2 Complex objects and their representation

Unit III

3.1 TOPIC Maps: features and application

3.2 Bibliographic information organization: Tools and techniques(SW&Linked Open data etc)

Unit IV

4.1 Metadata and semantics: select case studies from different Experiments

4.2 Semantic digital libraries: bibliographic ontology and prototypes,present and future

Suggested Readings:

Kruk, Sebastian, R and Mc Daniel, B(eds) (2009) Semantic Digital Libraries. Berlin:Springer.

Colomb, R.M (2007) Ontology and the Semantic Web. Amsterdam: IOS Press

Sicilia, Miguel-Angel and Lytra, miltiads D eds.(2009) Metadata and semantics. NY:Springer.

Willer, Mirna and Dunsire, Gordon . Bibliographic information organization in the semantic web.(2013)New delhi: Oxford Cambridge.