PNS SCHOOL OF ENGINEERING & TECHNOLOGY
Lesson Plan of Summer 2025

Department : CSE	Semester : 4th	Name of the Faculty - Er Sushree Sangita Tripathy	
Subject: Database Management System	**No.of days/per week class allotted 5p/week.**	**Semester from : 04/02/2025 to 17/05/2025**	
		No. of weeks:12 weeks	
		Topics to be covered:	
1st week	1st	BASIC CONCPETS OF DBMS	
	2nd	Purpose of database Systems	
	3rd		
	4th	Explain Data abstraction	
	5th	Database users	
2nd week	1st	Data definition language	
	2nd	Continue	
	3rd	Data Dictionary	
	4th	DATA MODELS	
	5th	Doubt Clearing Class	
3rd week	1st	Data independence	
	2nd	Entity relationship models	
	3rd	Continue	
	4th	Entity sets and Relationship sets	
	5th	Question Answer Discussion	
4th week	1st	Explain Attributes	
	2nd	Mapping constraints	
	3rd	E-R Diagram	
	4th	Relational model	
	5th	Class test	
5th week	1st	Hierarchical model , Network model	
	2nd	RELATIONAL DATABASE	
	3rd	Relational algebra	
	4th	Different operators select, project, join , simple Examples	
	5th	Continue	

Week	Lecture	Topic
6th week	1st	**Introduction of NORMALIZATION**
	2nd	**Functional Dependencies**
	3rd	**Continue**
	4th	**Lossless join**
	5th	**Doubt Clearing Class**
7th week	1st	**Question Answer Discussion**
	2nd	**Importance of normalization**
	3rd	**First normal forms**
	4th	**Second normal forms**
	5th	**Third normal forms**
8th week	1st	**Explain BCNF**
	2nd	**Introduction of SQL**
	3rd	**Elementary idea of Query language**
	4th	**Doubt Clearing Class**
	5th	**Queries in SQL**
9th week	1st	**Simple queries to create in SQL**
	2nd	**Simple queries to insert,alter in SQL**
	3rd	**Simple queries to update in SQL**
	4th	**Question Answer Discussion**
	5th	**Introduction of TRANSACTION PROCESSING CONCEPTS**
10th week	1st	**Continue**
	2nd	**Transaction & system concept**
	3rd	**Desirable properties of transaction**
	4th	**Schedules and recoverability**
	5th	**Continue**
11th week	1st	**Introduction of CONCURRENCY CONTROL CONCEPTS**
	2nd	**Continue**
	3rd	**Locks, Live Lock, Dead Lock**
	4th	**continue**
	5th	**Doubt Clearing Class**
	1st	**Introduction of SECURITY AND INTEGRITY**
	2nd	**Authorization and views**

12th week	3rd	Security constraints , Integrity Constraints
	4th	Discuss Encryption
	5th	REVISION of all topics with Semister Question

Sushree sangita Tripathy.

Biswaranjan Swain

SIGNATURE OF LECTURER   SIGNATURE OF H.O.D