Department : Information	Semester : 4th	
Subject: Database Management System	**No.of days/per week class allotted . 4p/week.**	
Feb 3rd week	1st	
	2nd	
	3rd	
Feb 4th week	1st	
	2nd	
	3rd	
	4th	
Feb 5th week	1st	
March 1st week	1st	
	2nd	
	3rd	
March 2nd week	1st	
	2nd	
	3rd	
March 3rd week	1st	
	2nd	
	3rd	
	4th	
March 4th week	1st	
	2nd	
	3rd	
	4th	
March 5th week	1st	
	2nd	
April 2nd week	1st	
	2nd	
	3rd	
April 3rd week	1st	
	2nd	
	3rd	
April 4th week	1st	
	2nd	
	3rd	

	4th
May 1st week	1st
	2nd
	3rd
	4th
May 2nd week	1st
	2nd
	3rd
	4th
May 3rd week	1st
	2nd
	3rd
	4th
May 4th week	1st

Name of the teaching faculty: Archana Tripathy
Semester from : 14th Feb to 23rd May 2023
No. of weeks:15 weeks
Topics to be covered:
BASIC CONCPETS OF DBMS ,Purpose of database Systems
Data definition language
Data Dictionary
Data independence
DATA MODELS
Data independence
Entity relationship models
Entity sets and Relationship sets, Explain Attributes
Types of Attributes
Mapping constraints
E-R Diagram
Relational model
Hierarchical model
Network model
RELATIONAL DATABASE ,Relational Algebra
Relational Algebra
Different operators select, project,simple Examples
JOIN , simple Examples,
Different operators select, project, join , simple Examples
NORMALIZATION IN RELATIONAL SYSTEM, Functional Dependencies
Functional Dependencies
Lossless join
Importance of normalization
1NF
2NF
3NF
Compare First second and third normal forms
Explain BCNF
STRUCTURED QUERY LANGUAGE, Elementary ideas of Query language,Queries in SQL
Simple queries to create, update, insert in SQL
TRANSACTION PROCESSING CONCEPTS,Idea about transaction processing
Transaction & system concept
Desirable properties of transaction

Schedules and recoverability
CONCURRENCY CONTROL CONCEPTS ,Basic concepts
Locks, Live Lock, Dead Lock,
Continue
Serializability(only fundamentals)
SECURITY AND INTEGRITY, Authorization and views
continue
Authorization and views
Security constraints
continue
Integrity Constraints
Discuss Encryption
REVISION of all topics with Semester Question
REVISION of all topics with Semester Question

Signature of the Faculty

Signature of the Faculty