## KIIT POLYTECHNIC, BHUBANESWAR

## LESSON PLAN Session (2022-2023)

Discipline: Computer	Semester: 4 <sup>th</sup> ,Summer/2023	Name of the Faculty:
Science and engineering		Swagatika Dalai
		Lecturer
		Email ID: sdalaifcs@kp.kiit.ac.in
Subject: Database	No. of Days/week: 04	<b>Start Date:</b> 13/02/2023
Management System,		<b>End Date:</b> 23/05/2023
Theory-4		

Week	Class Day	Theory Topics
1st	1st	Purpose of database Systems
	2nd	Explain Data abstraction
	3rd	Database users
	4th	Data definition language
2nd	1st	Data Dictionary
	2nd	Revision
	3rd	Data independence
	4th	Entity relationship models
3rd	1st	Entity sets and Relationship sets
	2nd	Explain Attributes
	3dr	Mapping constraints
	4th	E-R Diagram
4th	1st	Relational model, Hierarchical model,
	2nd	Network model
	3dr	Quiz Test
	4th	Relational algebra
5th	1st	Different set operators with examples
	2nd	Select and project operators with example

3rd	join operation with example
4th	Question answer discussion
1st	Functional Dependencies
2nd	Functional Dependencies contd
3rd	Lossless join
4th	Rules(Armstrong's axioms)
1st	Importance of normalization
2nd	First and Second normal form
3rd	Third normal form
4th	Explain BCNF
1st	Revision
2nd	Elementary idea of Query language
3rd	Queries in SQL
4th	Queries in SQL contd
1st	Queries in SQL contd
2nd	Queries in SQL contd
3rd	Simple queries to create, update, insert in SQL
4th	Revision
1st	Basic Idea about transaction processing
2nd	Transaction & system concept
3rd	Transaction & system concept contd
4th	Desirable properties of transaction
1st	Schedules and Types of Schedules
2nd	Recoverability
3rd	Revision
4th	Question answer discussion
1st	Basic concepts of Concurrency Control
2nd	Locks and its types
3rd	Dead Lock
4th	Dead Lock contd
1st	Live Lock
2nd	Serializability (only fundamentals)
3rd	Revision
4th	Quiz Test
	4th         1st         2nd         3rd         4th         1st         2nd         3rd

14th	1st	Authorization
	2nd	views
	3rd	Security constraints
	4th	Integrity Constraints
15th	1st	Integrity Constraints contd
	2nd	Discuss Encryption
	3rd	Discussion of previous year questions
	4th	Discussion of previous year questions