Lesson Plan

Name of Faculty   :   Ms. SHALU
Discipline   :   Computer Engg
Semester   :   IV
Subject   :   DBMS
Lesson Plan Duration :   15 Weeks

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1	Introduction to Database and its purpose, Introduction to Database system	1	Overview, Features and functionality, Application development in MS-Access
	2	Why Database, History of Database System, Characteristics of the database approach		
	3	Advantages and disadvantages of database systems		
2nd	4	Introduction to Conventional File System, Concept of files ,record, data, information retrieval	2	Overview, Features and functionality, Application development in MS-Access
	5	Comparison between Conventional System and DataBase System		
	6	Actors on the scene, Database Administrators, Database Designers, End Users, System Analysts and Application Programmers		
3rd	7	Workers behind the scene (DBMS system designers and implementers, tool developers, operator and maintenance personnel)	3	Exercises on different forms of select statement, altering and droping of tables
	8	Data models: Physical Model, Object based Model, Record based Model		
	9	Network Model, Heirachical Model)		
4th	10	sub schemas instances, data base state. Case Study of models and schemas (examples student information System)	4	Exercises on different forms of altering and dropping of tables
	11	Three Level of Architecure		
	12	Data base Administrator and Administration, Database Management System Advantage and Disadvantage, Classification of DBMS, DBMS Interfaces		
5th	13	Concept of centralized and Client /Server Architecture for DBMS: Single Tier, Two Tier and Three Tier	5	Exercises on creation of tables
	14	Data Independence		
	15	Database Languages and Interfaces		
6th	16	Classification of Database Management Systems: Centralized, Distributed,	6	Exercises on creation of tables
	17	parallel and Object based		
	18	Test		

7th	19	File based or primitive models	7	Viva-Voce	
	20	traditional data models			
	21	semantic data models.			
8th	22	Entities and Attributes	8	Exercises on insertion of data into tables	
	23	Entity types and Entity sets			
	24	Key attribute and domain of attributes			
9th	25	Relationship among entities	9	Exercises on insertion of data into tables	
	26	Database design with E/R model			
	27	Database design with E/R model			
10th	28	ER Design Issues	10	Exercises on deletion of data using different conditions	
	29	Mapping Constraints			
	30	Domain, Attributes			
11th	31	Tuples, Cardinality	11	Exercises on creation of tables using Primary Key	
	32	Primary, Secondary			
	33	Foreign key,			
12th	34	Alternative Keys	12	Exercises on Join of tables	
	35	Relations			
	36	Test			
13th	37	Introduction to SQL	13	Exercises on UPDATE statement	
	38	Data definition language : Create, Alter, Drop commands			
	39	Data Manipulation Language (DML) Select command with where clause using conditional expressions			
14th	40	Boolean operators, group by clause	14	Exercise on GROUP BY clause	
	41	like operator			
	42	Insert			
15th	43	Update and Delete commands	15	Viva-Voce	
	44	Revision			
	45	Test			