

KONGUNADU ARTS AND SCIENCE COLLEGE(AUTONOMOUS)

Re-Accredited by NAAC with 'A+' Grade (4th Cycle)

College of Excellence awarded by UGC

Coimbatore – 641 029.



LESSON PLAN

Department of Computer Science

Batch : 2022-2024

Semester : I

Name of the Staff: Mr.B.Manogaran

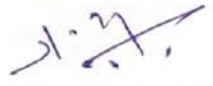
Name of the Subject: ADVANCED RELATIONAL DATABASE MANAGEMENT SYSTEMS

[22PCS102]

S.NO	HOUR	PORTIONS TO BE COVERED	MODE OF INSTRUCTIONS/DELIVERY (CHALK & TALK/PPT/FLIPPED CLASS etc
1	1	Unit II : Queries, Constraints and Triggers	CHALK & TALK
2	2,3,4	Overview-the form of a basic SQL query	CHALK & TALK
3	5	Union, Intersect and Except	CHALK & TALK
4	6,7,8	Join types and conditions: Natural Join - Inner Join – Outer Join	CHALK & TALK
5	9,10	Nested queries	PPT
6	11,12	Aggregate operators	PPT
7	13,14	Null values	CHALK & TALK
8	15,16	Complex integrity constraints in SQL	CHALK & TALK
9	17,18	Triggers and active databases	PPT
10	19	Unit III : Transaction Management	CHALK & TALK
11	20,21	The ACID properties	CHALK & TALK
12	22,23	Transaction and schedule	CHALK & TALK
13	24,25,26	Concurrent execution of transactions	CHALK & TALK
14	27,28	Lock based concurrency control	CHALK & TALK
15	29	Performance of locking	CHALK & TALK
16	30,31	Transaction support in SQL	CHALK & TALK
17	32,33	Concurrency control: 2PL, Serializability and Recoverability	CHALK & TALK
18	34	Introduction to lock management	CHALK & TALK
19	35	Lock conversion	CHALK & TALK

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20	36	Dealing with deadlocks	PPT
21	37	Unit IV : Schema refinement and normal forms	CHALK & TALK
22	38,39	Functional dependencies	CHALK & TALK
23	40,41	Normal forms	CHALK & TALK
24	42	Properties of decomposition	CHALK & TALK
25	43	Normalization	PPT
26	44,45	Schema refinement in database design	CHALK & TALK
27	46,47,48	Other kind of dependencies	PPT
28	49	Security and Authorization : Introduction	CHALK & TALK
29	50,51	Access control-Discretionary access control	CHALK & TALK
30	52,53	Mandatory access control	CHALK & TALK
31	54	Unit V: . Information Retrieval : Introduction to IR	PPT
32	55	DBMS versus Information Retrieval	CHALK & TALK
33	56,57	Indexing for text search	CHALK & TALK
34	58,59	Web search engines	CHALK & TALK
35	60	Managing text in DBMS	CHALK & TALK


Signature of the Staff


Signature of the HoD

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Name of the Staff: Dr.R.KUMUTHAVENI

Name of the Subject: ADVANCED RELATIONAL DATABASE MANAGEMENT SYSTEMS

[22PCS102]

S.NO	HOUR	PORTIONS TO BE COVERED	MODE OF INSTRUCTIONS/DELIVERY (CHALK & TALK/PPT/FLIPPED CLASS etc
1	1	Unit I :Overview of Database Systems	CHALK & TALK
2	2	Managing data	CHALK & TALK
3	3	File System versus DBMS	CHALK & TALK
4	4	Advantages of DBMS	CHALK & TALK
5	5	Describing and storing data in a DBMS	PPT
6	6	Database design: Database design	PPT
7	7	ER diagrams& Applications of ER diagrams	PPT
8	8	Entities, Attributes , Entity sets	CHALK & TALK
9	9	Relationship bet Entities, Attributes& Entity sets, Relationship sets	CHALK & TALK
10	10	Additional features of the E-R model	PPT
11	11	Conceptual design with E-R model	CHALK & TALK
12	12	Logical database design	CHALK & TALK
13	13	Introduction to Views& Views	CHALK & TALK
14	14	Destroying, altering Tables	PPT
15	15	Aggregate operators	CHALK & TALK
16	16	Null values	CHALK & TALK
17	17	Complex integrity constraints in SQL	PPT
18	18	Triggers and active databases	CHALK & TALK

S.NO	HOUR	PORTIONS TO BE COVERED	MODE OF INSTRUCTIONS/DELIVERY (CHALK & TALK/PPT/FLIPPED CLASS etc
19	19	Revision-UNIT-I	PPT
20	20	Quiz on UNIT-I	PPT
21	21	Unit V: Introduction to Cloud Databases	CHALK & TALK
22	22	What is Cloud Database?	CHALK & TALK
23	23	Database Options in the Cloud	CHALK & TALK
24	24	Database Options in the Cloud	CHALK & TALK
25	25	Cloud Databases	PPT
26	26	The Changing Role of DBA in the Cloud	CHALK & TALK
27	27	Role of DBA in the Cloud	CHALK & TALK
28	28	Moving the Databases to the Cloud	CHALK & TALK
29	29	Group Discussion on Cloud Databases	PPT
30	30	Revision-Cloud Databases	PPT

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 Signature of the Staff

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 Signature of the HoD