Department of Library and Information Science Master of Library and Information Science

LSH501: INFORMATION RETRIEVAL

Objectives:

- To study various methods and techniques of Information Retrieval and search strategies
- To understand the perspectives and significance of Information retrieval in the present context.
- To develop skill in information processing, organization and retrieval.
- To familiarize students with information retrieval techniques
- To study Bibliographic description
- To understand indexing concepts, theories, methods and importance
- To familiarize students with current trends in information retrieval

Course Outcome (CO):

- CO1 Understand the objectives, components and functions of information processing and retrieval systems
- CO2 Gain the knowledge of information search; search techniques; search strategies; and other search formations.
- CO3 Clear understand the concepts, theories, methods and importance indexing languages, thesauri and different subject headings
- CO5 Understand the different kinds indexing systems like Pre-Coordinate and Post coordinate, PRECIS, Chain Indexing, POPSI, KWIC, UNITERM Indexing, Citation indexing etc.
- CO6 Clear understanding the evaluation of Indexing Systems and criteria for evaluation of ASLIB, MEDLARS, STAIRS, SMART, TREC, etc.
- CO7 Knowledge of bibliographic description standards and format of ISBD, MARC 21, ISO 2709 and CCF.
- Unit 1: Information Processing and Retrieval: Basic concepts, meaning and definition, Retrieval **08hrs** Process: objectives, components and functions of IRS.
- Unit 2 : Information search: objectives of information search, search techniques, information **06hrs** search strategies, pre search interview, search logic.
- Unit 3: Indexing: Concepts, theories, methods and importance. Indexing languages: Vocabulary control, semantics and syntactics. Thesauri and Subject Headings Design and construction

- Unit 4 : Indexing Systems: Pre-Coordinate and Post coordinate. PRECIS, Chain Indexing, POPSI, **06hrs** KWIC, UNITERM Indexing, Citation indexing.
- Unit 5 : Evaluation of Indexing Systems criteria for evaluation: Recall and Precision, Coverage **08hrs** and Currency, ASLIB, MEDLARS, STAIRS, SMART, TREC, Evaluation studies.
- Unit 6: Bibliographic Description: Concept, Historical Development, Standards for **08hrs**Bibliographic record format- ISBD, MARC 21, ISO 2709 and CCF, International
 Bibliographical Control, Universal Bibliographical Control, Role of International
 Organizations, Standards and Cooperation.
- Unit 7 : Trends in information retrieval-development, search and retrieval, full text retrieval user **06hrs** information.

References:

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- 4. Atchison, J. & Gilchrist, A.(1972). Thesaurus construction: a practical manual. London: Aslib.
- 5. Austin, D.(1984). PRECIS: A manual of concept analysis and subject Indexing. 2nded.
- 6. Chowdhruy, G.G.(2003). Introduction to modern Information retrieval. 2nd Ed. London, Facet Publishing.
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- 8. Crawford, M. J.(1988). Information broking: a new career in Information work.London: LA.
- 9. Ford, N.(1991). Expert systems and artificial intelligence : An Information manager's guide. London : LA.
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