GANDHI SCHOOL OF ENGINEERING
BHABANDHA, BERHAMPUR
SESSION PLAN (SUMMER-2025)
4TH SEMESTER, BRANCH-INFORMATION TECHNOLOGY

4 OBJECT ORIENTED METHODOLOGY (TH-4)

Name of the Faculty –ER. DEVI PRASAD MISHRA

Topics to be taken				TOPIC NO.	Actually Taken		
SL NO & CHAPTER	No. of Periods assigned by SCTE & VT	Details of the topics	PLANNING DATE		Details of the topics	ACTUAL DATE	Remarks
1 BASIC CONCPETS OF DBMS	5	**1.0 BASIC CONCPETS OF DBMS**	06-02-2025 TO 11-02-2025	1	1.0 BASIC CONCPETS OF DBMS INTRODUCTION	06-02-2025	
		1.1 Purpose of database Systems		1.1	1.1 Purpose of database Systems	07-02-2025	
		1.2 Explain Data abstraction		1.2	1.2 Explain Data abstraction	08-02-2025	
		1.3 Database users		1.3	1.3 Database users	10-02-2025	
		1.4 Data definition language		1.4	1.4 Data definition language	11-02-2025	
		1.5 Data Dictionary		1.5	1.5 Data Dictionary	11-02-2025	
2 DATA MODELS	8	**2.0 DATA MODELS**	12-02-2025 TO 20-02-2025	2	2.0 DATA MODELS INTRODUCTION	12-02-2025	
		2.1 Data independence		2.1	2.1 Data independence	12-02-2025	
		2.2 Entity relationship models		2.2	2.2 Entity relationship models	13-02-2025	
		2.3 Entity sets and Relationship sets		2.3	2.3 Entity sets and Relationship sets	14-02-2025	
		2.4 Explain Attributes		2.4	2.4 Explain Attributes		
		2.5 Mapping constraints		2.5	2.5 Mapping constraints	15-02-2025	
		2.6 E-R Diagram		2.6	2.6 E-R Diagram	17-02-2025	
		2.7 Relational model		2.7	2.7 Relational model	18-02-2025	
		2.8 Hierarchical model		2.8	2.8 Hierarchical model	19-02-2025	
		2.9 Network model		2.9	2.9 Network model	20-02-2025	

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SL NO & CHAPTER	No. of Periods assigned by SCTE & VT	Details of the topics	PLANNING DATE		Details of the topics	ACTUAL DATE	Remarks
3 RELATIONAL DATABASE Examples	6	**3.0 RELATIONAL DATABASE Examples** 3.1 Relational algebra 3.2 Different operators select, project, join , simple	21-02-2025 TO 06-03-2025	3 3.1 3.2	3.0 RELATIONAL DATABASE Examples RELATIONAL DATABASE Examples 3.1 Relational algebra Relational algebra 3.2 Different operators select, project, join , simple	21-02-2025 24-02-2025 25-02-2025 03-03-2025 04-03-2025 06-03-2025	
4NORMALIZATION IN RELATIONAL SYSTEM	8	**4.0 NORMALIZATION IN RELATIONAL SYSTEM** 4.1 Functional Dependencies 4.2 Lossless join 4.3 Importance of normalization 4.4 Compare First second and third normal forms 4.5 Explain BCNF	07-03-2025 TO 20-03-2025	4 4.1 4.2 4.3 4.4 4.5	4.0 NORMALIZATION IN RELATIONAL SYSTEM INTRODUCTION 4.1 Functional Dependencies 4.2 Lossless join 4.3 Importance of normalization 4.4 Compare First second and third normal forms 4.5 Explain BCNF Explain BCNF	07-03-2025 10-03-2025 11-03-2025 12-03-2025 13-03-2025 17-03-2025 18-03-2025 20-03-2025	
5 STRUCTURED QUERY LANGUAGE	9	**5.0 STRUCTURED QUERY LANGUAGE** 5.1 Elementary idea of Query language 5.2 Queries in SQL 5.3 Simple queries to create, update, insert in SQL	21-03-2025 TO 09-04-2025	5 5.1 5.2 5.3	5.0 STRUCTURED QUERY LANGUAGE STRUCTURED QUERY LANGUAGE 5.1 Elementary idea of Query language Elementary idea of Query language 5.2 Queries in SQL Queries in SQL 5.3 Simple queries to create, update, insert in SQL	21-03-2025 24-03-2025 25-03-2025 26-03-2025 03-04-2025 04-04-2025 07-04-2025 08-04-2025 09-04-2025	

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6 TRANSACTION PROCESSING CONCEPTS	8	**6.0 TRANSACTION PROCESSING CONCEPTS** 6.1 Idea about transaction processing 6.2 Transaction & system concept 6.3 Desirable properties of transaction 6.4 Schedules and recoverability	10-04-2025 TO 23-04-2025	6 6.1 6.2 6.3 6.4	6.0 TRANSACTION PROCESSING CONCEPTS TRANSACTION PROCESSING CONCEPTS 6.1 Idea about transaction processing 6.2 Transaction & system concept 6.3 Desirable properties of transaction 6.4 Schedules and recoverability	10-04-2025 11-04-2025 15-04-2025 16-04-2025 17-04-2025 21-04-2025 22-04-2025 23-04-2025	
7 CONCURRENCY CONTROL CONCEPTS	8	**7.0 CONCURRENCY CONTROL CONCEPTS** 7.1 Basic concepts, 7.2 Locks, Live Lock, Dead Lock, 7.3 Serializability (only fundamentals)	24-02-2025 TO 06-05-2025	7 7.1 7.2 7.3	7.0 CONCURRENCY CONTROL CONCEPTS CONCURRENCY CONTROL CONCEPTS 7.1 Basic concepts, 7.1 Basic concepts, 7.2 Locks, Live Lock, Dead Lock, 7.3 Serializability (only fundamentals)	24-04-2025 26-04-2025 29-04-2025 01-05-2025 02-05-2025 03-05-2025 05-05-2025 06-05-2025	
8 SECURITY AND INTEGRITY	8	**8.0 SECURITY AND INTEGRITY** 8.1 Authorization and views 8.2Security constraints 8.3 Integrity Constraints 8.4 Discuss Encryption	08-05-2025 TO 17-05-2025	8 8.1 8.2 8.3 8.4	8.0 SECURITY AND INTEGRITY INTRODUCTION 8.1 Authorization and views 8.2Security constraints 8.3 Integrity Constraints 8.4 Discuss Encryption Discuss Encryption	05-05-2025 09-05-2025 10-05-2025 13-05-2025 14-05-2025 15-05-2025 16-05-2025 17-05-2025	

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