

Course Number	CS 532	Course Title	Topics in Information Systems				
Semester Hours	3	Course Coordinator	Koushik Sinha				
		FA20					
Catalog Description	A detailed study of two or three topics relevant to information systems. Topics may include but are not limited to sorting, searching, information retrieval and automatic text processing, database security and encryption, distributed databases, and data communication.						
Textbooks							
References							
Course Learning Outcomes							
To provide the student with an in-depth knowledge of two or more important topics from the area of information systems. Possible topics include object-oriented systems, distributed database, knowledge-base systems, encryption, data compression, hashing, indexed files, and storage architectures.							
Assessment of the Contribution to Student Outcomes							
Outcome →	1	2	3	4	5	6	7
Assessed →	X	X			X		X
Prerequisites by Topic							
CS 430. Special approval needed from the instructor.							

Major Topics Covered in the Course

1. Distributed databases
2. Object-oriented systems
3. Information retrieval and automatic text processing
4. Knowledge-base systems
5. Encryption
6. Query optimization.
7. Hashing
8. Indexed files
9. Internal sorting
10. External sorting
11. Searching
12. Data compression and coding
13. Secondary memory architecture