

ne:	Semester: 7th	Name of the Teaching Faculty	Snehalata Rout
DBMS	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:

WK	Class Day	Theory Topics
	1st	Purpose of Database System, DS
	2nd	Database Management System Vs File system.
	3rd	View of Data and Data abstraction. P
	4th	Physical level, view level, logical level data abstraction.
	5th	Specified users in dbms. Application programmers.
	1st	Database users Specified users.
	2nd	Data Definition language (DDL)
	3rd	practice statements.
	4th	Role of Database Administrator.
	5th	practice statements.
	1st	Data Dictionary
	2nd	Data Manipulation language.
	3rd	Data independence
	4th	Physical data independence, Logical data independence.

Theory Topics

Class Day	Topic
1st	Simple, composite and Derived attribute
2nd	Relationship entities.
3rd	Relationship Set.
4th	Mapping Cardinality, one to one.
5th	Mapping Cardinality one to many, many to one, many to many.
1st	The cardinality remaining.
2nd	Keys in dbms.
3rd	Super Key and it's features, and
4th	candidate key and it's features.
5th	Primary key and it's features. properties of Relation.
1st	Entity - Relationship Diagram.
2nd	Attributes of Entity
3rd	Relational Model.
4th	Networking Model, data structure diagram of the model.
	hierarchical Model and it's diagram.

CSE	Semester: 4th	Name of the Teaching Faculty	
DBMS	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:
Class Day	Theory Topics		
1st	Structure Query language .		
2nd	Different- statement- of SQL.		
3rd	functional dependencies Trivial functional dependency .		
4th	Non-trivial functional dependency .		
5th	properties of functional dependency		
1st	Lossless Join, Normalization basic Introduction duplicacy.		
2nd	Insert anomaly and Deletion anomaly update anomaly.		
3rd	First Normal form, Second Normal form Third Normal form,		
4th	Join & its types		
5th	Inner join & Outer join, Theta, equi.		
1st	Boyce codd Normal form (BCNF) Introduction to SQL		
2nd	SQL Process, SQL commands or queries		
3rd	SQL command or query for create a table .		
4th	SQL Query for update a table .		
5th	practice commands.		

WEEK	Class Day	Theory Topics
2. 7. 21	1st	SQL queries for insertion of data into table
	2nd	updatation and alteration of data in table.
	3rd	Idea about transaction processing
	4th	Transaction operations, Transaction states
	5th	Desirable properties of transaction, ACID
2. 7. 21	1st	Atomicity, consistency, Durability, Isolation Explanation.
	2nd	schedules, Serial schedule, Parallel schedule conflicts.
	3rd	Recoverability
	4th	concurrency control and Locks.
	5th	Live lock, Deadlock in dbms. Lock based protocols.
2. 7. 21	1st	Dead lock prevention, Deadlock Avoidance.
	2nd	Fundamentals of serializability.
	3rd	Authorization & Authentication
	4th	Role of System Administrator
	5th	System control, System maintenance, System monitor

DBMS
WEEK



ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Semester: 4th		Name of the Teaching Faculty	
No of Days/Week Class Allotted: _____		Semester From date: _____ To date _____	No. of Weeks:
Class Day	Theory Topics		
1st	Views, Security constraints in DBMS.		
2nd	Encryption Explanation.		
3rd	SQL Command Practice.		
4th	SQL command Practice		
5th	SQL Command Practice.		
1st			
2nd			
3rd			
4th			
5th			
1st			
2nd			
3rd			