

LESSON PLAN (SESSION 2024-25)

CLASS:- BCA

SEM:- 4TH

FACULTY NAME :- SHRUTI SHAHI

SUBJECT :- Introduction to Database Management System(BCA-401)

S.N o.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	BCA-401	UNIT 1: Introduction	INTRODUCTION
2	17-Jan-25	Friday	BCA-401	UNIT 1: Introduction	Why Database, characteristics of Data in Database
3	18-Jan-25	Saturday	BCA-401	UNIT 1: Introduction	Why Database, characteristics of Data in Database
4	20-Jan-25	Monday	BCA-401	UNIT 1: Introduction	Why Database, characteristics of Data in Database
5	21-Jan-25	Tuesday	BCA-401	UNIT 1: Introduction	DBMS, Significance of Database, Database System Applications
6	22-Jan-25	Wednesday	CLASS TEACHING		
7	23-Jan-25	Thursday	BCA-401	UNIT 1: Introduction	DBMS, Significance of Database, Database System Applications
8	24-Jan-25	Friday	BCA-401	UNIT 1: Introduction	Data Independence, advantages and disadvantages of DBMS, DBMS/RDBMS.
9	25-Jan-25	Saturday	BCA-401	UNIT 1: Introduction	Data Independence, advantages and disadvantages of DBMS, DBMS/RDBMS.
10	27-Jan-25	Monday	BCA-401	UNIT 1: Introduction	Data Independence, advantages and disadvantages of DBMS, DBMS/RDBMS.
11	28-Jan-25	Tuesday	BCA-401	UNIT 2: Database Architecture and Modeling:	Three level architecture of database
12	29-Jan-25	Wednesday	MONTHLY EVALUATION		
13	30-Jan-25	Thursday	BCA-401	UNIT 2: Database Architecture and Modeling:	Three level architecture of database
14	31-Jan-25	Friday	BCA-401	UNIT 2: Database Architecture and Modeling:	Conceptual, Physical and logical database models
15	1-Feb-25	Saturday	BCA-401	UNIT 2: Database Architecture and Modeling:	Conceptual, Physical and logical database models
16	4-Feb-25	Tuesday	BCA-401	UNIT 2: Database Architecture and Modeling:	Conceptual, Physical and logical database models
17	5-Feb-25	Wednesday	BCA-401	UNIT 2: Database Architecture and Modeling:	Role of DBA, Database Design Entity Relationship Model, Components of ER Model
18	6-Feb-25	Thursday	CLASS TEACHING		
19	7-Feb-25	Friday	BCA-401	UNIT 2: Database Architecture and Modeling:	Role of DBA, Database Design Entity Relationship Model, Components of ER Model
20	8-Feb-25	Saturday	BCA-401	UNIT 2: Database Architecture and Modeling:	Role of DBA, Database Design Entity Relationship Model, Components of ER Model
21	10-Feb-25	Monday	BCA-401	UNIT 2: Database Architecture and Modeling:	ER Modeling symbols. Super class and sub class types,
22	11-Feb-25	Tuesday	BCA-401	UNIT 2: Database Architecture and Modeling:	Attribute inheritance, Specialization, Generalization, and Categorization.

23	13-Feb-25	Thursday	BCA-401	UNIT 2: Database Architecture and Modeling:	Attribute inheritance, Specialization, Generalization, and Categorization.
24	14-Feb-25	Friday	CLASS TEACHING		
25	15-Feb-25	Saturday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Introduction to Relational DBMS
26	17-Feb-25	Monday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	RDMBS Terminology. Database normalization, Keys,
27	18-Feb-25	Tuesday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	RDMBS Terminology. Database normalization, Keys,
28	19-Feb-25	Wednesday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	RDMBS Terminology. Database normalization, Keys,
29	20-Feb-25	Thursday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	RDMBS Terminology. Database normalization, Keys,
30	21-Feb-25	Friday	MONTHLY EVALUATION		
31	22-Feb-25	Saturday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	RDMBS Terminology. Database normalization, Keys,
32	24-Feb-25	Monday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Boyce-Codd Normal form, fourth Normal form, Fifth Normal form, case study,
33	25-Feb-25	Tuesday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Relationships, First Normal Form, Functional dependencies,
34	27-Feb-25	Thursday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Relationships, First Normal Form, Functional dependencies,
35	28-Feb-25	Friday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Relationships, First Normal Form, Functional dependencies,
36	1-Mar-25	Saturday	CLASS TEACHING		
37	3-Mar-25	Monday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Second Normal form, third Normal form,
38	4-Mar-25	Tuesday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Second Normal form, third Normal form,
39	5-Mar-25	Wednesday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Boyce-Codd Normal form, fourth Normal form, Fifth Normal form, case study,
40	6-Mar-25	Thursday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Boyce-Codd Normal form, fourth Normal form, Fifth Normal form, case study,
41	7-Mar-25	Friday	BCA-401	UNIT 3: Relational DBMS and Relational Algebra and Calculus:	Boyce-Codd Normal form, fourth Normal form, Fifth Normal form, case study,
42	8-Mar-25	Saturday	CLASS TEACHING		
43	10-Mar-25	Monday	BCA-401	UNIT 4: Introduction to SQL :	History of SQL.
44	11-Mar-25	Tuesday	BCA-401	UNIT 4: Introduction to SQL :	History of SQL. Characteristics of SQL.
45	17-Mar-25	Monday	BCA-401	UNIT 4: Introduction to SQL :	History of SQL. Characteristics of SQL.
46	18-Mar-25	Tuesday	BCA-401	UNIT 4: Introduction to SQL :	Advantages of SQL. SQL in Action.
47	19-Mar-25	Wednesday	BCA-401	UNIT 4: Introduction to SQL :	SQL in Action. SQL data types and Literals.
48	20-Mar-25	Thursday	CLASS TEACHING		

49	21-Mar-25	Friday	BCA-401	UNIT 4: Introduction to SQL :	SQL data types and Literals, Types of SQL commands
50	22-Mar-25	Saturday	BCA-401	UNIT 4: Introduction to SQL :	SQL Operators and their precedence
	24-Mar-25	Monday	<h1 style="text-align: center;">MID - TERM EXAM SCHEDULE</h1>		
	25-Mar-25	Tuesday			
	26-Mar-25	Wednesday			
	27-Mar-25	Thursday			
	28-Mar-25	Friday			
	29-Mar-25	Saturday			
51	1-Apr-25	Tuesday	BCA-401	UNIT 4: Introduction to SQL :	Tables. Views and indexes. Queries and Sub queries.
52	2-Apr-25	Wednesday	BCA-401	UNIT 4: Introduction to SQL :	Tables. Views and indexes. Queries and Sub queries.
53	3-Apr-25	Thursday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Database backups.
54	4-Apr-25	Friday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Database backups. Why plan backups?
55	5-Apr-25	Saturday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Hardware protection and redundancy,
56	7-Apr-25	Monday	CLASS TEACHING		
57	8-Apr-25	Tuesday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Transaction logs, Importance of backups, Database recovery
58	9-Apr-25	Wednesday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Transaction logs, Importance of backups, Database recovery
59	11-Apr-25	Friday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Types of Integrity constraints, Restrictions on integrity constraints,
60	12-Apr-25	Saturday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Types of Integrity constraints, Restrictions on integrity constraints,
61	15-Apr-25	Tuesday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Types of Integrity constraints, Restrictions on integrity constraints,
62	16-Apr-25	Wednesday	CLASS TEACHING		
63	17-Apr-25	Thursday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Types of Integrity constraints, Restrictions on integrity constraints,
64	19-Apr-25	Saturday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Data security risks, Authenticating users to the database.
65	21-Apr-25	Monday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Data security risks, Authenticating users to the database.
66	22-Apr-25	Tuesday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Data security risks, Authenticating users to the database.
67	23-Apr-25	Wednesday	BCA-401	UNIT 5: Backup, Recovery AND Database Security:	Data security risks, Authenticating users to the database.
68	24-Apr-25	Thursday	MONTHLY EVALUATION		

69	25-Apr-25	Friday	BCA-401	Revision	Revision
70	26-Apr-25	Saturday	BCA-401	Revision	Revision
71	28-Apr-25	Monday	BCA-401	Revision	Revision
72	29-Apr-25	Tuesday	BCA-401	Revision	Revision
73	30-Apr-25	Wednesday	BCA-401	Revision	Revision