

Scheme of B.Com. (Computer Application)

Year	Course Code	Subject Name	Theory/ Practical	Total Credit	Total Marks	
					Max	Min
First	BCOMCA-1T	Computer Fundamental and Information Technology	Theory	4	50	17
	BCOMCA -2T	PC Software and Multimedia	Theory	4	50	17
	BCOMCA-1P	LAB 1: PC Software and Multimedia	Practical	2	50	17
Second	BCOMCA-3T	E-Commerce	Theory	4	50	17
	BCOMCA-4T	Computerized Accounting with Tally	Theory	4	50	17
	BCOMCA-2P	LAB 2: Tally	Practical	2	50	17
Third	BCOMCA-5T	Programming in Visual Basic	Theory	4	50	17
	BCOMCA-6T	Relational Database Management System	Theory	4	50	17
	BCOMCA-3P	LAB 3: Visual Basic and RDBMS	Practical	2	50	17
Total				30	450	

Note: There shall be four extra credits in all the years of under graduation for internship/apprenticeship. The certificate of extra credits would be provided by the concern university and is not mandatory.



Part A: Introduction

Program: Degree Course		Class: B.Com III Year-CA	Year: 2022	Session: 2022-2023
1.	Course Code	BCOMCA-5T		
2.	Course Title	Programming in Visual Basic		
3.	Course Type	Theory		
4.	Pre-requisite (if any).	No		
5.	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none"> • Understand the concept of user-friendly language. • Understand the concept of data-driven program execution flow control in Visual Basic programming. • Design, create, build, and debug Visual Basic applications. • Explore Visual Basic's Integrated Development Environment (IDE). • Implement syntax rules in Visual Basic programs. • Explain variables and data types used in program development. • Apply arithmetic operations for displaying numeric output. • Write and apply decision structures for determining different operations. • Write and apply loop structures to perform repetitive tasks. 		
6.	Credit Value	Theory : 4		
7.	Total Marks	Max Marks: 50	Min Passing Marks : 17	

Part B: Content of the Course

Total Periods: 30

Unit	Topics	No. of Periods
I	Introduction to Visual Basic Introduction Graphical User Interface (GUI), Programming Language (Procedural, Object Oriented, Event Driven), The Visual Basic Environment, How to use VB compiler to compile / debug and run the programs. Variables, Constants, and Calculations Variables, Variables Public, Private, Static, Constants, Data Types, Naming rules /conventions, Constants, Named & intrinsic, Declaring variables, Scope of variables, Val Function, Arithmetic Operations, Formatting Data.	12
II	Decision & Conditions If Statement, If then-else Statement, Comparing Strings, Compound Conditions (And, Or, Not), Nested If Statements, Case Structure, Using If statements with Option Buttons & Check Boxes, Displaying Message in Message Box, Testing whether Input is valid or not. Using Call Statement to call a procedure. Arrays Single-Dimension Arrays, Initializing an Array using for Each, User-Defined Data Types, Accessing Information with User-Defined Data Types, Using List Boxes with Array, Two dimensional arrays.	12
III	Introduction to VB Controls Textboxes, Frames, Check Boxes , Option Buttons, Images, Setting a Border & Styles, The Shape Control, The line Control, Working with multiple controls and their properties, Designing the User Interface, Keyboard access, tab controls, Default & Cancel property, Coding for controls. Menus, Sub-Procedures and Sub-functions Defining / Creating and Modifying a Menu, Using common dialog box, Creating	12

	a new sub-procedure, Passing Variables to Procedures, Passing Argument ByVal or ByRef, Writing a Function Procedure	
IV.	<p>Multiple Forms Creating, adding, removing Forms in project, Hide, Show Method, Load, Unload Statement, Me Keyword, Referring to Objects on a Different Forms,</p> <p>List, Loops and Printing List Boxes & Combo Boxes, Filling the List using Property window / AddItem Method, Clear Method, List box Properties, removing an item from a list, List Box/ Combo Box, Do/Loops, For/Next Loops, Using MsgBox Function, Using String Function, Printing to printer using Print Method,</p>	12
V.	<p>DATA BASE PROGRAMMING IN VB</p> <p>Data Control and Data Connectivity: - Concept of DAO, RDO, ADO, using the ADO data control, ADO data control properties, binding simple controls: Data list, data combo, Data Grid, Data Form Wizard: single form wizard, Grid form, master/Detail form. Programming the ADO data control: Refresh method, Event, Hierarchical flex Grid control.</p> <p>Data Environment & Data Report: Creating connection, using command object in the data Environment, Data Environment option and operation, Binding Form to the data Environment, ADO Events in the Data report, Print Preview, Print, Export, Data report in code: Data reports Events, Binding data reports directly.</p>	12
Keywords: GUI, ARRAY, Form Controls, Data Controls, ADO,RDO,DAO		

Part C - Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. Introduction to OOPS & VB : By V.K. Jain, Vikas Publishing House.
2. Database Programming VB 6 : By B.P.B. Publication.
3. Visual Basic 6.0 Complete”, Steve Brown,”Complete Idiot’s Books.
4. Front End Development using Visual Basic”, Dr. S.B. Kishor, Das, Ganu Prakashan,
5. Mastering Visual Basic 6 “,Evangelos Petroustos BPB.

E Resources:

Programming in Visual Basic:

1. https://www.youtube.com/playlist?list=PLcZgBCY7duW9H_-jOI5vdRptAHwZYShwr

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50

Continuous Comprehensive Evaluation (CCE): As per rule

University Exam(UE): 50 Marks

Internal Assessment:


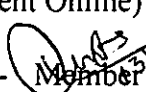


Continuous Comprehensive Evaluation (CCE)

Class Test/Assignment/Presentation

As per rule

Declaration

The syllabus of this subject is framed as per the TOR provided by the department of higher education, Chhattisgarh.

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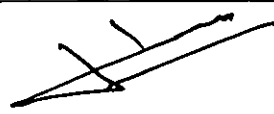
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Part A: Introduction			
Program: Degree Course		Class: B.Com III Year-CA	Year: 2022
		Session:2022-2023	
1.	Course Code	BCOMCA-6T	
2.	Course Title	Relational Database Management System	
3.	Course Type	Theory	
4.	Pre-requisite (if any)	No	
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> Learn about Database Concepts, Architecture, various Users, Data Models and Data Management which helps them to interact with various Databases. Develop various Tables and Databases which helps them to develop new Software. Practice various SQL commands which help them to generate new relationships among various Tables and Databases which are useful for Software Development. Familiar about RDBMS Software like Oracle and SQL Server which are used as Backend for Software Development. Develop new Databases for their Minor and Major Project Development which enhances their Data Storage, Data Accessibility and Data Management. 	
6.	Credit Value	Theory : 4	
7.	Total Marks	Max Marks: 50	Min Passing Marks : 17

Part B: Content of the Course		
Total Periods: 60		
Unit	Topics	No. of Periods
I	Overview of Database Management: Data, Information and Knowledge, Data Processing versus Data Management, File Oriented Approach versus Database Oriented Approach, Data Independence, Database Administration Roles, Overview of Database, DBMS Architecture, Different kinds of DBMS users, Introduction to Data Dictionary. Data Models: Network Model, Relational Model, Hierarchical Model. Database Languages: DDL, DML, DCL, And TCL. Structured Query Language: Basic Data Types, Commands : Create, Insert, Select, Delete, Truncate , Drop, Alter, Grant ,Revoke, Commit, Rollback, Queries on Multiple Relation, Join Operation, String Operation, Set Operation, Grouping, Nested Subqueries.	12
II	Concepts of Database Management System : Definition of Tables, Cardinality relationships in a Database, Constraints in a Database, Entity, Attributes, Strong and weak entities, ER-Diagram, Symbols and Implementation, Concept of keys: Candidate key, Primary key, Alternate key, Foreign key, Case studies of ER modeling Generalization, Specialization and Aggregation. Converting an ER model into relational Schema. Extended ER features.	12
III	Relational Database Design: Normalization concept in logical model, Pitfalls in database design, Functional dependencies, Join dependencies, Natural Join, Normal forms (1NF, 2NF, 3NF). Boyce Codd Normal form, Decomposition,	

	Multi-Valued Dependencies, 4NF, 5NF. Issues in physical design: Concepts of indexes, File organization for relational tables, De-normalization. Relational Database: Structure of Relational Database, Schema, Relational Operation: Selection, Projection, Cartesian Production, Union, Intersection and Minus operation. Relational Algebra: Select operation, Project operation, Union operation, Cartesian Product operation, Intersection operation, Join operation, Different types of joins (Inner join, Outer join, Self join).	12
IV.	SQL Server Basics: Microsoft SQL Server 2019, Overview of SQL Server 2019, Versions of SQL Server, Installation of SQL Server 2019, SQL Server Management Studio(SSMS), Azure Data Studio(ADS), Features of SQL Server Express, SQL Server Support Life Cycle, Data Definition Language (DDL) Commands, Data Manipulation Language (DML) Commands, Data Control Language (DML) Commands, Transaction Control Language (TCL) Commands, Data Constraints, Stored Procedure, Function .	12
V.	Oracle Basics: Oracle Corporation, Versions of Oracle, Oracle Products, Oracle Installation, Oracle Client and Server Products, Online Transaction Processing, Hybrid cloud Installation, Data Definition Language (DDL) Commands, Data Manipulation Language (DML) Commands, Data Control Language (DML) Commands, Transaction Control Language (TCL) Commands, Data Constraints, Introduction to PL/SQL Programming, Data Types, Looping Statements, Cursors, Stored Procedure, Function .	12
Keywords: Data Models, Keys, SQL Commands, DBMS, RDBMS, Oracle, SQL Server.		

Part C - Learning Resources	
Text Books, Reference Books, Other Resources	
Suggested Readings:	
<ol style="list-style-type: none"> 1. Database system concept, H. Korth and A. Silberschatz, TMH Publications. 2. Data Base Management System, Alexies & Mathews, Vikash publication. 3. Data Base Management System, C. J. Date ,Narosha Publication. 4. Data Base Management System By James Matin. 5. Principles of Database System By Ullman. 6. Program Design, Peter Juliff, PHI Publications. 7. The Complete Reference, Kevin Loney, Oracle Press. 8. SQL, PL/SQL The Programming Language of Oracle, Ivan Bayross , PustakKosh Publication. 9. Microsoft SQL Server Management and Administration, Ross, STM Publications. 	
E Resources:	
<ol style="list-style-type: none"> 1. SWAYAM URL link for DBMS and RDBMS: https://youtu.be/f6LGtJutWyA 2. SWAYAM URL link for DBMS and RDBM: https://youtu.be/IoL9Ve2SRwQ 3. SWAYAM URL link for DBMS and RDBMS: https://swayam.gov.in/courses/4434-data-base-management-system. 4. Introduction of DBMS: https://onlinecourses.swayam2.ac.in/cec19_cs05/preview 5. Introduction of RDBMS: https://onlinecourses.nptel.ac.in/noc19_cs46/preview 6. DMBS Contents from W3SHOOL: https://www.w3schools.in/dbms/intro 7. Data independence from W3SHOOL: https://www.w3schools.in/dbms/data-independence 	



8. Generalization and Aggregation: <https://www.w3schools.in/dbms/generalization-aggregation>
 9. DMBS Contents from Javatpoint: <https://www.javatpoint.com/dbms-tutorial>

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50

Continuous Comprehensive Evaluation (CCE): As per rule

University Exam(UE): 50 Marks

Internal Assessment:

Continuous Comprehensive Evaluation (CCE)

Class Test/Assignment/Presentation

As per rule

Declaration

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17.06.22

13. Dr. Ugrasen Suman
Prof. and Head, Dept. of Computer Science
Devi Ahila Vishwavidyalaya, Indore

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(Present Online)

Date: 13.06.2022.

Part A: Introduction			
Program: Degree Course		Class: B. Com III Year- CA	Year: 2022
		Session:2022-2023	
1	Course Code	BCOMCA-3P	
2	Course Title	LAB 3: Visual Basic and RDBMS	
3	Course Type	Practical	
4	Pre-requisite (if any)	Basic Knowledge of SQL	
5	Course Learning Outcomes (CLO)	<p>At the end of course, Students will be able to:</p> <ul style="list-style-type: none"> • Understand the concept of user-friendly language. • Understand the concept of data-driven program execution flow control in Visual Basic programming. • Learn about Database Concepts, Architecture, various Users, Data Models and Data Management which helps them to interact with various Databases. • Develop various Tables and Databases which helps them to develop new Software. • Practice various SQL commands which help them to generate new relationships among various Tables and Databases which are useful for Software Development. • Familiar about RDBMS Software like Oracle and SQL Server which are used as Backend for Software Development. • Develop new Databases for their Minor and Major Project Development which enhances their Data Storage, Data Accessibility and Data Management. 	
6	Credit Value	Practical: 2	
7	Total Marks	Max. Marks: 50	Min Passing Marks: 17

Part B: Content of the Course	
Total Periods: 30	
Tentative Practical List	<p>Note: This is tentative list; the teachers concern can add more program as per requirement.</p> <p style="text-align: center;">RDBMS</p> <ol style="list-style-type: none"> 1. Design an employee table in Oracle/SQL Server having eid (primary key) ename, edesignation, edoj, edob, eaddress, salary, econtact as fields and answer the following questions: <ol style="list-style-type: none"> a) Insert five records in above created table. b) Display all five records. c) Delete the fourth record. d) Update the third record of field ename as 'hari'. e) Add one new field in the table. 2. Design a salary table Oracle/SQL Server with one primary key and foreign key(employee table) having following fields : Month, working days, deptid, gross, incentive, deduction and net salary. <ol style="list-style-type: none"> a) Insert five records in above created table. b) Display all five records. c) Use foreign key relation and display records.



- d) Update the second record of field deptid as 'Sales '.
- e) Add one new field in the table.
3. Create a new user in Oracle/SQL Server.
 4. Create a view in Oracle/SQL Server.
 5. Create a new table in Oracle/SQL Server and practice for join operation.
 6. Create a new user in Oracle/SQL Server and practice for commit and rollback command.
 7. Create a new database in Oracle/SQL Server having atleast five tables for Hotel Management System.
 8. Create a new database in Oracle/SQL Server having atleast four tables for Covid Vaccination Management System.
 9. Create a new database in Oracle/SQL Server having atleast five tables for Library Management System.
 10. Create a new table in Oracle/SQL Server and practice for Group by and Order by Clause.
 11. Create a new table in Oracle/SQL Server and practice for max(), min(), avg() and count() functions.
 12. Create a new table in Oracle/SQL Server and practice for lower(), substr(),trim() and upper() functions.
 13. Create a new table in Oracle/SQL Server and practice for unique and check constraint.
 14. Create a new table in Oracle/SQL Server and practice for any two date formats.
 15. Create a new table in Oracle/SQL Server and practice for using clause.
 16. Create a new table in Oracle/SQL Server and practice for having clause with sub queries.
 17. Create a new table in Oracle/SQL Server and practice for alias in any table.
 18. Create a new table in Oracle/SQL Server and practice for inner and outer join.
 19. Create a new table in Oracle/SQL Server and practice for Drop command.
 20. Write a PL/SQL program for addition of two numbers .
 21. Write a PL/SQL program to find the factorial value of any entered number.
 22. Write a PL/SQL program for swapping of two numbers.
 23. Write a PL/SQL program to print first ten Natural Numbers.
 24. Write a PL/SQL program to generate even series upto five digits starting from 2 and sum all the terms.
 25. Write a PL/SQL program to practice for implicit and explicit cursor.

Visual Basic

26. WAP to perform arithmetic operation using command buttons. (Declare variables globally).
27. WAP to take input of principal, rate & time and calculate simple interest & compound interest.
28. Write a program to take input of x and print table of x in the following format.

$$X * 1 = X$$

$$X * 2 = 2X$$

$$X * 10 = 10*X$$
29. Write a program to check whether a centered no. is prime or not. (Using for loop & Exit



	for) 30. Write a program which will count all vowels, consonants, digits, special characters and blank spaces in a sentence (Using select case)
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Part C - Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. Database system concept , H. Korth and A. Silberschatz, TMH Publications .
2. Data Base Management System, Alexies & Mathews, Vikash publication.
3. Data Base Management System, C. J. Date ,Narosha Publication.
4. Data Base Management System by James Matin.
5. Principles of Database System by Ullman.
6. Program Design, Peter Juliff, PHI Publications.
7. The Complete Reference, Kevin Loney, Oracle Press.
8. SQL, PL/SQL The Programming Language of Oracle, Ivan Bayross , PustakKosh Publication.
9. Microsoft SQL Server Management and Administration, Ross, STM Publications.

E-Resources:

1. SWAYAM URL link for DBMS and RDBMS:
<https://youtu.be/f6LGtJutWyA>
2. SWAYAM URL link for DBMS and RDBM:
<https://youtu.be/loL9Ve2SRwQ>
3. SWAYAM URL link for DBMS and RDBMS :
<https://swayam.gov.in/courses/4434-data-base-management-system>

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50

Continuous Comprehensive Evaluation (CCE): Not Applicable

University Exam(UE): 50 Marks

Internal Assessment:

Continuous Comprehensive Evaluation (CCE)

Class Test/Assignment/Presentation

Not Applicable

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- Chairman


13.06.2022

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