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 - 2019

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

Week	Lecture day	TOPIC (including assignment/test)	Day	TOPIC
		Theory		**Practical**
1st	1st	Introduction to database, Introduction to database system, Why database	Group1	Over view, features, function of MS -Access
	2nd	History of data base system Characteristics of the data base approach Advantages and disadvantages of database systems		
	3rd	Conventional file systems, file, record, data, information retrieval	Group2	
		Assignment-database systems with characteristic, Advantages and disadvantages.		
2nd	1st	Comparison between conventional system and Database sys. actors on the scene	Group1	Application developments in MS -Access
	2nd	Database Administrators, Database designers, End user, System analysts and application programs		
	3rd	Workers behind the scene	Group2	
3rd	1st	History of database system Assignment-various actors on and behind the scene	Group1	practice in MS-Access
	2nd	Basic of data models, Physical modal, Object base model, Record base modal		
	3rd	Network modal, Hierarchical modal, Schemas and sub schemas.	Group2	
4th	1st	Database stale, Case study of models and schemas with the help of student information system example	Group1	Exercises on Different forms of select statement.
	2nd	DBMS -three level architecture, external level, conceptual level, internal level, mappings		
	3rd	Database administrator & administration	Group2	
5th	1st	DBMS -Advantages and Disadvantages	Group1	Exercise on Altering and dropping of table
	2nd	Classification of DBMS, DBMS Interface. **Assignment-I**		
	3rd	**Sessional Test-I**	Group2	

6th	1st	Centralized and client/server, Architecture of DBMS Single ,two and three tier	Group1	Exercise on creation of table
	2nd	Data independence, logical data independence, physical data, DBMS language, DBMS interfaces		
	3rd	Classification of DBMS centralized	Group2	
		Assignment centralized and client/server architecture		
7th	1st	Distributed DBMS, Parallel and Object based DBMS	Group1	Exercise on insertion of data in tables
	2nd	Test -chapter 2 database system concept and architecture		
	3rd	Data model-file based models	Group2	
8th	1st	Traditional data models	Group1	exercise on creation of table and insertion of data into table
	2nd	Semantic data models		
	3rd	Entities and attributes	Group2	
9 th	1st	Entity types and entity sets	Group1	Exercise on deletion of data using different conditions
	2nd	Key attributes and domain of attributes		
	3rd	Relations heptagons entities	Group2	
10th	1st	Data base design with E/R model, E/R model (examples)	Group1	exercise on deletion of data using different conditions
	2nd	ER design issues, **Assignment-II**		
	3rd	**Sessional Test-II**	Group2	
11th	1st	Mapping constraints	Group1	Exercise on Update statement
		Assignment-ER model with various design issues		
	2nd	Test -data Model using E.R model	Group2	
	3rd	Basic of Relational Model		
12th	1st	Domain, attributes, tupleslity, cording, keys	Group1	Exercise on Update statement
	2nd	Primary, Secondary foreign, alternate key etc.		
	3rd	Relations	Group2	
		Assignment -Explain Various, concepts related to relational modal		
13th	1st	Introduction to SQL	Group1	Exercise on DDL and DML commands
	2nd	DDL commands		
	3rd	DML command	Group2	
14th	1st	Select command with where clause using conditional and Boolean operators	Group1	Exercise on DDL and DML commands
	2nd	Group by clause, link operator		
	3rd	Insert, update and delete commands	Group2	
15th	1st	DDL and DML commands with syntax	Group1	Exercise on DDL and DML
		Assignment -III		
	2nd	Revision of SQL	Group2	
	3rd	**Sessional-III**		