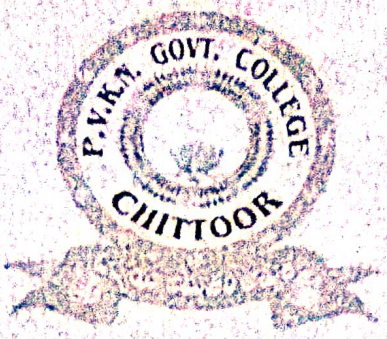
PVKN GOVT. COLLEGE (AUTONOMOUS), CHITTOOR



BOARD OF STUDIES

MINUTES OF THE MEETING

26-05-2020 at 10:00AM through CISCO WebEx Meeting

DEPARTMENT OF COMPUTER APPLICATIONS

PVKN GOVT. COLLEGE (AUTONOMOUS), CHITTOOR

BOARD OF STUDIES

MINUTES OF THE MEETING

26-05-2020 at 10:00AM through CISCO WebEx Meeting

DEPARTMENT OF COMPUTER APPLICATIONS

PVKN Govt. College(A), Chittoor

Department of Computer Applications
BOARD OF STUDIES MEMBERS

Category	Name of the Member
BOS Chairman	Sri. M.Samuel John Lecturer in Computer Science PVKN Govt. College(A), Chittoor Mobile: 9849400846 Mail ID: write2samuel@gmail.com
External members	
Two subject experts from outside parent university nominated by Academic Council	1. Dr. Jasmine Norman, Associate Professor, Dept. of Information Technology VIT, Vellore Mobile: 09444210125 Mail ID: jasmine@vit.ac.in
	2. Dr. J. Gitanjali, Asst. Professor Dept. of Information Technology VIT, Vellore Mobile: 09790101549 Mail ID: gitanjalij@vit.ac.in
University nominee	Dr. G. Anjan Babu, HOD, Department of Computer Science, Sri Venkateswara University, Tirupati. Mobile: 9959168462 Mail ID : gabsvu@gmail.com gababu@svuniversity.ac.in
Representative from Industry/Corporate sector/Allied area	N.Naresh Kumar Amma Infotech Chittoor. Mobile: 9032694654 Mail ID : naresh@ammainfotech.com, admin@nklocalisations.com
One meritorious Alumnus	R. Madhan Babu, MBA HR in Asistmi Solutions Pvt Ltd Mobile: 9000110081 Mail ID : rmbabu17@gmail.com

Signatures of the Members

Signature of the BOS Chairman

P.V.K.N GOVERNMENT COLLEGE, CHITTOOR (AUTONOMOUS)

(Re-Accredited with 'A' Grade by NAAC)

Department of COMPUTER APPLICATIONS

BOARD OF STUDIES MEETING - I - 2020-21

Date:26-05-2020 at 10:00AM through CISCO WebEx Meeting

Agenda

1. Update/Revise/Modify the syllabus of UG (BCom(CA)) V Semester paper entitled ***"Database Management System"*** .
2. Update/Revise/Modify the syllabus of UG (BCom(CA)) V Semester paper entitled ***"Web Technology".***
3. Update/Revise/Modify the syllabus of UG (BCom(CA)) III Semester paper entitled "***Programming in C".***
4. Update/Revise/Modify the syllabus of UG (BCom(CA)) I Semester paper entitled "***Information Technology".***
5. Question bank preparation for Papers of I, III & V semesters
6. Ratification of changed internal assessment component (pattern of Examinations)
7. Outline of UG (BCom(CA)) VI Semester cluster elective papers
8. Innovative Pedagogy of Teaching - Learning as per UGC guidelines
9. Proposals for organizing Seminars / Conferences/ workshops and Research projects from autonomous grant for the academic year 2020-21
10. Any suggestions in Evaluation and assessment pattern
11. Any other proposals with the permission of the chair.

P.V.K.N GOVERNMENT COLLEGE, CHITTOOR (AUTONOMOUS)

(Re-Accredited with 'A' Grade by NAAC)

Department of COMPUTER APPLICATIONS

BOARD OF STUDIES MEETING - 1 - 2020-21

Date:26-05-2020 at 10:00AM through CISCO WebEx Meeting

Agenda

1. *Update/Revise/Modify* the syllabus of UG (BCom(CA)) V Semester paper entitled ***"Database Management System"*** ,
2. *Update/Revise/Modify* the syllabus of UG (BCom(CA)) V Semester paper entitled ***"Web Technology"***,
3. *Update/Revise/Modify* the syllabus of UG (BCom(CA)) III Semester paper entitled ***"Programming in C"***,
4. *Update/Revise/Modify* the syllabus of UG (BCom(CA)) I Semester paper entitled ***"Information Technology"***,
5. *Question bank preparation for Papers of I, III & V semesters*
6. *Ratification of changed internal assessment component (pattern of Examinations)*
7. *Outline of UG (BCom(CA)) VI Semester cluster elective papers*
8. *Innovative Pedagogy of Teaching - Learning as per UGC guidelines*
9. *Proposals for organizing Seminars / Conferences/ workshops and Research projects from autonomous grant for the academic year 2020-21*
10. *Any suggestions in Evaluation and assessment pattern*
11. *Any other proposals with the permission of the chair.*

PVKN Govt. College (A), Chittoor

Department of Computer Applications

COURSE STRUCTURE

COURSE: B.COM (COMPUTER APPLICATIONS)

ıester	Paper Code	Subject	Hrs	Credits	Internal	External	Total
		FIRST YEAR					
	20-CAP-101	Information Technology	4	4	25	75	100
	20-CAP-101P	Information Technology Lab	2	2	-	50	50

Signatures of the Members

Signature of the BOS Chairman

NEW

PVKN Govt. College (A), Chittoor

B.Com (Computer Applications) - I YEAR, SEMESTER - I

INFORMATION TECHNOLOGY

Subject Code: 20-CAP-101 Credits: 04 Teaching Hrs/Week : 5

SYLLABUS

Course Outcomes

Upon successful completion of this course, students will be able to understand the working of a computer and its uses in various fields. They would develop familiarity in various internal parts of a Computer and understand the functioning of a variety of input and output devices. They will be able to protect their computer by installing anti-virus software and also apply their skills to assemble a computer system.

UNIT I

Exploring Computers and Their Uses: An Overview of Computer System: Define Computer- Computers for Individual Users - Computer for organizations- Importance of computers.

Looking Inside the Computer System: Describe the Machine- The parts of a Computer System - Hardware, Software, Data, Users, The Information Processing cycle , Essential Computer Hardware - Processing Devices- Memory Devices- System software - application Software.

UNIT II

Input Devices: The Keyboard, The mouse, The track ball, Scanner, Speech and gesture recognition. **Output Devices:** Monitors,CRT monitors, Flat Panel Monitors; PC projectors **Sound Systems** -Audio & Video devices (Multi-Media Device) ; **Hard copy devices** - Dot matrix printers , Ink Jet Printers , Laser Printers , Plotters. Mobile printing, Cloud printing, 3D printing

UNIT III

Modern CPU's: Microcomputer Processors- Intel, AMD, Freescale, IBM processors, Multi-core processors. Connecting computer to other devices - The Bus, Serial and Parallel ports, SCSI , MIDI , and other specialized expansion ports, Expansion slots and boards.

UNIT IV

Storing Information in a Computer: Magnetic Disks - hard disk , Floppy disk, Optical Storage devices - CDs, DVDs,Blu-Ray disks, External and Portable Hard Disks

UNIT V

How to Build a Computer: Knowing Computer Hardware Parts - Cataloging and purchasing the parts - Assembling the System -The first Boot -Installing Software - Maintenance of Computer- Anti-virus software: what is a virus?- Types of Viruses, Common Virus Symptoms, Various anti-virus software, Installing anti-virus software.

TEXT BOOKS :

1. Peter Norton , Introduction to Computers , 6th Edition , Tata McGraw – Hill.(UNIT-1 TO UNIT-4)
2. Jacob Beckerman , How to Build a Computer 2014-15: Learn, Select Parts, Assemble, and Install: A Step by Step Guide to Your First Homebuilt.(UNIT-5)
3. Computer Viruses for Dummies By Peter H. Gregory, Wiley.(UNIT-5)

REFERENCE BOOKS :

1. Leon A and Leon M, Computers for Everyone, Leon Vikas, 2001 .

Signatures of the Members

Signature of the BOS Chairman

UNIT V

How to Build a Computer: Knowing Computer Hardware Parts - Cataloging and purchasing the parts - Assembling the System -The first Boot -Installing Software - Maintenance of Computer- Anti-virus software: what is a virus?- Types of Viruses, Common Virus Symptoms, Various anti-virus software, Installing anti-virus software.

TEXT BOOKS :

1. Peter Norton , Introduction to Computers , 6th Edition , Tata McGraw – Hill.(UNIT-1 TO UNIT-4)
2. Jacob Beckerman , How to Build a Computer 2014-15: Learn, Select Parts, Assemble, and Install: A Step by Step Guide to Your First Homebuilt.(UNIT-5)
3. Computer Viruses for Dummies By Peter H. Gregory, Wiley.(UNIT-5)

REFERENCE BOOKS :

1. Leon A and Leon M, Computers for Everyone, Leon Vikas, 2001 .

Signatures of the Members

Signature of the BOS Chairman

OLD

PVKN Govt. College (A), Chittoor

B.Com (Computer Applications) - I YEAR, SEMESTER - I

INFORMATION TECHNOLOGY

Subject Code: 18-CAP-101 Credits: 04 Teaching Hrs/Week : 4

SYLLABUS

Course Outcomes

Upon successful completion of this course, students will be able to understand the working of a computer and its uses in various fields. They would develop familiarity in various internal parts of a Computer and understand the functioning of a variety of input and output devices. They will be able to protect their computer by installing anti-virus software and also apply their skills to assemble a computer system.

UNIT I

Exploring Computers and Their Users:

An Overview of Computer System: Define Computer- Computers for Individual Users - Computer for organizations- Importance of computers.

Inside the Computer System

Describe the Machine- Parts of a Computer System - Hardware, Software, Data, Users - Information Processing cycle - essential Computer Hardware - Processing Devices- Memory Devices- System software - application Software.

UNIT II

Input Devices: The Keyboard, The mouse, The track ball, Scanner. **Output Devices**: Monitors,CRT monitors, Flat Panel Monitors; PC projectors **Sound Systems** -Audio & Video devices (Multi-Media Device) ; **Hard copy devices** - Dot matrix printers , Ink Jet Printers , Laser Printers , Plotters.

UNIT III

Processing Data: How Computer process data- Data representation and Data processing in a computer. **Modern CPU's**: Microcomputer Processors- Intel, AMD, Freescale, IBM processors, Connecting computer to other devices - The Bus, Serial and Parallel ports, SCSI , MIDI , and other specialized expansion ports, Expansion slots and boards.

UNIT IV

Storing Information in a Computer: Magnetic Disks - hard disk , Floppy disk, Optical Storage devices - CDROM , DVD ROM , CD - Recordable , CD - Rewritable.

UNIT V

How to Build a Computer: Knowing Computer Hardware Parts - Cataloging and purchasing the parts - Assembling the System -The first Boot -Installing Software - Maintenance of Computer- Anti-virus software: what is a virus?- Types of Viruses, Common Virus Symptoms, Various anti-virus software, Installing anti-virus software.

TEXT BOOKS :

1. Peter Norton , Introduction to Computers , 6th Edition , Tata McGraw – Hill , 2008 .
2. Jacob Beckerman , How to Build a Computer 2014-15: Learn, Select Parts, Assemble, and Install: A Step by Step Guide to Your First Homebuilt.
3. Computer Viruses for Dummies By Peter H. Gregory, Wiley.

REFERENCE BOOKS :

1. Leon A and Leon M, Computers for Everyone, Leon Vikas, 2001 .

Signatures of the Members

Signature of the BOS Chairman

NEW

PVKN Govt. College(A), Chittoor

I B.Com Computer Applications; Semester - I

Information Technology

Subject Code: 20-CAP-101 Time : 3 hrs Max Marks : 75 M

MODEL QUESTION PAPER

SECTION-A

Answer any Five of the following Questions (5 x 3 = 15 Marks)

1. (a) Applications of computer
   (b) Any three Characteristics of Computer
   (c) Memory cards
   (d) Processor
   (e) GUI
   (f) Serial Bus
   (g) PCI cards
   (h) Processing Data
   (i) RAM
   (j) Flash memory

SECTION – B

Answer any ONE Question from each unit. (5 x 12 = 60 marks)

UNIT I

2. Define computer and explain the Organization of computer?
3. Explain about parts of the computer?

UNIT – II

4. Explain about keyboard and pointing devices.
5. With neat diagrams explain output devices CRT monitors and Printers.

UNIT - III

6. Write a short note on multi-core processors?
7. Explain different types of memory?

UNIT – IV

8. Briefly explain Magnetic storage devices.
9. Explain Optical storage devices and USB Flash devices?

UNIT – V

10. What is booting? Explain deferent steps for assembling computer.
12. What are the parts are needed to build a computer? Explain.

Signatures of the Members

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OLD

PVKN Govt. College(A), Chittoor

I B.Com Computer Applications; Semester - I

Information Technology

Subject Code: 18-CAP-101 Time : 3 hrs Max Marks : 75 M

MODEL QUESTION PAPER

SECTION-A

Answer any Five of the following Questions (5 x 3 = 15 Marks)

1. (a) Applications of computer
   (b) Any three Characteristics of Computer
   (c) Memory cards
   (d) Processor
   (e) GUI
   (f) Serial Bus
   (g) PCI cards
   (k) Processing Data
   (l) RAM
   (m) Flash memory

SECTION – B

Answer any ONE Question from each unit. (5 x 12 = 60 marks)

UNIT I

2. Define computer and explain the Organization of computer?
3. Explain about parts of the computer?

UNIT – II

4. Explain about keyboard and pointing devices.
5. Explain output devices CRT monitors and Printers.

UNIT - III

6. Explain Data processing and how the data is represented in computer?
7. Explain different types of memory?

UNIT – IV

8. Explain about Magnetic storage devices.
9. Explain Optical storage devices and USB Flash devices?

UNIT – V

10. What is booting? Explain deferent steps for assembling computer.
11. What are the parts are needed to build a computer? Explain.

Signatures of the Members

Signature of the BOS Chairman

NEW

PVKN Govt. College(A), Chittoor

I B.Com Computer Applications; Semester – I
Information Technology Lab

Subject Code: 20-CAP-101P | Credits: 02 | Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Understanding the standard computer components: Mother Board, Power Supply, CPU, RAM, Disk Drives, Video Card, NIC, etc
2. Connecting devices to the computer: Key Board, Mouse, Printer, Scanner
3. Types of Printers: Dot Matrix Printers, Ink Jet Printers, Laser Printers
4. Types of Monitors: CRT, Flat panel monitors, etc
5. Understanding Serial Ports and Parallel Ports
6. Memory Hierarchy and Memory Devices
7. Installation of DVD Writer Software
8. Assembling the Computer System
9. Installation of Operating System
10. Installation of Anti-Virus Software

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for program, 10 mark for viva and 10 marks for record .

Practicals	**50 marks**
Program	30
Viva-Voce	10
Record	10

Signatures of the Members

Signature of the BOS Chairman

I B.COM(CA) I SEM - INFORMATION TECHNOLOGY
QUESTION BANK
UNIT - 1

3 MARKS

1. Explain the importance of Computers. (OR) Explain the various applications of computers.
2. Differentiate between application software and system software.
3. What is the difference between data and information?

12 MARKS

1. What is a computer? Explain a block diagram of a digital computer with an example? (Or) Explain basic organization and its functionalities with a neat diagram?
2. Explain about parts of the computer.
3. Identify four categories of computer hardware. (OR) Explain the different types of Hardware (or Essential of Computer Hardware)
4. Explain the two main types of computer software. (OR) What is Software and explain various type of Computer Software?

UNIT - 2

3 MARKS

1. What are the various Hardcopy devices
2. Distinguish between impact and nonimpact printers

12 MARKS

1. List and explain various input devices with example (Or) What is input and explain any 5 input devices?
2. List and explain various output devices computer supports.
3. Explain the various Softcopy devices and its advantages and disadvantages.
4. What is output? Explain the classifications of printers and its limits and delimits?

UNIT - 3

3 MARKS

1. Define MIDI
2. Explain about processor

12 MARKS

1. Explain Data processing and how the data is represented in the computer? (OR) Explain data representation in computer systems. (Or) Explain about data processing.
2. Differentiate between RISC and CISC processors.
3. What is port? Explain different types of ports. (OR) Explain about serial and parallel ports.

UNIT- 4

3 MARKS

1. Differentiations between RAM and ROM (Or) What are the differences between RAM and ROM?
2. Explain about USB Flash devices?

12 MARKS

1. Explain about computer Memories. (OR) Explain different types of computer memories (RAM and ROM).
2. Explain about Magnetic storage devices? (OR) Explain about Floppy disk and Hard disk.
3. How will the data be stored in optical storage devices? List and explain various optical storage devices?

UNIT - 5

3 MARKS

1. What is Booting? Explain the booting process
2. List the various types of virus?

12 MARKS

1. What is booting? Explain different steps for assembling computers.
2. What are the parts needed to build a computer? Explain.
3. What are the steps to install the antivirus software?

PVKN Govt. College (A), Chittoor

Department of Computer Applications

COURSE STRUCTURE

COURSE: B.COM (COMPUTER APPLICATIONS)

Semester	Paper Code	Subject	Hrs	Credits	Internal	External	Total
SECOND YEAR							
III	20-CAP-301	Programming in C	4	4	25	75	100
	20-CAP-301P	Programming in C Lab	2	2	-	50	50

Signatures of the Members

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NEW

PVKN Govt. College(A), Chittoor

B.COM (COMPUTER APPLICATIONS) – II YEAR, SEMESTER – III

PROGRAMMING IN C

Subject Code: 20-CAP-301 Credits: 04 Teaching Hrs/Week : 4

SYLLABUS

Course Outcomes

Upon successful completion of this course, students will be able to

- Write algorithms and draw flowcharts for solving various problems
- Understand how to use control statements and looping statements in writing a program
- Write programs in C using arrays, strings and functions
- Exercise user defined data types including structures and unions to solve problems
- Develop familiarity in storing and manipulating data in Files.

UNIT -I

Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Flow Charts – Generation of Programming Languages – Structured Programming Language

Introduction to C: Introduction – Structure of C Program – Writing the first C Program – Compiling and Executing C Programs – Using Comments – Keywords – Identifiers – Basic Data Types in C – Variables – Rules for defining variables– Constants – I/O Statements in C- Operators in C- Programming Examples – Type Conversion and Type Casting.

UNIT -II

Decision Control and Looping Statements: Introduction to Decision Control Statements – Conditional Branching Statements – Iterative Statements – Nested Loops – Break and Continue Statement – Goto Statement

Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive function

UNIT -III

Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array –Operations on Array – Two dimensional Arrays –Operations on Two Dimensional Arrays

Strings: Introduction ,Operations on Strings, String and Character functions

UNIT -IV

Pointers: Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables – Pointer Expressions and Pointer Arithmetic – Passing Arguments to Functions using Pointer – Call by value and Call by reference - Pointer and Arrays

Structure, Union, and Enumerated Data Types: Introduction – Nested Structures – Arrays of Structures – Structures and Functions - Unions – Enumerated Data Types

UNIT- V

Files: Introduction to Files – Using Files in C – Reading Data from Files – Writing Data to Files – Detecting the End-of-file –Close a file – Random Access Files – Binary Files – Command line arguments

TEXT BOOK

1. Introduction to C programming by REEMA THAREJA, 2ed from OXFORD UNIVERSITY PRESS

REFERENCE BOOKS

1. E Balagurusamy: —COMPUTING FUNDAMENTALS & C PROGRAMMING – Tata McGraw-Hill, Second Reprint 2008, ISBN 978-0-07-066909-3.
2. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson Edition
3. Henry Mullish & Huubert L.Cooper: The Spirit of C An Introduction to modern Programming, Jaico Pub. House.

Signatures of the Members

Signature of the BOS Chairman

OLD

PVKN Govt. College(A), Chittoor

B.COM (COMPUTER APPLICATIONS) – II YEAR, SEMESTER – III

PROGRAMMING IN C

Subject Code: 18-CAP-301 Credits: 04 Teaching Hrs/Week : 4

SYLLABUS

Course Outcomes

Upon successful completion of this course, students will be able to

- Write algorithms and draw flowcharts for solving various problems
- Understand how to use control statements and looping statements in writing a program
- Write programs in C using arrays, strings and functions
- Exercise user defined data types including structures and unions to solve problems
- Develop familiarity in storing and manipulating data in Files.

UNIT -I

Introduction to Algorithms and Programming Languages: Algorithm – Key features of Algorithms – Flow Charts – Generation of Programming Languages – Structured Programming Language

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UNIT -III

Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array –Operations on Array – Two dimensional Arrays –Operations on Two Dimensional Arrays

Strings: Introduction ,Operations on Strings, String and Character functions

UNIT -IV

Pointers: Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables – Pointer Expressions and Pointer Arithmetic – Passing Arguments to Functions using Pointer – Call by value and Call by reference - Pointer and Arrays

Structure, Union, and Enumerated Data Types: Introduction – Nested Structures – Arrays of Structures – Structures and Functions - Unions – Enumerated Data Types

UNIT- V

Files: Introduction to Files – Using Files in C – Reading Data from Files – Writing Data to Files – Detecting the End-of-file –Close a file – Random Access Files – Binary Files – Command line arguments

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2. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson Edition
3. Henry Mullish & Huubert L.Cooper: The Spirit of C An Introduction to modern Programming, Jaico Pub. House.

Signatures of the Members

Signature of the BOS Chairman

NEW

PVKN Govt. College(A), Chittoor

II B.COM, COMPUTER APPLICATIONS, SEMESTER – III

(PROGRAMMING IN C)

Subject Code: 20-CAP-301 Time : 3 hrs Max Marks : 75 M

MODEL QUESTION PAPER
SECTION – A

Answer any Five of the following Questions **(5 x 3 = 15 Marks)**

1. a) What are the generations of programming languages?
   b) Define keyword. List out some keywords.
   c) Difference between while and do-while.
   d) Explain getchar() and putchar() statements.
   e) What is a recursive function. What are its applications?
   f) What is a string? Declare a string of 10 characters.
   g) Define pointer. What are the uses of pointers?
   h) Difference between Structure and Union.
   i) Write about File opening modes in 'C'.
   j) What is a binary file? What functions are used to read and write into a binary file?

SECTION - B

Answer any ONE Question from each unit. **(5 X 12 = 60 marks)**

UNIT I

2. a. Write an algorithm to add two numbers.
   b. Define different categories of High-level Languages.

(or)

3. a. Explain the importance and uses of C language.
   b. Expalin scanf() and printf() statements.

UNIT – II

4. Define branching and iterative statements.

(or)

5. Describe recursive functions with suitable example.

UNIT - III

6. What is an array? Explain the types of arrays?

(or)

7. Explain any six string functions in C.

UNIT – IV

8. With the help of programs explain the difference between call by value and call by reference.

(or)

9. What is structure? How to create structure and explain with suitable example.

UNIT – V

Explain various file handling functions in 'C'
(or)
Write a short note on command-line arguments

Signatures of the Members

Signature of the BOS Chairman

NEW

PVKN Govt. College(A), Chittoor

II B.COM, COMPUTER APPLICATIONS, SEMESTER – III

(PROGRAMMING IN C)

ubject Code: 20-CAP-301

BLUE PRINT FOR THE MODEL PAPER

S. No.	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
1	Section - A (Short Questions)	10	3	30	5	3	15
2	Section - B (Essay Questions)	10	12	120	5	12	60
Total Marks				**150**	**Total Marks**		**75**

BLUE PRINT FOR THE QUESTION PAPER SETTING

Chapter Name	Essay Question 12 Marks	Short Questions 3 Marks	Marks allotted to the Chapter
UNIT – I	2	2	30
UNIT – II	2	2	30
UNIT – III	2	2	30
UNIT – IV	2	2	30
UNIT – V	2	2	30
Total No. of Questions	**10**	**10**	**150**

Signature of the BOS Chairman

Signatures of the Members

NEW

PVKN Govt. College(A), Chittoor

II B.Com Computer Applications; Semester – III
(PROGRAMMING IN C LAB)

Subject Code: 20-CAP-301P | Credits: 02 | Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Sum and Average of given three numbers
2. Conditional operator- The biggest of two numbers
3. Finding the roots of A quadratic equation
4. Armstrong number
5. Factorial of a number
6. Fibonacci Series
7. Sum of the digits, Reverse and Palindrome
8. Pascal's Triangle
9. Matrix Multiplication
10. String handling functions
11. Employee details using Structure
12. Reading and writing into files

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for Program, 10 mark for viva and 10 marks for record.

	50 marks
Practicals	30
Program	10
Viva-Voce	10
Record	

Signature of the BOS Chairman

Signatures of the Members

II B.COM(CA) III SEM - PROGRAMMING IN C
QUESTION BANK
UNIT - 1

3 MARKS

1. Define Keywords. List out some keywords.
2. Explain the key features of algorithms?
3. Write a C program for the largest of 3 numbers?
4. Explain about C Tokens?
5. Explain the characteristics of C languages.

12 MARKS

1. Explain the structure of the C program?
2. Define variable? Explain the rules for defining variables.
3. Explain various data types in C language.
4. Explain about the flowchart symbols and their usage.

UNIT - 2

3 MARKS

1. Define Recursive function in C?
2. Difference between break and continue?
3. Explain various parts of the function.
4. Explain about scope of variables
5. Explain various unconditional statements.

12 MARKS

1. Explain decision control statements or conditional branching statements in C languages?
2. Describe various Iterative or Looping statements in C languages.
3. Explain the various Nested Loops in C languages.
4. Explain about the function and its uses and its declaration?
5. Explain various storage classes in C?

UNIT - 3

3 MARKS

1. Explain about the One Dimensional array?
2. Show various string functions
3. How to calculate the length of an array size of operator
4. Explain about String.h?

12 MARKS

1. What is an Array? Explain the types of Array?
2. Explain any six String functions in C.
3. Explain about the Arrays in C?
4. Explain various operations on two dimensional arrays?

UNIT- 4

PVKN GOVT. COLLEGE(A), CHITTOOR.
B.Com (COMPUTER APPLICATIONS)

NEW

SEMESTER V

Sl. No.	Course	Name of the Subject	Total Marks	Mid. Exam	Sem. End Exam	Teaching Hours	Credits
1.	Elective – DSC 1F/Inter-disp.	**1. Computer Applications** 18-CAP-501 - Data Base Management Systems	100	25	75	4	4
		18-CAP-502 -Web Technologies	100	25	75	4	4
		18-CAP-501P - Database Management Systems Lab (50marks)	50	--	50	2	2
		18-CAP-502P – Web Technologies Lab (50marks)	50	--	50	2	2
2.	Elective – DSC 2F/Inter-disp.	**2. E-Commerce** 18-CAP-503 - e-Commerce	100	25	75	4	4
		18-CAP-504 -Business Networks	100	25	75	4	4
		18-CAP-503P-e-Commerce Lab(50marks)	50	--	50	2	2
		18-CAP-504P- Business Networks Lab(50marks)	50	--	50	2	2
TOTAL			**300**	**50**	**250**	**12**	**12**

Note 1 : Practical Examination in each Paper of Elective 1 and 2 for 50 marks.

2. A candidate has to select **One Stream of Elective only.**

OLD

	Course	Name of the Subject	Total Marks	Mid. Exam	Sem. End Exam	Teaching Hours	Credits
	Elective – DSC 1F/Inter-disp.	**1. E-Commerce**					
		e-Commerce	100	25	75	4	4
		Business Networks	100	25	75	4	4
		Practical(50marks)	50	--	50	2	2
		Practical(50marks)	50	--	50	2	2
	Elective – DSC 2F/Inter-disp.	**2. Computer Applications**					
		Data Base Management System	100	25	75	4	4
		Web Technology	100	25	75	4	4
		Practical (50marks)	50	--	50	2	2
		Practical (50marks)	50	--	50	2	2
TAL			**300**	**50**	**250**	**12**	**12**

Note 1 : Practical Examination in each Paper of Elective 1 and 2 for 50 marks.

2. A candidate has to select **One Stream of Elective only.**

OLD

ELECTIVE I : E-COMMERCE

DSC F 5.4 E-COMMERCE

Unit-I: e-Commerce: Features of Electronic Commerce - Distinction between e-Commerce and e-Business - Types of Business Models: B2B, B2C, C2C - Benefits and Limitations of e-Commerce - Apps.

Unit-II: e-Business Applications: Integration and e-Business suits - ERP, e-SCM, e-CRM - Methods and benefits of e-Payment Systems –e-Marketing – Applications and issues

Unit-III: e-Business on different Fields: e-Tourism – e-Recruitment – e- Real Estate – e-Stock Market – e-Music/Movies - e-Publishing and e-Books.

Unit-IV: Concept of Online Education: Process - Methods - e-Content development and Deliveries - Major technologies used in e-Education - Online Testing - Methods - Future Trends.

Unit-V: Mobile Commerce: Ticketing - Me-Seva; Government and Consumer Services – e-Retailing - e-Groceries – Security challenges - Case Studies.

References:

1. Turban E. Lee J., King D. and Chung H.M: Electronic commerce-a Managerial Perspective,Prentice-Hall International, Inc.
2. Bhatia V., E-commerce, Khanna Book Pub. Co. (P) Ltd., Delhi.
3. Daniel Amor, E Business R (Evolution), Pearson Education.
4. Krishnamurthy, E-Commerce Management, Vikas Publishing House.
5. David Whiteley, E-Commerce: Strategy, Technologies and Applications, Tata McGraw Hill.
6. P. T. Joseph, E-Commerce: A Managerial Perspectives, Tata McGraw Hill.

NEW

ELECTIVE I : E-COMMERCE

18-CAP-503 : E-COMMERCE

Unit-I: e-Commerce: Features of Electronic Commerce - Distinction between e-Commerce and e-Business - Types of Business Models: B2B, B2C, C2C - Benefits and Limitations of e-Commerce- Apps.

Unit-II: e-Business: Requirements and Architecture: Requirements of E-Business, Functions of E-Business, E-Business Framework architecture, Methods and benefits of e-Payment Systems –e-Marketing – Applications and issues

Unit-III: e-Business on different Fields: e-Tourism – e-Recruitment – e- Real Estate – e-Stock Market – e-Music/Movies - e-Publishing and e-Books.

Unit-IV: Concept of Online Education: Process - Methods - e-Content development and Deliveries - Major technologies used in e-Education - Online Testing - Methods - Future Trends.

Unit-V: Mobile Commerce: Introduction – Infrastructure of M-Commerce – types of M-Commerce – Technologies of Wireless Business.
Benefits & Limitations, support, Mobile Markeing & advertisement, Ticketing - Me-Seva

References:

1. Turban E. Lee J., King D. and Chung H.M: Electronic commerce-a Managerial Perspective, Prentice-Hall International, Inc.
2. Bhatia V., E-commerce, Khanna Book Pub. Co. (P) Ltd., Delhi.
3. Daniel Amor, E Business R (Evolution), Pearson Education.
4. Krishnamurthy, E-Commerce Management, Vikas Publishing House.
5. David Whiteley, E-Commerce: Strategy, Technologies and Applications, Tata McGraw Hill.
6. P. T. Joseph, E-Commerce: A Managerial Perspectives, Tata McGraw Hill.

Signatures of the Members

Signature of the BOS Chairman

OLD

DSC F 5.5 BUSINESS NETWORKS

Unit-I: Business Forms: Interrelation among Stakeholders – Business and Government – Business and Society: Social Network and Facebook.

Unit-II: Business Networking through ICT: Basic concepts – Uses and Application of Business Networks – Different Layers of Business Networks – Internet and Business Networks – Network Security.

Unit-III: Business Networking Systems and Devices: Communication Satellites – Servers – Cloud Computing – Sharing – Spectrum – Commercial issues.

Unit-IV: Customer Relationship Management: Establishing Network connection with customers – Forward and Backward Integration – Customer Data Base – Creation and Maintenance – Legal and Ethical Issues.

Unit-V: Business Analytics: Master Data Management – Data Warehousing and Mining – Data Integration – OLTP and OLAP.

References:

1. Jerry, FitzGerald and Alan Dennis, Business Data Communications and Networking, John Wiley & Sons.
2. Tanenbaum, A. S., Computer Networks, Pearson Education.
3. David A Stamper, Business Data Communications. Addison Wesley.
4. Business Analytics – Methods, Models and Decisions, James R. Evans, Prentice Hall.
5. Business Analytics - An Application Focus, Purba Halady Rao, PHI learning
6. R.N Prasad and Seema Acharya, Fundaments of Business Analytics, Wiley India.

NEW

18-CAP-504 BUSINESS NETWORKS

Unit-I: Business Forms: Interrelation among Stakeholders – Business and Government – Business and Society: Social Network and Facebook.

Unit-II: Business Networking through ICT: Basic concepts – Uses and Application of Business Networks – Different Layers of Business Networks – Internet and Business Networks – Network Security.

Unit-III: Business Networking Systems and Devices: Communication Satellites – Servers – Cloud Computing – Sharing — Spectrum– Commercial issues.

Unit-IV: Customer Relationship Management: Establishing Network connection with customers – Forward and Backward Integration – Customer Data Base – Creation and Maintenance – Legal and Ethical Issues.

Unit-V: Business Analytics: Introduction – Different types of Analytics – Applications of Business Analytics - Business Intelligence – Data Warehousing and Mining – Data Integration – OLTP and OLAP.

References:

1. Jerry, FitzGerald and Alan Dennis, Business Data Communications and Networking, John Wiley & Sons.
2. Tanenbaum, A. S., Computer Networks, Pearson Education.
3. David A Stamper, Business Data Communications. Addison Wesley.
4. Business Analytics – Methods, Models and Decisions, James R. Evans, Prentice Hall.
5. Business Analytics - An Application Focus, Purba Halady Rao, PHI learning
6. R.N Prasad and Seema Acharya, Fundaments of Business Analytics, Wiley India.

Signature of the BOS Chairman

Signatures of the Members

OLD

ELECTIVE 2 - COMPUTER APPLICATIONS

DSC F 5.4 - DATABASE MANAGEMENT SYSTEM

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

Unit-II: File-Based System, Drawbacks of File-Based System , DBMS Approach, Advantages 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 Sets , Attribute Classification, Relationship Degree, Relationship Classification, Generalization and Specialization, aggregation and composition, CODD'S Rules, Relational Data Model , Concept of key, Relational Integrity. Normalization (1NF,2NF,3NF & BCNF).

Unit-IV: Structured Query Language: Introduction, History of SQL Standard, 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.

Unit -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, Function ,Packages ,Exceptions Handling, Database Triggers, Types of Triggers.

Text Books:

1. S. Sumathi, S. Esakkirajan, Fundamentals of Relational Database Management Systems.
2. Ivan Bayross, SQL, PL/SQL The Programming Language of Oracle, BPB Publications.

Reference Books:

1. Paneerselvam: Database Management Systems, PHI.
2. Bipin C. Desai, "An Introduction to Database Systems", Galgotia Publications.
3. Korth, Database Management systems.
4. Navathe, Database Management systems.

NEW

18-CAP-501 - DATABASE MANAGEMENT SYSTEMS

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

Unit-II: File-Based System, Drawbacks of File-Based System, DBMS Approach, Advantages 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 Sets , Attribute Classification, Relationship Degree, Relationship Classification, Generalization and Specialization, aggregation and composition, CODD'S Rules, Relational Data Model , Concept of key, Relational Integrity

Unit-IV: Structured Query Language: Introduction, History of SQL Standard, Data types in SQL, Commands in SQL - Data Definition Language (DDL), Data Manipulation Language(DML), Data Control Language(DCL),Transaction Control Language (TCL), Aggregate Functions, Integrity Constraints, Set Operations.

Unit -V: PL/SQL: Introduction, Structure of PL/SQL, PL/SQL Language Elements ,Data Types, Control Structures, Steps to Create a PL/SQL Program, Iterative Controls ,Cursors , Steps to Create a Cursor , Procedure, Function ,Packages ,Exceptions Handling

Additional Inputs:
Database Triggers, Types of Triggers.

Text Books:

1. S. Sumathi, S. Esakkirajan, Fundamentals of Relational Database Management Systems.

Reference Books:

1. Pancerselvam: Database Management Systems, PHI.
2. Ivan Bayross, SQL, PL/SQL The Programming Language of Oracle, BPB Publications.
3. Bipin C. Desai, "An Introduction to Database Systems", Galgotia Publications.
4. Korth, Database Management systems.
5. Navathe, Database Management systems.

Signature of the BOS Chairman

Signatures of the Members

NEW

PVKN GOVT. COLLEGE(A), CHITTOOR.

DATABASE MANAGEMENT SYSTEMS LAB (18-CAP-501P)

LIST OF PROGRAMS

1. Create a table employee (empno,empname, address, deptno, salary)
   Write the queries for the following
   (i) Display all the records of the employee table
   (ii) Display empno ,empname, and salary of all the employees in the employee table
   (iii) Display all the records of the employees from department number 1.
   (iv) Display the empno and name of all the employees from deptno2
   (v) Display empno,empname ,deptno and salary in the descending order of Salary
   (vi) Display the empno and name of employees whose salary is between 2000 and 5000
   (vii) Change the salary of the employee to 25000 whose salary is 2000
   (viii) Change the address of a particular employee
   (ix) Display the details of all the employee whose name starts with 's'.
   (x) Display the details of all the employees whose name ends with 'a'
2. Create two tables
   Student (rollno, sname, dno)
   Department (dno, dname)
   With primary key and foreign key relationships and check the integrity constraint.
   (i) Write a query to display the rollno, sname, dno, and dname for all students.
3. Demonstrate ALTER TABLE statement to add, delete, or modify columns in an existing table. (First, create a table 'Products' with pid, pname attributes – then, add price and company attributes and work with them)
4. Demonstrate DROP TABLE and TRUNCATE TABLE commands (First, create a table 'Suppliers' with sno,sname and location attributes)
5. Demonstrate the following constraints
   (i) not null
   (ii) unique
   (iii) check
   (iv) default
6. Write SQL queries to demonstrate aggregate functions
7. Write SQL queries to demonstrate set operations
8. Write a PL/SQL programme to find the biggest of two numbers (use 'if')
9. Write a PL/SQL programme to display all the even numbers between 1 and 20
10. Write a PL/SQL programme to demonstrate cursors
11. Write a PL/SQL programme to demonstrate procedures.
12. Write a PL/SQL programme to demonstrate functions.
13. Write a PL/SQL programme to demonstrate triggers.

OLD

PVKN GOVT. COLLEGE(A), CHITTOOR.

MODEL QUESTION PAPER

DATABASE MANAGEMENT SYSTEM

Time: 3Hrs

Max. Marks:75

Section - A

Answer any Five of the following. All Questions carry equal marks. 5x3=15 Marks

1.

a) What is DBMS? Objectives of DBMS.
b) Write about Data types in SQL.
c) Describe classification of entity sets.
d) What is a procedure? Explain the steps to create a procedure.
e) Write about primary key and foreign key constraints.
f) Briefly explain Embedded SQL.
g) Write about Data Models.
h) Write about Relationship Classification.
i) Write about exceptions in PL/SQL
j) What is view and how to create a view in SQL.

Section - B

Answer one question from each unit. All Questions carry equal marks. 5X12=60 Marks

UNIT-1

2. Explain about file system.

(OR)

3. Explain classification of DBMS.

UNIT-2

4. Explain the process of converting ER Diagram to Tables.

(OR)

5. Define Specialization and Generalization. Explain the constraints on Generalization and Specialization with examples.

UNIT-3

6. Explain 1NF, 2NF,3NF and BCNF.

(OR)

7. Explain CODD's rules.

UNIT-4

8. Explain DDL Commands with Syntax and examples.

(OR)

9. a) Explain join operations in SQL.
   b) Explain Aggregate functions in SQL.

UNIT-5

10. Explain PL/SQL Structure with suitable example

(OR)

11. What is a Trigger? Explain the creation of different types of triggers with syntax.

NEW

PVKN GOVT. COLLEGE(A), CHITTOOR.

MODEL QUESTION PAPER

DATABASE MANAGEMENT SYSTEMS (18-CAP-501)

Time: 3Hrs

Max. Marks:75

Section - A

Answer any Five of the following. All Questions carry equal marks. 5x3=15 Marks

1.

a) Explain Data and Information
b) List any three objectives of DBMS
c) List the drawbacks of file-based system
d) Write about DBMS Architecture
e) Define multivalued and derived attribute
f) Explain in brief on generalization
g) Write data types in SQL.
h) Write the syntax and example for any two set operations
i) Write the structure of PL/SQL block
j) What is a function? Write the syntax for defining a function in PL/SQL

Section - B

Answer one question from each unit. All Questions carry equal marks. 5x12=60 Marks

UNIT-I

2. Write in detail about the evolution of database management systems

Or

3. Write a detailed note on different types of database management systems

UNIT-II

4. What is DBMS? Explain the advantages of DBMS

Or

5. Write a detailed note on data models

UNIT-III

6. What is relations degree? Explain different degrees of relationship with example.

Or

7. What is Normalization? Explain 1NF, 2NF and 3NF with examples

UNIT-IV

8. Explain Data Definition Language commands with examples

Or

9. Write a detailed note on constraints.

UNIT-V

10. Explain different control structures in PL/SQL with examples.

Or

11. Define a cursor. Explain explicit cursor management in detail.

III B.COM(CA) V SEM - DATABASE MANAGEMENT SYSTEM
QUESTION BANK
UNIT - 1

3 MARKS

1. Explain Data and Information.
2. List any three objectives of DBMS?
3. Define DBMS. List the advantages of DBMS.
4. Define data and database?

12 MARKS

1. Discuss in detail about evolution and objectives of Database Management Systems?
2. Discuss in detail about classification of Database Management Systems.
3. Explain briefly about Database Management Systems.

UNIT - 2

3 MARKS

1. Why is database design important?
2. Explain the characteristics of File processing system?
3. List the drawbacks of file-based system
4. Write about DBMS Vendors.

12 MARKS

1. What are the three levels of Architecture?
2. What are the various Data Models for Database systems?
3. Discuss in detail about database architecture with a neat diagram.
4. What is DBMS? Explain the advantages of DBMS.

UNIT - 3

3 MARKS

1. Explain different types of attributes?
2. Explain in brief on generalization
3. Define multivalued and derived attribute
4. Explain about aggregation with an example?
5. List the CODD'S rules
6. Explain different types of entities?
7. Write a note on relationship degrees.

12 MARKS

1. What is an entity relationship model? Explain with an example? (Or) Discuss about building blocks of an Entity-Relationship with examples.
2. What is normalization? Explain about DB tables and normalization?
3. Explain Codd's relational database rules?
4. What is Normalization? Explain 1NF, 2NF and 3NF with examples.

UNIT- 4

3 MARKS

1. Discuss about referential integrity?

2. Explain difference between delete and truncate command in SQL.
3. Explain different types of attributes?
4. What are data types of SQL?
5. Explain select command with example.
6. Write the syntax and example for any two set operations.

12 MARKS

1. Explain set operations with examples.
2. Explain aggregate functions with examples.
3. Define Integrity Constraint. Explain different types of integrity constraints in detail.
4. List and explain various DML, DDL commands in sql?
5. Write a detailed note on constraints.

UNIT - 5

3 MARKS

1. Define Exception
2. What is a function? Write the syntax for defining a function is PL/SQL?
3. Explain about the structure of PL/SQL?
4. Write the steps to create a PL/SQL program

12 MARKS

1. Explain the structure of the PL/SQL program.
2. What is Exception Handling? Explain Exception Handling.
3. Define procedure, function and package. Explain the difference between procedure and function in PL/SQL?
4. Discuss implicit cursor and its various attributes.
5. Explain different control structures in PL/SQL with examples.

DSC F 5.5 - WEB TECHNOLOGY

OLD

it-I:

roduction: HTML, XML, and WWW, Topologies, Bus, Star, Ring, Hybrid, Tree, Wan,Man.

ML: Basic HTML, Document body, Text, Hyper links, Adding more formatting, Lists, les using colors and images.

it-II:

re HTML: Multimedia objects, Frames, Forms towards interactive, HTML document heading.

scading Style Sheets: Introduction, using Styles, simple examples, your own styles, perties and values in styles, style sheet, formatting blocks of information, layers.

it-III:

roduction to JavaScript: What is DHTML, JavaScript, basics, variables, string nipulations, mathematical functions, statements, operators, arrays, functions.

it-IV:

jects in JavaScript: Data and objects in JavaScript, regular expressions, exception ndling, built-in objects, events.

it-V:

TML with JavaScript: Data validation, opening a new window, messages and nfirmations, the status bar, different frames, rollover buttons, moving images, multiple ges in single download, text only menu system.

xt Books

1. Web Technology, Chris Bates, Wiley Publications.

ference Books

1. Uttam Kumar Roy, Web Technologies, Oxford University Press.
2. Black Book HTML 5.0
3. Complete reference HTML 5.

18-CAP-502 - WEB TECHNOLOGIES

NEW

nit-I:

ntroduction: HTML, XML, WWW, Topologies: Bus, Star, Ring, Hybrid, Tree, client-ver architecture, web browser, web server

ITML: Basic HTML, Document body, Text, Hyper links, Adding more formatting, Lists, ables, using color and images.

nit-II:

lore HTML: Multimedia objects, Frames, Forms towards interactive. Introduction to HTML5, w features in HTML5

ascading Style Sheets: Introduction, using Styles, simple examples, your own styles, operties and values in styles, style sheet, formatting blocks of information, layers.

nit-III:

ntroduction to JavaScript: What is DHTML, JavaScript basics, variables, string anipulations, mathematical functions, statements, operators, arrays, functions.

nit-IV:

bjects in JavaScript: Data and objects in JavaScript, regular expressions, exception andling, built-in objects, events.

nit-V:

HTML with JavaScript: Data validation, opening a new window, messages and nfirmations, the status bar, writing to a different frame, rollover buttons, moving images, ultiple pages in single download, a text-only menu system.

ext Books

1. Web Programming: Building Internet Applications, Chris Bates, Wiley Publications, 2E

eference Books

1. Web Technologies, Uttam Kumar Roy, Oxford University Press.
2. HTML 5 Black Book, Kogent Learning Solutions Inc, Wiley India Pvt. Limited
3. The Complete reference HTML & CSS, 5Ed, Thomas A. Powell, McGraw Hill Professional.

Signature of the BOS Chairman

Signatures of the Members

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NEW

WEB TECHNOLOGIES LAB (18-CAP-502P)

LIST OF PROGRAMS

. Develop a webpage to display various text formatting types
. Design a webpage to demonstrate hyperlinks
. Design a webpage to demonstrate different types of lists
. Write a HTML program to display your marks using tables
. Design a HTML programme to print the table of train time and fare details
. Design a webpage to display an image along with a text
. Design a webpage to display other webpages using frames.
. Design a HTML document to create a Email registration form
. Demonstrate the three types in embedding CSS to HTML page
0. Write a program in Javascript to demonstrate arithmetic operations i.e. addition, subtraction, multiplication and division of two numbers
1. Demonstrate string manipulation functions in Java Script
2. Demonstrate mathematical functions in Java Script
3. Write a program in JavaScript to demonstrate arrays
4. Demonstrate functions in Java Script.
5. Design a webpage to demonstrate exception handling in JavaScript.
6. Demonstrate messages and confirmations in JavaScript

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PVKN GOVT. COLLEGE(A), CHITTOOR.

MODEL QUESTION PAPER

WEB TECHNOLOGY

me: 3Hrs

Max. Marks:75

Section - A

swer any Five of the following. All Questions carry equal marks. 5X3=15 Marks

1.

a. What is internet? And applications of Internet.
b. What is network topology and types of topologies?
c. Describe <HR> Tag.
d. What is a frame? Explain the steps to create a frame in HTML.
e. Write about box and color properties.
f. Briefly explain string manipulations.
g. Write about document object model.
h. How to create new window in DHTML.
i. How to create message and confirmation window in javascript.
j. Write about status bar.

Section - B

Answer one question from each unit. All Questions carry equal marks. 5X12=60 Marks

UNIT-I

2. What is HTML? Explain structure of HTML and give suitable example.

(OR)

3. Explain about hyperlinks in HTML.

UNIT-II

4. What is style sheet? How to create a table with style sheets.

(OR)

5. Define different styles in CSS with examples.

UNIT-III

6. Explain javascript functions with suitable example.

(OR)

7. A). Write a program to demonstrate the radio buttons in javascript.

   B). How to handle a list in javascript with proper example.

UNIT-IV

8. A). Describe regular expressions in javascript.

   B). How to handle errors in javascript.

(OR)

9. a) Explain join operations in SQL.

   b) Explain Aggregate functions in SQL.

UNIT-V

10. Explain rollover buttons with suitable example.

(OR)

11. Explain about text only menu system with suitable example.

NEW

PVKN GOVT. COLLEGE(A), CHITTOOR.

MODEL QUESTION PAPER

WEB TECHNOLOGIES (18-CAP-502)

Time: 3Hrs
Marks:75

Max.

Section - A

Answer any Five of the following. All Questions carry equal marks. 5x3=15
Marks

1.

a) Define WWW
b) Write the block structure of HTML program with example
c) Write the syntax of the frame tag of HTML
d) Discuss about formatting blocks of information
e) Explain data types in java script with example
f) Define Object in Java Script. Give an example.
g) What is an event in Java Script. Give an example.
h) Write about regular expressions.
i) Write java script code for opening a new window.
j) Demonstrate moving images in JavaScript?

Section - B

Answer one question from each unit. All Questions carry equal marks. 5x12=60
Marks

UNIT-I

2. With neat sketches explain network and topologies

Or

3. Explain Hyperlink creation in detail with examples

UNIT-II

4. Discuss about multimedia objects

Or

5. How to implement our own stylest? Discuss in detail

UNIT-III

6. Discuss operators in java script with suitable examples.

Or

7. Discuss at least five String functions with examples.

UNIT-IV

8. What is an exception? Explain exception handling in java script with suitable example

Or

9. Discuss Built-in objects in java script with examples

UNIT-V

10. Explain rollover buttons with suitable example.

(or)

11. Explain about text only menu system with suitable example.

III B.COM(CA) V SEM - WEB TECHNOLOGY
QUESTION BANK
UNIT - 1

3 MARKS

1. HTML List
2. What is XML?
3. Define Topologies?
4. Tables in HTML?

12 MARKS

1. What is HTML? Explain about the significance of HTML?
2. What is XML? Explain the basic structure of an XML?
3. Discuss about HTML document structure in detail?
4. Define Tables? Discuss about tables in HTML with example.
5. Explain use colors and images in HTML with example

UNIT - 2

3 MARKS

1. Div tag in CSS
2. Layers in CSS?
3. List the features of HTML5?

12 MARKS

1. What is cascading style sheets? What are the advantages of CSS?
2. Explain how styles are used with simple examples?
3. Write about the multimedia objects in HTML?
4. Discuss about formatting blocks of information in style sheets?
5. What is layer? How are they described with in HTML code?

UNIT - 3

3 MARKS

1. Operators in JavaScript
2. What is an Array?
3. What are the benefits of JavaScript?
4. DHTML?

12 MARKS

1. What is JavaScript? Explain the benefits and limitations of JavaScript?
2. What is variable? What are the rules to be followed by selecting variables?
3. Explain what are the string manipulations functions available in JavaScript?
4. Discuss about mathematical functions in JavaScript?
5. Discuss about various statements in JavaScript

UNIT- 4

2. What is event?
3. What is finally block/statement?
4. Regular expression?
5. Built-in objects in JavaScript?

12 MARKS

1. Explain Data and Objects in JavaScript?
2. What is regular expressions? Explain in detail?
3. Discuss about built in objects in JavaScript
4. What is Event? Explain various events supported by JavaScript?
5. What is Exception Handling? Explain
6. Discuss about throw statement in JavaScript?

UNIT - 5

3 MARKS

1. Data Validation
2. Prompt window
3. Opening a new window in JavaScript?
4. Write the steps to create a PL/SQL program

12 MARKS

1. Discuss about messages and confirmations in detail
2. Discuss about Data validation in detail
3. Write a short note on opening a new window?
4. Explain the concept of writing to a different frame
5. What is Rollover Button? Discuss about Rollover Button with example?

OLD

SRI VENKATESWARA UNIVERSITY : TIRUPATI

TABLE-6: B.COM (CA)- SEMESTER – VI

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	DSC 1 G	6.1 Advanced Cost Accounting	100	25	75	6	4
2.	DSC 2 G	6.2 Auditing	100	25	75	6	4
3.	DSC 3 G	6.3 Management Accounting	100	25	75	6	4
4.	Elective-DSC 1 H/Inter-disp./Gen. Elec.	**Cluster Electives** ***1. A e-Commerce*** e-Payments System Practical's Tally Practical's	100 50 100 50	25 25 	75 50 75 50	5 2 5 2	4 2 4 2
5.	Elective-DSC 2 H/Inter-disp./Gen. Elec.	**Project Work:** Real time student project may be submitted	100		100	5	4
6.	Elective-DSC 3 H/Inter-disp./Gen. Elec.	**2. Computer Applications** e-Commerce Applications Tally Practical's (50+50) Project work : Working on the application of Tally package in organisations/ Internship/ Projects in e- commerce companies on the Design and creation of websites					
Total			700			37	28
Grand Total							

NOTE* **OPT ONE ELECTIVE FROM THE ABOVE ELECTIVES AND THAT SHOULD BE RELEVANT TO THE ELECTIVE IN THE V SEMESTER I.E. IF TAKEN FIRST ELECTIVE IN V SEMESTER IN VI SEMESTER ALSO SHOULD SELECT FIRST ELECTIVE VISE VERSA**

***NOTE*:# PROJECT WORK EVALUATED BY THE COMMERCE EXTERNAL EXAMINER**

TALLY PRACTICAL'S SHOULD BE EVALUATED BY THE EXTERNAL EXAMINER

NEW

SRI VENKATESWARA UNIVERSITY : TIRUPATI

TABLE-6: B.COM (CA)- SEMESTER – VI

Sl. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	18-CAP-601	6.1 Advanced Cost Accounting	100	25	75	6	4
2.	18-CAP-602	6.2 Auditing	100	25	75	6	4
3.	18-CAP-603	6.3 Management Accounting	100	25	75	6	4
4.		**Cluster Electives**					
		1. Computer Applications					
	18-CAP-604	e-Commerce Applications	100	25	75	5	4
	18-CAP-604P	Practicals	50		50	2	2
	18-CAP-605	Tally	100	25	75	5	4
5.	18-CAP-605P	Tally Practicals	50		50	2	2
	18-CAP-606	Project work : Working on the application of Tally package in organisations/ Internship/ Projects in e- commerce companies on the Design and creation of websites	100		100	5	4
6.		***2. A e-Commerce***					
	18-CAP-607	e-Payments System					
	18-CAP-607P	Practical's					
	18-CAP-608	Tally					
	18-CAP-608P	Practical's					
	18-CAP-609	**Project Work:** Real time student project may be submitted					
	Total		700			37	28
	Grand Total						

NOTE OPT ONE ELECTIVE FROM THE ABOVE ELECTIVES AND THAT SHOULD BE RELEVANT TO THE ELECTIVE IN THE V SEMESTER I.E. IF TAKEN FIRST ELECTIVE IN V SEMESTER IN VI SEMESTER ALSO SHOULD SELECT FIRST ELECTIVE VISE VERSA*

***NOTE**:# PROJECT WORK EVALUATED BY THE COMMERCE EXTERNAL EXAMINER*

TALLY PRACTICAL'S SHOULD BE EVALUATED BY THE EXTERNAL EXAMINER

PVKN Govt. College(A), Chittoor
Department of Computer Applications

EVALUATION / ASSESSMENT PATTERN

A continuous internal assessment (CIA) (for 25 marks) by the concerned Course teacher as well as by an end of semester examination (for 75 marks) and will consolidated at the end of the course for 100 marks. The components for continuous internal assessment are :

(a) Passing minimum for end semester exam will be 40% out of 75 marks (i.e., 30 marks). Passing minimum for Internal Examination will be 40% out of 25 marks (i.e., 10 marks).

(b) First Internal exam shall be conducted for 25 marks and second internal exam shall be conducted for 75marks and marks are proportionately reduced for 25 marks.

Internal Assessment component for 25 marks shall be split into following pattern.

Sl. No	Assessment pattern	Evaluation method	Marks Allotted
1	Descriptive type	Best of the 2 Internal exams	15
2	Seminar/Assignment	Submission of Records	05
3	Area Study Programme / Study Project	Submission of Records	05
Total			25

Signatures of the Members

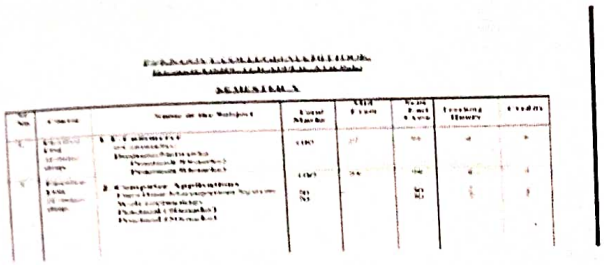
Signature of the BOS Chairman

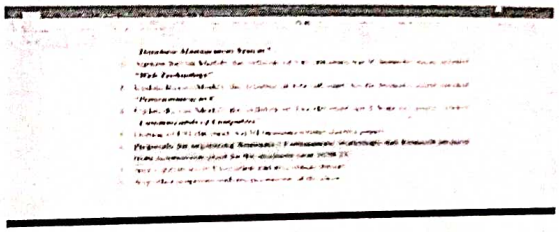
PVKN Govt. College(A), Chittoor

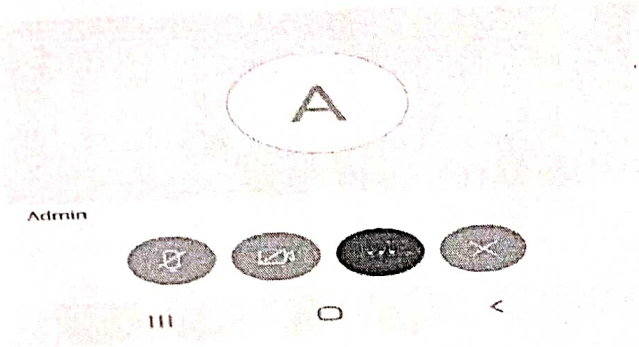
BOARD OF STUDIES MEETING – 26-05-2020

Department of Computer Applications

CODE	Added topic	Removed topic	PERCENTAGE OF CHANGE/MODIFICATION
20-CAP-101	**Speech and gesture recognition, Mobile printing, Cloud printing, 3D printing(unit-2)** Multi-core processors (unit-3) Blu-Ray disks, External and Portable Hard Disks(unit-4)	--	40% Latest technologies are added
20-CAP-301	--	--	0% BOS members did not accept modifications because it is a basic programming language in which all topics are important
20-CAP-501	Entire lab programs are changed	Normalization (unit-3)	30%
20-CAP-502	client-server architecture, web browser, web server (unit-1) Introduction to HTML5, new features in HTML5(unit-2) Lab programs are changed	--	30% Topics which provide other basic details are added. Latest version of HTML5 is introduced



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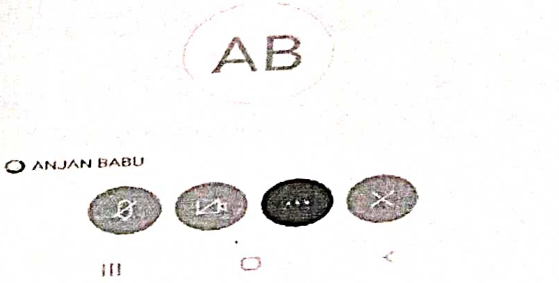
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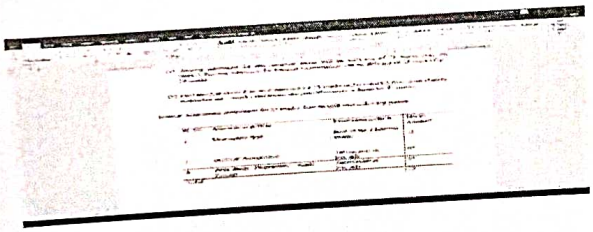

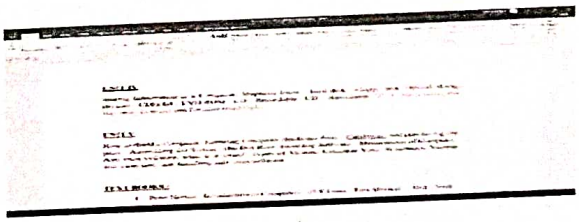

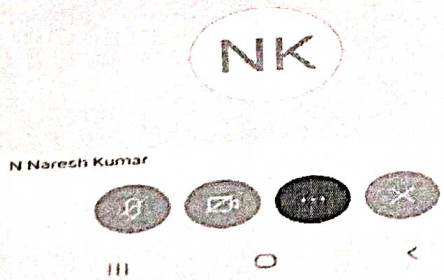
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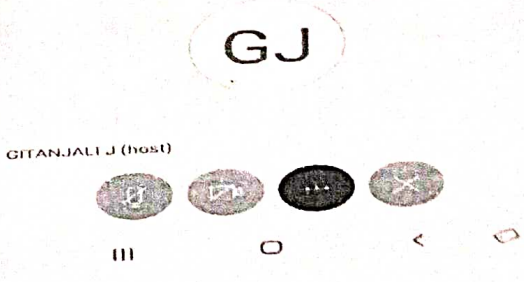
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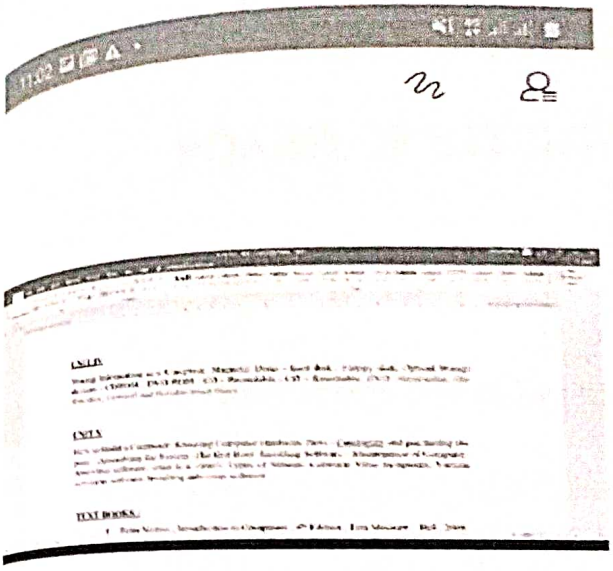

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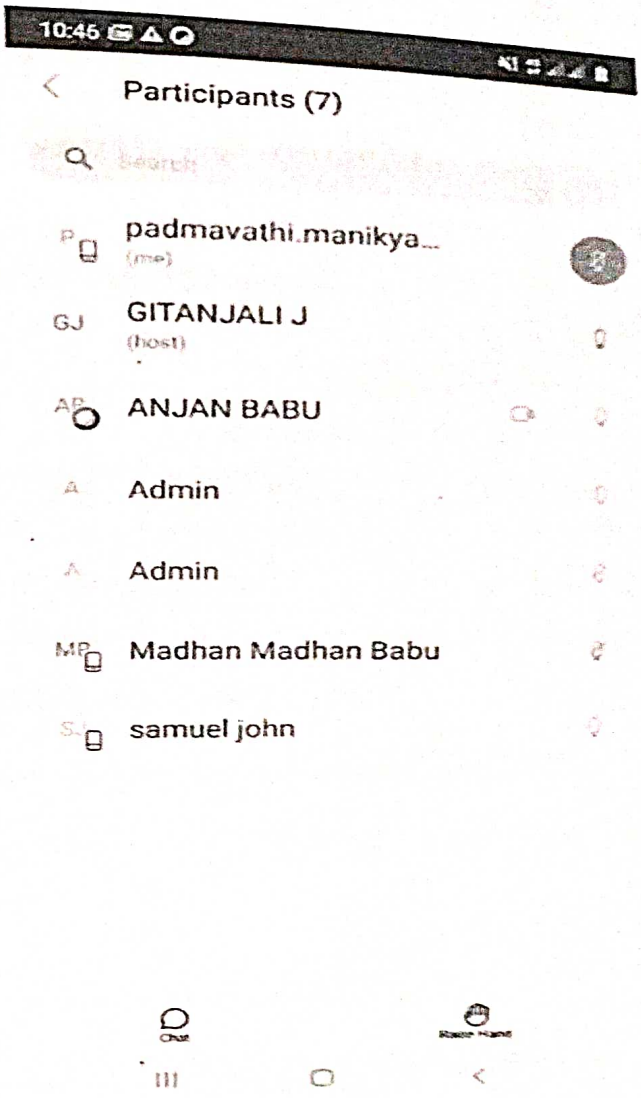
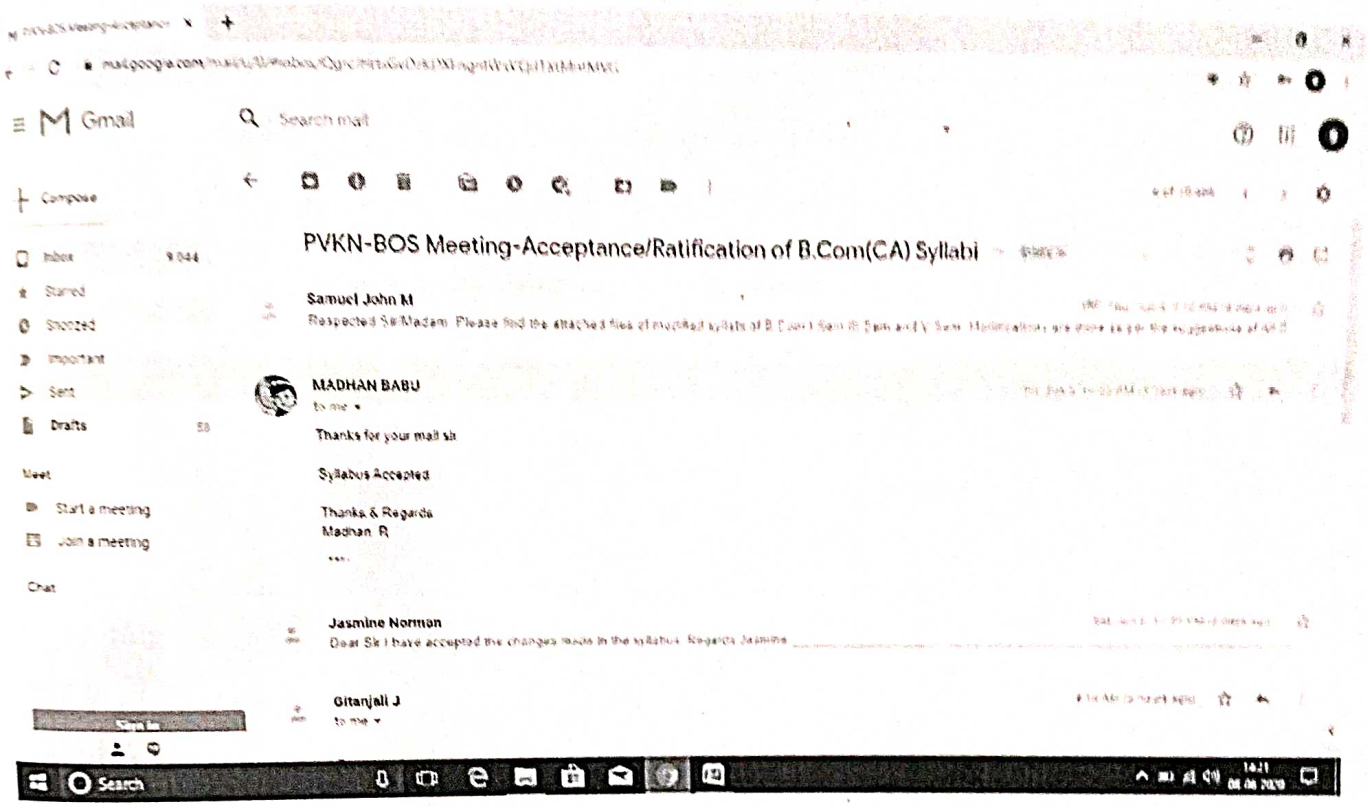


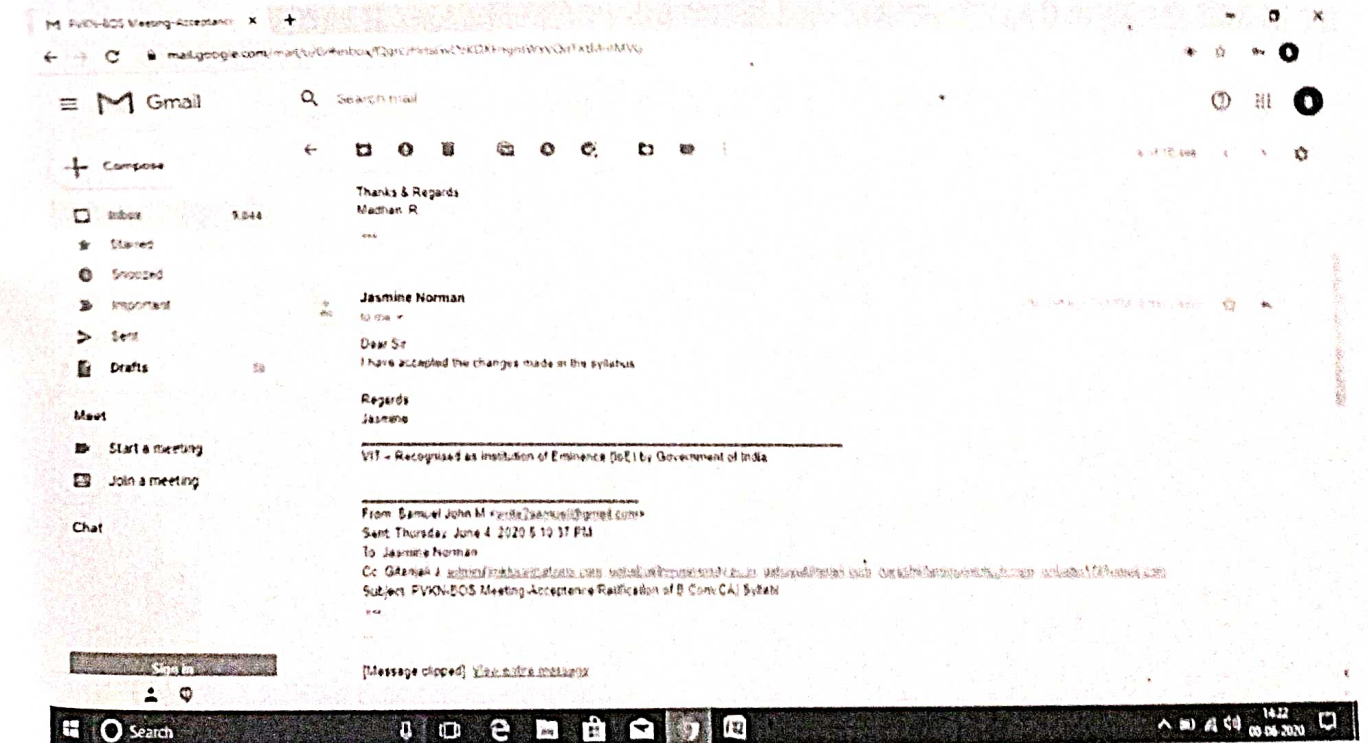
PVKN Govt. College(A), Chittoor

BOARD OF STUDIES MEETING – 26-05-2020

Department of Computer Applications

Acceptance Mails from Members:





PVKN Govt. College(A), Chittoor

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Department of Computer Applications

Resolutions:

1. The syllabus of UG (BCom(CA)) V Semester paper entitled ***"Database Management System"*** is approved
2. The syllabus of UG (BCom(CA)) V Semester paper entitled ***"Web Technology"*** is approved
3. The syllabus of UG (BCom(CA)) III Semester paper entitled ***"Programming in C"*** is approved
4. The syllabus of UG (BCom(CA)) I Semester paper entitled ***"Fundamentals of Computers"*** is approved
5. The Question bank preparation for Papers of I, III & V semesters is approved
6. Ratified the internal assessment component. The BOS members suggested to give 30% weightage to internal exams and 70% weightage to external exams. They also suggested to conduct the second internal exam for 15 marks but not 75 marks.
7. Approved the UG (BCom(CA)) VI Semester cluster elective papers
8. Resolved to follow the pedagogy of teaching / learning strategies as per the UGC guidelines.
9. Suggested to conduct an International seminar in the academic year 2020-21
10. To follow the evaluation and assessment pattern strictly adhering the UGC norms and guidelines.