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.



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Part A: Introduction				
Program: **Certificate Course**		Class: **B. Com I Year- CA**	Year: **2022**	Session:**2022-2023**
1	Course Code	**BCOMCA-1T**		
2	Course Title	**Computer Fundamentals and Information Technology**		
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: • Understand the history and types of computers and various input/output devices. • Understand the concept of memory and its types. • Understand the basic components and storage of computer system.. • Understand the concept of software and computer languages. • Understand the concept of information technology.		
6	**Credit Value**	**Theory: 4**		
7	**Total Marks**	**Max. Marks: 50**	**Min Passing Marks: 17**	

Part B: Content of the Course		
Total No. of Periods: 60		
Unit	**Topics**	**No. of Periods**
I	**Fundamental of Computer**: History of computer, Generation of computer, Types of Computers, Block diagram of CPU, Digital and Analog computers and its evolution. Major components of digital computers, types of digital computers, Microprocessors, Single chip Microcomputer, Large and small computers, Users interface, hardware, software and firmware, multiprogramming, multiuser system, Dumb smart and intelligent terminals, **Number system & Computer Codes:** Number systems: Decimal number system. Binary number system. Octal and Hexadecimal number system. 1's and 2's complement. Codes: ASCII, EBCDI codes, gray code and BCD.	12
II	**Computer Peripherals:** Introduction to Input Devices: Categorizing Input Hardware, Keyboard, Direct Entry- Card Readers Scanning Devices - O.M.R. Character Readers, Thumb Scanner, MICR Smart Cards, Voice Input Devices Pointing Devices - Mouse Light Pen, Touch Screen. Computer Output Devices: Output Fundamentals, Hardcopy Output Devices, Impact Printers, Non-Impact Printers, Plotters, Computer output Microfilm/Microfiche (COM) System, Softcopy Output Devices, Cathode Ray Tube, Flat Screen Technologies, Projectors, Speakers	12
III	**Basic Components and Storage**: Central Processing Unit: The Microprocessor, control unit, A.L.U., Registers, Buses, Main Memory, Main Memory (RAM) for microcomputers, Read Only Memory (ROM). Storage Devices: Storage Fundamentals, Primary and Secondary Storage, Data Storage and Retrieval Methods – Sequential, Direct & Indexed Sequential, Tape Storage and Retrieval Methods Tape storage Devices, characteristics and limitations, Direct access Storage and Microcomputers - Hard Disks, Disk Cartridges, Direct Access Storage Devices for large Computer systems, Mass storage systems and Optical Disks, CD ROM.	12
IV	**Computer Software and languages:** System Software: System software Vs. Application Software, Types of System Software, Introduction and Types of Operating Systems, Boot Loader, Diagnostic programs, BIOS, Utility Programs,	12

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	Application Software: Microcomputer Software, Interacting with the System, Trends in PC software, Types of Application Software, Difference between Program and Packages. Computer Language: Definition, Generations of Computer languages, Types of Languages, Language Processors: Assembler, Interpreter, Compiler, Linker and Loader, Programming constructs, Algorithm and flowchart.	
V	**Information Technology:** Concept of IT and information system, Application of IT (In Business, Education Medicine Science Governance and Agriculture) Impact of IT on society and industry, Legal and Ethical aspect of IT, Security and Threats in IT, M-Commerce, Virtual reality, latest trend in IT, future of IT.	12

Keywords: Computer, Input /Output Devices, Memory, Software and Computer Languages, IT.

Part C - Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. Computer Fundamentals, P.K. Sinha, BPB Publication, Sixth Edition.
2. Fundamentals of Computers, V. Rajaraman, PHI Sixth Edition.
3. Computer Fundamentals Architecture and Organization, B. Ram, New Age International Publishers, Fifth Edition.
4. Fundamentals of Information Technology, Chetan Shrivastava, Kalyan Publishers.
5. Computers Today, Suresh K. Basandra, Galgotia Publications.
6. Fundamentals of Information Technology, Alexis Leon and Mathews Leon, Vikash Publication.

E-Resources:

Introduction to Computer Fundamental:

1. https://www.w3schools.blog/computer-fundamentals-tutorial
2. https://vikaspedia.in/education/digital-litercy/it-literacy-courses-in-associating-with-msup/computer-fundamentals
3. https://www.tutorialspoint.com/computer_fundamentals/index.htm
4. https://vikaspedia.in/education/digital-litercy/it-literacy- courses-in-associating-with-msup/computer-fundamentals
5. Concept of IT: https://onlinecourses.swayam2.ac.in/cec20_cs05/preview

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.

1. Dr. H.S. Hota - Chairman
Prof. and Head, Department of Computer Science and Application

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University Sarguja, Ambikapur

5. Dr. Mamta Singh - Member
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Vishwavidyalaya, Durg

6. Mr. Sushil Kumar Sahu - Member
Asst. Prof. and Head, Christ College, Jagdalpur Shaheed Mahendra Karma (Present Online)
Vishwavidyalaya, Bastar

7. Mr. Vikrant Gupta - Member
Prof. and Head, Batmul Ashram College, Salheana Shaheed Nand Kumar
Patel University, Raigarh

8. Mr. L.K. Gavel - Member
Asst. Prof. and Head, Govt. Ghanshyam Singh Gupt, PG College, Balod
Hemchand Yadav Vishwavidyalaya, Durg

9. Dr. Anil Kumar Sharma - Member
Asst. Prof. and Head, A.P.S.G.M.N.S, Govt. PG College, Kawardha
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10. Mr. Vishwnath Tamrakar - Member
Asst. Prof. and Head, Sant Guru Ghasidas Govt. PG College, Kurud, Pt.
Ravishankar Shukla University, Raipur

11. Ms. Anjeeta Kujur - Member
Asst. Prof. and Head, Govt. R.B.R.N.E.S. PG College, Jashpur Sant Gahira (Present Online)
Guru University Sarguja, Ambikapur

12. Mr. Suresh Kumar Thakur - Member
Asst. Prof. and Head, Indira Gandhi Govt. PG College, Vaishali Nagar (Present Online)
Hemchand Yadav Vishwavidyalaya, Durg

13. Dr. Ugrasen Suman - Member
Prof. and Head, Dept. of Computer Science (Present Online)
Devi Ahila Vishwavidyalaya, Indore

Date: 13.6.22

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Part A: Introduction				
Program: Certificate Course		Class: B. Com. I Year- CA	Year: 2022	Session:2022-2023
1	Course Code	BCOMCA-2T		
2	Course Title	PC Software and Multimedia		
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: • Understand the MS Word with page setup, formatting text, print documents and mail merge • Understand the MS Excel with creating sheets, calculation in cell and prepare charts. • Understand the sorting & filter in MS Excel. • Understand the MS Power point with design templates, slide transaction and animation effects. • Understand the MS Access and graphics.		
6	Credit Value	Theory: 4		
7	Total Marks	Max. Marks: 50	Min Passing Marks: 17	

Part B: Content of the Course		
Total No. of Periods: 60		
Unit	Topics	No. of Periods
I	**PC PACKAGE:** Introduction to PC and Types of PC, **Introduction to word** processing software and if's features, creating new document, saving documents, Opening and printing documents. **Home Tab**: Setting fonts, Paragraph settings, various styles (Normal, no spacing, Heading1, Heading2, Title Strong), Find & replace, Format Printer, Copy paste and pasts special. **Insert Tab**: Pages, Tables, pictures, clipart, shapes, header & footer, word art, equation and symbols. **Page Layout Tab**: Page setup, page Background, Paragraph (indent and spacing). **Mailing Tab**: Create envelops and Labels, Mail merge. **Review Tab**: Spelling and grammar check, new comment, Protect document. **View Tab**: Document views, zoom, Window (New window, Split, Switch window).	12
II	**WORKING WITH MS-EXCEL:** Introducing Excel, Use of Excel sheet, creating new sheet, Saving, Opening & Printing workbook. **Home Tab**: Font, Alignment, Number, Styles and cells and editing, Conditional Formatting. **Insert Tab**: Table, Charts (Column Chart, Pie chart, Bar chart, Line chart) and Texts (heading & Footer, word art, signature line). **Page Layout Tab**: Page setup options, Scale to fit (width, height, scale) **Formulas Tab**: Auto sum (sum, average, min, max). Logical (IF, and, or, not, true, false), Math & trig (sin, cos, tan, ceiling, floor, fact, mod, log), watch window. **Data Tab**: Get external data from MS Access, Sort and filter options, Data validation, Group and ungroup. **Review Tab**: Protect sheet, protect workbook and Share workbook. **View Tab**: Page break, Page layout, freezing panes, Split and hide.	12
III	**WORKING WITH MS-POWERPOINT**: Introducing power point, Use of power point presentation, creating new slides saving, Opening and printing. **Home Tab**: New slide, Layout, Reset, Delete, setting text direction, align text, convert to smart art, drawing options. **Insert Tab**: Table picture, clipart, photo album, smart art, shapes and chart, movie and sound, hyperlink and action, text box, word art,	12

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	object, **Design Tab**: Page setup option, slide orientation, applying various themes, selecting background style and formatting it. **Animation Tab**: Custom animation for entrance, exit and emphasis, applying slide transition, setting transition speed and sound, animation on rehears timing. **Slide show & View Tab**: Start slide show options, setup option. **View Tab**: Presentation views, colors and window option.	
IV	**WORKING WITH MS-ACCESS**: Front end and back end of application, Introduction to DMBS, features of DBMS, creating blank databases, Saving it in accdb format. Defining data type in MS Access. **Home Tab**: Datasheet view, design view, pivot chart view, pivot table view, sort and filter prions. **Create Tab**: Creating tables, creating reports, query wizard. **External Data Tab**: Importing data from access and excel sheet, exporting data to excel and MS word. **Datasheet Tab**: Relationships, fields and columns options, Data type and formatting options.	12
V	**ANIMATION AND GRAPHICS**: Basic concept of 2D/3D Animation, Principle of animation, application of Multimedia, hardware and Software resources requirement for animation, introduction of various file formats (. mpeg, gif, jpeg, mp4, .tif, .flv) Creating a new movie in flash: Get set Up, Input Text, Animate Text, Drawing and painting with tools, brush, create basic shapes like oval, Rectangle & Polystar Tools, Tools working with object & filing the object. Transformation, object properties, dialog box, creating layers, motion tweening, shape tweening, Mask layers, basic action scripts, importing sound through Flash	12
Keywords: MS Word, MS Excel, MS Power Point, MS Access, Graphics		

Part C - Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. Microsoft Office 2007 Fundamentals, L. Story, D. Walls.
2. MS Office, S.S. Shrivastava, Firewall Media.
3. Office 2000 made easy, Alan Neibauer, Tata McGraw Hill.
4. FLASHMX Bible, Robert Reinhart.
5. Sams Teach Yourself Macromedia Flash 8 in 24 Hours, Phillip Kerman
6. How to do everything with Macromedia, Bonnic Blake, Doug Sahlin
7. Multimedia Making it works, Tay Vaughan Tata McGraw Hill

E-learning Resources:

1. Introduction to MS-Word:
   https://www.w3schools.blog/ms-word-tutorial
2. Introduction to MS-Excel:
   https://www.w3schools.com/excel/excel_introduction.php
3. Introduction to MS-Power Point:
   https://www.w3schools.blog/powerpoint-tutorial
4. Introduction to MS-Access:
   https://www.w3schools.com/sql/sql_ref_msaccess.asp
5. Concept of Animations:
   https://onlinecourses.swayam2.ac.in/ugc19_cs09/preview

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:
Maximum Marks: 50

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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.

1.	Dr. H.S. Hota Prof. and Head, Department of Computer Science and Application Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur	- Chairman
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3.	Mr. Jitendra Kumar Asst. Prof., Dept. of Computer Science and Application Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur	- Member (Present Online)
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5.	Dr. Mamta Singh Asst. Prof. and Head, Sai College, Bhilai Hemchand Yadav Vishwavidyalaya, Durg	- Member (Present Online)
6.	Mr. Sushil Kumar Sahu Asst. Prof. and Head, Christ College, Jagdalpur Shaheed Mahendra Karma Vishwavidyalaya, Bastar	- Member (Present Online)
7.	Mr. Vikrant Gupta Prof. and Head, Batmul Ashram College, Salheana Shaheed Nand Kumar Patel University, Raigarh	- Member
8.	Mr. L.K. Gavel Asst. Prof. and Head, Govt. Ghanshyam Singh Gupt, PG College, Balod Hemchand Yadav Vishwavidyalaya, Durg	- Member
9.	Dr. Anil Kumar Sharma Asst. Prof. and Head, A.P.S.G.M.N.S, Govt. PG College, Kawardha Hemchand Yadav Vishwavidyalaya, Durg	- Member
10.	Mr. Vishwnath Tamrakar Asst. Prof. and Head, Sant Guru Ghasidas Govt. PG College, Kurud, Pt. Ravishankar Shukla University, Raipur	- Member
11.	Ms. Anjeeta Kujur Asst. Prof. and Head, Govt. R.B.R.N.E.S. PG College, Jashpur Sant Gahira Guru University Sarguja, Ambikapur	- Member (Present Online)
12.	Mr. Suresh Kumar Thakur Asst. Prof. and Head, Indira Gandhi Govt. PG College, Vaishali Nagar Hemchand Yadav Vishwavidyalaya, Durg	- Member (Present Online)
13.	Dr. Ugrasen Suman Prof. and Head, Dept. of Computer Science Devi Ahila Vishwavidyalaya, Indore	- Member (Present Online)

Date: 13.6.2022

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Part A: Introduction				
Program: **Certificate Course**		Class: **B. Com-I Year- CA**	Year: **2022**	Session:**2022-2023**
1	Course Code	**BCOMCA-1P**		
2	Course Title	**LAB1: PC Software and Multimedia**		
3	Course Type	**Practical**		
4	Pre-requisite (if any)	No		
5	Course Learning. Outcomes (CLO)	At the end of course, Students will be able to: • Learn Modern office activities and their software requirements. • Create a new Word document and formatting a document using MS-WORD. • Create an electronic spreadsheet using MS-Excel, familiarize oneself with Excel's basicand advance features. • Create a slide show presentation and explore the Microsoft Office PowerPointenvironment. • Create table, form, query, report using MS-Access • Know about Animation, First movement of animation with shadow and light. • know about the history how the early people think or to add motion in animation		
6	**Credit Value**	**2**		
7	**Total Marks**	**Max. Marks: 50**		**Min Passing Marks: 17**

Part B: Content of the Course	
Total Periods: 30	
Tentative Practical List	**Note:** This is tentative list; the teachers concern can add more program as per requirement. **MS Word** 1. Prepare a **grocery list** having four columns (Serial number, the name of the product,quantity and price) for the month of April, 06. • Font specifications for Title (Grocery List): 14-point Arial font in bold and italics. • The headings of the columns should be in 12-point and bold. • The rest of the document should be in 10-point Times New Roman. • Leave a gap of 12-points after the title. 2. Create a **telephone directory**. • The heading should be 16-point Arial Font in bold. • The rest of the document should use 10-point font size. • Other headings should use 10-point Courier New Font. • The footer should show the page number as well as the date last updated. 3. Design a **time-table form** for your college. • The first line should mention the name of the college in 16-point Arial Fontand should be bold. • The second line should give the course name/teacher's name and the departmentin 14-point Arial.

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- Leave a gap of 12-points.
- The rest of the document should use 10-point Times New Roman font.
- The footer should contain your specifications as the designer and date of creation.

4. XYZ Publications plans to release a new book designed as per your syllabus. Design the **First page of the book** as per the given specifications.
   - The title of the book should appear in bold using 20-point Arial font.
   - The name of the author and his qualifications should be in the center of the pagein 16-point Arial font.
   - At the bottom of the document should be the name of the publisher and addressin 16-point Times New Roman.
   - The details of the offices of the publisher (only location) should appear in thefooter.
5. Create the following one page documents.
   - Compose a note inviting friends to a get-together at your house, including a listof things to bring with them.
   - Design a certificate in landscape orientation with a border around the document.
   - Design a Garage Sale sign.
   - Make a sign outlining your rules for your bedroom at home, using a numberedlist.
6. Create the following documents:
   - A newsletter with a headline and 2 columns in portrait orientation, includingat least one image surrounded by text.
   - Use a newsletter format to promote upcoming projects or events in yourclassroom or college.
7. Convert following text to a table, using comma as delimiterType the following as shown (do not bold).

   Color, Style, Item
   Blue, A980, Van
   Red, X023, Car
   Green, YL724, Truck
   Name, Age, Sex
   Bob, 23, M
   Linda, 46, F
   Tom, 29, M

8. Enter the following data into a table given on the next page.

Salesperson	Dolls	Trucks	Puzzles
Kennedy, Sally	1327	1423	1193
White, Pete	1421	3863	2934
Pillar, James	5214	3247	5467
York, George	2190	1278	1928
Banks, Jennifer	1201	2528	1203
Atwater, Kelly	4098	3079	2067



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Pillar, James	5214	3247	5467
York, George	2190	1278	1928
Banks, Jennifer	1201	2528	1203
Atwater, Kelly	4098	3079	2067

Add a column **Region** (values: S, N, N, S, S, S) between the **Salesperson** and **Dolls** columnsto the given table Sort your table data by Region and within Region by Salesperson in ascending order:
In this exercise, you will add a new row to your table, place the word **Total** at the bottom of the Salesperson column, and sum the Dolls, Trucks, and Puzzles columns.

9. Wrapping of text around the image.

MS Excel

1. Enter the Following data in Excel Sheet

REGIONAL SALES PROJECTION						
State	Qtr1	Qtr2	Qtr3	Qtr4	Qtr Total	Rate Amount
Delhi	2020	2400	2100	3000	15	
Punjab	1100	1300	1500	1400	20	
U.P.	3000	3200	2600	2800	17	
Haryana	1800	2000	2200	2700	15	
Rajasthan	2100	2000	1800	2200	20	
TOTAL						
AVERAGE						

(a) Apply Formatting as follow:

i. Title in TIMES NEW ROMAN
ii. Font Size - 14
iii. Remaining text - ARIAL, Font Size -10
iv. State names and Qtr. Heading Bold, Italic with Gray Fill Color.
v. Numbers in two decimal places.
vi. Qtr. Heading in center Alignment.
vii. Apply Border to whole data.

(b) Calculate State and Qtr. Total
(c) Calculate Average for each quarter
(d) Calculate Amount = Rate * Total.

2. Given the following worksheet

	A	B	C	D
1	Roll No.	Name	Marks	Grade
2	1001	Sachin	99	
3	1002	Sehwag	65	
4	1003	Rahul	41	
5	1004	Sourav	89	
6	1005	HarBhajan	56	

Calculate the grade of these students on the basis of following

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guidelines:

If Marks	Then Grade
>=80	A+
>= 60 and < 80	A
>= 50 and < 60	B
< 50	F

3. Given the following worksheet

	A	B	C	D	E	F	G
1	Salesman	Sales in (Rs.)					
2	No.	Qtr1	Qtr2	Qtr3	Qtr4	Total	Commission
3	S001	5000	8500	12000	9000		
4	S002	7000	4000	7500	11000		
5	S003	4000	9000	6500	8200		
6	S004	5500	6900	4500	10500		
7	S005	7400	8500	9200	8300		
8	S006	5300	7600	9800	6100		

Calculate the commission earned by the salesmen on the basis of following Candidates:

If Total Sales	Then Commission
< 20000	0% of sales
> 20000 and < 25000	4% of sales
> 25000 and < 30000	5.5% of sales
> 30000 and < 35000	8% of sales
>= 35000	11% of sales

The total sales are sum of sales of all the four quarters.

4. Company XYZ Ltd. pays a monthly salary to its employees who consist of basic salary, allowances & deductions. The details of allowances and deductions are as follows:

- **HRA Dependent on Basic**
  30% of Basic if Basic <=1000
  25% of Basic if Basic>1000 & Basic<=3000
  20% of Basic if Basic >3000
- **DA Fixed for all employees, 30% of Basic**
- **Conveyance Allowance (CA)**
  Rs. 50/- if Basic is <=1000
  Rs. 75/- if Basic >1000 & Basic<=2000
  Rs. 100 if Basic >2000
- **Entertainment Allowance (EA)**
  NIL if Basic is <=1000
  Rs. 100/- if Basic > 1000

Deductions

- **Provident Fund**
  6% of Basic
- **Group Insurance Premium**
  Rs. 40/- if Basic is <=1500
  Rs. 60/- if Basic > 1500 & Basic<=3000
  Rs. 80/- if Basic >3000

Calculate the following:

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Gross Salary= Basic + HRA + DA + CA + EA
Total Deduction = Provident Fund + Group Insurance Premium
Net Salary= Gross Salary – Total Deduction

5. Create Payment Table for a fixed Principal amount, variable rate of interests and time inthe format below:

No. of Installments	5%	6%	7%	8%	9%
3	XX	XX	XX	XX	XX
4	XX	XX	XX	XX	XX
5	XX	XX	XX	XX	XX
6	XX	XX	XX	XX	XX

6. Use an array formula to calculate Simple Interest for given principal amounts given therate of Interest and time

Rate of Interest	8%
Time	5 Years
Principal	Simple Interest
1000`	?
18000	?
5200	?

7. The following table gives year wise sale figure of five salesmen in Rs.

Salesman	2019	2020	2021	2022
S1	10000	12000	20000	50000
S2	15000	18000	50000	60000
S3	20000	22000	70000	70000
S4	30000	30000	100000	80000
S5	40000	45000	125000	90000

(a) Calculate total sale year wise.
(b) Calculate the net sale made by each salesman
(c) Calculate the maximum sale made by the salesman
(d) Calculate the commission for each salesman under the condition.
  (i) If total sales >4,00,000 give 5% commission on total sale made by the salesman.
  (ii) Otherwise give 2% commission.
(e) Draw a bar graph representing the sale made by each salesman.
(f) Draw a pie graph representing the sale made by salesman in 2000.

8. Enter the following data in Excel Sheet

PERSONAL BUDGET FOR FIRST QUARTER

Monthly Income (Net): 1,475

EXPENSES	JAN	FEB	MARCH QUARTER TOTAL	QUARTER AVERAGE
Rent	600.00	600.00	600.00	
Telephone	48.25	43.50	60.00	
Utilities	67.27	110.00	70.00	

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Credit Card	200.00	110.00	70.00	
Oil	100.00	150.00	90.00	
AV to Insurance	150.00			
Cable TV	40.75	40.75	40.75	
Monthly Total				

Calculate Quarter total and Quarter average.

(a) Calculate Monthly total.
(b) Surplus = Monthly income - Monthly total.
(c) What would be total surplus if monthly income is 1500.
(d) How much does telephone expense for March differ from quarter average.
(e) Create a 3D column graph for telephone and utilities.
(f) Create a pie chart for monthly expenses.

9. Enter the following data in Excel Sheet

TOTAL REVENUE EARNED FOR SAM'S BOOKSTALL

Publisher Name	1997	1998	1999	2000	Total
A	Rs. 1,000.00	Rs. 1100.00	Rs. 1,300.00	Rs. 800.00	
B	Rs. 1,500.00	Rs. 700.00	Rs. 1,000.00	Rs. 2,000.00	
C	Rs. 700.00	Rs. 900.00	Rs. 1,500.00	Rs. 600.00	
D	Rs. 1,200.00	Rs. 500.00	Rs. 200.00	Rs 1,100.00.	

(a) Compute the total revenue earned.
(b) Plot the line chart to compare the revenue of all publishers for 4 years.
(c) Chart Title should be _Total Revenue of Sam's Bookstall (1997-2000)'
(d) Give appropriate categories and value axis title.

10. Generate 25 random numbers between 0 & 100 and find their sum, average and count. Howmany no. are in range 50-60.

MS Power Point

1. Do the following task:
   i. Start a new blank presentation
   ii. Your first Slide is going to be a Title Slide
   iii. Write the Text as in the preview below:
   Lighthouse Co Ltd
   iv. Make the Font of "Lighthouse" Arial Black and size 88
   v. Insert a second slide this should be with a layout of Bulleted List
   vi. Write the Text as in preview below
      (a) [Title]: Lighthouse Co Ltd
      (b) [Body]:
         i. Mission Statement
         ii. Company Objectives
         iii. Management Team
         iv. Employees
         v. Sales



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vii. Make the Font Colour of the Points to Green

viii. Insert a third slide this should be an Organization Chart. Include the following people in the chart:

a. David Brent, General Manager
b. Tim Canterbury, Head of Sales
c. Gareth Keenan, Assistant to the General Manager
d. Dawn Tinsley , Human Resources Manager

ix. Add a fourth slide this should be a Table Chart. The chart should look like the following:

New Products	Discontinued Products
Digital Cameras	8mm Cameras
Ultra Slim Video Camera	8x Zoom Video Camera
25" Plasma TVs 21"	Black and White TVs
DVD Recorders	Video Players
7.1 Dolby Surround Systems	2 channel stereo systems

x. Make the titles New Products and Discontinued Products with a shadow effect and centred in the cell. Widen columns to fit Text as above.

xi. The Fifth slide should be a Chart slide. The chart should be a bar chart, and include the following data must be used to form the chart:

	January	February	March	April
TVs	20	27	90	75
DVDs	30	38	34	31
Wifi equipment	45	46	45	43
Video Recorders	25	29	15	40

xii. Change the colours of the chart so that the series of bars are red, yellow, pink, and green.

xiii. Add a light coloured background to all slides in the presentation.

xiv. Add also Transition effects between each slides and also different effects for all text and pictures it the presentation.

xv. Reverse the order of the second and third slides

xvi. Save the presentation as Light House Ltd.

2. Do the following:

i. Load your Presentation Application and start a new presentation

ii. The first slide is a Title Slide. Select the appropriate layout and enter the title: **Annual Food Fair**

iii. Add the sub title: .**A Celebration of Eating**

iv. Insert a small, red circle at the bottom right of the title slide.

v. Change the font colour for the whole title and sub title to blue, and apply a text shadow effect just to the words **Food** and **Fair**

vi. Insert a second slide to the presentation, selecting a layout appropriate for a series of bullet points, and using the title: **The Menu**. Enter the following text:

i. Chocolate Desserts
ii. Cakes and Puddings
iii. Roast Meals
iv. Using Pasta Creatively

vii. Change the line spacing for these bullet points to 1.5 lines.

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viii. Increase the font size for the words **The Menu** in the title.

ix. Add a footer with your name and the text: **Food Fair** so they both appear on every slide, and number all the slides. (Make sure the number is not obscured by the red circle on the title slide)

x. Insert a third slide, which is to be an organisation chart. Use the title **Meet The Team**. Enter: **Maggie Peet, Manager** at the top of the chart, and show the following three as reporting to Maggie Peet: **Brian Webb, Bookings; Janine Newton, Publicity; Gregg Brown, Accounts**

xi. Embolden the text in the title of the third slide, and change the font to Arial.

xii. Apply a light coloured background to all the slides in the presentation

xiii. On the third slide, insert an image suitable for the topic of food from an image library. Reduce the size of the image and place it where it will not interfere with text.

xiv. Save the presentation as **foodfair**.

xv. Print the presentation with three slides per page, and close the presentation.

3. Do the followings:

i. Load your Presentation Application and start a new presentation

ii. The first slide is a Title Only Slide. Select the appropriate layout and enter the title: **Cook Family Cruises**.

iii. Add a small blue rectangle at the top left of this slide.

iv. Change the font colour for the whole title to red, and apply a text shadow effect just to the word **Cruises**.

v. Insert a second slide to the presentation, selecting a layout appropriate for a series of bullet points, and using the title: **Our Itinerary**. Enter the following text:

   a. Canary Islands
   b. Mediterranean
   c. Greek Islands

vi. Change the line spacing for these bullet points to 2 lines. Increase the font size of the word **Itinerary** in the title. Add a footer with your name and the
text: **Cruise Information** so they both appear on every slide, and number all the slides.

vii. Insert a third slide, which is to be a graph. Use the title **Our Market Share**. Use the following data to produce a pie chart: Cook 54%; Jackson 28%; Wilson 12%; Bennett 5%

viii. Embolden the text in the title of the third slide, and change the font to Arial.

ix. Apply a different background to each slide in the presentation.

x. On the third slide, insert an image suitable for the topic of holidays from an image library. Reduce the size of the image and place it where it will not interfere with text.

xi. Add a 4th slide containing nothing but the text: **Travel with us for less!!**

xii. Save the presentation as holidays.

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xiii. Print the presentation with 4 slides per page, and close the presentation.

4. Create an animation looks like the leaf is falling in a tree.
5. Create an animation looks like demolish a world trade center in America.

MS Access

1. Create a database named "college" and perform the following tasks:

   a. Create a table named "student" having following fields
   b. Class, Roll no and Name with these Information i.e., Field Name, Data type and Description Fill at least 5 records.
   c. Prepare a query to display all records and Name should be in ascending order.

2. Create the employee table in MS-Access with the referential integrity-foreign key.

Multimedia Animation and Photoshop

1. Create a Flash movie to draw the symbol of an animal and apply motion between.
2. Create a Flash movie to create a minimum of five layers (Water, fish, bubbles, plants etc.) of an aquarium and apply motion between.
3. Create a Flash movie to create mask.
4. Create a Flash movie to create Fade In/Fade Out in four pictures.
5. Create a Flash movie to create the symbol of a wheel and scale and rotate it.
6. Import an image in Photoshop and change its background using marquee and lasso tools.
7. Import an image in Photoshop and copy it using heal brush tool.

Keywords: MS Word, MS Excel, MS Power Point, MS-Access, Animations and Graphics.

Part C - Learning Resource

Text Books, Reference Books, Other Resources

Suggested Readings:

1. Microsoft Office 2007 Fundamentals, L. Story, D. Walls.
2. MS Office, S.S. Shrivastava, Firewall Media.
3. Office 2000 made easy, Alan Neibauer, Tata McGraw Hill.
4. FLASHMX Bible, Robert Reinhart.
5. Sams Teach Yourself Macromedia Flash 8 in 24 Hours, Phillip Kerman
6. How to do everything with Macromedia, Bonnic Blake, Doug Sahlin
7. Multimedia Making it works, Tay Vaughan Tata McGraw Hill

E-Resources

1. Introduction to MS-Word: https://www.w3schools.blog/ms-word-tutorial
2. Introduction to MS-Excel: https://www.w3schools.com/excel/excel_introduction.php
3. Introduction to MS-Power Point: https://www.w3schools.blog/powerpoint-tutorial

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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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Devi Ahila Vishwavidyalaya, Indore

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Part A: Introduction				
Program: **Diploma Course**		Class: **B. Com II Year- CA**	Year: **2022**	Session:**2022-2023**
1	Course Code	**BCOMCA-3T**		
2	Course Title	**E-Commerce**		
3	Course Type	**Theory**		
4	Pre-requisite (if any)			
5	Course Learning. Outcomes (CLO)	At the end of this course, the students will be able to • Understand the concept of E-commerce and its technology. • Understand the concept of security and encryption. • Understand the concept of e-payment system. • Understand the concept of online transaction system. • Understand the concept of Digital marketing.		
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	**Introduction of E-Commerce:** Meaning, nature, concepts, advantages, disadvantages and reasons for transacting online, types of E-Commerce, e-commerce business models (introduction , key elements of a business model and categorizing major E-commerce business models), forces behind ecommerce. **Technology used in E-commerce:** The dynamics of world wide web and internet (meaning, evolution and features); Designing, building and launching e-commerce website (A systematic approach involving decisions regarding selection of hardware, software, outsourcing vs. in-house development of a website).	12
II	**Security and Encryption:** Need and concepts, the e-commerce security environment: (dimension, definition and scope of e-security), security threats in the E-commerce environment (security intrusions and breaches, attacking methods like hacking, sniffing, cyber-vandalism etc.), technology solutions (Encryption, security channels of communication, protecting networks and protecting servers and clients).	12
III	**E-payment System**: Models and methods of e–payments (Debit Card, Credit Card, Smart Cards, e-money, UPI payment), digital signatures (procedure, working and legal position), payment gateways, online banking (meaning, concepts, importance, electronic fund transfer, automated clearing house, automated ledger posting), risks involved in e-payments.	12
IV	**On-line Business Transactions:** Meaning, purpose, advantages and disadvantages of transacting online, E-commerce applications in various industries like banking, insurance, payment of utility bills, online marketing, e-tailing (popularity, benefits, problems and features), online services (financial, travel and career), auctions, online portal, online learning, publishing and entertainment, Online shopping.	12

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V	**Digital marketing overview:** what is Digital Marketing, traditional marketing vs. Digital Marketing, understanding traffic, categorization of digital marketing for the business, Legal and Ethical issues, search engine optimization (SEO)- on page optimization, off page optimization. Goals: learn how to use dozens of proven digital marketing strategies.	12

Keywords: E-commerce, Debit card, Credit card, e- security, UPI, Digital Marketing.

Part C - Learning Resource

Text Books, Reference Books, Other Resources

Suggested Readings:

Text Books:

1. E-Commerce : Business, Technology, Society, Kenneth C. Laudon, Pearson, 4th Edition
2. E-Commerce: an Indian perspective, S. J. Joseph, PHI
3. Digital Marketing for Dummies, Ryan Deiss, Russ Henneberry, John Wiley & Sons.
4. Digital Marketing, AhujaVandana, Oxford University Press.

E-Resources:

1. **E-Commerce:**
   https://www.tutorialspoint.com/e_commerce/index.htm
2. **Digital Marketing:**
   https://www.tutorialspoint.com/digital_marketing/index.htm

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

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Date: 13.06.2022

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Part A: Introduction				
Program: **Diploma Course**		Class: **B. Com II Year- CA**	Year: **2022**	Session:**2022-2023**
1	Course Code	**BCOMCA-4T**		
2	Course Title	**Computerized Accounting with Tally**		
3	Course Type	**Theory**		
4	Pre-requisite (if any)			
5	Course Learning. Outcomes (CLO)	At the end of this course, the students will be able to • Explain basics of Tally Accounting processes. • Define key terms related to Tally Accounting software. • Create Company and enter accounting voucher entries and create various type of books in the software. • Do the reconcile bank statement and perform other accrual adjustments. • Prepare and print financial statements, etc. in Tally Accounting software.		
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	Tally configuration & INI setup, data directory & folders configuration, single & multiple user, Tally screen components, mouse / keyboard conventions & key, combinations, switching between screen areas, quitting Tally. Maintaining company data, basic company details, create/alter/select/load/close a company, chart of accounts, company features, configuration.	12
II	Create, Alter & Display Groups and Ledgers, All accounting voucher types and transactions, Create and Alter new Voucher type, Item and Account Invoice transactions, Excise Invoice, Export Invoice, Transactions using Bill-wise details Create, Alter & Display Cost Centre and Cost Categories, Cost centre& Cost Category allocation in voucher entry, Creating Cost centre Class, Invoice entry in a Class situation, Create, Alter & Delete Foreign Currencies, Voucher entry using foreign currency, Bank Reconciliation, Interest calculations using simple & advance parameters, Interest calculations on outstanding balances &on invoices, Use of voucher class, adjustment of interest, Creation of voucher class, Invoice entry in a class situation.	12
III	Create, Alter & Delete Budgets for groups, ledgers & cost centres, Defining credit limit & credit period, Display Budgets & variances, Create, Alter & Delete a scenario. Enabling Job Costing in Tally, Master creation & configuration for Job costing, Creation of Voucher type & Voucher class for Stock Transactions, Creation of Transfer journal for transfer of stock between godowns, Consumption journal Transactions, payment voucher, Godown summary Report, Job Work Analysis, and Material consumption summary. Reports like balance sheet, Profit & Loss account, Ratio analysis, Trial Balance. Accounts books like cash/bank book, All	12

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	ledgers, Group summary &vouchers, Sales, purchase & journal registers, Cost centre& category summary, Cost centre breakup, ledger & group breakup, outstanding receivables & payables, interest receivable &payable, Statistics, Cash & Fund flow, Day book, List of Accounts, Reversing Journals, optional vouchers, post-dated vouchers.	
IV	Create, Alter & Display Stock Groups and Stock Items, Stock item behavior using costing and market valuation method, other behavior like treating all sales as new manufacture, treating all purchases as consumed, treating all rejections inward as scrap, ignoring negative balances, Treating difference due to physical counting, Create, Alter & Display Stock categories, Create, Alter, Display simple & compound units of measures, Stock items using alternate units, Defining standard cost & selling price, Defining Rate of duty, Defining MRP, Create, Alter & Display Godowns, Allocation of items to the Godowns, All inventory voucher types and transactions, Inventory details in accounting vouchers, Defining re-order level, Transactions using tracking numbers, Use of batch-wise details in voucher, Additional cost details in vouchers, Creating Bill of material, Cost estimation, Creating Price list &defining Price levels, invoice using Price list, Zero valued entries, Transactions in case of Different actual & billed quantities. Reports like Stock summary, Inventory books like Stock item, Group summary, Stock transfers, Physical stock register, Movement analysis, Stock group & item analysis, stock category analysis, Ageing analysis, Sales order & Purchase order book, Statement of inventory related to Godowns, categories, stock query, Reorder status, Purchase & Sales order summary, Purchase & Sales bill pending, Exception reports like negative stock & ledger, overdue receivables& payables, memorandum vouchers, optional vouchers, post-dated vouchers, reversing journals.	12
V	Cheque Printing, Common printing options, Different printing formats, Multi-Account printing, Dynamic- Report specific options. Creating Group Company, Use of Tally vault, Using Security control &defining different security levels, Use of Tally Audit. Back-up & Restore, Splitting company data, Export & import of Data, ODBC compliance, use of E-mail, Internet publishing, Upload, web browser & online help, Re-write data.	12
Keywords: Ledger, Voucher, Account, Trial Balance, Stock, Godowns.		

Part C - **Learning Resource**
Text Books, Reference Books, Other Resources
Suggested Readings: **Text Books:** 1. Implementing Tally 6.3 by Nadhani; BPB Publications. 2. BPB Tally 6.3 by BPB Editorial Board (Hindi) BPB Publications.

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E-Resources:
1. http://tallyhelp.org/

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

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Date: 18.6.2022

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Part A: Introduction				
Program: **Diploma Course**		Class: **B.Com. II Year- CA**	Year: **2022**	Session:**2022-2023**
1	Course Code	**BCOMCA-2P**		
2	Course Title	**LAB 2: TALLY**		
3	Course Type	**Practical**		
4	Pre-requisite (if any)	**No**		
5	Course Learning. Outcomes (CLO)	At the end of this course, the students will be able to • Explain basics of Tally Accounting processes. • Define key terms related to Tally Accounting software. • Create Company and enter accounting voucher entries and create various type of books in the software. • Do the reconcile bank statement and perform other accrual adjustments. • Prepare and print financial statements, etc. in Tally Accounting software.		
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	**Note:** This is tentative list; the teachers concern can add more program as per requirement. 1. Create a company for accounts transaction in tally. 2. Create ledger accounts for the following transactions (. i.) Commencement of Business (ii.) Purchase A\c (iii.) Sales A\c 3. Generate Report in Tally (Creating statements like Invoice, Bill, Profit & Loss account etc.) 4. Set company Features of Tally. 5. Create a company as "Gavel Industries Ltd." In Tally with inventory management. 6. Pass the following entries: a. Gavel started "Sagar Industries Ltd." By bringing capital Rs. 300000/- cash. b. He deposited Rs. 100000/- cash in SBI bank. c. He paid electricity bill for Rs. 1200/- by cash. d. He purchased following item from Computer Lab. Ltd. On credited with 4% Vat rate. i. Computer 10 Nos. @20000 each e. He sold the following item to Somnath Traders in cash with 4% Vat rate. i. Computer 05 Nos. @27500/- rate f. He received Rs. 6000/- as commission from Rohit by cash. g. He paid House Rent for Rs. 5000/- by cash. h. He withdrawn Rs. 25000/- cash from SBI. i. He purchased furniture for Rs. 25000/- by cash for office use. 7. Show the Trial Balance and Balance sheet of "Gavel Industries

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	Ltd." 8. Show the Vat Computation report of the above company. 9. Show the Cash book & Bank Book of the company. 10. Show the Day Book.
Keywords: Ledger, Voucher, Account, Trial Balance, Stock, Godowns.	

Part C - Learning Resource
Text Books, Reference Books, Other Resources
Suggested Readings: 1. Implementing Tally 6.3 by Nadhani; BPB Publications, ISBN:817656494X 2. BPB Tally 6.3 by BPB Editorial Board (Hindi) BPB Publications, ISBN 81-7656-594-6 **E-Resources:** 1. http://tallyhelp.org/

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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7.	Mr. Vikrant Gupta Prof. and Head, Batmul Ashram College, Salheana Shaheed Nand Kumar Patel University, Raigarh	-	Member
8.	Mr. L.K. Gavel Asst. Prof. and Head, Govt. Ghanshyam Singh Gupt, PG College, Balod Hemchand Yadav Vishwavidyalaya, Durg	-	Member
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13.	Dr. Ugrasen Suman Prof. and Head, Dept. of Computer Science Devi Ahila Vishwavidyalaya, Indore	-	Member (Present Online)

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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-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: • 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 complier 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

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	a new sub-procedure, Passing Variables to Procedures, Passing Argument ByVal or ByRef, Writing a Function Procedure	
IV.	**Multiple Forms** Creating, adding, removing Forms in project, Hide, Show Method, Load, Unload Statement, Me Keyword, Referring to Objects on a Different Forms, **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,	12
V.	**DATA BASE PROGRAMMING IN VB** **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. **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.	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 Petroutsos BPB.

E Resources:

Programming in Visual Basic:

1. https://www.youtube.com/playlist?list=PLcZgBCY7duW9H_-jOl5vdRptAHwZYShwr

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

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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)	At the end of this course, the students will be able to: • 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 verses 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,	

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	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:

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/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

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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

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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-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)	At the end of course, Students will be able to: • 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	**Note:** This is tentative list; the teachers concern can add more program as per requirement. **RDBMS** 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: 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. a) Insert five records in above created table. b) Display all five records. c) Use foreign key relation and display records.

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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

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

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:

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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

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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