

Name Of the Faculty : Ms Pooja
Discipline : Computer Engg.
Semester : 4th
Subject : DATA BASE MANAGEMENT SYSTEM
Lesson Plan Duration : 15 weeks from January to April - 2018

Work Load (Lecture/Practical) per week (in hours): 03 Hours (lectures) 03 Hours per group (Practical's)

Week	Theory		Practical	
	Lecture day	TOPIC (including assignment/test)	Day	TOPIC
1st	1st	Introduction to database, Introduction to database system, Why database	1	Over view, features, function of MS -Access
	2nd	History of data base system	2	
		Characteristics of the data base approach		
		Advantages and disadvantages of database systems		
	3rd	Conventional file systems, file, record, data, information retrieval		
		Assignment-database systems with characteristic,		
Advantages and disadvantages.				
2nd	1st	Comparison between conventional system and Database sys. actors on the scene	1	Application developments in MS-Access
	2nd	Database Administrators, Database designers, End user, System analysts and application programs	2	
	3rd	Workers behind the scene		
3rd	1st	History of database system	1	Practice in MS-Access
		Assignment-various actors on and behind the scene		
	2nd	Test -database systems	2	
	3rd	Basic of data models, Physical modal, Object base model, Record base modal		
4th	1st	Network modal, Hierarchical modal	1	Exercises on Different forms of select statement.
	2nd	Schemas and sub schemas, Database stale	2	
	3rd	Case study of models and schemas with the help of student information system example		
5th	1st	DBMS -three level architecture, external level, conceptual level, internal level, mappings	1	Exercise on Altering and dropping of table
	2nd	Database administrator & administration	2	
		DBMS -Advantages and Disadvantages		
	3rd	Classification of DBMS, DBMS Interface		

Week	Theory		Practical	
	Lecture day	TOPIC (including assignment/test)	Day	TOPIC
6th	1st	Centralized and client/server, Architecture of DBMS	1	Exercise on creation of table
		Single ,two and three tier		
	2nd	Data independence, logical data independence, physical data, DBMS language, DBMS interfaces	2	
3rd	Classification of DBMS centralized			
	Assignment centralized and client/server architecture			
7th	1st	Distributed DBMS, Parallel and Object based DBMS	1	
	2nd	Test -chapter 2 database system concept and architecture	2	
	3rd	Data model-file based models		
8th	1st	Traditional data models	1	Exercise on creation of table and insertion of data into table
	2nd	Semantic data models	2	
	3rd	Entities and attributes		
9 th	1st	Entity types and entity sets	1	Exercise on deletion of data condition
	2nd	Key attributes and domain of attributes	2	
	3rd	Relations heptagons entities		
10th	1st	Data base design with E/R model	1	Exercise on deletion of data condition
	2nd	E/R model (examples)	2	
	3rd	ER design issues		
11th	1st	Mapping constraints	1	Exercise on Update statement
		Assignment-ER model with various design issues	2	
	2nd	Test -data Model using E.R model		
3rd	Basic of Relational Model			
12th	1st	Domain, attributes, tupleslity, cording, keys	1	Exercise on Update statement
	2nd	Primary, Secondary foreign, alternate key etc.	2	
	3rd	Relations		
Assignment -Explain Various, concepts related to				
13th	1st	Introduction to SQL	1	Exercise on DDL and DML commands
	2nd	DDL commands	2	
	3rd	DML command		
14th	1st	DML command	1	Exercise on DDL and DML commands
	2nd	Select command with where clause using conditional and Boolean operators	2	
		Group by clause, link operator		
15th	1st	Insert, update and delete commands	1	Exercise on DDL and DML
		Assignment -DDL and DML commands with syntax	2	
	2nd	Revision of SQL		
	3rd	Test -SQL		