

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

LECTURE SCHEDULE

SUBJECT: DATABASE MANAGEMENT SYSTEMS

ACADEMIC YEAR: 2018-19

NAME: A YUGANDHAR REDDY

YEAR & SEM/SECTION: III-I-C

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

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

41	27/7/18	IV	Schema Refinement (Normalization) : Purpose of Normalization or schema refinement,
42	30/7/18		concept of functional dependency,
43	30/7/18		Tutorial
44	31/7/18		Armstrong's axioms, Lossless join decomposition
45	1/8/18	REVISION	Revision
46	2/8/18		Revision
47	3/8/18		Revision
48	6/8/18	MID1	Mid-1(Revision)
49	6/8/18		Mid-1(Revision)
50	7/8/18		Mid-1(Revision)
51	8/8/18		Mid-1(Revision)
52	9/8/18		Mid-1(Revision)
53	10/8/18		Mid-1(Revision)
54	13/8/18	IV	normal forms based on functional dependency(1NF, 2NF and 3 NF),
55	13/8/18		Tutorial
56	14/8/18		Concept of surrogate key, Boyce-codd normal form(BCNF),
57	16/8/18		Dependency preserving decomposition, Fourth normal form(4NF).
58	17/8/18		Revision Through PPT
59	20/8/18		UT-4
60	20/8/18		Tutorial
61	21/8/18	V	Transaction Management and Concurrency Control: Transaction, properties of transactions, transaction log,
62	23/8/18		Transaction management with SQL using commit rollback and save point.
63	24/8/18		Concurrency control for lost updates, uncommitted data
64	27/8/18		Inconsistent retrievals
65	27/8/18		Tutorial
66	28/8/18		Scheduler.
67	29/8/18		Concurrency control with locking methods : lock granularity
68	30/8/18		lock types,
69	31/8/18		two phase locking for ensuring serializability,
70	4/9/18		deadlocks,
71	5/9/18		Concurrency control with time stamp ordering
72	6/9/18		Wait/Die and Wound/Wait Schemes,
73	7/9/18		Database Recovery management: Transaction recovery.
74	10/9/18		Revision Through PPT
75	10/9/18		Tutorial
76	11/9/18		Revision Through PPT
77	12/9/18		UT-5
78	17/9/18		VI
79	17/9/18	Tutorial	
80	18/9/18	File Organization	
81	19/9/18	and Indexing – Clustered Indexing – Primary and Secondary Indexes,	
82	20/9/18	Index Data Structures, Hash-Based Indexing	
83	24/9/18	Tree-Based Indexing	
84	24/9/18	Tutorial	
85	25/9/18	Tree-Based Indexing	
86	26/9/18	Comparison of File Organization	
87	27/9/18	Revision Through PPT	

88	28/9/18		Revision Through PPT
89	1/10/18	R E V	Revision
90	1/10/18		Revision
91	3/10/18		Revision
92	4/10/18		Revision
93	5/10/18		Revision
94	8/10/18	MID-2	Mid-2(Revision)
95	8/10/18		Mid-2(Revision)
96	9/10/18		Mid-2(Revision)
97	10/10/18		Mid-2(Revision)
98	11/10/18		Mid-2(Revision)
99	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