SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2021-2022

(B.A.) (Arts)
(B.A.) (Programme Name) Semester (II)

Course Code	UA02GCAP52	Title of the Course	Data Base Management System (DBMS)
Total Credits of the Course	4	Hours per Week	4 (Theory) + 2 (Practical per Batch)

Course Objectives:	1. To impart knowledge on the fundamentals of DBMS. 2. To learn the basics of data manipulation in DBMS through SQL. 3. To acquire knowledge on creating and customizing Forms and Rerports.

Course Content		
Unit	Description	Weightage * (%)
1.	**Introduction DBMS:** Concepts of Data Processing – An Important Aspect of any Business, Data and Information, Data / Information Processing and Databases, Data Types, Data Representation, Data Size, Relationship. **Data Organization and Grouping:** Character, Field, Record, File, Database, Objectives of DBMS, Components of DBMS, Types of Databases.	25%
2.	**Introduction to DBMS Package (Microsoft Access - 2010):** Introduction of Microsoft Access database, creating a database (Using Wizard, & Design) and Objects, Fields and data types, creating a table, Field Properties, Save and Close a Table, Add and Save Records, Edit Records and Close a Table, modify fields in a Table,ModifyColumnsandRowsinDataSheet,ValidationRuletoaFieldandIts Various Properties.	25%
3.	**Data Manipulations in DBMS Through SQL:** Introduction of SQL, Creating, Modifying and Saving a Query, Insertion of data into a Table (INSERT), Modify the Contents of a Table (UPDATE), Display Records from a Table (SELECT), Remove Records from a Table (DELETE), Ordering and Filtering Records of a Table, Use of Relational (Comparison), Operators (<,>, <=, >=, #, <>) and Logical Operators (AND, OR, NOT) in Query. **Use of Aggregate (Group) Functions:** AVG(), COUNT(), MAX(), MIN(), SUM(), **Character Functions**: LCASE(), UCASE(), LEN(), STR(), MID(), LEFT(), RIGHT(), **Date Functions**: DATE(), HOUR(), DAY(), MONTH(),YEAR().	25%

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4.	**Creating and Customizing Forms and Reports** Introduction of Form, Creation with Form Wizard, View, Add, Delete and Save Records, Save and Close a Form, Change Form Design, Select, Resize, Move and Delete controls, Change Fonts, Size and Color of Text, showing data from more than one table, Introduction of Report, create a report, Preview, print and save a report, Report in design view Types of Reports and Forms.	25%

Teaching-Learning Methodology	Theory (50%) + Practical (50%) Practical: Practical are based on above cited units. Two hours practical work per week per batch.

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learnerwill be able to	
1.	•To understand the concept of DataBase. •To understand Fields, Records and Files.
2.	•Create database using Access. • ToUnderstand various types of Fields and its Properties.
3.	•Understand Structured Query Language and its various statements. • Students can work with SQL statements using Database.
4	• Student will able to create reports using Database.

Suggested References:	
Sr. No.	References

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1.	Microsoft Access 2010: Step by Step by Lambert & Cox,PHI
2.	Microsoft Database Management System, Seema Kedar, TechnicalPublications
3.	Database Management System, Gerald V Post, Tata McGrawHill
4.	The Essence of Database, F. D. Rolland,Pearson
5.	Database Management System, Dr. Vimal Pandya, NiravPrakashan

On-line resources to be used if available as reference material
On-line Resources
https://www.youtube.com/watch?v=T5TYdcsXXVY
https://www.youtube.com/watch?v=K3TF6fmx7jw

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