LESSON PLAN

Department: CSE		Semester: 4th , Name of Faculty : SMT. KUMARI JYOTI
Subject: Database Management System (DBMS)	No. of days/ week Class allotted: 4	Effective From Date: 04.02.2025
		No. of Week- 15
		Topic to be Covered:
Week	Class Day	Theory
1st	1st	UNIT 1: BASIC CONCPETS OF DBMS
	2nd	1.1 Purpose of database Systems
	3rd	1.2 Explain Data abstraction
	4th	1.3 Database users
2nd	1st	1.4 Data definition language
	2nd	1.5 Data Dictionary
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	4th	UNIT 2: DATA MODELS
3rd	1st	2.1 Data independence
	2nd	2.2 Entity relationship models
	3rd	2.3 Entity sets and Relationship sets
	4th	2.4 Explain Attributes
4th	1st	2.5 Mapping constraints
	2nd	2.6 E-R Diagram
	3rd	2.7 Relational model
	4th	2.8 Hierarchical model
5th	1st	2.9 Network model
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 3: RELATIONAL DATABASE
	4th	3.1 Relational algebra
6th	1st	3.2 Different operators select
	2nd	3.2.1 project, join , simple Examples
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	4th	UNIT 4: NORMALIZATION IN RELATIONAL SYSTEM
7th	1st	4.1 Functional Dependencies
	2nd	4.2 Lossless join
	3rd	4.3 Importance of normalization
	4th	4.4 Compare First second and third normal forms
8th	1st	4.5 Explain BCNF

	2nd	1. **Doubt Clearing class** 2. **Quiz test** 3. **Assignment**
	3rd	**UNIT 5: STRUCTURED QUERY LANGUAGE**
	4th	**5.1** Elementary idea of Query language
9th	1st	**5.2** Queries in SQL
	2nd	**5.3** Simple queries to create
	3rd	**5.3.1** Update
	4th	**5.3.2** insert in SQL
10th	1st	1. **Doubt Clearing class** 2. **Quiz test** 3. **Assignment**
	2nd	**UNIT 6: TRANSACTION PROCESSING CONCEPTS**
	3rd	**6.1** Idea about transaction processing
	4th	**6.2** Transaction & system concept
11th	1st	**6.3** Desirable properties of transaction
	2nd	**6.4** Schedules and recoverability
	3rd	1. **Doubt Clearing class** 2. **Quiz test** 3. **Assignment**
	4th	**UNIT 7: CONCURRENCY CONTROL CONCEPTS**
12th	1st	**7.1** Basic concepts
	2nd	**7.2** Locks
	3rd	**7.2.1** Live Lock
	4th	**7.2.2** Dead Lock
13th	1st	**7.3** Serializability (only fundamentals)
	2nd	1. **Doubt Clearing class** 2. **Quiz test** 3. **Assignment**
	3rd	**UNIT 8: SECURITY AND INTEGRITY**
	4th	**8.1** Authorization and views
14th	1st	**8.2** Security constraints
	2nd	**8.3** Integrity Constraints
	3rd	**8.4** Discuss Encryption
	4th	1. **Doubt Clearing class** 2. **Quiz test** 3. **Assignment**
15th	1st	**Revision**
	2nd	**Revision**
	3rd	**Previous Year Question Discussions**
	4th	**Previous Year Question Discussions**

Signature of Faculty

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