CUIN 503 : Databases & Informational Retrieval Systems

Emphasis on basic concepts and skills of databasing and experiencing ways that databases can be used in a teaching method to emphasize problem-solving. In this course, learners will gain familiarity with underlying technologies of modern information retrieval system, and obtain hands-on experience by using existing information retrieval toolkits to set up your own search engines and improving their search accuracy. Exploration beyond personal computer databases to using and integrating Internet resources into the classroom curriculum.

Credits 3 CIP Code 13.0501 Co-Requisite Courses CUIN 501 Course Outcomes

After successfully completing the course, the learner will be able to:

- Accurately draw a system diagram of a database management system showing its structure and functions;
- Clearly describe the theory and functions of descriptive, administrative, and structural metadata in an information retrieval system.
- Define a model of information retrieval, and outline various measures of evaluation and effectiveness for a textbased information retrieval system.
- Describe the theory and practice of constructing indexes and abstracts, selecting appropriate index terms, and distinguishing among the different types of abstracts.
- Explain the need for different types of information retrieval systems in different contexts and organizations, in particular how enterprise information
- In an information retrieval system, articulate the theory and functions of subject retrieval metadata--including controlled vocabulary systems such as subject headings, classificatication schemes, and thesauri.
- Select and use appropriate design principles to create a database application for information retrieval.
- the kind of information environment determines management, the users' information requirements, and the nature of the information resource involved.