

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

LECTURE SCHEDULE

SUBJECT: DATABASE MANAGEMENT SYSTEMS

ACADEMIC YEAR: 2019-20

NAME: A YUGANDHAR REDDY

YEAR & SEM/SECTION: III-I-C

NO. OF LECTURES PER WEEK: 5+1* (TUTORIAL)

SL.NO	DATE	UNITS	TOPICS
1	10/6/19	I	An Overview of Database Management , Introduction- What is Database System-What is Database-Why Database
2	11/6/19		Data Independence- Relation Systems and Others- Summary,
3	12/6/19		Database system architecture,
4	14/6/19		Introduction- The Three Levels of Architecture-The External Level
5	15/6/19		the Conceptual Level- the Internal Level
6	15/6/19		Tutorial
7	17/6/19		Mapping
8	18/6/19		the Database Administrator
9	19/6/19		Database Management Systems- Client/Server Architecture.
10	21/6/19		Revision Through PPT
11	22/6/19		UT-1
12	22/6/19		Tutorial
13	24/6/19	II	The E/R Models, The Relational Model, Relational Calculus , Introduction to Database Design, Database Design
14	25/6/19		Er Diagrams-Entities Attributes, and Entity Sets-Relationship and Relationship Sets
15	26/6/19		Conceptual Design With the Er Models,
16	28/6/19		The Relational Model Integrity Constraints Over Relations- Key Constraints
17	29/6/19		Foreign Key Constraints-General Constraints,
18	29/6/19		Tutorial
19	1/7/19		Relational Algebra and Calculus
20	2/7/19		Relational Algebra - Selection and Projection- Set Operation
21	3/7/19		Renaming – Joins- Division- More Examples of Queries,
22	5/7/19		Relational Calculus , Tuple Relational Calculus
23	6/7/19		Domain Relational Calculus.
24	6/7/19		Tutorial
25	8/7/19		Example queries on SQL,RA,TRC,DRC
26	9/7/19		Example queries on SQL,RA,TRC,DRC
27	10/7/19		Revision Through PPT
28	12/7/19		Revision Through PPT
29	15/7/19		UT-2
30	16/7/19		Queries, Constraints, Triggers : The Form of Basic SQL Query
31	17/7/19	III	Union, Intersect, and Except,
32	19/7/19		Nested Queries,
33	20/7/19		Aggregate Operators,
34	20/7/19		Tutorial
35	22/7/19		Null Values,
36	23/7/19		Complex Integrity Constraints in SQL
37	24/7/19		Triggers, Active Database.
38	26/7/19		Revision Through PPT
39	27/7/19		Revision Through PPT
40	27/7/19		Tutorial

41	29/7/19		Schema Refinement (Normalization) : Purpose of Normalization or schema refinement,
42	30/7/19	IV	concept of functional dependency,
43	31/7/19		Armstrong's axioms, Lossless join decomposition
44	2/8/19		normal forms based on functional dependency(1NF, 2NF and 3 NF),
45	3/8/19		Revision
46	3/8/19		Tutorial
47	5/8/19	MID1	Mid-1(Revision)
48	6/8/19		Mid-1(Revision)
49	7/8/19		Mid-1(Revision)
50	9/8/19		Mid-1(Revision)
51	10/8/19		Mid-1(Revision)
52	10/8/19		Mid-1(Revision)
53	13/8/19	IV	Concept of surrogate key, Boyce-codd normal form(BCNF),
54	14/8/18		Dependency preserving decomposition, Fourth normal form(4NF).
55	16/8/18		Revision Through PPT
56	17/8/18		Revision Through PPT
57	17/8/18		Tutorial
58	19/8/18		UT-4
59	20/8/18		Transaction Management and Concurrency Control: Transaction, properties of transactions, transaction log,
60	21/8/18	V	Transaction management with SQL using commit rollback and save point.
61	26/8/18		Concurrency control for lost updates, uncommitted data
62	27/8/18		Inconsistent retrievals
63	28/8/18		Scheduler.
64	30/8/18		Concurrency control with locking methods : lock granularity
65	31/8/18		lock types,
66	31/8/18		Tutorial
67	3/9/19		two phase locking for ensuring serializability,
68	4/9/19		deadlocks,
69	6/9/18		Concurrency control with time stamp ordering
70	7/9/18		Wait/Die and Wound/Wait Schemes,
71	7/9/19		Tutorial
72	9/9/18		Database Recovery management: Transaction recovery.
73	11/9/18		Revision Through PPT
74	13/9/18		Revision Through PPT
75	16/9/18		UT-5
76	17/9/18		Overview of Storages and Indexing, Data on External Storage
77	18/9/18		VI
78	20/9/18	File Organization	
79	21/9/18	and Indexing – Clustered Indexing – Primary and Secondary Indexes,	
80	21/9/18	Tutorial	
81	23/9/18	Index Data Structures, Hash-Based Indexing	
82	24/9/18	Tree-Based Indexing	
83	25/9/18	Tree-Based Indexing	
84	27/9/18	Comparison of File Organization	
85	28/9/18	Revision Through PPT	
86	28/9/18	Tutorial	
87	30/9/18	Revision Through PPT	
88	1/10/18	R	

89	4/10/18	E V	Revision
90	5/10/18		Revision
91	5/10/18		Revision
92	7/10/18	MID-2	Mid-2(Revision)
93	8/10/18		Mid-2(Revision)
94	9/10/18		Mid-2(Revision)
95	11/10/18		Mid-2(Revision)
96	12/10/18		Mid-2(Revision)
97	12/10/18		Mid-2(Revision)

TEXT BOOKS:

1. Introduction to Database Systems, CJ Date, Pearson
2. Data base Management Systems, Raghurama Krishnan, Johannes Gehrke, TATA McGraw Hill 3rd Edition
3. Database Systems - The Complete Book, H G Molina, J D Ullman, J Widom Pearson

REFERENCE BOOKS:

1. Data base Systems design, Implementation, and Management, Peter Rob & Carlos Coronel 7th Edition.
2. Fundamentals of Database Systems, Elmasri Navrate Pearson Education
3. Introduction to Database Systems, C.J.Date Pearson Education

Signature of the Faculty

Signature of the HOD