

Databases and Information Systems

CS 303

Introduction, Course Structure, Rules and Regulation

Course Outline

- *Data Models – Relational Data Model*
- *Query Languages – Relational Algebra, SQL, Formal QL – DRC, TRC*
- *Application Design using Relational Databases*
- *Data Models – Entity Relationship (ER) Data Model*
- *Normalization of Databases*
- *Data Storage Concepts – Secondary Storage, Indexing, etc.*
- *Query Processing and Optimization*
- *Transaction Management.*
- *Advanced Databases such as NoSQL, Cassandra, etc. (if time permits)*

CS 303

- **Class Hours and Location:**

- Slot 5

Monday 10:30 AM – 11:30 AM (Proposed)

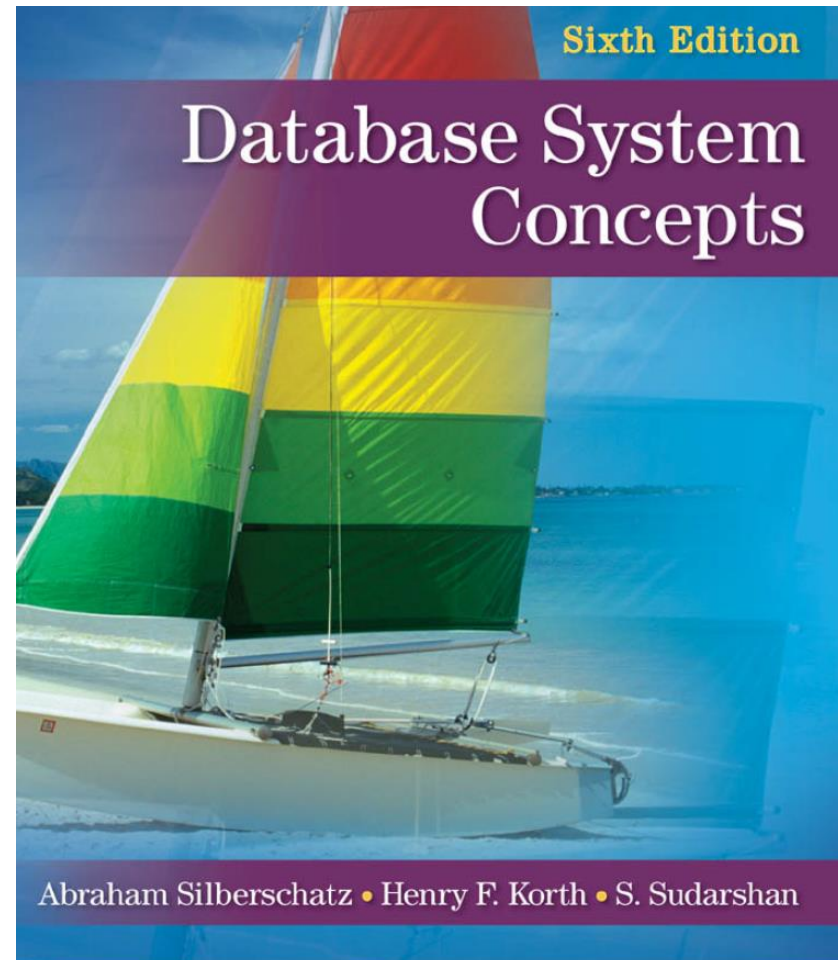
Tuesday 10:30 AM – 11:30 AM,

Thursday 09:30 AM – 10:30 AM

Wednesday (Doubt Clearing, Seminars, Quizzes) 08:30 AM - 09:30 AM,

Textbook and References

- 1. Abraham Silberschatz, Henry F Korth, S. Sudersan, Database System Concepts, 6th Edition



Grading Policy:

Evaluation Component	Weightage
Quiz 1 and Quiz 2	25% [2 quizzes of equal weightage]
Mid Semester Exam	25% (During mid semester week)
End Semester Exam	25% (During End semester week)
Assignments	25% [4-5 Assignments/In-Classroom quizzes.]

Important Dates

Evaluation Component	Date
Quiz 1	1 st September 2022 (Thursday)
Mid Semester Exam	4 th Week of September. (19 – 25 th September 2022)
Quiz 2	19 th October 2022 (Wednesday)
End Semester Exam	3 rd Week of November (14 th – 20 th Nov. 2022)

Gdrive links have been created

- For Assignments, Lecture materials:
- https://drive.google.com/drive/folders/1_LmfT2LdkObFZ6JoNNCyRRz8t-deq9Ci?usp=sharing

Rules

- **Attendance:** As per Institute Policy
- **Copying in Exam:** Penalty as per Institute Policy
- Assignment Submission **deadlines** to be strictly followed
- Occasional re-scheduling of classes based on Slot availability
- **No** make-up exams
- **Course materials:** Slides and Assignments will uploaded on Moodle.
- All classes are interactive