

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

(BCom) (Business Studies)(Semester -II

Course Code	UB02DCOM84	Title of the Course	Computer Applications-IV
Total Credits of the Course	03	Hours per Week	03 + 02 Practical per Batch
Course Objectives:	 To develop Computer s business. Computer s Communic To develop purpose. Computer s 	velop computer skill in commerce students. uter skill helps commerce students to meet the needs of modern ss. uter skilled students can efficiently use Information and nunication Technology as modern businesses are highly rely on it. velop the skill to use DBMS for business, commercial and financial se.	

Course Content		
Unit	Description	Weightage* (%)
1.	Data Processing and Data Model: Concepts of Data Processing – An Important Aspect of any Business, Limitation of Manual Data Processing. Data and Information, Data / Information Processing and Databases, Data Types. File system, Disadvantage of File system, Database system, Data Model (Hierarchical, Network, Relational, Object oriented). Advantage and disadvantage of each Data Model.	25%
2.	Introduction to DBMS:: Character, Field, Record, File, Table, Database, Types of Databases, Database Management system, Objectives of DBMS, Components of DBMS, Advantages and Disadvantages of Database Management System Normalization: Normalization, First, Second, Third Normal form, BCNF 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, Modify Columns and Rows in Data Sheet, Validation rule to a Field and Its Properties, Primary key, Foreign key, Relationship between table, types of relationship, Import – Export from other file format.	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(),	25%



	UCASE(), LEN(), STR(), MID(), LEFT(), RIGHT(), Date Functions: DATE(), HOUR(), DAY(), MONTH(), YEAR().	
4.	Creating and Customizing Forms, Reports, Labels: 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. Create Label.	25%

Teach Learn Metho	Teaching- Learning MethodologyTheory (50%) + Practical (50%) Practical : Practical are based on above Units.(Weightage 50%) - periods per week per batch.		Two Practical
Evalu	ation Pattern		
Sr. No.	Details of the Evaluation		Weightage
1.	Internal Wri	Internal Written / Practical Examination (As per CBCS R.6.8.3)	
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)		
3.	University Examination Theory (50%) + Practical (50%)		70%

Cou	rse Outcomes: Having completed this course, the learner will be able to
1.	• Understand database concepts and structures and database models.
2.	• Analyse the basic elements of a relational database management system.
3.	• Design entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the respect data into RDBMS and formulate SQL queries on the data.
4.	Create and customize Forms and Reports.

Suggested References:	
Sr. No.	References
1.	Data base Management Systems, Raghu Ramakrishnan, Johannes Gehrke, McGraw Hill Education (India) Private Limited, 3rd Edition.
2.	Introduction to Database Systems, C.J.Date, Pearson Education



On-line resources to be used if available as reference material :

On-line Resources:

https://onlinecourses.nptel.ac.in/noc18_cs15/preview

http://nptel.ac.in/courses/106106093/

http://nptel.ac.in/courses/106106095/

Video Source:

https://www.youtube.com/watch?v=EUzsy3W4I0g https://www.youtube.com/playlist?list=PL52484DF04A264E59

