SWARNANDHRA
College of Engineering & Technology
(Autonomous)
Seetharamapuram, **NARSAPUR**, **W.G. Dt., 534 280.**
DEPARTMENT OF COMPUTER SCIENCE& ENGINEERING

Course Code	Course Title	Year/ Sem	Branch	Contact Hrs/Week	Sections
BTCS8T01	**INFORMATION RETRIEVAL SYSTEMS**	IV/II	CSE	6	A,B

COURSE OUTCOMES: Students able to
1) **Identify** Data Base Management systems and Data Warehouses **[K1].**
2) **Use** knowledge of data structures and indexing methods in information retrieval Systems **[K3].**
3) **Choose** clustering and searching techniques for different data base systems **[K4].**
4) **Explain** different types of search algorithms like Hardware text search systems and Software text search systems **[K2].**

Unit No	Outcome	Topics/Activity		Ref. Text Book	Total Periods	Delivery Method
1	**CO1:** Identify Database Management systems and Data Warehouses [K1].	UNIT- I: Introduction			12	**Chalk & Talk, PPT, Active Learning & Tutorial**
		1.1	Introduction to Information Retrieval System	T1		
		1.2	Definition and Objectives of Information Retrieval System	T1		
		1.3	Functional Overview of Information Retrieval System	T1		
		1.4	Relationship to DBMS	T1		
		1.5	Digital libraries and Data Warehouses	T1		
		1.6	Information Retrieval System Capabilities	T1		
		1.7	Search Capabilities	T1		
		1.8	Browse Capabilities	T1		
		1.9	Miscellaneous Capabilities	T1		
2	**CO2:** Use knowledge of data structures and indexing methods in information retrieval Systems [K3]**.**	UNIT-II: Data Structures			9	**Chalk & Talk, PPT**
		2.1	Introduction to data structures	T1		
		2.2	Stemming Algorithms	T1		
		2.3	Inverted file structures	T1		
		2.4	N-gram data structure	T1		
		2.5	PPAT data structure	T1		
		2.6	Signature file structure	T1		
MID I EXAMINATION DURING SIXTH WEEK						
3	**CO3:** Choose clustering and searching techniques for different data base systems [K4].	UNIT-III: Document and Term Clustering			10	**Chalk & Talk, PPT**
		3.1	Introduction	T1		
		3.2	Thesaurus generation	T1		
		3.3	Requirement Testing, Design Testing	T1		

		3.4	Item clustering	T1		
		3.5	Hierarchy of clustering	T1		
4	**CO3**: Choose clustering and searching techniques for different data base systems [K4].	**UNIT-IV: User Search Techniques**			12	**Chalk & Talk, PPT, Active Learning & Tutorial**
		4.1	Search statements and binding	T1		
		4.2	Similarity measures and ranking	T1		
		4.3	Relevance feedback	T1		
		4.4	Selective dissemination of information search	T1		
		4.5	Weighted searches of Boolean systems	T1		
		4.6	Searching the Internet and hypertext	T1		
MID II EXAMINATION DURING TWELFTH WEEK						
5	**CO4:** Explain different types of search algorithms like Hardware text search systems and Software text search systems [K2].	**UNIT-V: Information Visualization**			09	**Chalk & Talk, PPT**
		5.1	Introduction	T1		
		5.2	Cognition and perception	T1		
		5.3	Information visualization technologies	T1		
6	**CO4:** Explain different types of search algorithms like Hardware text search systems and Software text search systems [K2].	**UNIT-VI: Text Search Algorithms**			8	**Chalk & Talk, PPT, Active Learning & Tutorial**
		6.1	Introduction	T1		
		6.2	Software text search algorithms	T1		
		6.3	Hardware text search systems	T1		
		6.4	Introduction to Information system Evaluation	T1		
		6.5	Measures used in evaluation	T1		
			Total	**60**		
MID III EXAMINATION DURING EIGHTEENTH WEEK						
END EXAMINATIONS						

TEXT BOOKS:	
S.NO	**AUTHORS,BOOK TITLE,EDITION,PUBLISHER, YEAR OF PUBLICATION**
1	Kowalski,Gerald,Mark T Maybury: Information Retrieval Systems: Theory and Implementation, Kluwer Academic Press, 1997.
REFERENCE BOOKS	
1.	Dr.John Davies,Information Retrieval,WILEY,2009

Dr.T.Veeramani

    Faculty   **HOD**   **PRINCIPAL**