

**LIS14301CR INFORMATION RETRIEVAL****4 Credits****Credit Pattern**

Lecture	Tutorial	Practical	Total
3	1	0	4

**Objectives:**

- To know various types of information retrieval Systems; their characteristics, evaluation, performance, and models.
- To acquaint with various tools, techniques and systems of IR.

**Unit I**

- 1.1 Information Retrieval: Concept, Features, Genesis & Development.
- 1.2 Trends in Indexing: Automatic Indexing etc.

**Unit II**

- 2.1 Subject Indexing and Vocabulary Control: Concept and Need.
  - 2.1.1 Subject Heading Lists,
  - 2.2.2 Thesaurus: Structure and Functions and design

**Unit III**

- 3.1 Pre-coordinate Indexing Systems: Concepts and Types Uses.
  - 3.1.1 Chain Indexing.
  - 3.1.2 Postulate Based Permuted Indexing System (POPSI)
  - 3.1.3 Preserved Context Indexing System (PRECIS)
- 3.2 Post-Coordinate Indexing Systems: Concept , Uses,& Types.
  - 3.2.1 UNITERM Indexing System.
  - 3.2.2 Optical Coincidence System

**Unit IV**

- 4.1 Keyword Indexing: KWIC/ KWOC/ KWAC

#### 4.2 Citation Indexing: Concept and development.

4.2.1 Online Citation Indexing Tools: SCOPUS, Web of Science, Google Scholar etc.

#### 4.3 Evaluation of Information Retrieval Systems: Methods and Parameters

#### **Suggested Readings**

Chodhury, C.G. (2004). *Introduction to Modern Information Retrieval*. (2<sup>nd</sup> ed.). London: Facet Pub.

Cleveland, D. B., & Cleveland, A. D.(1990) *Introduction to Indexing and Abstracting*. (2nd ed.). USA: University of Michigan.

Chu, S.K.W., & Law, N. (2006). Development of information search expertise: Research students' knowledge of source types. *Journal of Librarianship and Information Science*, 39 (1), 27-40.

Dhawan, K.S. (1997). *Principles of information retrieval*. New Delhi: Commonwealth

Foskett, A.C. (1996). *The subject approach to information* (5th ed.) .London: Library Association.

Jones, K. S. (1981). *Information retrieval experiment*. London: Butterworth.

Kiewitt, E. L. (1979). *Evaluating information retrieval systems: the probe program*. London: Greenwood.

Lancaster, F.W. (2003). *Indexing and Abstracting in Theory and practice* (3rd ed.). London: Facet Pub.

Meadow, C. T. (1967). *The analysis of information systems*. New York: John Wiley.

Riaz, M. (1991). *Advanced indexing and Abstracting*. New Delhi: Atlantic

Rajan, T. N. (1981). *Indexing systems: Concepts, Models & techniques*. Calcutta: IASLIC.

Ranganathan, S. R. (1973). *Documentation: Genesis and Development*. Delhi: Vikas Pub.

Rijsbergen, J. V. (1979). *Information retrieval* (2nd ed.). London: Butterworths.

Smiraglia, R. P. (2002). *Works as entities for information retrieval*. New York: Haworth.

Vickery, B.C. (1970). *Techniques of Information Retrieval*.(2nd ed.). London: Butterworth.

Wessel Andrew, E. (1974). *Computer aided Information Retrieval*. Los Angeles: Melville Pub.