GOVT. POLYTECHNIC MANDI ADAMPUR
Lesson Plan (DBMS)

Name of the Faculty: Kapil Bhor ria

Discipline: Computer Engg.

Semester: 4th

Subject : DBMS

Lesson Plan Duration: (From Jan, 2018 to April, 2018)

Work Load (Lecture/Practical) per week (In hour): Lecture-03, Practical-03

Week	Lecture Day	Topic(including assignment/Test)	Practical Day	Topic
		Theory		**Practical**
1st	1ST	Database system: Introduction to database system and its purpose. Why Database?	1st(G1)	Overview, features and functionality, Application development in MS Access
	2nd	Introduction of Database system, History of Database system	2nd (G2)	Overview, features and functionality, Application development in MS Access
	3rd	Characteristics of database approach, advantages and disadvantages of database system		
2nd	4th	3rd	3rd (G1)	Revision of overview, features and functionality, Application development in MS Access and checking of files
	5th	Actors on the scene: Database administrators, database designers, End users, system analysts and application programmers	4th (G2)	Revision of overview, features and functionality, Application development in MS Access and checking of files
	6th	Workers behind the scene (DBMS system designers and implementers, tool developers, operator and maintenance personnel		
3rd	7th	Revision of Unit -1 covered	5th (G1)	Exercise on creation of tables
	8th	Pre sessional test of Unit-1 covered	6th (G2)	Exercise on creation of tables

	9th	Data models: (Physical model, object based model, Record based model, network model, Hierarchical model) schemas, subschemas, instances, database state		
4th	10th	Case study of models and schemas (examples student information system	7th (G1)	Revision of exercise on creation of tables and checking of files
	11th	Three levels of Architectures: The external level, conceptual level, internal level	8th (G2)	Revision of exercise on creation of tables and checking of files
	12th	Mappings between three levels of architecture		
5th	13th	Revision of the topics covered of unit -2	9th (G1)	Exercise on insertion of data into tables

	14th	Pre sessional test	10th (G2)	Exercise on insertion of data into tables
	15tH	Concept of centralized and client/server architecture for DBMS: single tier, two tier, three tier		
6th	16th	Logical data independence and physical data independence	11th (G1)	Revision of exercise on insertion of data into tables and checking of files
	17th	DBMS Languages and DBMS interfaces	12th (G2)	Revision of exercise on insertion of data into tables and checking of files
	18th	Classification of database management system: Centralized, Distributed, Parallel and object based		
7th	19th	Revision of Unit-2	13th (G1)	Exercise on different forms of select statement
	20th	Pre sessional test of Unit-2	14th (G2)	Exercise on different forms of select statement
	21st	Data models classification: File based or primitive models, traditional data models, semantic data models		
8th	22nd	Entities and Attributes	15th (G1)	Revision of different forms of select statement and checking of files
	23rd	Entity types and entity sets	16th (G2)	Revision of different forms of select statement and checking of files
	24th	Key attribute and domain of attributes		
9th	25th	Revision of topics covered of Unit-3	17th (G1)	Exercise on altering and dropping of tables
	26th	Pre sessional test	18th (G2)	Exercise on altering and dropping of tables
	27tH	Relationship among entities		
10th	28th	Database design with ER model	19th (G1)	Revision of altering and dropping of tables and checking of files

	29th	ER design issues	20th (G2)	Revision of altering and dropping of tables and checking of files
	30tH	Mapping constraints		
11th	31st	Revision of topics covered	21st (G1)	Exercise on deletion of data using different conditions
	32nd	Pre sessional test	22nd G2)	Exercise on deletion of data using different conditions

	33rd	Relational model concepts		
12th	34th	Domain, attributes, tuples, cardinality	23rd (G1)	Revision of deletion of data using different conditions and checking of files
	35th	Keys (Primary, secondary, foreign, alternative keys)	24th (G2)	Revision of deletion of data using different conditions and checking of files
	36th	Relations		
13th	37th	Revision of Unit -4	25th (G1)	Exercise on update statement
	38th	Pre sessional test	26th (G2)	Exercise on update statement
	39th	Data definition language		
14th	40th	Create, alter, drop commands	27th (G1)	Revision of update statement and checking of files
	41st	Data manipulation language	28th (G2)	Revision of update statement and checking of files
	42nd	Select Command with where clause using conditional expressions		
15th	43rd	Select statement with where clause using Boolean operators	29th (G1)	Viva of practical no. 1 to 3
	44th	Select command with group by clause and like operator	30th (G2)	Viva of practical no. 1 to 3
	45th	Insert Command		
16th	46th	Update and delete commands	31st (G1)	Viva of practical no 4 to 6
	47th	Revision of Unit 5	32nd(G2)	Viva of practical no 4 to 6
	48th	Test of Unit 5		