

Lesson Plan / Teaching Plan / Lecture Plan with Progress BCA-4TH : 2024-25				
Course Name (Code) :BCG-202-V		Faculty : Ms. Shikha Arora		
Topics / lectures are arranged in sequence - same - as to be taught in the class. Maintain data related to "Date" in its hard copy.				
S. No.	Lecture No	Topic Description	Teaching Pedagogy	Reference Material
1	1	Introduction to Database concepts,Purpose of Database Systems	White Board	R1,R2
2	2	Characteristics of Database Approach, advantages, and disadvantages of database system.	White Board	R1,R2
3	3	Data, Information, Records, and files. Role of Database Administrator	White Board	R1,R2
4	4	Database Designers, DBMS users	White Board	R1,R2
5	5	DBMS Functions and Components,schema, instances	White Board	R1,R2
6	6	Databases versus information retrieval.Introduction to database models	White Board	R1,R2
7	7	Categories of database models	White Board	R1,R2
8	8	Categories of db models	White Board	R1,R2
9	9	Three-Schema Architecture, Data Independence	White Board	R1,R2
10	10	Component modules of a DBMS and their interactions.	White Board	R1,R2
11	11	Centralized DBMSs Architecture, Two-Tier Client/Server Architectures for DBMS	White Board	R1,R2
12	12	Three-Tier and n-Tier Architectures for Web Applications	White Board	R1,R2
13	13	DBMS Languages, Classification of DBMS.	White Board	R1,R2
14	14	Introduction to relational data model structure and terminology	White Board	R1,R2
15	15	Database Relations, Properties of Relations,	White Board	R1,R2
16	16	keys	White Board	R1,R2
17	17	Constraints over RM	White Board	R1,R2
18	18	Relational database schemas	White Board	R1,R2
19	19	Entity Types, Entity Sets, Attributes	White Board	R1,R2
20	20	How to make er diagram	White Board	R1,R2
21	21	er diagram	White Board	R1,R2

22	22	Specialisation and generalisation	White Board	R1,R2
23	23	Abstraction and integration.	White Board	R1,R2
24	24	Basic Concepts of Hierarchical and Network Data Model	White Board	R1,R2
25	25	Revision /Class Test	White Board	R1,R2
26	26	Operations of RA	White Board	R1,R2
27	27	Operations of RA	White Board	R1,R2
28	28	Operations of RA	White Board	R1,R2
29	29	Binary relations operations	White Board	R1,R2
30	30	Additional relational operation and revisions	White Board	R1,R2
31	31	Aggregations and grouping	White Board	R1,R2
32	32	Introduction to RC Difference between RA and RC	White Board	R1,R2
33	33	TRC	White Board	R1,R2
34	34	DRC	White Board	R1,R2
35	35	Functional dependencies,Armstrom Axiom	White Board	R1,R2
36	36	Types of FD	White Board	R1,R2
37	37	Introdction of normalisation .1NF	White Board	R1,R2
38	38	How to find candidate key closure method	White Board	R1,R2
39	39	2nf	White Board	R1,R2
40	40	3nf/bcnf	White Board	R1,R2
41	41	4nf	White Board	R1,R2
42	42	5nf	White Board	R1,R2
43	43	Datatypes, basics queries of SQL	White Board	R1,R2
44	44	Views	White Board	R1,R2
45	45	General strategies of query processing,	White Board	R1,R2
46	46	query optimization,	White Board	R1,R2
47	47	concept of security	White Board	R1,R2
48	48	Concurrency and recovery	White Board	R1,R2

49	49	Concurrency and recovery	White Board	R1,R2
50	50	introduction to distributed DBMS.	White Board	R1,R2
51	51	Doubt session/PYQ		
TEXT BOOKS:				
R1. Fundamentals of Database System, Elmasri and Navathe, Pearson Education				
R2. Database System concepts, Henry F. Korth, McGraw Hill				
RECOMMENDED BOOKS:				
R1. Fundamentals of Database System, Elmasri and Navathe, Pearson Education				
R2. Database System concepts, Henry F. Korth, McGraw Hill				
Name and Signature of Faculty				
Shikha Arora				