SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

[M.S.]

Faculty of Commerce and Management

Revised Curriculum based on the

Choice Based Credit System (CBCS Pattern)

w.e.f. 2020-21

Name of the Programme:

Bachelor of Commerce (Computer Application)

Programme Code**: B.Com. (CA) at**

Dayanand College of Commerce, Latur

Curriculum of

B.Com. Second Year-UGC Vocational course- Computer Application
Effective from Academic Year 2020-2021

Class	Semester	Subject Code	Subject	Continuous Assessment (CA)	End of Semester Exam ESE	Total Marks	Total Credit
B.com II	Semester - III	CA- V	Computer Application –V (Introduction to Tally ERP 9.0)	25	75	100	4
		CA- VI	Computer Application –VI (Object Oriented Programming Using C++)	25	75	100	4
	Semester - IV	CA- VII	Computer Application –VII (Introduction to RDBMS Through ORACLE)	25	75	100	4
		CA- VIII	Computer Application –VIII (Introduction to PHP)	25	75	100	4

Name of the Programme	B.Com (CA)
Semester	III Semester
Name of Course	Computer Application –V (Introduction to Tally ERP 9.0)
Course Code	CA-V
Total Periods	54

Objective of the paper;

- To develop awareness about computerized accounting.
- To learn Basics of Accountancy and its principles.
- To understand the concept, process and importance of financial accounting
- To create ability to work with the Tally.

Course inputs;

1. Introduction to Financial Accounting **10 Periods**

Introduction: Financial Accounting-definition and Scope, objectives of Financial Accounting, Accounting v/s Book Keeping Terms used in accounting, Users of accounting information and limitations of Financial Accounting. Accounting Concepts, Types of Accounts, Accounting Principles or concepts , Mode of Accounting, Rules of Accounting, Double entry system of book Keeping

2. Introduction of Tally **10 Periods**

Need of computerised accounting, accounting software package-Tally and its advantages, opening screen of Tally. Basic features of tally, Company creation for the sole trader, partnership, no trading organization and Accounts creation in tally.

3. Basic accounts and Traders accounts **14Periods**

Company creation, group, ledger, voucher entry, single mode voucher entry, accounts voucher printing , daybooks summaries, Trial balance, final accounts, report printing , Customer suppolier, profile, sales purchase Voucher entry, bills register, sale purchase Summary, bill reference, outstanding reports.

4. Advanced Financial Accounts **10 Periods**

Advanced accounting features, cost category And cost centre, voucher types and classes,Bank reconciliation, budget and scenarios ,Voucher class, foreign currency

5. Basic Inventory **10 Periods**

Inventory master, Inventory Voucher, invoicing Inventory reports, Invoice register, sales purchase analysis, stock journal reports

Reference books

1. Implementing Tally 9 ---- Asok k nadhani Kisor k nadhani(Bps)
2. Implementing Tally 7.2—(Bps)

Name of the Programme	B.Com (CA)
Semester	III Semester
Name of Course	Computer Application –VI (Object Oriented Programming Using C++)
Course Code	CA-VI
Total Periods	54

Objective of the paper;

- To understand the concept of Object Oriented Language.
- To impart the computer programming language through C++.
- To Understand the Concept of Class, Object, Inheritance ,Polymorphism.

Course inputs:

1. Introduction to OOP **05 Periods**

Object Oriented Programming, Basic Concepts of OOP's, Benefits of OOP's.

2. Introduction to C++ **15 Periods**

Tokens, Keywords, Identifiers, Data Types, Constants, Variables, Operators, Operator precedence and associatively, I/O statements, Structure of C++ Program, Control and Looping Statements, Arrays, Pointers, Function, Function Prototype, Inline function, Default arguments, Function overloading.

3. Class and Object **12 Periods**

Define Class, Members functions , Object, Array of Data member, array of object Visibility modes, Static data Members, static member function, Friend functions, Constructor, types of constructer and Destructor

4. Operator Overloading and Type Conversions **12 Periods**

Concept of Operator Overloading, Unary and Binary operator overloading, operator overloading by member function and by using friend function, Rules for operator overloading, Type conversions- Basic to class, Class to basic, Class to Class

5. Inheritance and Polymorphism **10 Periods**

Concept of Inheritance, Types of Inheritance-Single, Multilevel, Multiple, hierarchical, Hybrid ,Introduction to Polymorphism ,Types of Polymorphism, Rules for virtual functions

Reference Books

1. Object Oriented Programming With C++ - By E. Balgurusamy
2. Object Oriented Programming in C++ - By Yashawant Kanetkar
3. C++ Comleted Reference- By H. Sheild

Name of the Programme	B.Com (CA)
Semester	IV Semester
Name of Course	Computer Application –VII (Introduction to RDBMS Through ORACLE)
Course Code	CA-VII
Total Periods	54

Objectives of the paper:-

- To impart the knowledge of basic concept of Data Base Management System.
- To develop SQL queries for Manage the data

Course inputs:

1. Introduction and Basic Concepts **14 period**

Structure of DBMS, Users of DBMS, Advantages and Disadvantages of DBMS. Relational Database: Attributes and domains, tuples relations and their schemes.

2. Interactive SQL **10 period**

Oracle and Client server technology, Data manipulation in DBMS, The component parts of Two dimensional matrix, The data types, DDL , DML, DCL statements

3. Table creation and manipulation **10 period**

Two dimensional matrix creation, Insertion of data into tables, viewing data in the tables, deletion operation, updating the contents of tables, modifying the structure of tables, renaming tables, destroying tables.

4. Manipulation of Data **10 period**

Computation on table data, oracle dual table, sysdate, oracle functions. Grouping of data form tables, Manipulating dates, Subquries, Study of the clauses : Union, Intersect, Minus.

5. SQL Performance Tuning **10 period**

Indexes, RowID, Views, Sequences.

Reference Books:-

1. An Introduction to Database Systems By Bipin C Desai. Golgotia Publication
2. SQL, PL/SQL The Programming language of ORACEL 2ed Edition By Ivan Bayross (BPB)..

Name of the Programme	B.Com (CA)
Semester	IV Semester
Name of Course	Computer Application –VIII (Introduction to PHP)
Course Code	CA-VIII
Total Periods	54

Objective of the paper;

- To gain the PHP programming skills needed to successfully build interactive, data-driven sites.
- To Work with regular expressions, handle exceptions, and validate data.
- To develop Static websites or Dynamic websites or Web applications.

Course inputs:

1. Introduction to PHP **10 period**

Basic Syntax, Sending Data to the Web Browser, Understanding PHP, HTML, and White Space, Writing Comments,What Are Variables?About Strings, About Numbers, About Constants.

2. Programming with PHP **10 period**

Creating an HTML Form, Handling an HTML Form ,Managing Magic Quotes Conditionals and Operators ,Validating Form Data. What Are Arrays?, For and While Loops.

3. String Manipulation and Regular Expression **10 period**

Creating and accessing String, Searching & Replacing String Formatting, joining and splitting String, String Related Library functions Use and advantage of regular expression over inbuilt function.

4. Creating Dynamic Web Sites **10 period**

Including Multiple Files, Handling HTML Forms with PHP Redux, Making Sticky Forms, Creating and Calling Your Own Functions, Variable Scope, Date and Time Functions, Sending Email

5. Using PHP with MySQL **14 period**

Connecting to MySQL and Selecting the Database, Executing Simple Queries, Retrieving Query Results, Ensuring Secure SQL, Counting Returned Records, Updating Records with PHP, Cookies and Sessions-Using Cookies, Using Sessions, Sessions and Cookies, Improving Session Security

Reference Books:

1. PHP and MySQL for Dynamic Web Sites: Visual Quickpro Guide, Second Edition by Larry Ullman
2. Programming PHP By Rasmus Lerdorf, Kevin Tatroe, Peter acIntyre