BOARD OF STUDIES 2023-24

DEPARTMENT OF COMPUTER APPLICATIONS

Curriculum for the Academic Year 2023-24

Date: 05.09.2023

SRI A.S. N. M GOVERNMENT COLLEGE (A), PALAKOL, W.G. DT
(Affiliated to AdikaviNannaya University, Rajahmundry)
Accredited with NAAC "B+" Grade with 2.67 CGPA (3rd Cycle)
2023-24
DEPARTMENT OF COMPUTER APPLICATIONS- BOARD OF STUDIES

Board of Studies Chairman Head of the Department	**Sri K.Bhadrachalam**
University Nominee	**Dr. M. Pramod Kumar,** Lecturer in Computer Applications, SCNR Government Degree College, Proddatir, YSR Kadapa Dt.
Subject Experts	**1. Sri VIJAYADEEP GUMMADI,** Lecturer in Computer Science, SRR & CVR Govt. Degree College (A), Vijayawada, Krishna Dt.
	2. Sri P. ARUN KUMAR, Lecturer in Computer Science, GDC, Avanigadda, Avanigadda, Krishna Dt.
Industrialist / Businessman	**Sri K. RajasekharReddy,** Director, Manohar Plastic Industries, Penugonda, West Godavari Dt.
Alumni	**K. B. Srinath** Advocate
Members of the Department	**1. Sri Ch. Ravi Kumar**
Students	1. CH.Vijaya Babu III B.Com(CA) 2. CH.Syam II B.Com(CA)

DEPARTMENT OF COMPUTER APPLICATIONS- BOARD OF STUDIES

Agenda

1. To prescribe the syllabi suggested by APSCHE and UNIVERSITY, with modifications if any not exceeding 20% to suit the local needs, to be implemented from the academic year 2023-2024.

2. To follow the same evaluation pattern approved in the academic year 2022-2023 batch as a 60:40 ratio (60 marks- External and 40 Marks-Internal).

3. Hands-on Training with Industry tie-up/Internships (for the II &III year students)

4. To select paper setters and examiners for theory and practical wherever applicable from the panel of Readers/Lecturers working in some reputed colleges.

5. To approve blueprint and model question papers for theory and practical wherever applicable for semester examinations.

6. Research, Teaching, Extension and other academic activities in the department suggest Methodologies for innovative methods for Teaching and Learning.

7. To prepare a scheme of valuation for practical's of all semesters.

8. Any other with the permission of the chair.

DEPARTMENT OF COMPUTER APPLICATIONS- BOARD OF STUDIES

After thorough discussion the following resolutions were made by the Department BOS

Resolutions:

1. It is resolved to adopt the Revised CBCS syllabus (both theory &practicals) & model papers suggested by APSCHE, with small modification for I, II Semesters for the academic year 2023-24.

   a) It is resolved to introduce single major subject system along with minor subject for the academic year 2023-24.

   b) It is resolved to follow the same syllabus (both theory & practicals) & model papers for III, IV and V semesters which was approved in the last year's BOS meeting.

2. It is resolved to follow the same pattern of evaluation for III year degrees courses and to follow the new pattern of evaluation for the 2023-24 admitted batch along with the 2022-23 batch.

   a) It is resolved to evaluate the student's performance under continuous internal assessment (CIA) and semester-end examination components at a 40:60 ratio for the I and IIB.Com programme. And at a 25:75 ratio for the III B.Com programme from this academic year 2023 -24 which was approved the last year's BOS meeting. The duration of the examination is 3:00 hrs

   b) It is resolved to approve continuing Internal Assessment for I, II, III and IV semesters as follows.

   Direct Method: 35 Marks comprising of I Mid Exam for 20 Marks and II Mid Exam for 15 Marks.

   Indirect Method: 15 Marks comprising of

   Assignment – 5M, Any one Pedagogy Method - 5M (Classroom Seminar/Quiz/Group Discussion etc)

   Clean and Green and attendance - 5M and a total of 50 marks will be scaled down to 40 Marks.

   c) It is resolved to approve Continues Internal Assessment for V semester is as follows:

   Direct Method: 35 Marks comprising of I Mid Exam for 20 Marks and II Mid Exam for 15 Marks.

Indirect Method: 15 Marks comprising of Assignment – 5M, Any one Pedagogy Method - 5M (Classroom Seminar/Quiz/Group Discussion etc.)

Clean and Green and attendance - 5M and a total of 50 marks will be scaled down to 25 Marks.

3. It is resolved to encourage students to take up CSP and Industrial training after the completion of II and IV semester of their study.

4. It is resolved to arrange Internships for III year students by contacting industries of nearby towns and encouraging students to go and learn the techniques.

5. It is resolved to sign MOU with nearby industries to provide Internship to students during IV semester and either V or VI Semesters.

6. Resolved that the passing marks for external examination are 24 Marks (40%) and for internal examination is 16 Marks (40%). Candidates should get a total mark of 40, in both internal and external examinations put together.

7. It is resolved to conduct odd semester practical examinations with internal faculty members with subject teacher and another teacher in the department and even semester practical examinations to be conducted involving external examiners.

8. It is resolved to offer Certificate Courses/Add on Courses/Value added Courses for the II year students for the academic year 2023 -2024.

9. Resolved to adopt all the Modern teaching learning Methods including ICT and Digital boards.

10. Resolved to advise the entire Faculty to apply for UGC for financial assistance to conduct Seminars/Workshops/Conferences/MRPs, etc., and to arrange field trips Surveys, Society outreach programmes etc.

11. Resolved to conduct Guest Lectures, Study Projects for the academic year 2023-2024.

12. Resolved to approve the list of Question paper setters and examiners appended herewith.

13. It is resolved to approve programme outcomes, programme-specific outcomes, course outcomes and course codes.

14. It is resolved to follow the course structure given by APSCHE with necessary changes to syllabus wherever is necessary.

15. It is resolved to add/delete contents for III, IV, and V Semesters which was approved in the last year BOS meeting. With a small additional topic in paper 6c.

16. It is resolved to modify some contents of the syllabus not more than 20 percent. This Modification is only for the benefit of the students. Few topics are deleted, though Modifications are done, they will not be effected for any competitive examinations and other.

S.No	Sem&Course Name	Deletions	Additions
1	**II Sem Course 2C:** E-Commerce and Web Designing	----	Cryptography (Additional inputs)
2	**III Sem Course 2Programming in C:**	**Passing** Argumemts to Functions using pointers	--------
3	**IVSem Course 4F:**Database Management Systems	Unit II: Database Architecture, DBMS vendors and their products.	**UNIT –III:** Normal Forms :INF, 2NF, 3NF and BCNF (Additional inputs)
4	**V SemCourse 6C:** E-Commerce Application Developmrnt	Architectural frame work of Electronic Commerce,web based E-Commerce Architeture	-----
5	**V SemCourse 7C:Real Time Governance System**	What is Real Time Governance	----------

BOS Chairman

Members present:

1.   5.

2.   6.

3.   7.

4.   8.

DEPARTMENT OF COMPUTER APPLICATIONS

K. Bhadrachalam, In-charge of Computers Department requests the Academic Council to consider and approve the changes in the syllabi recommended by the Board of Studies for the Academic year 2023-2024. The BOS meeting held on 05-09-2023. The academic council is also requested to accord permission to appoint examiners for the academic year 2023-2024.

Chairman

Board of Studies

1.

2.

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2023-24

DEPARTMENT OF COMPUTER APPLICATIONS
COURSE STRUCTURE
B.COM. (W.E.F 2023-24 Batch)
SEMESTERS – I, II

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
I Year	Semester I	Course 1	Fundamental of Commerce	5	4	40	60	100
		Course 2	Bussiness Organization	5	4	40	60	100
	Semester II	Course 3	Office Automation Tools Theory	3	3	40	60	100
			Office Automation Tools Practical	2	1	-	50	50

B.COM (W.E.F 2020-21 Batch)
SEMESTERS – III, IV, V

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
II	III	3 C	Programming with C and C++	5	4	40	60	100
	IV	4F	Data Base Management System	5	4	40	60	100

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
III	V	6 A	Big data Analytics using R	5	4	25	75	100
		7A	Data Science Using Python	5	4	25	75	100

(OR)

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
II	V	6B	Mobile Application Development	5	4	25	75	100
		7B	Cyber Security and Malware Analysis	5	4	25	75	100

(OR)

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
II	V	6C	E-CommerceApplication Development	5	4	25	75	100
		7C	Real Time GoverannceSystem(RTGS)	5	4	25	75	100

(OR)

Year	Semester	Course	Title	Hrs	Credits	Mid Sem Exam	Sem End Exam	Total
II	V	6D	Multimedia Tools and Applications	5	4	25	75	100
		7D	Digital Imaging	5	4	25	75	100

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2023-24
SEMESTER – I, II, III & IV BLUE PRINT FOR
DEPARTMENT OF COMPUTER APPLICATIONS
MODEL PAPER
FOR SEMESTER END EXAMINATIONS

S.NO	UNIT NO	SHORT QUESTIONS			ESSAY QUESTIONS		
		No of Questions	Marks allotted	Total marks	No of Questions	Marks allotted	Total Marks
1	I	02	04	08	02	08	16
2	II	01	04	04	02	08	16
3	III	02	04	08	02	08	16
4	IV	01	04	04	02	08	16
5	V	02	04	08	02	08	16

Section –A: Out of 8 Questions 5 has to be answered.**5 x 4=20 M**

Section –B: Internal Choice (either / or) and 1 Question from each unit, 5 Questions has to be answered.**5 x 8=40 M**

SEMESTER – V BLUE PRINT FOR
DEPARTMENT OF COMPUTER APPLICATIONS
MODEL PAPER
FOR SEMESTER END EXAMINATIONS

S.NO	UNIT NO	SHORT QUESTIONS			ESSAY QUESTIONS		
		No of Questions	Marks allotted	Total marks	No of Questions	Marks allotted	Total Marks
1	I	02	05	10	02	10	20
2	II	01	05	05	01	10	10
3	III	02	05	10	02	10	20
4	IV	01	05	05	01	10	10
5	V	02	05	10	02	10	20

Section –A: Out of 8 Questions 5 has to be answered.**5 x 5=25 M**

Section –B: Internal Choice (either / or) and 1 Question from each unit, 5 Questions has to be answered.**5 x 10=50 M**

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DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
LIST OF EXAMINERS AND PAPER SETTERS

1.	Smt. M.Rajani	Lecturer in computer science	SCIM Government Degree College, Tanuku, W.G.Dt. Mobile: 9885436464
2.	Vijayadeep Gummadi	Lecturer in computer science	SRR & CVR GDC(A), Vijayawada, Krishna Dt. Mobile: 9030561156
3.	Sri GentemVaraprasad	Lecturer in computer science	Govt Degree college, Razole, E.G.Dt. Mobile:9553992154
4.	P. Arun Kumar	Lecturer in computer science	GDC, Avanigadda,Krishna Dt. Mobile: 9502035544
5.	Dr. K. V. Sobha Rani	Lecturer in Computer Applications	PR Government DegreeCollege (A), Kakinada, E.G.Dist. Mobile: 8500856417.
6.	Sri. N.S.V.N.A Kumar	Lecturer in computer science	S.K.S.D.MahilaKalashala UG& P.G Colleger,Tanuku, W.G.Dt. Mobile:9491371200
7.	Dr. M. Pramod Kumar	Lecturer in Computer Applications	SCNR Government Degree College, Proddatur, Kadapa Dist. Mobile: 9492347719
8.	Smt A. Madhavi	Lecturer in computer Applications	Government Degree College (W), Hindupur, Anantapur Dist. Mobile: 9949672448

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DEPARTMENT OF COMPUTER APPLICATIONS

Program Outcomes of B.Com(ComputerApplications)

Upon the successful completion of Graduate & Post Graduate programme, students will be able to:

PO1. **Problem analysis**: Identify, formulate, review research literature, and analyze complex problems reaching substantiated conclusions using first principles of mathematics, humanities and Sciences.

PO2. Design/development of solutions: Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO3. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4. Modern tool usage: Create, select, and apply appropriate techniques, resources, IT tools including development, design, and prediction and modelling to real world activities with an understanding of the limitations.

PO5. Environment and sustainability: Understand the impact of the professional problem solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO6. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7. Efficient Communication & Life Skills: Apply ethical principles and commit to professional ethics and responsibilities and norms of the practice.

PO8. Life-long learning: Learn "how to learn"- Self-motivated and self-directed learning. Adapt to the ever emerging demands of work place and life.

DEPARTMENT OF COMPUTER APPLICATIONS

Program Specific Outcomes of B.Com(ComputerApplications)

PSO1. This Programme curriculum will make the students become efficient in the concepts of computer software and its applications in business operations.

PSO2. Programme includes various accounting courses, enables the students to gain theoretical knowledge and improves problem solving ability of the students.

PSO3. Business oriented applications like Ms-Office, DBMS, Web Technology and Tally will enable   the students   to start their own Small Scale software business.

PSO4. Courses of this programme provide an opportunity to undergo Professional Courses like MBA, CA, ICWA, ICS etc., and also ensures bright future in the IT fields, Software, Banks,   Companies, BPOs and KPOs.

PSO5. This Programme will make the students get placed in software application jobs in the areas of Trade,   Commerce, Business, Banking and Insurance etc.

S. No.	Course Title	Course Outcomes
1.	**Fundamentals of Commerce**	After successful completion of this course the student will able to CO1. Identify the role of commerce in Economic development and societal Development. CO2.Equip with the knowledge of imports and exports and balance of payments. CO3.They acquire knowledge on micro and micro economics and factors determine demand and supply. CO4.They will acquire skills on webdesign and digital marketing.
2.	**Bussiness Organization**	After successful completion of this course the students will be **CO1.** Identify the important business functions provided by such as enterprise resource planning. **CO2.** Describe basic concepts of ERP systems for manufacturing or service companies. **CO3.** Analyze the technical aspect of telecommunication systems, internet and their roles in business environment. **CO4.** Describe various market types of ERP.
3.	**Office Automation Tools**	After successful completion of this course the students will be able Co1:Understand concept of word processor and use its features. Co2: to work comfortably with Ms-Excel Environment. Co3:To create work sheets and user advanced feature of Excel. Co4:To create make presentations and inserting multimedia in them.
4.	**Programming in C and C++**	After successful completion of this course the students will be CO1. Develop programming skills CO2.Be familiar with programming environment of C and C++. CO3:Understanding a functional hierarchical code organization. CO4:Evaluate comparisions and limitations of the various programming constructs and choose correct one for the task in hand.

5.	**Database Management System**	After successful completion of this course the students will be **CO1.** Understand the fundamental concepts of a database system. **CO2.** Analyze database requirements and determine the entities involved in thesystem and their relationship to one another. **CO3.** Develop the logical design of the database using data modelling concepts such as entity-relationshipdiagrams. **CO4.** Able to create relational tables from entity-relationshipdiagrams. **CO5.** Able to manipulate a database using SQL and develop programming skills in SQL and PL/SQL.
6.	**E-Commerce Application development**	After successful completion of this course the students will be **CO1.**Evaluate e-commerce markets and transactions, including supplychains. **CO2.** Understand the various technologies and public policies of E-Commerce. **CO3.**Able to design Infrastructure of E-Commerce.
7.	**Real Time Governance System**	After successful completion of this course the students will be **CO1.** Understand the terms regarding Goverance ,E-Governance and RTGS **CO2.** Learn about **E-**Governance Infrastructure. **CO3:**Understand the E-Governance implementation in several countries. **CO4:**Understand the applications of RTG.

SEMESTER-I
COURSE 1: FUNDAMENTALS OF COMMERCE

Theory: 4 hrs/week   Credits: 4

Unit 1: Introduction: Definition of Commerce – Role of Commerce in Economic
Development- Role Commerce in Societal Development. Imports and Exports,
Balance of Payments. World Trade Organization.

Unit 2: Economic Theory: Macro Economics – Meaning, Definition, Measurements
of NationalIncome, Concepts of National Income. Micro Economics –
Demand   and Supply. Elasticity of Demand and Supply. Classification of
Markets – Perfect Competition – Characteristics – Equilibrium Price,
Marginal Utility.
.

Unit 3: Accounting Principles: Meaning and Objectives Accounting, Accounting
Cycle - Branches of   Accounting - Financial Accounting, Cost Accounting,
Management Accounting. Concepts and Conventions of Accounting – GAAP.

Unit 4: Taxation: Meaning of Tax, Taxation - Types of Tax- Income Tax, Corporate
Taxation, GST,Customs & Exercise. Differences between Direct and Indirect
Tax – Objectives of Tax- Concerned authorities – Central Board of Direct
Taxes (CBDT) and Central Board of Excise and Customs (CBIC).

Unit 5: Computer Essentials: Web Design - Word Press Basics, Developing a Simple
Website. Digital Marketing - Social Media Marketing, Content Marketing,
Search Engine Optimization (SEO), E-mail Marketing. Data Analytics-
Prediction of customer behavior, customized suggestions.

COURSE 2: BUSINESS ORGANIZATION

Theory   Credits: 4   4 hrs/week

Unit 1: Business: Concept, Meaning, Features, Stages of development of business and importance of business. Classification of Business Activities. Meaning, Characteristics,Importance and Objectives of Business Organization.. Difference between Industry & Commerceand Business & Profession,Modern Business and their Characteristics.

Unit 2: Promotion of Business: Considerations in Establishing New Business. Qualities of a Successful Businessman. Forms of Business Organization - Sole Proprietorship, Partnership, Joint Stock Companies & Co-operatives and their Characteristics, relative merits and demerits, Difference between Private and Public Company, Concept of One Person Company.

Unit 3: Plant Location and Layout: Meaning, Importance, Factors affecting Plant Location. Plant Layout - Meaning, Objectives, Importance, Types of Layout. Factors affecting Layout.Size of Business Unit - Criteria for Measuring the Size and Factors affecting the Size. Optimum Size and factors determining the Optimum Size.

Unit 4: Business Combination: Meaning, Characteristics, Objectives, Causes, Forms and Kindsof Business Combination. Rationalization: Meaning, Characteristics, Objectives, Principles, Merits and demerits,Difference between Rationalization and Nationalization.

Unit 5: Computer Essentials: Milestones of Computer Evolution – Computer, Block diagram, generations of computer . Internet Basics - Internet, history, Internet Service Providers,Types of Networks, IP, Domain Name Services, applications. Ethical and Social Implications - Network and security concepts- Information Assurance Fundamentals, Cryptography - Symmetric and Asymmetric, Malware, Firewalls, Fraud Techniques, privacy and data protection

COURSE 3: O F F I C E   A U T O M A T I O N   T O O L S

Theory   Credits: 3   3 hrs/week

Unit 1:Introduction to MS Office & MS Word: MS-Word: Features of MS-Word,MS-Word Window components, working with formatted text, Shortcut keys, Formatting documents: Selecting text, Copying &moving data, Formatting characters, changing cases, Paragraph formatting ,Indents, Drop Caps ,Using format painter, Page formatting, Header & footer, Bullets & numbering, Tabs, Forming tables. Finding & replacing text, go to(F5) command, proofing text (Spell-check, Auto correct),

Case Study:
1. Create a document to write a letter to the DM&HO of the district complaining aboutHygienic conditions in your area.
2. Create a document to share your experience of your recent vacation with family.

Unit 2: MS Word Advanced features: Difference between Wizard and Template - Customize the Quick Access Tool Bar – Macros: Purpose – Creating Macro – Using Macro – Storing Macro - ,Inserting pictures: From Computer, Online Pictures – Insert 3d Models - Insert Shapes – Insert Text Box– Insert Equation, Hyperlinks,Tables Insert tables Mail merging, Printing documents, Tables : Insert tables, Mathematical calculations on tables data. Insert Text Box etc.

Case Study:
1. Create a document to send a holiday intimation to all the parents at time about Dasara Vacation.
2. Create a document to create Time Table of you class using tables.

Unit 3: Introduction to MS Excel & Its features: MS-Excel: Excel Features, Spreadsheets, workbooks, creating, saving & editinga workbook, Renaming sheet, cell entries and columns Filling series, fill with drag, data sort, Formatting worksheet, Functions and its parts, Some useful Functions in Excel (SUM,AVERAGE,COUNT, MAX,MIN, IF),

Case Study:
1. Create a worksheet with you class marks displaying total, average, top marks in the classand least marks in the class.

Unit 4: Ms-Excel Advanced Features: Cell referencing (Relative, Absolute, Mixed), What-if analysis, Introduction to charts: types of charts, creation of charts, printing a chart,printing worksheet – Sort – Filters – View Menu**.**

Case Study:
1. Prepare a chart with height and weights of you class mates in atleast 3 types of charts.
2. Demonstrate the use of Filter with the attendance data of your class.

Unit 5: Ms-PowerPoint and its Applications: MS-Power Point: Features of Power Point, Uses, components of slide, templates and wizards, using template, choosing an auto layout ,using outlines, adding sub headings, editing text, formatting text, using master slide, adding slides, changing color scheme, changing background and shading, adding header and footer, adding cliparts and auto shapes. Various presentation,Working in slide sorter view(deleting, duplicating, rearranging slides),adding transition and animations to slide show, inserting music or sound on a slide, viewing slide show**,**Printing slides.

Case Study:

1. Prepare a presentation with your achievements and experiences in College.

Text Books:
1. Computer Fundamentals–Pradeep.K.Sinha:BPBPublications.
2. Fundamentals of Computers -ReemaThareja, Oxford University Press India

Reference Books:
1. Fundamentals of Computer – V . Rajaraman, Printice Hell of India.
2. Introduction to Computers–Peter Norton McGraw-Hill.

Practical   Credits: 1   2 hrs/week

LIST OF EXPERIMENTS

1) Design a visiting card for Managing Director of a company as per the followingspecification.
   o Sizeofvisitingcardis3½×2

   o Name of the company with big font

   o Phone number, Fax number and E-mail address with appropriate symbols.

   o Office and Residence address separated by a line

2) Create a table with following columns and display the result ins eparatecells for the following
   o Emp Name, Basic pay, DA, HRA, Total salary.

   o Sort all the employees in ascending order with the name as the key

   o Calculate the totals alary of the employee

   o Calculate the Grand total salary of the employee

   o Finding highest salary and

   o Find lowest salary

3) Prepare an advertisement to a company requiring software professionalwith the following

   o Attractive page border

   o Design the name of the company using WordArt

   o Use at least one clipart.

   o Give details of the company (use bullets etc)

Give details of the Vacancies in each category of employee's (Business manager, Software engineers, System administrators, Programmers, Data entry operators)qualification required.

4) Create a letter having following specifications

- o Name ofthecompanyonthetopofthepage2withbigfontandgoodstyle

- o Phone no, Fax no and E-mail address with symbols.

- o Main products manufactured by the company

- o Slogans if any should be specify in bold at the bottom

5) Create two pages of curriculum vitae of a graduate with the
followingspecifications

- o Table to show qualifications with proper headings

- o Appropriate left and right margins

- o Format ½pageusingtwo-columnapproachabout yourself

- o Name on each page at the top right side

- o Page no.in the footer on the right side.

6) Write a macro format documents below

- o Linespacing"2"(double)
- • Paragraphindentof0.1
- • Justification formatting style
- • Arial font andBoldof14pt-size

7) Create a letter as the maindocumentandcreate10recordsforthe

10persons

usemailmergetocreateletterforselectedpersonsamong10.

8) Create an electronic spread sheet in which you enter the following
decimal numbers and convert the mintooctal, Hexa decimal an d binary
numbers and vice-versa.

DecimalNumbers:35,68,95,78,165,225,355,375,465

BinaryNumbers:101,1101,11101,11111,10001,11101111

9) Calculate the net pay of the employees following the conditions below.

	A	B	C	D	E	F	G	H	I
1	Employee	Employee	Basic	DA	HRA	GPF	Gross	Income	Net
2									

DA:-56%ofthebasicpayifBasicpayisgreaterthan20000 orelse44%.HRA:-
15%oftheBasicpaysubjecttomaximumofRs.4000.GPF: -10%ofthebasicpay.

INCOMETAX:-10%ofbasicifBasicpayisgreaterthan20000. Find who is getting
highest salary & who is get lowest salary?

10. The ABC Company shows the sales of different product For5years.CreateBARGraph,3D and Pie chart for the following.

A S.No.	B Year	C Pro1	D Pro2	E Pro3	F Pro4
1	1989	1000	800	90	1000
2	1990	800	80	50	900
3	1991	1200	190	40	800
4	1992	400	200	30	1000
5	1993	1800	400	40	1200

10) Create a suitable examination data base and find the sum of the marks
(total) ofeach student and respective, class secured by the student.

Pass: if marks in each subject>=35Distinction :if average>=75First class :if
average>=60but<75 Second class: if average>=50butlessthan60
Third class: if average>=35butlessthan50 Fail: if marks in any subject<35

11) Enter the following data into the sheet.

Name	Department	Salary
Anusha	Accounts	12000
Rani	Engineering	24000
Lakshmi	Accounts	9000
Purnima	Marketing	20000
Bindu	Accounts	4500
Tejaswi	Accounts	11000
Swetha	Engineering	15000
Saroja	Marketing	45000
Sunitha	Accounts	5600
Sandhya	Engineering	24000
Harika	Marketing	8000

o Extract records for department tin Accounts and Salary > 10000

o Sort the data by salary with the department using "sort commands".

o Calculate total salary for a ch department using Subtotals

12) Enter the following data in to the sheet..

	Raju	Rani	Mark	Rosy	Ismail	Reshma
English	76	89	43	51	76	87
2ndLang	55	85	78	61	47	33
Maths	65	82	34	58	52	65
Computers	45	91	56	72	49	56
Human Values	51	84	54	64	32	64

Apply the conditional formatting for marks 35 below Red 35 to 50 Blue 51
to 70 Green 71 to 100 Yellow

13) Create a presentation using templates.
14) Create a Custom layout or Slide Master for professional presentation.

15) Create a presentation with slide transitions and animation effects.

16) Create a table in PPT and apply graphical representation.

OAT MODEL PAPER

SECTION-A

Answer any FIVE questions   5x4=20

1.How to design header & footer in word?

2.What is find & replace options in word

3.Explain macros

4.How to insert shapes and text boxes in word

5.How to save & editing workbook

6.Explain what if analysis

7.How to adding transition and animations to slide show

8.How to changing background and shading to a slide

SECTION-B

Answer ALL questions   5X8=40

9.A.What are the features of Ms-Word? (OR)

 B.Explain the Parts of Ms-Word window?

10 .A.Explain the Difference between wizard and Templates(OR)

  B.How to create Tables in ms-word?

11 A.Explain features of Ms-Excel (OR)

  B.Explain Functions of Ms-Excel

12 A.What are the different types of charts in Ms-Excel? (OR)

  B.Write the process to prepare students results table using formulas in Ms-Excel

13.A Explain the features of powerpoint? (OR)

  B. Write the process to prepare a powerpoint presentation with designs and animations

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B.Com (Computer Applications)-CBCS/Semester System			
Year	Semester	Course Code	Course Title
II	III	COV3C	Programming in C and C++

Syllabus

UNIT- I:

Introduction and Control Structures: History of 'C' - Structure of C program – C character set, Tokens, Constants, Variables, Keywords, Identifiers – C data types - C operators - Standard I/O in C - Applying if and Switch Statements.

UNIT- II:
Loops And Arrays: Use of While, Do While and For Loops - Use of Break and Continue Statements - Array Notation and Representation - Manipulating Array Elements - Using Multi Dimensional Arrays.

UNIT -III:
Strings and Functions: Declaration and Initialization of String Variables - String Handling Functions - Defining Functions - Function Call - Call By Value, Call By Reference – Recursion.

UNIT -IV:
Principles of Object Oriented Programming: Procedure Oriented Programming, Object Oriented Programming, Basic concepts of Object Oriented Programming, Applications of C++, A simple C++ Program, An example with Class, Structure of C++ Program, Creating source file, Compiling and Linking.

UNIT- V:
Classes and Objects: Tokens, Keywords, Declaration of Variables, Dynamic initialization of variables, Specifying a Class, Defining member functions, Function overloading, Operator overloading, Constructors and Destructors, Inheritance and types of Inheritance.

REFERENCES:
 1. Mastering C by K R Venugopal and Sudeep R Prasad, McGraw Hill.
2. Expert C Programming: Deep Secrets Kindle Edition Peter van der Linden.
 3. Let Us C YashavantKanetkar.
 4. The C++ Programming Language Bjarne Stroustrup.
 5. C++ Primer Stanley B. Lippman, Josée Lajoie, Barbara E. Moo

MODEL QUESTION PAPER – THEORY
B.Com. DEGREE EXAMINATIONS
Semester: III(Computer Applications)
Programming With C&C++

Time: 3 Hours.   Max Marks: 60

Section-A

Answer any FIVE of the following questions.   5X4=20M

1. Write the Structure of C program

2. Write about Break and Continue Statement.

3. What is recursion? Write an example program for recursion.

4. Write the Structure of C++ Program.

5. What is Inheritance? What are the types of Inheritance?

6. Write the Tokens and Constants in C Language.

7. Write Declaration and Initialization of String.

8. Write about operator overloading.

Section-B

Answer FIVE questions.   5X8=40M

9. a) Write about Data Types and Operators in C Language.

                    (OR)

   b) Write about If and Switch Statement with examples.

10. a) Write about types of Loops in C Language with Flow Charts and
        example syntax. (OR)

    b) Write about Array Declaration and Initialization and write a C
       program

     for Addition of two   arrays.

11. a) Write about different types of String handling functions (OR)

    b) Explain Call by Value and Call by Reference with examples.

12. a) Explain about basic concepts of OOP. (OR)

    b) Write about Creating source file, Compiling and Linking.

13. a) Explain about types of Constructors. (OR)

    b) Explain about different types of Inheritances.

B.Com (Computer Applications)-CBCS/Semester System			
Year	Semester	Course Code	Course Title
II	IV	COC4F	Database Management System

Syllabus

UNIT- I:

Overview of Database Management System: Introduction, Data and Information, Database,Database Management System, Objectives of DBMS, Evolution of Database Management System, Classification of Database Management System.

UNIT- II:

File-Based System: File Based System. Drawbacks of File-Based System, DBMS Approach, Advantage of DBMS, Data Models, Components of Database System, Database Architecture,DBMS Vendors and their products.

UNIT- III:

Entity-Relationship Model: Introduction, The Building Blocks of an Entity-Relationship, Classification of Entity Set, Attribute Classification, Relationship Degree, Relationship Classification, Generalization and Specialization, Aggregation and Composition, CODD's Rules, Relational Data Model, Concept of Relational Integrity.

UNIT -IV:

Structured Query Language: Introduction, History of SQL Standards, Commands in SQL,Data types in SQL, Data Definition Language (DDL),Selection Operation Projection Operation,Aggregate Functions, Data Manipulation Language, Table Modification, Table Truncation, Imposition of Constraints, Set Operations.

UN IT- V:

PL/SQL:Introduction, Structure of PL/SQL,PL/SQL Language Elements, Data Types, Control Structure, Steps to Create a PL/SQL Program, Iterative Control Cursors, Steps to Create a Cursor, Procedure, Functions, Packages, Exceptions Handling, Database Triggers, Types of triggers.

LEARNING RESOURCES:

REFERENCES:

1. Paneerselvam:Database Management system, PHI.

2. David Kuklinski, Osborne, Data management system McGraw Hill Publication.

3. Shgirley Neal And Kenneth LC Trunik Database management system in Business-PHI.

4. Godeon C. EVEREST, Database Management-McGraw Hill Book Company.

5. MARTIN,Database Management-Prentice Hall of India, New Delhi.

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MODEL QUESTION PAPER – THEORY
B.Com. DEGREE EXAMINATIONS
II YEAR Semester: IV(Computer Applications)
Data Base Management Systems

Time: 3 Hours.   Max Marks: 75

Section-A

Answer any FIVE of the following questions.   5X5=25M

1. What is the difference between Data and Information?

2. Write the advantages of DBMS.

3. Write about classification of Entity Set?

4. What are the Data Types in SQL?

5. Write the steps to create PL/SQL program.

6. What are the components of DBMS?

7. What is the Concept of Relational Integrity?

 8. Write about Cursors.

Section-B

Answer FIVE questions.   5X10=50M

9.   a) Explain about Classification of Database Management System.

                (OR)

     b) Explain about Objectives of Database Management System.

 10. a) Explain about Data Models.

                (OR)

     b) Explain about Database architecture.

11. a) Explain about Aggregation and Composition.

                (OR)

     b) Explain about concepts of ER Model with an example.

12. a) Explain about Data Definition Language commands with syntax.

                (OR)

     b) Explain the aggregate functions in SQL with syntax.

13. a) Explain about Exception Handling with example program.

(OR)

b) Explain about different types of Triggers.

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Course Code: Max Marks: 75
Course-**6C**: **E– COMMERCE APPLICATION DEVELOPMENT**

Syllabus

Unit-1:(10h)

Introduction to E– commerce:

Meaning and concept – E– commerce

E– commerce v/s Traditional Commerce

E– Business & E– Commerce – History of E– Commerce

EDI – Importance, features & benefits of E– Commerce

Impacts, Challenges & Limitations of E– Commerce

Unit-2:(12h)

Business models of E – Commerce: Business to Business

2.1.2 Business to customers

2.1.3Customers to Customers

Business to Government

Business to Employee

Influencing factors of successful E– Commerce

Architectural framework of Electronic Commerce

Web based E Commerce Architecture.

Internet Commerce

Unit-3:(12h)

Electronic data Interchange

EDI Technology

EDl- Communications

EDI Agreements

E– Commerce payment system.

Digital Economy

Unit -4:(13h)

A Page on the web - HTML Basics

Client Side scripting -JAVA SCRIPT basics

Server side Scripting- PHP basics.

Logging in to Your Word press Site
          word press dash board
          creating your first post
          adding photos and images
          creating hyper link
          adding categories and tags

Textbooks:

1. Turban, Rainer, and Potter, Introduction to E-Commerce, second edition, 2003
2. H. M. Deitel, P. J. Deitel and T. R. Nieto, E-Business and E-Commerce: How toPrograme, Prentice hall, 2001
3. WordPress All-in-One For Dummies -written by Lisa Sabin Wilson withcontributions by Michael Torbert, Andrea Rennick, Cory Miller, and Kevin Palmer

Course-6C: E-COMMERCE APPLICATION DEVELOPMENT

MODEL QUESTION PAPER

Max.Ma.rs:75   Time:3Hrs

Section—A

Answerany5Questions.   5X5=25M

1. Distinguish between E-Business and E-Commerce.
2. Write about the history of Ecommerce.
3. Write about E-Commerce Strategy.
4. What are the influencing factors of Successful E-Commerce?
5. Write about Digital Economy.
6. Write about the design structure of HTML page.
7. Write about variables in PHP.
8. Write about Word press dash board.

Section—B

Answer all **the questions.**   5X10=**50M**

9. a)Explain about EDI importance, features &benefits of E-Commerce.

(OR)

   b)Write about Impacts, Challenges and Limitations of E-Commerce.

10. a)Explain about the Business models of E-Commerce.

(or)

   b)Explain about Architectural frame work of Electronic Commerce.

11 a)Write about EDI Communication, Implementation and Agreements.

(or)

   b)Explain about E-Commerce payment system.

12 a)Explain about validation in java script with example.

(OR)

   b)Explain about A website evaluation model.

13 a)Explain about adding photos, editing an existing post in wordpress..

(or)

   b)Explain the usage of E-Commerce plug-in with example.

Domain Subject: **Computer Applications for Arts/Commerce**

Course Code: Max Marks: 75

Course-**7C: REAL TIME GOVERNANCE SYSTEM (RTGS)**

Syllabus:

UNIT 1: Introduction to E-Governance   12hrs

- Government, Governance and Good Governance
- What is E-Governance or Electronic Governance?
- E-Government and E-Governance: A conceptual Analysis
  - ❖ Objectives
  - ❖ Components
  - ❖ application domains
  - ❖ four phase model
  - ❖ implementing E-Governance
  - ❖ issues while implementing E-Governance
  - ❖ Opportunities and challenges
- Types of E-Governance
- What is Real-Time Governance (RTG)
- Real Time Governance Society (RTGS)

UNIT 2: E-Governance Infrastructure   14hrs

- Data Systems infrastructure
  - ❖ Executive Information Systems
  - ❖ Management Information Systems
  - ❖ Knowledge Management Systems
  - ❖ Transaction Processing Systems
- Legal Infrastructural preparedness
  - ❖ IT Act 2000
  - ❖ Challenges to Indian law and cybercrime scenario in India
  - ❖ Amendments of the Indian IT Act
- Institutional Infrastructural preparedness
  - ❖ Internet
  - ❖ intranet
  - ❖ extranet
- Human Infrastructural preparedness
  - ❖ Top-level management
  - ❖ Middle-level management
  - ❖ Low-level management

- Technological Infrastructural preparedness
    - ❖ Information and communications technology
    - ❖ Data Warehousing
    - ❖ Cloud Computing

UNIT 3: E-Governance: Country Experience   12hrs
- INDIA
- US
- UK
- AUSTRALIA
- DUBAI

UNIT 4: E-Governance in India   12hrs
- Andhra Pradesh
- Karnataka
- Kerala
- Uttar Pradesh
- Madhya Pradesh
- West Bengal
- Gujarat

UNIT 5: Latest Applications in Real Time Governance   10hrs
- Agriculture
- Rural Development
- Health care
- Education
- Tourism
- Commerce and Trade

Textbooks:

1. E-Governance: concepts and case studies| CSR Prabhu| Prentice-Hall|
2. E-Governance| Niranjanpani, Sanhari Mishra | Himalaya Publishing House

Course-7C:**REAL TIME GOVERNANCE**
SYSTEM(RTGS)
MODEL QUESTION PAPER

Max.Marks:75   Time:3 Hours
Section-A

Answer Any Five Questions   **5X5=25M**

1. Define RTGS

2. Explain about Good Governance   +

3. Short note on Knowledge Management System

4. Define Transaction Processing Systems

5. Define E-Governance in India.

6. Define Cloud Computing

7. Define Data Warehouse

8. Note on Commerce and Trade

Section-B

Answer ALL Questions   **5X10=50M**

9.a.Define E-Governance? Objectives. Components, application domains?

OR

b.Explain about the types of Real-Time Governance(RTG).

10.a.Explain Data Systems Infrastructure, Executive Information Systems and Management Information Systems.   OR

b.Explain Legal Infrastructural preparedness and Cyber Crime scenario in India.

11.a.Explain E-Governance, Country Experience of US.   OR

b.Explain E-Governance: Country Experience of INDIA.

12 a.Explain case study E-Governance in India of state Andhra Pradesh.

OR

b.Explain case study E-Governance in   of Gujarat state.

13.a.Write Applications in Real Time Governance in Agriculture sector?

OR

b.Write Applications in Real Time Governance in Education Sector.

CERTIFICATE COURSE ON OFFICE AUTOMATION

Objectives:

The main objective of this course is to provide complete Microsoft Office tools which will improve Technical Skill Development to develop self ability and self employment opportunities for Non Computer Students and Remote area students of our college.

Syllabus
Module 1: Definition of Computer-Characteristics of computer-hardware-software-Memories-I/O devices-operating Systems. Introduction to Google forms, Google Sheet and E-Mail browsing

Module 2: How to enter into the Ms-Word-Features of Ms-Word-Parts of Word window-Creating ,Saving, Editing of a Document-Page setup.

Module 3: Ms-Power point ,Photo Shop.

Module 4: How to enter into the Ms-Excel-Features of Ms-Excel-Parts of Ms-Excel window.

Module 5: Ms-Excel Functions-Excel Charts.

CO1:Understanding the fundamentals of computer characteristics, components and mail concepts
CO2:Understand Ms-office tools like word and power point

CO3:Analyze various formulas to calculate data using excel design various plots for analyzed data.