

LESSON PLAN (SESSION 2024-25)**CLASS:- B.Sc.****SEM:- II****FACULTY NAME :- Suraj Mishra****SUBJECT :- Database Management System**

S.No.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	1	Introduction	Database System Concepts
2	17-Jan-25	Friday	1	Introduction	Database System Concepts
3	18-Jan-25	Saturday	1	Introduction	File system vs. database system
4	20-Jan-25	Monday	1	Introduction	File system vs. database system
5	21-Jan-25	Tuesday	1	Introduction	Database system architecture, Data models and their types, Database scheme and instances
	22-Jan-25	Wednesday	CLASS TEACHING		
6	23-Jan-25	Thursday	1	Introduction	Database system architecture, Data models and their types, Database scheme and instances
7	24-Jan-25	Friday	1	Introduction	Database system architecture, Data models and their types, Database scheme and instances
8	25-Jan-25	Saturday	1	Introduction	Data independence
9	27-Jan-25	Monday	1	Introduction	Data independence
10	28-Jan-25	Tuesday	1	Introduction	Database Languages and Interfaces
	29-Jan-25	Wednesday	MONTHLY EVALUATION		
11	30-Jan-25	Thursday	1	Introduction	Database Languages and Interfaces
12	31-Jan-25	Friday	1	ER model concepts	Notations for ER diagram
13	1-Feb-25	Saturday	1	ER model concepts	Notations for ER diagram
14	4-Feb-25	Tuesday	1	ER model concepts	Extended E-R diagram, Extended E-R model,
15	5-Feb-25	Wednesday	1	ER model concepts	Extended E-R diagram, Extended E-R model,
	6-Feb-25	Thursday	CLASS TEACHING		
16	7-Feb-25	Friday	1	ER model concepts	E-R model design issues
17	8-Feb-25	Saturday	1	ER model concepts	E-R model design issues
18	10-Feb-25	Monday	1	constraints, and keys	Weak entity set strong entity set
19	11-Feb-25	Tuesday	1	constraints, and keys	Relationship as of higher degree

20	13-Feb-25	Thursday	1	constraints, and keys	Relationship as of higher degree
	14-Feb-25	Friday	CLASS TEACHING		
21	15-Feb-25	Saturday	1	Database Design	Functional dependencies
22	17-Feb-25	Monday	1	Database Design	Functional dependencies
23	18-Feb-25	Tuesday	1	Normal forms	First, second, and third normal forms
24	19-Feb-25	Wednesday	1	Normal forms	First, second, and third normal forms
25	20-Feb-25	Thursday	1	Normal forms	BCNF , Multi-value dependencies
	21-Feb-25	Friday	MONTHLY EVALUATION		
26	22-Feb-25	Saturday	1	Normal forms	BCNF , Multi-value dependencies
27	24-Feb-25	Monday	1	Transaction and system concepts	transaction states
28	25-Feb-25	Tuesday	1	Transaction and system concepts	transaction states
29	27-Feb-25	Thursday	1	Transaction and system concepts	ACID properties of transactions
30	28-Feb-25	Friday	1	Transaction and system concepts	ACID properties of transactions
	1-Mar-25	Saturday	CLASS TEACHING		
31	3-Mar-25	Monday	1	Transaction and system concepts	concurrent execution schedules
32	4-Mar-25	Tuesday	1	Transaction and system concepts	Recoverability
33	5-Mar-25	Wednesday	1	Transaction and system concepts	Recoverability
34	6-Mar-25	Thursday	1	Transaction and system concepts	Serializability of schedules
35	7-Mar-25	Friday	1	Transaction and system concepts	Serializability of schedules
	8-Mar-25	Saturday	CLASS TEACHING		
36	10-Mar-25	Monday	1	Query Processing and Optimization	Measures of Query cost
37	11-Mar-25	Tuesday	1	Query Processing and Optimization	Measures of Query cost
38	17-Mar-25	Monday	1	Query Processing and Optimization	Evaluation of expression
39	18-Mar-25	Tuesday	1	Query Processing and Optimization	Evaluation of expression
40	19-Mar-25	Wednesday	1	Optimization	Transformation of relational expression
	20-Mar-25	Thursday	CLASS TEACHING		

41	21-Mar-25	Friday	1	Optimization	Transformation of relational expression
42	22-Mar-25	Saturday	1	Optimization	Choice of evaluation plan
	24-Mar-25	Monday	MID - TERM EXAM SCHEDULE		
	25-Mar-25	Tuesday			
	26-Mar-25	Wednesday			
	27-Mar-25	Thursday			
	28-Mar-25	Friday			
	29-Mar-25	Saturday			
43	1-Apr-25	Tuesday	1	Optimization	Choice of evaluation plan
44	2-Apr-25	Wednesday	1	Concurrency Control Techniques	Two phase Locking Techniques for Concurrency Control
45	3-Apr-25	Thursday	1	Concurrency Control Techniques	Two phase Locking Techniques for Concurrency Control
	4-Apr-25	Friday	MONTHLY EVALUATION		
46	5-Apr-25	Saturday	1	S. Q. L.	Basic Structure of SQL Query
47	7-Apr-25	Monday	1	S. Q. L.	Set operators
48	8-Apr-25	Tuesday	1	S. Q. L.	SELECT, UNION, INTERSECT, EXCEPT
49	9-Apr-25	Wednesday	1	S. Q. L.	SELECT, UNION, INTERSECT, EXCEPT
50	11-Apr-25	Friday	1	S. Q. L.	SELECT, UNION, INTERSECT, EXCEPT
	12-Apr-25	Saturday	CLASS TEACHING		
51	15-Apr-25	Tuesday	1	S. Q. L.	Nested queries, Aggregate function, Null values
52	16-Apr-25	Wednesday	1	S. Q. L.	Nested queries, Aggregate function, Null values
53	17-Apr-25	Thursday	1	S. Q. L.	Nested queries, Aggregate function, Null values
54	19-Apr-25	Saturday	1	S. Q. L.	Nested queries, Aggregate function, Null values
55	21-Apr-25	Monday	1	S. Q. L.	Nested queries, Aggregate function, Null values
	22-Apr-25	Tuesday	CLASS TEACHING		
56	23-Apr-25	Wednesday	1	S. Q. L.	Derived Relations
57	24-Apr-25	Thursday	1	S. Q. L.	Modification of the Database

58	25-Apr-25	Friday	1	S. Q. L.	Modification of the Database
59	26-Apr-25	Saturday	1	S. Q. L.	Joined relations and up-dates in SQL
60	28-Apr-25	Monday	1	S. Q. L.	Joined relations and up-dates in SQL
	29-Apr-25	Tuesday	CLASS TEACHING		
61	30-Apr-25	Wednesday	1	S. Q. L.	Joined relations and up-dates in SQL