SARDAR PATEL UNIVERSITY Programme: BBA (Information Systems Management) Semester: IV Syllabus with effect from: December 2013

Paper Code: UM04CBBS09	
Title Of Paper: Data Base Management System	Total Credits: 3
(Effective from: December 2013) (Revised)	

Unit	Description in detail	Weightage (%)
1	Database Management System: Basic concepts, Data, Information, Field,	25 %
	Record, Database File, Advantages and Disadvantages of DBMS, Organization	
	of DBMS, Components of DBMS, Structure of DBMS, Database Life Cycle	
	Primary Key , Foreign Key	
2	Data Models & Relational Database: Data Model, E-R Modeling	25 %
	Entity, Attribute, Relationship & Types, Mapping cardinality,	
	Membership class of the entity type, Rules of Drawing ER Model	
	Relational Data Model: Concept, Example, Advantages, Disadvantages	
	Normalization: 1NF, 2NF, 3NF	
	Difference between Conventional DBMS and RDBMS, Codd Rules.	
3	SQL:	25 %
	Introduction to SQL, Data Types	
	Built in Char, Varchar, Varchar2, number, date, raw, long, lob, etc.	
	CREATE TABLE (without constraints), INSERT, UPDATE, DELETE	
	SELECT (simple, with form & where clause), DROP table	
	SELECT * from Tab, DESC	
	ALTER TABLE (add/modify columns), SPOOL,	
	NULL values, Primary Key, Foreign Key	
	Unique Constraint, Check Constraint	
	Use of USER_CONSTRAINTS, Constraints in CREATE TABLE	
	ALTER TABLE to add/remove constraints	
4	SQL Functions and Pattern Matching:	25 %
	Range Searching and Pattern Matching,	
	Arithmetic Operators,	
	Relational operators	
	Logical Operators,	
	IN, LIKE , BETWEEN,	
	Group functions:	
	Having Group By Clause:	
	AVG, MIN, MAX, COUNT, SUM - Numeric Functions	
	ABS, POWER, ROUND, TRUNC, SQRT - Character Functions	
	UPPER, LOWER, INITCAP, LENGTH, SUBSTR, LPAD, RPAD, LTRIM,	
	RTRIM - Date Functions	
	ADD_MONTHS, LAST_DAY, MONTHS_BETWEEN - Addition and	
	Subtraction of dates, - Conversion Functions	
	TO_NUMBER, TO_CHAR, TO_DATE - Number and date format models	

Basic Text & Reference Books:

➢ Oracle Developer 2000 by Ivan Bayross, BPB Publishers.

