

MANGALORE UNIVERSITY
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.

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| Unit 1 | : | Information Processing and Retrieval: Basic concepts, meaning and definition, Retrieval Process: objectives, components and functions of IRS. | 08hrs |
| Unit 2 | : | Information search: objectives of information search, search techniques, information search strategies, pre search interview, search logic. | 06hrs |
| Unit 3 | : | Indexing: Concepts, theories, methods and importance. Indexing languages: Vocabulary control, semantics and syntactics. Thesauri and Subject Headings – Design and construction | 08hrs |

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

References:

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5. Austin, D.(1984). PRECIS: A manual of concept analysis and subject Indexing. 2nded.
6. Chowdhury, G.G.(2003). Introduction to modern Information retrieval. 2nd Ed. London, Facet Publishing.
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10. Ghosh, S.B. and Biswas, S.C. (1998). Subject Indexing systems: Concepts, methods and techniques. Rev. ed. Calcutta: IASLIC.
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