Academic Lesson Plan of Summer 2025

Department : CSE	Semester : 4th	Name of the teaching faculty:
		NALINIKANTA MOHAAPATRA
Subject: Database	No.of days/per	Semester from : 4th FEB 2025
Management	week class	No. of weeks:15 weeks
System	allotted	Topics to be covered:
1 st week	1 st	BASIC CONCPETS OF DBMS
	2 nd	Purpose of database Systems
	3 rd	Explain Data abstraction
	4 th	Database users
2 nd week	1 st	Data definition language
	2 nd	Continue
	3 rd	Data Dictionary
	4 th	DATA MODELS
3 rd week	1 st	Data independence
	2 nd	Entity relationship models
	3 rd	Continue
	4 th	Entity sets and Relationship sets
4 th week	1 st	Explain Attributes
	2 nd	Mapping constraints
	3 rd	E-R Diagram
	4 th	Relational model
5 th week	1 st	Hierarchical model
	2 nd	Network model
	3 rd	RELATIONAL DATABASE
	4 th	Relational algebra
6 th week	1 st	Different operators select, project, joir , simple Examples
	2 nd	Different operators select, project, joir , simple Examples
	3 rd	Different operators select, project, join
		, simple Examples
	4 th	Continue
7th week	1 st	Introduction of NORMALIZATION
	2 nd	Functional Dependencies
	3 rd	Continue
	4 th	Lossless join
8 th week	1 st	Lossless join
	2 nd	Importance of normalization
	3 rd	First normal forms
	4 th	Second normal forms
9 th week	1 st	third normal forms
	2 nd	Explain BCNF
	3 rd	Introduction of SQL
	4 th	Elementary idea of Query language

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10 th week	1 st	Queries in SQL
	2 nd	Simple queries to create in SQL
	3 rd	Simple queries to insert,alter in SQL
	4 th	Simple queries to update in SQL
11 th week	1 st	Introduction of TRANSACTION
		PROCESSING CONCEPTS
	2 nd	Continue
	3 rd	Transaction & system concept
	4 th	Continue
12 th week	1 st	Desirable properties of transaction
	2 nd	Continue
	3 rd	Schedules and recoverability
	4 th	Continue
13 th week	1 st	Introduction of CONCURRENCY
		CONTROL CONCEPTS
i i	2 nd	Continue
	3 rd	Locks, Live Lock, Dead Lock
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14 th week	1 st	Serializability
	2 nd	Introduction of SECURITY AND
1		INTEGRITY
	3 rd	Authorization and views
	4 th	Continue
15 th week	1 st	Security constraints
	2 nd	Integrity Constraints
	3 rd	Discuss Encryption
	4 th	REVISION of all topics with Semister
		Question

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