



**LEAD CITY UNIVERSITY**  
***Faculty of Arts and Education***  
***Department of Library & Information Science***

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**COURSE DETAILS**

**Course Code:** LIS 312  
**Course Title:** Information Retrieval Techniques  
**No. of Units:** 2  
**Status:** compulsory

**LECTURER(S) DETAILS**

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**Area of Specialization:** Library and Information Science

**Course Description:**

Description of documents and information retrieval hangs on the ability of the searcher to reconstruct that document description. This course is concerned about the skills and tools associated with the creation, organisation of knowledge, its exploitation and use. Components of Information systems will be examined (inputs and outputs components). Problems and factors affecting information retrieval are also examined. Information retrieval and search techniques. Automation and retrieval via the Internet. Current developments in automated information retrieval systems.

**COURSE OBJECTIVES**

The key objective of the course is to study and develop skills in the basics of information retrieval and in particular the characteristics and structure of information retrieval systems, introduce inverted indexes and show how simple Boolean queries can be processed in indexing systems. The course will also introduce the manner in which documents are preprocessed before indexing.

## ASSESSMENT

Class Attendance	10 marks
Test(s) and Assignments	30 marks
Final Examination	60 marks

## LECTURE PLAN

Week	Topic
Week 1	Fundamentals of Information organisation and retrieval
Week 2	Information retrieval systems
Week 3	Indexing Systems
Week 4	Indexing Systems continued
Week 5	Indexing languages: concept, theories and methods
Week 6	Indexing languages: concept, theories and methods continued
Week 7	Search Strategies and Techniques
Week 8	Search Strategies and Techniques continued
Week 9	Mid Semester Test and Presentation
Week 10	Evaluation of Information Retrieval Systems
Week 11	Evaluation of Information Retrieval Systems continued
Week 12	Revision
Week 13	Revision
Week 14	Examination

## READING LIST

1. Aina, L.A. 2004. Library and Information Science Text for Africa. Ibadan. Third World Information Services Ltd
2. Galhotra, M.K. 2008. Information Technology in Library and Information Services. New Delhi, Ess Ess Publications, 330p.
3. Manning, C.D,; Raghavan, P.,Shutze, H.(208). Introduction to Information Retrieval. Cambridge, Cambridge University Press., 469p

## TUTORIAL QUESTIONS

1. Write short notes on any 4 of the following (with examples where applicable)
  - a. Literary warrant
  - b. User warrant
  - c. Conceptual analysis
  - d. Exhaustively
  - e. Recall Ratio
  - f. Precision Ratio
2. The 'conceptual analysis' or 'content analysis' of a document and the 'translation' of the conceptual analysis into a controlled vocabulary are two distinct intellectual stages in indexing. Describe these two stages in the subject indexing process with the component steps.
3. What do you understand by Information Retrieval System? Describe 4 major components of an information retrieval system
4. Define indexing systems. Describe 2 types of indexing systems known to you with their essential features
5. Discuss the two (2) most important measure of performance of indexing systems
6. Describe two (2) types of title-based indexes. What are the attractions / advantages of title based indexes
7. Describe the role of controlled indexing language in the organization of information materials
8. Write short notes on the following indexing concepts
  - a. Synonyms
  - b. Homographs
  - c. Narrower Terms
  - d. Broader Terms
9. Write short notes on the following:
  - a. Information retrieval
  - b. Information retrieval systems
  - c. Information retrieval techniques
  - d. Indexing systems
10. Differentiate between chain indexing and Preserved Context Indexing System (PRECIS)