

Lesson Plan

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

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1 st	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		
2 nd	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		
3 rd	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 dropping of tables
	8	Data models: Physical Model, Object based Model, Record based Model		
	9	Network Model, Heirachical Model)		
4 th	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		
5 th	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		
6 th	16	Classification of Database Management Systems: Centralized, Distributed,	6	Exercises on creation of tables
	17	parallel and Object based		
	18	Test		

7 th	19	File based or primitive models	7	Viva-Voce
	20	traditional data models		
	21	semantic data models.		
8 th	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		
9 th	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		
10 th	28	ER Design Issues	10	Exercises on deletion of data using different conditions
	29	Mapping Constraints		
	30	Domain, Attributes		
11 th	31	Tuples, Cardinality	11	Exercises on creation of tables using Primary Key
	32	Primary, Secondary		
	33	Foreign key,		
12 th	34	Alternative Keys	12	Exercises on Join of tables
	35	Relations		
	36	Test		
13 th	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		
14 th	40	Boolean operators, group by clause	14	Exercise on GROUP BY clause
	41	like operator		
	42	Insert		
15 th	43	Update and Delete commands	15	Viva-Voce
	44	Revision		
	45	Test		