A.G& S.G.SIDDHARTHA DEGREE COLLEGE OF ARTS & SCIENCE

VUYYURU-521165, KRISHNA Dt., A.P.(Autonomous)

Accredited by NAAC with "A" Grade

2019-2020

DEPARTMENT OF COMPUTER SCIENCE

MINUTES OF BOARD OF STUDIES

ODD SEMESTER

17-04-2019

Minutes of the meeting of Board of Studies in Computer Science for IIB.Sc.(MPCs, MCCs), B.Com.(C.A.) and Foundation Course of AG & SG Siddhartha Degree College of Arts & Science, Vuyyuru, held at 10.00 A.M on 17-04-2019 in the Department of Computer Science.

Sri Ch. Mohan Babu   ...   Presiding

Members Present:

1)............................ Chairman   Head, Department of Computer Science
   (Ch. Mohan Babu)   AG & SG Siddhartha Degree College of Arts & Science
                                              Vuyyuru-521165

2)............................University   Professor,
   (Dr. R Kiran Kumar)   Nominee   Dept of Computer Science,
                                            Krishna University, Machilipatnam.

3)............................Academic   Head, Department of Computer Science& Engineering,
   (Dr. Suresh Sundaradasu) Council   Dhanekula Institute of Engineering & Technology,
                              Nominee   Ganguru, JNTU(K), Vijayawada.

4)............................Academic   Professor, Department of Computer Science & Engineering,
   (Dr. K Bhagvan)   Council   Lingaya's Institute of Management & Technology, JNTU(K)
                              Nominee   Vijayawada.

5). ....Industrial   Microsoft Dynamics CRM,Maven Soft System Private
   (R. Sowjanya)   Expert   Ltd.Madapur,Hyderbad.

6)............................Member   Lecturer in Computer Science, AG & SG Siddhartha
   (T.Naga Prasada Rao)   Degree College of Arts & Science, Vuyyuru-521165.

7)............................Member   Lecturer in Computer Science, AG & SG Siddhartha
   (K Srikanth)   Degree College of Arts & Science, Vuyyuru-521165.

8)............................ Member   Lecturer in Computer Science, AG & SG Siddhartha
   (L.Pujitha)   Degree College of Arts & Science, Vuyyuru-521165

9)............................ Member   Lecturer in Computer Science, AG & SG Siddhartha
   (Ch. Sowmya Krishna)   Degree College of Arts & Science, Vuyyuru-521165

10)........................... Member   Student in M.Sc. Computer Science, AG& SG Siddhartha
   (Sharmila Begum)   Degree College of Arts & Science, Vuyyuru-521165

11) .... Member   Student in B.Sc. Computer Science, AG& SG Siddhartha
   (S. Mounika)   Degree College of Arts & Science, Vuyyuru-521165

Agenda for B.O.S Meeting.

1. To recommend syllabi for I Semester of I year, III Semester of II year Degree B.Sc. (MPCs, MCCs.), B.Com (C.A.), & V Semester of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System With Effect From Academic Year 2019-20.

2. To recommend the Model Question Papers, Lab programs list and Blue print of I Semester of I year, III Semester of II year Degree B.Sc.(MPCs, MCCs.),B.Com (C.A.), & V Semester of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System With Effect From Academic Year 2019-20.

3. To recommend the Guidelines to be followed by the question paper setters in Computer Science for I Semester of I year, III Semesters of II year Degree B.Sc.(MPCs, MCCs.), B.Com (C.A.) & V Semester of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System With Effect From Academic Year 2019-20.

4. To recommend the teaching and evaluation methods to be followed under Autonomous status.

5. To recommend the certificate courses for all Computer Science and Non-Computer Science students any suggestions regarding seminars, workshops, Guest lecturers to be organized.

6. To recommend the panel of paper setters and examiners to the controller of the examinations of autonomous courses of AG & SG Siddhartha Degree College of Arts & Science College, Vuyyuru.

7. Any other matter.

Resolutions

1) Discussed and recommended as per the APSCHE guidelines and their instructions it is resolved to implement syllabi for I Semester of I year, III Semester of II year Degree B.Sc.(MPCs, MCCs.), B.Com (C.A.), & V Semester of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System with Effect from Academic Year 2019-20.

2) Discussed and recommended as per the APSCHE guidelines and their instructions it is resolved to implement Model Question Papers, Lab Programs List and blue print for I Semester of I year, III Semester of II year Degree B.Sc.(MPCs, MCCs.), B.Com (C.A.), & V Semesters of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System with Effect from Academic Year 2019-20.

3) Discussed and recommended the guidelines to be followed by Question Paper Setters in Computer Science for I Semester of I year, III Semester of II year Degree B.Sc.(MPCs, MCCs.), B.Com (C.A.), & V Semesters of III year Degree B.Sc.(MCCs) Courses under Choice Based Credit System With Effect From Academic Year 2019-20.

4) Discussed and recommended the NO changes appeared as per previous paper in the syllabi ,Question Paper & Lab Cycle for

   - **I Semester of I Year B.Sc. (MPCs, MCCs) & B.Com.(CA).**
   - **III Semester of II Year B.Sc. (MPCs,MCC's) & B.Com.(CA).**
   - **V Semester of III Year B.Sc. (MPCs) & B.Com.(CA).**
   - **Foundation Course for All Degree Courses under Choice Based Credit System with Effect from Academic Year 2018-19.**

5) Discussed and recommended the teaching and evaluation methods for approval of Academic Council.

6) Discussed and recommended for organizing Seminars, Guest lectures, Work-shops to upgrade the knowledge of students, for the approval of the Academic Council. Discussed and recommended to conduct certificate courses for Computer Science and Non-Computer Science students separately.

7) **Discussed and recommended to introduce Certificate Course on "Basic Computer Applications & MS Office" with course code "BCAM102" for I MPC's.**

8) **Discussed and recommended to introduce Certificate Course on "Hardware and Networking" with course code "HANCC12" for II MPC's,MCC's,MPC,B.COM(CA).**

9) **Discussed and recommended to introduce Certificate Course on "AWS" with course code "CCAWS-01" for III MPC's ,MCC's & III B.COM(CA).**

10) It is resolved to suggest the panel of the paper setters and examiners to the controller of the examinations.

Chairman

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-501C	2019-20	B.Sc.(MPCs)

SEMESTER – V   **PAPER – V**   Max. Marks 75

<u>Syllabus</u>   **DATA BASE MANAGEMENT SYSTEMS**

<u>**NO Of Hours: 4**</u>   <u>**No Of Credits: 3**</u>   **Pass Marks 30**

Course Objective: Design & develop database for large volumes & varieties of data with optimized data processing techniques.

Unit – I: Database Systems Introduction   12Hrs
Database Systems: Introducing the database and DBMS, Why the database is important, *Historical Roots:* Files and File Systems, Problems with File System, Data Management, Database Systems. *Data Models:* The importance of Data models, Data Model Basic Building Blocks, The evaluation of Data Models, Degree of Data Abstraction.

Unit - II: Relational Database & Data Modelling   12 Hrs
The Relational Database Model: A logical view of Data, Keys, Integrity Rules, Relational Set Operators, The Data Dictionary and the system Catalog, Indexes, Codd's relational database rules. *Entity Relationship Model:* The ER Model ***Advanced Data Modelling****:* The Extended Entity Relationship Model, Entity clustering, Entity integrity.

Unit- III: Normalization and Database Design   14 Hrs
Normalization of database tables: Data base Tables and Normalization, The need for Normalization, The Normalization Process, High level Normal Forms, Normalization and database design, de normalization.
Database Design: The Information System, The Systems Development Life Cycle, The Database Life Cycle, Centralized Vs Decentralized design.

Unit-IV: Structured Query Language   12 Hrs
Introduction to SQL: Data Definition Commands, Data Manipulation Commands, Select queries, Advanced Data Definition Commands, Advanced Select queries, Virtual Tables, SQL Join Operators, Sub queries and correlated queries, SQL Functions.

Unit-V: Procedural SQL   10 Hrs
Introduction to PL/SQL: Triggers, Stored Procedures, Pl/ SQL Stored Functions

Prescribed Text Book:
1. **P**eter Rob, Carlos Coronel, Database Systems Design, Implementation and Management, Seventh Edition, Thomson (2007).

Reference Books:
1. Elimasri / Navathe, Fundamentals of Database Systems, Fifth Edition, Pearson Addison Wesley 2. Raman A Mata – Toledo/Panline K Cushman, Database Management Systems, .
2. C.J.Date, A.Kannan, S.Swamynathan, An Introduction to Database Systems, Eight edition,
3. "DatabaseSystemConcepts" by AbrahamSilberschatz, Henry Korth, and S.Sudarshan,
4. Atul Kahate, Introduction to Database Management Systems, Pearson Education (2006).
   Student Activity: 1. Create your college database for placement purpose. 2. Create faculty database of your college with their academic performance scores

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-501C	2019-20	B.Sc.(MPCs)

SEMESTER – V   **PAPER – V**   **Max. Marks 75**

Model Paper   **DATA BASE MANAGEMENT SYSTEMS**
NO Of Hours: 4   **No Of Credits: 3**   **Pass Marks 30**

Section-A

Answer any **FIVE** Questions. Each question carries **FIVE** Marks   **5x5=25M**

1. Explain the Components of Database System.

2. Explain Relational Data Model.

3. Write about Relational Set Operators.

4. Explain Integrity Rules.

5. Describe BCNF.

6. Differences between Centralized and Decentralized design.

7. Write about Special Functions.

8. Explain Stored Procedures.

Section-B

Answer any **FIVE** Questions. Each question carries **TEN** Marks   **5X10=50M**

9. What is File? Explain the problems with File system

10. Explain the Degree of Data Abstraction.

11. Explain E.F.CODDs' rules.

12. Explain Extended Entity Relationship Model.

13. Explain the concept of Normal Forms.

14. Explain about SDLC.

15. Explain DDL and DML commands.

16. Explain about triggers.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-501C	**2019-20**	B.Sc.(MPCs)

SEMESTER – V   PAPER – V   Max. Marks 75   Pass Marks 30

Guidelines for paper setting '**DATA BASE MANAGEMENT SYSTEMS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	2	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-501P	2019-20	B.Sc.(MPCS)

SEMESTER – V   **PAPER – V**   **Max. Marks 50**

Lab List   **DATA BASE MANAGEMENT SYSTEMS**   **Pass Marks 25**
No. of Hours per week: 2   **External: 25**   **Internal: 25**   **Credits: 2**

1. Creation of college database and establish relationships between tables
2. Explain various data type in Oracle.
3. Show the structure of the Emp table.
4. Show the structure of the DEPT table.
5. Explain the syntax of SELECT statement.
6. Create a query to display the name, job, hiredate and employee number from emp table.
7. Create a query to display unique jobs from the emp table.
8. Create a query to display the empno as EMP#, ename as EMPLOYEE and Hire_date from emp.
9. Create a query to display all the data from the EMP table. Separate each column by a comma and name the column THE_OUTPUT.
10. Create a query to display the name and salary of employees earning more than 2850.
11. Create a query to display the name and salary for all employees whose salary is not in the range of 1500 and 2850.
12. Display the employee name, job and start date of employees hired between February 20 ,1981 and May 1, 1981. Order the query in ascending order of start date
13. Display the employee name and department number of all the employees in departments 10 and 30 in alphabetical order by name.
14. List the name and salary of employees who earn more than 1500 & are in department 10 or 30.
15. Display the name, salary and commissions and sort data in descending order of salary and commission.
16. Display the name and job title of all employees who do not have a manager.
17. Display the name, job and salary for all employees whose job is Clerk or Analyst and their salary is not equal to 1000, 3000 or 5000.
18. Display the names of all employees where the third letter of their name is an 'A'.
19. Display the names of all employees who have two 'L's in their name and are in department 30 or their manager is 7782.
20. Display the name , salary and commission for all employees whose commission amount is grater than their salary increased by 10%.
21. Explain all the character functions.
22. Explain all the number functions.
23. Explain all the Date functions.
24. Explain different types of JOIN.
25. Write a query to display the name, department number and department name for all employees.
26. Create a unique listing of all jobs that are in department 30. and include the location of department 30 in the output.

27. Write a query to display the employee name, department name and location of all employees who earn a commission.
28. Write a query to display the name ,job department number and department name for all employees who work in 'DALLAS'.
29. Create a query to display the name and hire date of any employee
30. hired after employee BLAKE.
31. . Display all employees names and hire dates along with their manager's name and hire date for all employees who were hired before their managers.
32. Create your own users and give permissions to you and explain GRANT and REVOKE Commands.

A. Create MOVIE database using the following tables.

MOVIE: Movie no: primary key, varchar2   Movie name: NOT NULL, varchar2 Movie Type: varchar2 Star: Varchar2

   CUSTOMER: Customer No: primary key, varchar2   Customer Name: NOT NULL, varchar2
   Address: NOT NULL   Phone no: Number   INVOICE: Invoice no: Varchar2, primary key
Movie no: foreign key Customer no: foreign key
   Price: NOT NULL, Number

Queries:
1. List the movie names that starts with 'p'
2. List the number of the movies those price ranges from 15000 and 20000
3. List the customers who have phone numbers.
4. List the customers who have no phone numbers.
5. Display the following string
     (a) A Customer "customer number" has bought the "movie number" "movie name" with "Price"
6. List the customers by calculating price as (price*tax)/100 where tax=0.5 and rename the column as 'tax'.
7. List the movies, which are owned by 2 customers.
8. List the customers, who bought 2 picture names.
9. List the customers, who are not the range of 15000 and 20000.

B. Create Student database using the following tables.
   STUDENT: Sno : primary key, number Sname : NOT NULL, varchar2 Address: Varchar2
   COURSE: Sno   : Foreign key. Course Name : varchar2
   Queries:
   1. Alter table by adding a column fees in table COURSE.
   2. Alter table by modifying the address to VARCHAR2(20)
   3. Create a view on which the students who joined in one course only.

PL/SQL.
1. Write A Pl/Sql Program To Swap Two Numbers Without Using Third Variable.
2. Write A Pl/Sql Program To Generate Multiplication Tables For Numbers 2,4 And 6
3. Write A Pl/Sql Program To Display Sum Of Even Numbers And Sum Of Odd Numbers In The Given Range.
4. Write A Pl/Sql Program To Check The Given Number Is Pollinndrome Or Not.
5. Write A Pl/Sql Program To Display Top 10 Rows In Emp Table Based On Their Job And Salary.
6. Write A Procedure Update The Salary Of Employee, Who is Not Getting Commission by 10%.

Reference Books:

1. Oracle Pl/Sql By Example. Benjamin Rosenzweig, Elena Silvestrova, Pearsoneducation 3rd Edition

2. Sql & Pl/Sql For Oracle 10g, Black Book, Dr.P.S. Deshpande

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-502C	2019-20	B.Sc.(MPCs)

SEMESTER – V   **PAPER – VI**   **Max. Marks 75**

<u>Syllabus</u>   **SOFTWARE ENGINEERING**

<u>NO of Hours: 4</u>   <u>No Of Credits: 3</u>   **Pass Marks 30**

Course Objectives
The Objective of the course is to assist the student in understanding the basic theory of software engineering, and to apply these basic theoretical principles to a group software development project.

UNIT-I: Introduction to Software Engineering & Process   12Hrs
The Evolving Role of Software– Software - The Changing Nature of Software, Software Myths, Legacy Software.
Process: Software Engineering-A Layered Technology - A Process Framework - The Capability Maturity Model Integration (CMMI) - Process Patterns, Process Assessments - Personal And Team Process Models: Personal Software Process(PSP), Team Software Process (TSP).

Unit-II: Process Models   12Hrs
The Waterfall Models - Increment Process Models: The Increment Model, The RAD Model - Evolutionary Process Models: Prototyping, The Spiral Model, The Concurrent Development Model - The Unified Process: Phases of The United Process, Unified Process Work Products.

Unit-III: Requirements Engineering   14 Hrs

Requirements Engineering Tasks - Initiating The Requirements Engineering Process - Eliciting Requirements: Collaborative Requirements Gathering, Quality Function Deployment, User Scenarios, Elicitation Work Products - Negotiating Requirements - Validating Requirements.

Unit-IV: Analysis Model   12 Hrs
Requirements Analysis -Analysis Modelling Approaches - Data Modelling Concepts - Object-Oriented Analysis - Scenario-based Modelling - Flow-Oriented Modelling - Class-Based Modelling - Creating a Behavioural Model: Identifying Events with the Use-Case, State Representations.

Unit-V: Design Engineering   10Hrs
Design Process And Design Quality - Design Concepts - The Design Model: Data Design Elements, Architectural Design Elements, Interface Design Elements, Component-Level Design Elements, Deployment -Level Design Elements.

Prescribed Text Book:
1. Software Engineering – A Practitioner's Approach, Sixth Edition - Roger S Pressman, TATA McGrawHill: Chapters: 1,2,3,7,8 and 9)

Reference Books:
1. Software Engineering Principles and Practice by Deepak Jain Oxford University Press
2. Sommerville, "Software Engineering", Eighth Edition, Pearson Education, 2007

Student Activity: Visit any financial organization nearby and prepare requirement analysis report
2. Visit any industrial organization and prepare risk chart.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-502C	2019-20	B.Sc.(MPCs)

SEMESTER – V   **PAPER – VI**   **Max. Marks 75**

<u>**Model Paper**</u>   **SOFTWARE ENGINEERING**

<u>**NO of Hours: 4**</u>   <u>**No Of Credits: 3**</u>   **Pass Marks**

30

<u>Section – A</u>

Answer any <u>**FIVE**</u> Questions. Each question carries **FIVE** Marks   **4x5=25M**

1. Write about Software Layered Technology

2. Explain about Process Framework?

3. Explain about RAD Model

4. Explain about Component Based Development Model

5. Write about Requirement Analysis?

6. Explain Validating Requirements

7. Explain about Domain Analysis?

8. Explain about Modularity?

<u>Section – B</u>

Answer any <u>**FIVE**</u> Questions. Each question carries **TEN** Marks   **5X10=50M**

9. Explain about CMMI

10. Explain about Software Myths

11. Explain about Incremental Model

12. Explain about Unified Process

13. Explain about Requirements Engineering Tasks

14. Explain Eliciting Requirements.

15. Explain Scenario based Modelling.

16. Write about design concepts in design engineering.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-502	**2019-20**	B.Sc.(MPCs)

SEMESTER – V   PAPER – V   Max. Marks 75   Pass Marks 30

Guidelines for paper setting '**SOFTWARE ENGINEERING'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	2	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-502C	2019-20	B.Sc.(MPCS)

SEMESTER – V   **PAPER – VI**   **Max. Marks 50**

Lab List   **SOFTWARE ENGNEERING**   **Pass Marks 25**
No. of Hours per week: 2   **External: 25**   **Internal: 25**   **Credits: 2**

A. <u>ATM</u>

1. Objective of an ATM System.   2. Use-case Diagram of an ATM System

3. Class Diagram of an ATM System   4. Sequence Diagram of an ATM System

5. Activity Diagram of an ATM System   6. State Diagram of an ATM System

7. Deployment Diagram of an ATM System   8. ER Diagram of an ATM System

B. <u>Library management System</u>

1. Objective of Library management System.   2. Use-case Diagram of Library management

3. Class Diagram of Library management System   4. Sequence Diagram of Library management

5. Activity Diagram of Library management System   6. State Diagram of Library management

7. Deployment Diagram of Library management System 8. ER Diagram of Library management

C. <u>Barcode Reader</u>
1. Objective of Barcode Reader   2. Use-case Diagram of Barcode Reader
3. Class Diagram of Barcode Reader   4. Sequence Diagram of Barcode Reader
5. Activity Diagram of Barcode Reader   6. State Diagram of Barcode Reader
7. Deployment Diagram of Barcode Reader   8. ER Diagram of Barcode Reader

D .<u>Safe Home System</u>
1. Objective of Safe Home System.   2. Use-case Diagram of Safe Home System
3. Class Diagram of Safe Home System   4. Sequence Diagram of Safe Home System
5. Activity Diagram of Safe Home System   6. State Diagram of Safe Home System
7. Deployment Diagram of Safe Home System   8. ER Diagram of Safe Home System

E. <u>Online Book Store System</u>
1. Objective of Online Book Store System   2. Use-case Diagram of Online Book Store System
3. Class Diagram of Online Book Store System 4. Sequence Diagram of Online Book Store
5. Activity Diagram of Online Book Store System 6. State Diagram of Online Book Store System
7. Deployment Diagram of Online Book Store System   8. ER Diagram of Online Book Store

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 505C	2019-20	B.Com.(C.A.)

SEMESTER – V   **PAPER – V**   **Max. Marks 75**

Syllabus   **PROGMAMMING IN C**
 NO Of Hours: 5   **No Of Credits: 3**   **Pass Marks**

30

Unit- I: Introduction to Algorithms and Programming Languages: **12 Hrs**
Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts. Introduction to C: Structure of C Program – Writing the first C Program – File used in C Program – Compiling and Executing C Programs Using Comments – Keywords – Identifiers – Basic Data Types in C – Variables Constants – I/O Statements in C- Operators in C- Programming Examples – Type Conversion and Type Casting

Unit-II: Decision Control and Looping Statements   **12 Hrs**
 Introduction to Decision Control Statements – Conditional Branching Statements – Iterative Statements – Nested Loops – Break and Continue Statement – Go to Statement

Unit- III: Functions   **12 Hrs**
Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters – Scope of variables – Storage Classes – Recursive function

Unit- IV: Arrays   **12 Hrs**
 Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array Calculating the length of the Array – Operations on Array – one dimensional array for inter-function communication – Two dimensional Arrays –Operations on Two Dimensional Arrays
 Strings: Introduction String and Character functions

Unit-V: Pointers: **12 Hrs**
Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables Passing Arguments to Functions using Pointer.

Structure, Union, and Enumerated Data Types: Introduction – Nested Structures – Unions – Enumerated Data Types.

Reference Books:

1. Reema Thareja, Introduction to C programming, Oxford University Press.

2. E Balagurusamy, Computing Fundamentals & C Programming – Tata McGraw-Hill, 2008. 3. Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson Publisher, 2002. 4. Henry Mulish & Hubert L.Coo Reema Thareja: The Spirit of C: An Introduction to Modern Programming, Jaico Publishing House,1996.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 505C	2019-20	B.Com.(C.A.)

SEMESTER – V   **PAPER – V**   **Max. Marks 75**

Model Paper   **PROGMAMMING IN C**

Section- A

Answer **FIVE** Questions. Each Question carries **FIVE** Marks.   **5*5=25M**

1. Write a short note on Algorithm?

2. Explain data types in C?

3. Explain Jump Statements?

4. Write a short note on 'if'- statements?

5. Explain Call by Value and Call by Reference

6. Describe recursive function with an example?

7. Explain one dimensional array with example?

8. Write about pointers

Section- B

Answer **FIVE** the Questions. Each Question carries **TEN** Marks   **5*10=50M**

9. Explain different types of programming languages?

10. Explain about different Categories of Operators in 'C'?

11. Explain Decision Making Looping statements with examples?

12. Explain different categories of functions?

13. Explain about Storage Classes?

14. Write about two dimension arrays? Give an example program?

15. Explain briefly about String function in 'C'?

16. Difference between Structures and Unions?

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 505C	**2019-20**	B.Com.(C.A.)

SEMESTER – V   PAPER – V   Max. Marks 75   Pass Marks 30

Guidelines for paper setting '**PROGMAMMING IN C'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	2	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2017-18)

COMPUTER SCIENCE	CCSC-505P	2019-20	B.Com.(C.A.)

SEMESTER – V   PAPER – III   Max. Marks 50   Pass Marks 25

 LABLIST   PROGRAMMING IN C

No. of Hours per week: 2   External: 25   Internal: 25   Credits: 2

1. Find out the given number is perfect number or not using c program.

2. Write a C program to check whether the given number is Armstrong or not.

3. Write a program to find roots of quadratic equation.

   Root 1 = (-b + sqrt (b^2 - 4ac) / 2a   Root 2 = (-b - sqrt (b^2 - 4ac) / 2a

4. Write a C program to find the sum of individual digits of a positive integer.

5. Write a C program to print the Fibonacci series

6. Write a C program to generate the first n terms of the Fibonacci sequence.

7. Write a program to find factorial of a given number using recursion

8. Write a program to perform all arithmetic operations using switch case

9. Write a C program to generate all the prime numbers between 1 and n, where n is a
   Value supplied by the user.

10. Write a C program to find both the largest and smallest number in a list of integers.

11. Write a C program that uses functions to perform the following:
    a. Addition of Two Matrices
    b. Multiplication of Two Matrices

12. Write a program to perform various string operations

13. Write a program to swap two numbers using pointers.

14. Write C program that implements searching of given item in a given list

15. Write a C program to sort a given list of integers in ascending order

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 506C	2019-20	B.Com.(C.A.)

SEMESTER – V   **PAPER – VI**   **Max. Marks 75**

Syllabus   DATA BASE MANAGEMENT SYSTEMS
 NO Of Hours: 5   No Of Credits: 3   **Pass Marks 30**

Course Objective: Design & develop database for large volumes & varieties of data with optimized data processing techniques.

Unit – 1: Database Systems Introduction 12Hrs
Database Systems: Introducing the database and DBMS, Why the database is important,
Historical Roots: Files and File Systems, Problems with File System, Data Management, Database Systems. *Data Models:* The importance of Data models, Data Model Basic Building Blocks, The evaluation of Data Models.

Unit - II: Relational Database & Data Modelling 12 Hrs
The Relational Database Model: A logical view of Data, Keys, Integrity Rules, Relational Set Operators, Indexes, Codd's relational database rules. *Entity Relationship Model:* The ER Model
Advanced Data Modelling: The Extended Entity Relationship Model, Entity clustering.

Unit-III: Normalization and Database Design 14 Hrs
Normalization of database tables: Database Tables and Normalization, The need for Normalization, The Normalization Process, High level Normal Forms, Normalization and database design, de normalization.

Unit-IV: Structured Query Language 12 Hrs
Introduction to SQL: Data Definition Commands, Data Manipulation Commands, Select queries, Advanced Data Definition Commands, Advanced Select queries, Virtual Tables, SQL Join Operators,

Unit-V: Procedural SQL 10 Hrs
Introduction to PL/SQL : Triggers, Stored Procedures, Pl/ SQL Stored Functions

Prescribed Text Book:
1. **Peter Rob, Carlos Coronel, Database Systems Design, Implementation and Management, Seventh Edition, Thomson (2007).**

Reference Books:
3. Elimasri / Navathe, Fundamentals of Database Systems, Fifth Edition, Pearson Addison Wesley
4. Raman A Mata – Toledo/Panline K Cushman, Database Management Systems, Schaum's Outlibe series, Tata McGraw Hill (2007).
5. C.J.Date, A.Kannan, S.Swamynathan, An Introduction to Database Systems, Eight edition, Pearson Education (2006).
6. "DatabaseSystemConcepts" by AbrahamSilberschatz, Henry Korth, and S.Sudarshan, McGrawhill
7. Atul Kahate, Introduction to Database Management Systems, Pearson Education (2006).

Student Activity:
1. Create your college database for placement purpose.
2. Create faculty database of your college with their academic performance scores

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 506C	2019-20	B.Com.(C.A.)

SEMESTER – V   **PAPER – VI**   **Max. Marks 75**

<u>Model Paper</u>   **DATA BASE MANAGEMENT SYSTEMS**
<u>NO Of Hours: 5</u>   <u>No Of Credits: 3</u>   **Pass Marks 30**

Section-A

Answer any **FIVE** Questions. Each question carries **FIVE** Marks   **4x5=25M**

1. Explain the Components of Database System.

2. Explain Entity Relationship Model .

3. Write about Relational Set Operators.

4. Explain Integrity rules.

5. Describe BCNF.

6. Write about D Normalization.

7. Write about Special Functions.

8. Explain Stored Procedures.

Section-B

Answer any **FIVE** Questions. Each question carries **TEN** Marks   **5X10=50M**

9. What is File? Explain the problems with File system

10. Explain any three different Data Models

11. Explain E.F.CODDs' rules.

12. Explain Extended Entity Relationship Model.

13. Explain the concept of Normal Forms.

14. Explain different join operators

15. Explain DDL and DML commands.

16. Explain about triggers.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC 506C	**2019-20**	B.Com.(C.A.)

SEMESTER – V   PAPER – VI   Max. Marks 75   Pass Marks 30

Guidelines for paper setting '**DATA BASE MANAGEMENT SYSTEMS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	2	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-505P	2019-20	B.Sc.(MPCS)

SEMESTER – V   **PAPER – IV**   **Max. Marks 50**

Lab List   **DATA BASE MANAGEMENT SYSTEMS**   **Pass Marks 25**

No. of Hours per week: 2   **External: 25**   **Internal: 25**   **Credits: 2**

1. Creation of college database and establish relationships between tables
2. Explain various data type in Oracle.
3. Show the structure of the Emp table.
4. Show the structure of the DEPT table.
5. Explain the syntax of SELECT statement.
6. Create a query to display the name, job, hiredate and employee number from emp table.
7. Create a query to display unique jobs from the emp table.
8. Create a query to display the empno as EMP#, ename as EMPLOYEE and Hire_date from emp.
9. Create a query to display all the data from the EMP table. Separate each column by a comma and name the column THE_OUTPUT.
10. Create a query to display the name and salary of employees earning more than 2850.
11. Create a query to display the name and salary for all employees whose salary is not in the range of 1500 and 2850.
12. Display the employee name, job and start date of employees hired between February 20 ,1981 and May 1, 1981. Order the query in ascending order of start date
13. Display the employee name and department number of all the employees in departments 10 and 30 in alphabetical order by name.
14. List the name and salary of employees who earn more than 1500 & are in department 10 or 30.
15. Display the name, salary and commissions and sort data in descending order of salary and commission.
16. Display the name and job title of all employees who do not have a manager.
17. Display the name, job and salary for all employees whose job is Clerk or Analyst and their salary is not equal to 1000, 3000 or 5000.
18. Display the names of all employees where the third letter of their name is an 'A'.
19. Display the names of all employees who have two 'L's in their name and are in department 30 or their manager is 7782.
20. Display the name , salary and commission for all employees whose commission amount is grater than their salary increased by 10%.
21. Explain all the character functions.
22. Explain all the number functions.
23. Explain all the Date functions.

Create Student database using the following tables.

STUDENT: Sno : primary key, number Sname : NOT NULL, varchar2 Address: Varchar2

COURSE: Sno   : Foreign key. Course Name : varchar2

Queries:

1. Alter table by adding a column fees in table COURSE.
2. Alter table by modifying the address to VARCHAR2(20)

3. Create a view on which the students who joined in one course only.

PL/SQL.

1. Write A Pl/Sql Program To Swap Two Numbers Without Using Third Variable.
2. Write A Pl/Sql Program To Generate Multiplication Tables For Numbers 2,4 And 6
3. Write A Pl/Sql Program To Display Sum Of Even Numbers And Sum Of Odd Numbers In The Given Range.
4. Write A Pl/Sql Program To Check The Given Number Is Pollinndrome Or Not.
5. Write A Pl/Sql Program To Display Top 10 Rows In Emp Table Based On Their Job And Salary.

Reference Books:

1. Oracle Pl/Sql By Example. Benjamin Rosenzweig, Elena Silvestrova, Pearsoneducation 3rd Edition

2. Sql & Pl/Sql For Oracle 10g, Black Book, Dr.P.S. Deshpande

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-507C	2019-20	B.Com.(CA)

SEMESTER – V   **PAPER – VIII**   **Max. Marks 75**

 Syllabus   **WEB TECHNOLOGIES**

NO Of Hours: 5   **No of Credits: 3**   **Pass Marks 30**

Unit -I   Introduction to XHTML:
Introduction to HTML, Basic html, Document body text, Hyper links, Adding more formatting Lists, Tables, Images, Multimedia Objects, Frames, Forms and XHTML.

Unit- II: CSS:
Cascading Style Sheets: Introduction, Defining your own styles, properties and values in styles, Formatting blocks of information, Layers.
Java Script: java Script, the basics, Variables, String Manipulations, Mathematical functions, Statements, Operators, Arrays, Functions.

Unit –III: Objects in Java Script & Dynamic HTML with Java Script
Objects in Java Script: Data and objects in java script, Regular expressions, Exception Handling, Built in objects, Events.
Dynamic HTML with Java Script: Data validation, Opening a new window, Messages and Confirmations, The status bar, Writing to a different frame, Rollover buttons, Moving images, Multiple pages in a single download, A text-only menu system, Floating logos.

Unit –IV: XML Defining Data for Web Applications

XML: Introduction to XML, Basic XML, document type definition, XML Schema, Document object model, presenting XML, Using XML parser.

Unit -V: JSP:

JSP Lifecycle, Basic Syntax, EL (Expression Language), EL Syntax, Using EL Variables

Prescribed Books:

1.Chris Bates, Web Programming Building Internet Application, Second Edition, Wiley
    2.Head First Servlets and JSP 2nd Edition, Bryan Basham, Kathy Sierra
  2. Uttam Kumar Roy, Web Technologies from Oxford University Press

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-507C	2019-20	B.Sc.(MPCs)

SEMESTER – V   **PAPER – VIII**   **Max. Marks 75**

Model Paper   **WEB TECHNOLOGIES**
No of Credits: 3   **Pass Marks 30**

Section-A

Answer **FIVE** Questions. Each Question carries **FIVE** Marks.   5 X 5=25M

1. Write about structure of HTML Document with an example

2. Explain about lists in HTML

3. Write about properties used in Style Sheet

4. Write about arrays in Java Script

5. Describe Data Object

6. Write about Rollover buttons

7. Describe XML Elements

8. Write the syntax of EL and EL variables

Section-B

Answer **FIVE** Questions. Each Question carries **TEN** Marks.   5 X 10=50M

9. Explain about hyper links? Write about how to link another pages

10. What is Form? Explain about forms with examples

11. What is CSS? How to design Cascading style sheet

12. Explain about Mathematical Functions

13. Explain about Regular Expressions

14. Write about Data validations in DHTML

15. Explain about Document Object Model

16. Explain about JSP Lifecycle with neat diagram

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-507C	**2019-20**	B.Sc.(MPCs)

SEMESTER – V   PAPER – VIII   Max. Marks 75   Pass Marks 30

Guidelines for paper setting '**WEB TECHNOLOGIES'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	1	2
Unit-4	2	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CSC-301C	2019-20	B.Sc.(MPCs, MCCs.)

SEMESTER – III   **PAPER – III**   Max. Marks 70   **Pass Marks 28**

 Syllabus   **OBJECT ORIENTED PROGRAMMING USING JAVA**   Total Hrs: 60

NO. Of. Hours: 4   **Credits: 3**

UNIT-I   **15Hrs**

Fundamentals of Object – Oriented Programming: Introduction, Object Oriented paradigm, Basic Concepts of OOP, Benefits of OOP, Applications of OOP, Java features: **Overview of Java Language**: Introduction, Simple Java program structure, Java tokens, Java Statements, Implementing a Java Program, Java Virtual Machine, Command line arguments. **Constants, Variables & Data Types:** Introduction, Constants, Variables, Data Types, Declaration of Variables, Giving Value to Variables, Scope of variables, Symbolic Constants, Type casting, Getting Value of Variables, Standard Default values; **Operators & Expressions**.

UNIT-II   **15 Hrs**

Decision Making & Branching: Introduction, Decision making with if statement, Simple if statement, if-Else statement, Nesting of if-else statements, the else if ladder, the switch statement, the conditional operator. **Looping**: Introduction, While statement, do-while statement, for statement, Jumps in loops. **Classes, Objects & Methods**: Introduction, Defining a class, Adding variables, Adding methods, Creating objects, Accessing class members, Constructors, Method overloading, Static members, Nesting of methods;

UNIT-III   **10 Hrs**

Inheritance: Extending a Class, Overriding Methods, Final Variables and Methods, Final Classes, Abstract Methods and Classes; **Arrays, Strings And Vectors:** Arrays, One-dimensional arrays, Creating an array, Two – dimensional arrays, Strings, Vectors, Wrapper classes; **Interfaces**: **Multiple Inheritance**: Introduction, Defining interfaces, Extending interfaces, Implementing interfaces, Assessing interface variables;

UNIT-IV   **10 Hrs**

Multithreaded Programming: Introduction, Creating Threads, Extending the Threads, Stopping and Blocking a Thread, Lifecycle of a Thread, Using Thread Methods, Thread Exceptions, Thread Priority, Synchronization, Implementing the 'Runnable' Interface.

Managing Errors And Exceptions: Types of errors: Compile-time errors, Runtime errors, Exceptions, Exception handling, Multiple Catch Statements, Using finally statement,

UNIT-V   **10 Hrs**

Applet Programming: local and remote applets, Applets and Applications, Building Applet code, Applet Life cycle: Initialization state, Running state, Idle or stopped state, Dead state, Display state.

Packages: Introduction, Java API Packages, Using System Packages, Naming conventions, Creating Packages, Accessing a Package, using a Package. **Managing Input/ Output Files in Java:** Introduction, Concept of Streams, Stream classes, Byte Stream Classes, Input Stream Classes, Output Stream Classes, Character Stream classes: Reader stream classes, Writer Stream classes, Using Streams;

Prescribed Text Book:

1. E.Balaguruswamy, Programmingwith JAVA, A primer, 3e, TATA McGraw-Hill Company.

Reference Books

1. Programming In Java By Sachin Malhotra And Saurabh Choudhary From Oxford University Press
2. Object Oriented Programming Through Java by P. Radha Krishna, Universities Press
3. John R. Hubbard, Programming with Java, Second Edition, Schaum's outline Series,
4. Deitel &Deitel. Java TM: How to Program, PHI (2007)
5. Java Programming: From Problem Analysis to Program Design- D.S Mallik

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CSC-301C	2019-'20	B.Sc.(MPCs, MCCs.)

SEMESTER – III   PAPER – III   Max. Marks 70   Pass Marks 28

MODEL PAPER   OBJECT ORIENTED PROGRAMMING USING JAVA

NO Of Hours: 4   Credits: 3   Total Hrs: 60

Section- A

Answer FOUR Questions. Each Question carries FIVE Marks.   4*5=20M

1. Explain the structure of a java program?

2. Explain different data types in java?

3. Explain about Constructors?

4. Differences between arrays and vectors?

5. Explain about Exception handling?

6. Explain the applet life cycle?

Section- B

Answer FIVE the Questions. Each Question carries TEN Marks   5*10=50M

7. Explain the Concepts of Object Oriented Programming?

8. Explain java Features?

9. Explain Looping statements with example

10. Explain Method overloading with an example program

11. Explain about inheritance

12. Explain the concept of interface?

13. Explain life cycle of a thread?

14. Explain about Byte Stream Classes?

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect Form Academic Year 2019-'20)

COMPUTER SCIENCE	CSC-301C	2019-'20	B.Sc.(MPCs., MCCs.)
SEMESTER – III		PAPER – III	Max. Marks 70

Guidelines for paper setting '**OBJECT ORIENTED PROGRAMMING USING JAVA'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	1	2
Unit-3	1	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CSC-301P	2019-'20	B.Sc.(MPCs, MCCs.)

SEMESTER – III   **PAPER – III**   Max. Marks 50

<u>**Lab List**</u>   **OBJECT ORIENTED PROGRAMMING USING JAVA**   **Pass Marks 25**
No. of Hours per week: 2   External: 25   Internal: 25   Credits: 2

1. Write a program to perform various String Operations

2. Write a program to print the given number is Armstrong or not?

3. Prompt for the cost and selling price of an article and display the profit (or) loss

4. Write a program to print the numbers given by command line arguments

5. Write a program on class and object in java

6. Illustrate the method overriding in JAVA

7. Write a program to find the Simple Interest using Multilevel Inheritance

8. Write a program to display matrix multiplication.

9. Write a program to implement Exception handling

10. Write a program to create packages in Java

11. Write a program on interface in java

12. Write a program to Create Multiple Threads in Java

13. Write a program to Write Applets to draw the various polygons

14. Write a program to assign priorities to threads in java

15. Write an Applet Program to design a Simple Calculator.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301C	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max. Marks 50   Pass Marks 20   Total Hrs 30

Syllabus   Internet Fundamentals and Web Tools   NO. Of Hrs: 2 Credits: 2

Unit-I :   6Hrs
Fundamentals of Internet : Networking Concepts, Data Communication – Types of Networking,
Internet and its Services, Internet Addressing – Internet Applications – Computer Viruses and its types
– Browser –Types of Browsers.

Unit-II: 6Hrs
Internet applications: Using Internet Explorer, Standard Internet Explorer Buttons, Entering a Web
Site Address, Searching the Internet – Introduction to Social Networking: twitter, tumbler, LinkedIn,
face book, flicker, Skype, yelp, vimeo, yahoo, Google+, YouTube, WhatsApp, etc.

Unit-III :   6Hrs
E-mail : Definition of E-mail - Advantages and Disadvantages – User-Ids, Passwords, Email
Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail
Management, Email Inner Workings.

Unit IV: 6Hrs
WWW- Web Applications, Web Terminologies, Web Browsers, URL – Components of URL,
Searching WWW – Search Engines and Examples

Unit-V :   6Hrs
Basic HTML: Basic HTML – Web Terminology – Structure of a HTML Document – HTML, Head
and Body tags – Semantic and Syntactic Tags – HR, Heading, Font, Image and Anchor Tags –
Different types of Lists using tags – Table Tags, Image formats – Creation of simple HTML
Documents.

Reference Books :
1. In-line/On-line : Fundamentals of the Internet and the World Wide Web, 2/e - by
Raymond Greenlaw and Ellen Hepp, Publishers : TMH

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect Form Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301C	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max.Marks 50   Pass Marks: 20   Total: 30 Hrs

Modal Paper: Internet Fundamentals and Web Tools   NO. Of Hrs: 2   Credits: 2

Section- A

Answer FOUR Questions. Each Question carries FIVE marks.   4X5=20M

1. Explain types of Browsers?
2. Explain Internet Applications.
3. Write a short note on Internet Explorer?
4. Explain User Id and Password of e-mail?
5. Explain Advantages and disadvantages of electronic mail.4
6. Explain about WWW?
7. Explain briefly about web application.
8. Explain Head and Body tags in HTML Document?

Section- B

Answer Any THREE Questions. Each Question carries TEN Marks.   3×10=30M

9. Explain types of Networking?
10. Explain Internet Services?
11. Explain any 10 Social Net Working Sites
12. Explain Message Composition.
13. Explain different types of Search Engines.
14. Explain different lists in HTML.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CCSC-303C	2019-'20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 70   Pass Marks 28 Total Hrs: 60

<u>**Syllabus**</u>   **Office Automation Tools**   **NO. Of. Hours: 5**   **Credits: 4**

Unit-I:

12Hrs

MS-Excel: features of Ms-Excel, Parts of MS-Excel window, entering and editing data in worksheet, number formatting in excel, different cell references, how to enter and edit formula in excel, auto fill and custom fill, printing options.

Unit-II: **12**

Hrs Formatting options: Different formatting options, change row height, formulae and Functions,

Functions: Meaning and advantages of functions, different types of functions available in Excel.

Unit-III:

12Hrs

Charts: Different types of charts, Parts of chart, chart creation using wizard, chart operations, data maps, graphs, data sorting, filtering. Excel sub totals, scenarios, what-if analysis.

Macro: Meaning and advantages of Macros, creation, editing and deletion of macros - Creating a macro, how to run, how to delete a macro.

Unit-IV:

12Hrs

MS Access: Creating a Simple Database and Tables: Features of Ms-Access, Creating a Database, Parts of Access. **Tables:** table creation using design view, table wizard, data sheet view, import table, link table. **Forms:** The Form Wizard, design view, columnar, tabular, data sheet, chart wizard.

Unit- V:

12Hrs

Finding, Sorting and Displaying Data: Queries and Dynasts, Creating and using select queries, Returning to the Query Design, Multi-level sorts, Finding incomplete matches, showing All records after a Query, saving queries - Crosstab Queries. **Printing Reports:** Form and Database Printing..

Reference Books:

1.Ron Mansfield, Working in Microsoft Office, Tata McGraw Hill(2008)

2.Ed Bott, Woody Leonhard, Using Microsoft Office 2007, Pearson Education(2007)

3. Sanjay Saxsena, Microsoft Office, 4.Microsoft Office, BPB Publications

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CCSC-303C	2019-'20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 70   Pass Marks 28   Total Hrs: 60

Model Paper   Office Automation Tools   NO Of Hours: 5   Credits: 4

Section- A

Answer FOUR Questions. Each Question carries FIVE Marks.   4*5=20M

1. Explain Features of Excel?

2. What are advantages of Functions?

3. Explain what is sorting?

4. Explain how to delete Macro?

5. Write any 5 Features of Access?

6. Describe Query used in MS-Access?

Section- B

Answer FIVE the Questions. Each Question carries TEN Marks.   5*10=50M

7. Explain Parts of Excel Sheet with neat Diagram.

8. Explain AutoFill and Custom Fill Options in Excel.

9. Explain different types of Functions available.

10. Explain different Formatting options.

11. What is Chart? Explain different types of Charts.

12. What is Macro? Explain Creating and Editing of Macro.

13. What is Form? Explain Creating Form using Form Wizard.

14. Explain How to Create a Query, Showing, all records after Query and Saving Query.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect Form Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max. Marks 50

Guidelines for paper setting **'INTERNET FUNDAMENTALS AND WEB TOOLS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	1
Unit-3	2	1
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	CCSC-303P	2019-'20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 50   Pass Marks 20   Total Hrs: 30

Lab list   Office Automation Tools

Ms-Word

1. Create a vesting Card
2. Create a template for organization using Header & Footer
3. Mail merge Procedure

Ms-Excel

1. Create an electronic spreadsheet in which you enter the following decimal numbers and convert into Octal, Hexadecimal and Binary numbers vice versa. Decimal Numbers: 35, 68, 95, 165, 225, 355, 375, 465. Binary Numbers: 101, 1101, 111011, 10001, 110011001, 111011111.

2. The ABC Company shows the sales of different products for 5 years. Create column chart, 3D-column and Bar chart for the following data
YEAR PRODUCT-1 PRODUCT-2 PRODUCT-3 PRODUCT-4
2003 1000 800 900 1000 2004 800 80 500 900 2005 1200 190 400 800 2006 400 200 300 1000 2007 1800 400 400 1200

3. Create a suitable examination data base and find the sum of the marks(total) of each student and respective class secured by the student rules:
Pass if marks in each subject >=35
Distinction if average>=75
First class if average>=60 but <75
Second class if average>=50 but <60
Third class if average>=35 but <50
Fail if marks in any subject is <35
Display average marks of the class, subject wise and pass percentage

4. Create an electronic spread sheet in which you enter date and time functions in Excel

5. Create a electronic spread sheet in statistical and mathematical functions in Excel

MS-PowerPoint

1. Make a Power point presentation on your strengths, weaknesses, hobbies, factors that waste your time.

2. Make a Power point presentation to represent your College profile.

3. Make a Power point presentation of all the details of the books that you had studied in B.Sc. First Year.

4. Create a Presentation without Animation.

MS-ACCESS

1. Create a database using MS-ACCESS with at least 5 records table1 structure: register number , name, dob, gender, class table2 structure: register number m1 m2 m3 m4 m5 total maintain the relationship between two tables with register number as a primary key and answer the following quarries: show the list of students with the following fields as one query register number name gender total marks

2. Maintain the relationship between above two tables with register number as a primary key and answer the following reports: reports must have following columns report1 with register number, name, marks of all subjects and 90 hrs (3 hrs/ week) computer science 10 of 44 total report2 with register number, total , percentage.

3. Create a database using ms-access with at least 5 records table1 structure: emp-code emp-name age gender dob table2 structure: emp-code basic-pay maintain the relationship between two tables with emp-code as a primary key generate the following reports: report1: emp-code emp-name basic-pay da,hra gross-salary report2: emp-code emp-name age gender gross-salary

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301C	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max. Marks 50   Pass Marks 20   Total Hrs 30

Syllabus   Internet Fundamentals and Web Tools   NO. Of Hrs: 2 Credits: 2

Unit-I :   6Hrs
Fundamentals of Internet : Networking Concepts, Data Communication – Types of Networking, Internet and its Services, Internet Addressing – Internet Applications – Computer Viruses and its types – Browser –Types of Browsers.

Unit-II: 6Hrs
Internet applications: Using Internet Explorer, Standard Internet Explorer Buttons, Entering a Web Site Address, Searching the Internet – Introduction to Social Networking: twitter, tumbler, LinkedIn, face book, flicker, Skype, yelp, vimeo, yahoo, Google+, YouTube, WhatsApp, etc.

Unit-III :   6Hrs
E-mail : Definition of E-mail - Advantages and Disadvantages – User-Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management, Email Inner Workings.

Unit IV: 6Hrs
WWW- Web Applications, Web Terminologies, Web Browsers, URL – Components of URL, Searching WWW – Search Engines and Examples

Unit-V :   6Hrs
Basic HTML: Basic HTML – Web Terminology – Structure of a HTML Document – HTML, Head and Body tags – Semantic and Syntactic Tags – HR, Heading, Font, Image and Anchor Tags – Different types of Lists using tags – Table Tags, Image formats – Creation of simple HTML Documents.

Reference Books :
1. In-line/On-line : Fundamentals of the Internet and the World Wide Web, 2/e - by Raymond Greenlaw and Ellen Hepp, Publishers : TMH

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college with in the jurisdiction of Krishna University A.P, India.

(With Effect Form Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301C	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II Max.Marks 50   Pass Marks: 20   Total: 30 Hrs

Modal Paper: Internet Fundamentals and Web Tools   NO. Of Hrs: 2 Credits: 2

Section- A

Answer FOUR Questions. Each Question carries FIVE marks.   4X5=20M

1. Explain types of Browsers?
2. Explain Internet Applications.
3. Write a short note on Internet Explorer?
4. Explain User Id and Password of e-mail?
5. Explain Advantages and disadvantages of electronic mail.4
6. Explain about WWW?
7. Explain briefly about web application.
8. Explain Head and Body tags in HTML Document?

Section- B

Answer Any THREE Questions. Each Question carries TEN Marks.   3×10=30M

9. Explain types of Networking?
10. Explain Internet Services?
11. Explain any 10 Social Net Working Sites
12. Explain Message Composition.
13. Explain different types of Search Engines.
14. Explain different lists in HTML.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect From Academic Year 2019-'20)

COMPUTER SCIENCE	ICT-II-301C	2019-'20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max. Marks 50

Guidelines for paper setting **'INTERNET FUNDAMENTALS AND WEB TOOLS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	1
Unit-3	2	1
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-301C	2019-20	B.Sc.(MPCs, MCCs.)

SEMESTER – III   **PAPER – III**   Max. Marks 75   **Pass Marks 30**

 Syllabus   **OBJECT ORIENTED PROGRAMMING USING JAVA**   **Total Hrs: 60**

NO. Of. Hours: 4   **Credits: 3**

UNIT-I   **15Hrs**
Fundamentals of Object – Oriented Programming: Introduction, Object Oriented paradigm, Basic Concepts of OOP, Benefits of OOP, Applications of OOP, Java features: **Overview of Java Language**: Introduction, Simple Java program structure, Java tokens, Java Statements, Implementing a Java Program, Java Virtual Machine, Command line arguments. **Constants, Variables & Data Types:** Introduction, Constants, Variables, Data Types, Declaration of Variables, Giving Value to Variables, Scope of variables, Symbolic Constants, Type casting, Getting Value of Variables, Standard Default values; **Operators & Expressions**.

UNIT-II   **15 Hrs**
Decision Making & Branching: Introduction, Decision making with if statement, Simple if statement, if-Else statement, Nesting of if-else statements, the else if ladder, the switch statement, the conditional operator. **Looping**: Introduction, While statement, do-while statement, for statement, Jumps in loops. **Classes, Objects & Methods**: Introduction, Defining a class, Adding variables, Adding methods, Creating objects, Accessing class members, Constructors, Method overloading, Static members, Nesting of methods;

UNIT-III   **10 Hrs**
Inheritance: Extending a Class, Overriding Methods, Final Variables and Methods, Final

Classes, Abstract Methods and Classes; **Arrays, Strings And Vectors:** Arrays, One-dimensional arrays, Creating an array, Two – dimensional arrays, Strings, Vectors, Wrapper classes; **Interfaces**: **Multiple Inheritance**: Introduction, Defining interfaces, Extending

interfaces, Implementing interfaces, Assessing interface variables;

UNIT-IV   **10 Hrs**
Multithreaded Programming: Introduction, Creating Threads, Extending the Threads, Stopping and Blocking a Thread, Lifecycle of a Thread, Using Thread Methods, Thread Exceptions, Thread Priority, Synchronization, Implementing the 'Runnable' Interface.

Managing Errors And Exceptions: Types of errors: Compile-time errors, Runtime errors, Exceptions, Exception handling, Multiple Catch Statements, Using finally statement,

UNIT-V   **10 Hrs**
Applet Programming: local and remote applets, Applets and Applications, Building Applet code, Applet Life cycle: Initialization state, Running state, Idle or stopped state, Dead state, Display state.

Packages: Introduction, Java API Packages, Using System Packages, Naming

conventions, Creating Packages, Accessing a Package, using a Package. **Managing Input/ Output Files in Java:** Introduction, Concept of Streams, Stream classes, Byte Stream Classes, Input Stream Classes, Output Stream Classes, Character Stream classes: Reader stream classes, Writer Stream classes, Using Streams;

Prescribed Text Book:
1. E.Balaguruswamy, Programmingwith JAVA, A primer, 3e, TATA McGraw-Hill Company.

Reference Books
6. Programming In Java By Sachin Malhotra And Saurabh Choudhary From Oxford University Press
7. Object Oriented Programming Through Java by P. Radha Krishna, Universities Press
8. John R. Hubbard, Programming with Java, Second Edition, Schaum's outline Series,
9. Deitel &Deitel. Java TM: How to Program, PHI (2007)
10. Java Programming: From Problem Analysis to Program Design- D.S Mallik

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-301C	2019-20	B.Sc.(MPCs, MCCs.)

SEMESTER – III   PAPER – III   **Max. Marks 75   Pass Marks 30**

MODEL PAPER   OBJECT ORIENTED PROGRAMMING USING JAVA

NO Of Hours: 4   **Credits: 3**   **Total Hrs: 60**

Section- A

Answer <u>FIVE</u> Questions. Each Question carries FIVE Marks.   5*5=25M

15. Explain the structure of a java program?

16. Explain different data types in java?

17. Write a short note on if statement

18. Explain about Constructors?

19. Differences between arrays and vectors?

20. Explain about Exception handling?

21. Explain the applet life cycle?

22. How to create and accessing a package?

Section- B

Answer <u>FIVE</u> the Questions. Each Question carries TEN Marks   5*10=50M

23. Explain the Concepts of Object Oriented Programming?

24. Explain java Features?

25. Explain Looping statements with example

26. Explain Method overloading with an example program

27. Explain about inheritance

28. Explain the concept of interface?

29. Explain life cycle of a thread?

30. Explain about Byte Stream Classes?

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect From Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-301C	**2019-20**	B.Sc.(MPCs., MCCs.)

SEMESTER – III   PAPER – III   Max. Marks 75

Guidelines for paper setting '**OBJECT ORIENTED PROGRAMMING USING JAVA'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	1	2
Unit-4	1	1
Unit-5	2	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-301P	2019-20	B.Sc.(MPCs., MCCs.)

SEMESTER – III **PAPER – III** Max. Marks 50

<u>**Lab List**</u> **OBJECT ORIENTED PROGRAMMING USING JAVA** Pass Marks 25

No. of Hours per week: 2 External: 25 Internal: 25 Credits: 2

16. Write a program to perform various String Operations

17. Write a program to print the given number is Armstrong or not?

18. Prompt for the cost and selling price of an article and display the profit (or) loss

19. Write a program to print the numbers given by command line arguments

20. Write a program on class and object in java

21. Illustrate the method overriding in JAVA

22. Write a program to find the Simple Interest using Multilevel Inheritance

23. Write a program to display matrix multiplication.

24. Write a program to implement Exception handling

25. Write a program to create packages in Java

26. Write a program on interface in java

27. Write a program to Create Multiple Threads in Java

28. Write a program to Write Applets to draw the various polygons

29. Write a program to assign priorities to threads in java

30. Write an Applet Program to design a Simple Calculator.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	**ICT-II-301C**	**2019-20**	**B.A, B.Com, B.Sc.**

SEMESTER – III   PAPER – II   Max. Marks 50   Pass Marks 20   Total Hrs 30

Syllabus   Internet Fundamentals and Web Tools   NO. Of Hrs: 2 Credits: 2

Unit-I :   6Hrs
Fundamentals of Internet : Networking Concepts, Data Communication – Types of Networking, Internet and its Services, Internet Addressing – Internet Applications – Computer Viruses and its types – Browser –Types of Browsers.

Unit-II: 6Hrs
Internet applications: Using Internet Explorer, Standard Internet Explorer Buttons, Entering a Web Site Address, Searching the Internet – Introduction to Social Networking: twitter, tumbler, LinkedIn, face book, flicker, Skype, yelp, vimeo, yahoo, Google+, YouTube, WhatsApp, etc.

Unit-III :   6Hrs
E-mail : Definition of E-mail - Advantages and Disadvantages – User-Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management, Email Inner Workings.

Unit IV: 6Hrs
WWW- Web Applications, Web Terminologies, Web Browsers, URL – Components of URL, Searching WWW – Search Engines and Examples

Unit-V :   6Hrs
Basic HTML: Basic HTML – Web Terminology – Structure of a HTML Document – HTML, Head and Body tags – Semantic and Syntactic Tags – HR, Heading, Font, Image and Anchor Tags – Different types of Lists using tags – Table Tags, Image formats – Creation of simple HTML Documents.

Reference Books :
1. In-line/On-line : Fundamentals of the Internet and the World Wide Web, 2/e - by Raymond Greenlaw and Ellen Hepp, Publishers : TMH

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect From Academic Year 2018-'19)

COMPUTER SCIENCE	ICT-II-301C	2019-20	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max.Marks 50   Pass Marks: 20   Total: 30 Hrs

Modal Paper: Internet Fundamentals and Web Tools   NO. Of Hrs: 2   Credits: 2

Section- A

Answer FOUR Questions. Each Question carries FIVE marks.   4X5=20M

15. Explain types of Browsers?

16. Explain Internet Applications.

17. Write a short note on Internet Explorer?

18. Explain User Id and Password of e-mail?

19. Explain Advantages and disadvantages of electronic mail.4

20. Explain about WWW?

21. Explain briefly about web application.

22. Explain Head and Body tags in HTML Document?

Section- B

Answer Any THREE Questions. Each Question carries TEN Marks.   3×10=30M

23. Explain types of Networking?

24. Explain Internet Services?

25. Explain any 10 Social Net Working Sites

26. Explain Message Composition.

27. Explain different types of Search Engines.

28. Explain different lists in HTML.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect From Academic Year 2018-'19)

COMPUTER SCIENCE	ICT-II-301	**2019-20**	B.A, B.Com, B.Sc.

SEMESTER – III   PAPER – II   Max. Marks 50

Guidelines for paper setting **'INTERNET FUNDAMENTALS AND WEB TOOLS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	1
Unit-3	2	1
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-303C	2019-20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 75   Pass Marks 30   Total Hrs: 60

<u>**Syllabus**</u>   **Office Automation Tools**   **NO. Of. Hours: 5**   **Credits: 4**

Unit-I:

12Hrs

MS-Excel: features of Ms-Excel, Parts of MS-Excel window, entering and editing data in worksheet, number formatting in excel, different cell references, how to enter and edit formula in excel, auto fill and custom fill, printing options.

Unit-II: **12**

Hrs Formatting options: Different formatting options, change row height, formulae and Functions,

Functions: Meaning and advantages of functions, different types of functions available in Excel.

Unit-III:

12Hrs

Charts: Different types of charts, Parts of chart, chart creation using wizard, chart operations, data maps, graphs, data sorting, filtering. Excel sub totals, scenarios, what-if analysis.

Macro: Meaning and advantages of Macros, creation, editing and deletion of macros - Creating a macro, how to run, how to delete a macro.

Unit-IV:

12Hrs

MS Access: Creating a Simple Database and Tables: Features of Ms-Access, Creating a Database, Parts of Access. **Tables:** table creation using design view, table wizard, data sheet view, import table, link table. **Forms:** The Form Wizard, design view, columnar, tabular, data sheet, chart wizard.

Unit- V:

12Hrs

Finding, Sorting and Displaying Data: Queries and Dynasts, Creating and using select queries, Returning to the Query Design, Multi-level sorts, Finding incomplete matches, showing All records after a Query, saving queries - Crosstab Queries. **Printing Reports:** Form and Database Printing..

Reference Books:

1.Ron Mansfield, Working in Microsoft Office, Tata McGraw Hill(2008)

2.Ed Bott, Woody Leonhard, Using Microsoft Office 2007, Pearson Education(2007)

3. Sanjay Saxsena, Microsoft Office, 4.Microsoft Office, BPB Publications

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-303C	2019-20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 75   Pass Marks 30   Total Hrs: 60

Model Paper   Office Automation Tools   NO Of Hours: 5   Credits: 4

Section- A

Answer FIVE Questions. Each Question carries FIVE Marks.   5*5=25M

15. Explain Features of Excel?

16. Explain Number Formatting in Excel?

17. Explain How to Change row Height??

18. What are advantages of Functions?

19. Explain what is sorting?

20. Explain how to delete Macro?

21. Write any 5 Features of Access?

22. Describe Query used in MS-Access?

Section- B

Answer FIVE the Questions. Each Question carries TEN Marks.   5*10=50M

23. Explain Parts of Excel Sheet with neat Diagram.

24. Explain AutoFill and Custom Fill Options in Excel.

25. Explain different types of Functions available.

26. Explain different Formatting options.

27. What is Chart? Explain different types of Charts.

28. What is Macro? Explain Creating and Editing of Macro.

29. What is Form? Explain Creating Form using Form Wizard.

30. Explain How to Create a Query, Showing, all records after Query and Saving Query.

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-303C	**2019-20**	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 75

Guidelines for paper setting '**OFFICE AUTOMATION TOOLS'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	2	2
Unit-3	2	2
Unit-4	1	1
Unit -5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-303P	2019-20	B.Com. (C.A)

SEMESTER – III   PAPER – III   Max. Marks 50   Pass Marks 20   Total Hrs: 30

Lab list   Office Automation Tools

Ms-Word

4. Create a vesting Card
5. Create a template for organization using header & footer
6. Mail merge Procedure

Ms-Excel

1. Create an electronic spreadsheet in which you enter the following decimal numbers and convert into Octal, Hexadecimal and Binary numbers vice versa. Decimal Numbers: 35, 68, 95, 165, 225, 355, 375, 465. Binary Numbers: 101, 1101, 111011, 10001, 110011001, 111011111.

2. The ABC Company shows the sales of different products for 5 years. Create column chart, 3D-column and Bar chart for the following data
YEAR PRODUCT-1 PRODUCT-2 PRODUCT-3 PRODUCT-4
2003 1000 800 900 1000 2004 800 80 500 900 2005 1200 190 400 800 2006 400 200 300 1000 2007 1800 400 400 1200

3. Create a suitable examination data base and find the sum of the marks(total) of each student and respective class secured by the student rules:
Pass if marks in each subject >=35
Distinction if average>=75
First class if average>=60 but <75
Second class if average>=50 but <60
Third class if average>=35 but <50
Fail if marks in any subject is <35
Display average marks of the class, subject wise and pass percentage

4. Create an electronic spread sheet in which you enter date and time functions in Excel

5. Create a electronic spread sheet in statistical and mathematical functions in Excel

MS-PowerPoint

1. Make a Power point presentation on your strengths, weaknesses, hobbies, factors that waste your time.

2. Make a Power point presentation to represent your College profile.

3. Make a Power point presentation of all the details of the books that you had studied in B.Sc. First Year.

4. Create a Presentation without Animation.

MS-ACCESS

1. Create a database using MS-ACCESS with at least 5 records table1 structure: register number , name, dob, gender, class table2 structure: register number m1 m2 m3 m4 m5 total maintain the relationship between two tables with register number as a primary key and answer the following quarries: show the list of students with the following fields as one query register number name gender total marks

2. Maintain the relationship between above two tables with register number as a primary key and answer the following reports: reports must have following columns report1 with register number, name, marks of all subjects and 90 hrs (3 hrs/ week) computer science 10 of 44 total report2 with register number, total , percentage.

3. Create a database using ms-access with at least 5 records table1 structure: emp-code emp-name age gender dob table2 structure: emp-code basic-pay maintain the relationship between two tables with emp-code as a primary key generate the following reports: report1: emp-code emp-name basic-pay da,hra gross-salary report2: emp-code emp-name age gender gross-salary

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-101C	2019-20	B.Sc.(MPCs, MCCs.)

SEMESTER – I   PAPER – I   Max. Marks 70   Pass Marks 28   Total Hrs 60

<u>Syllabus:</u>   **Computer Fundamentals & Photoshop   NO. Of. Hours: 4   Credits: 3**

 UNIT-I:

    12Hrs

Introduction to computers, characteristics and limitations of computer, Block diagram of computer, types of computers, uses of computers, computer generations. Number systems: binary, hexa and octal numbering system.

UNIT-II:
    12Hrs
Input and output devices: Keyboard and mouse, inputting data in other ways, Types of Software: system software, Application software, commercial, open source, domain and freeware software, Memories: primary, secondary and cache memory. Windows basics: desktop, start menu, icons.

Unit –III:
    15Hrs
Introduction to Adobe Photoshop, Getting started with Photoshop, creating and saving a document in Photoshop, page layout and back ground, Photoshop program window-title bar, menu bar ,option bar ,image window ,image title bar ,status bar, ruler ,paletts, tool box ,screen modes ,saving files ,reverting files ,closing files.

Unit –IV:
    10Hrs
Images: working with images, image size and resolution, image editing, colour modes and adjustments, Zooming & Panning an Image, Rulers, Guides & Grids- Cropping & Straightening an Image, image backgrounds, making selections.
Working with tool box: working with pen tool, save and load selection-working with erasers-working with text and brushes-Colour manipulations: colour modes- Levels Curves - Seeing Colour accurately - Patch tool – Cropping-Reading your palettes - Dust and scratches- Advanced Retouching- smoothing skin.

Unit-V:
    11Hrs
Layers: Working with layers- layer styles- opacity-adjustment layers
Filters: The filter menu, Working with filters- Editing your photo shoot, presentation –how to create adds , artstic filter, blur filter, brush store filter, distort filters, noice filters, pixelate filters, light effects, difference clouds, sharpen filters, printing.

Reference Books:
1. Fundamentals of Computers by Reema Thareja from Oxford University Press
2. Adobe Photoshop Class Room in a Book by Adobe Creative Team.
3. Photoshop: Beginner's Guide for Photoshop - Digital Photography, Photo Editing, Colour Grading & Graphic...19 February 2016 by David Maxwell

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college withinthe jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-101C	2019-'20	B.Sc.(MPCs, MCCs.)

SEMESTER – I   PAPER – I   Max. Marks 70   Pass Marks 28

<u>Model Paper</u> **Computer Fundamentals & Photoshop NO Of Hours: 4 Credits: 3**

Section- A

Answer <u>FOUR</u> Questions. Each Question carries FIVE Marks.   4*5=20M

1. Explain Characteristics and limitations of Computer?
2. Explain desktop, start menu, icons?
3. Describe Cache Memory?
4. Explain saving, retrieving and closing files in Photoshop?
5. Write a short note on Pen tool?
6. Explain working with Layers?

Section- B

Answer <u>FIVE</u> the Questions. Each Question carries TEN Marks.   5*10=50M

7. Explain Block Diagram of Computer?
8. Explain Types of Computers?
9. Explain about Input Devices?
10. Explain about Computer Memory?
11. Explain title-bar, menu-bar, option- bar and image window in Photoshop?
12. Explain Rulers, Guide and Grid-Cropping options for an Image?
13. Explain Colour modes – Levels and Curves?
14. Explain different Filters Photoshop?

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect From Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-101	**2019-20**	B.Sc.(MPCs., MCCs.)

SEMESTER – I   PAPER – I   Max. Marks 70

Guidelines for paper setting **'COMPUTER FUNDAMENTALS & PHOTOSHOP'**

Unit wise weightage of Marks

	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	1	2
Unit-3	1	2
Unit-4	1	1
Unit-5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CSC-101P	2019-20	B.Sc.(MPCs, MCCs.)

SEMESTER – I   PAPER – I   Max. Marks : 50   Pass Marks 25

No. of Hours per week: 2   External: 25   Internal: 25   Credits: 2

Lab List   *Photo Shop Lab*

1. Create your Visiting card

2. Create Cover page for any text book

3. Create a Paper add for advertising of any commercial agency

4. Design a Passport photo

5. Create a Pamphlet for any program to be conducted by an organization

6. Create Broacher for you college

7. Create Titles for any forthcoming film

8. Custom shapes creation

9. Create a Web template for your college

10. Convert colour photo to black and white photo

11. Enhance and reduce the given Image size

12. Background changes

13. Design Box package cover

14. Design Texture and patterns

15. Filter effects & Eraser effects

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.
An Autonomous college within the jurisdiction of Krishna University A.P, India.
(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-103C	2019-20	B.Com.(C.A)

SEMESTER – I   PAPER – I   Max. Marks 70   Pass Marks 28   Total Hrs 60

<u>**Syllabus:**</u>   **Computer Fundamentals & Photoshop   NO. Of. Hours: 4   Credits: 3**

UNIT-I: 12Hrs

Introduction to computers, characteristics and limitations of computer, Block diagram of computer, types of computers, uses of computers, computer generations. Number systems: binary, hexa and octal numbering system.

UNIT-II: 12Hrs
Input and output devices: Keyboard and mouse, inputting data in other ways, Types of Software: system software, Application software, commercial, open source, domain and freeware software, Memories: primary, secondary and cache memory. Windows basics: desktop, start menu, icons.

Unit –III: 15Hrs
Introduction to Adobe Photoshop, Getting started with Photoshop, creating and saving a document in Photoshop, page layout and back ground, Photoshop program window-title bar, menu bar ,option bar ,image window ,image title bar ,status bar, ruler ,paletts, tool box ,screen modes ,saving files ,reverting files ,closing files.

Unit –IV: 10Hrs
Images: working with images, image size and resolution, image editing, colour modes and adjustments, Zooming & Panning an Image, Rulers, Guides & Grids- Cropping & Straightening an Image, image backgrounds, making selections.
Working with tool box: working with pen tool, save and load selection-working with erasers-working with text and brushes-Colour manipulations: colour modes- Levels Curves - Seeing Colour accurately - Patch tool – Cropping-Reading your palettes - Dust and scratches- Advanced Retouching- smoothing skin.

Unit-V: 11Hrs
Layers: Working with layers- layer styles- opacity-adjustment layers
Filters: The filter menu, Working with filters- Editing your photo shoot, presentation –how to create adds , artstic filter, blur filter, brush store filter, distort filters, noice filters, pixelate filters, light effects, difference clouds, sharpen filters, printing.

Reference Books:
1. Fundamentals of Computers by Reema Thareja from Oxford University Press
2. Adobe Photoshop Class Room in a Book by Adobe Creative Team.
3. Photoshop: Beginner's Guide for Photoshop - Digital Photography, Photo Editing, Colour Grading & Graphic...19 February 2016 by David Maxwell

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-103C	2019-20	B.Com.(C.A)

SEMESTER – I   PAPER – I   Max. Marks 70   Pass Marks 28

Model Paper Computer Fundamentals & Photoshop NO Of Hours: 4   Credits: 3

Section- A

Answer FOUR Questions. Each Question carries FIVE Marks.   4*5=20M

1. Explain Characteristics and limitations of Computer?

2. Explain desktop, start menu, icons?

3. Describe Cache Memory?

4. Explain saving, retrieving and closing files in Photoshop?

5. Write a short note on Pen tool?

6. Explain working with Layers?

Section- B

Answer FIVE the Questions. Each Question carries TEN Marks.   5*10=50M

7. Explain Block Diagram of Computer?

8. Explain Types of Computers?

9. Explain about Input Devices?

10. Explain about Computer Memory?

11. Explain title-bar, menu-bar, option- bar and image window in Photoshop?

12. Explain Rulers, Guide and Grid-Cropping options for an Image?

13. Explain Colour modes – Levels and Curves?

14. Explain different Filters Photoshop?

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect From Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-103C	**2019-20**	B.Com.(C.A)

SEMESTER – I   PAPER – I   Max. Marks 70

Guidelines for paper setting '**COMPUTER FUNDAMENTALS & PHOTOSHOP'**

Unit wise weightage of Marks	Section-A (Short answer questions)	Section-B (essay questions)
Unit-1	2	2
Unit-2	1	2
Unit-3	1	2
Unit-4	1	1
Unit -5	1	1

- Each Short answer question carries 5 marks in Section –A
- Each Essay question carries 10 marks in Section –B
- The Question papers setters are requested to cover all the topics in the syllabus stipulated as per the weightage given by us

AG & SG SIDDHARTHA COLLEGE OF ARTS AND SCIENCES - VUYYURU.

An Autonomous college within the jurisdiction of Krishna University A.P, India.

(With Effect from Academic Year 2018-'19)

COMPUTER SCIENCE	CCSC-103P	2019-20	B.Com. (CA.)

SEMESTER – I   PAPER – I   Max. Marks : 50   Pass Marks 25

No. of Hours per week: 2   External: 25   Internal: 25   Credits: 2

Lab List   *Photo Shop Lab*

1. Create your Visiting card

2. Create Cover page for any text book

3. Create a Paper add for advertising of any commercial agency

4. Design a Passport photo

5. Create a Pamphlet for any program to be conducted by an organization

6. Create Broacher for you college

7. Create Titles for any forthcoming film

8. Custom shapes creation

9. Convert colour photo to black and white photo

10. Background changes

11. Design Texture and patterns

12. Filter effects & Eraser effects

→Discussed and recommended the teaching and evaluation methods for approval of Academic Council.

Teaching methods:

Besides the conventional methods of teaching, we use modern technology i.e. Using of LMS and LCD projector to display on power board etc..for better understanding of concepts.

Evaluation of a student is done by the following procedure:

There are two components in the Valuation and Assessment of a student – Internal Assessment (**IA**)   Semester Examinations (**SE). For the Batch of Students Admitted from 2018-19**.

Internal Assessment (IA)

- The maximum mark for IA is 30 and SE is 70 for theory; and for practical papers 50.
- Each IA written examination is of 1 hour's duration for 20 marks. The tests will be conducted centrally. The average of two such IA is calculated for 20 marks.
- Other Innovative Components will be for 5 Marks. The innovative component is for 5 marks, conducted during the class hours by the staff member/ in charge of the subject, in the form of assignments/ quiz/ seminars /ppt/Online- assignments/Open Book/Viva Voce/ Group work/ Mini Project/ Exhibition, etc. The topic and time for submission/ presentation will be announced by the staff member/ in charge of the subject in advance. Each student should explain and defend his/her presentation. For attendance 5 Marks are allotted.
- The semester examination will be of 3 hours with maximum 70 marks.
- There is no passing minimum marks for IA.

Semester Examinations (SE)

- A student should register himself/herself to appear for the Semester Examinations by payment of the prescribed fee.
- The Semester Examinations will be in the form of a comprehensive examination covering the entire syllabus in each subject. It will be of 3 hours duration & Foundation course 2 hours irrespective of the number of credits allotted to it.
- If a candidate fails to obtain pass marks even after the due to less mark in the IA examination, the marks of the next examination will be converted to be out of 100.
- Even though the candidate is absent for two IA exams/obtain zero marks the external marks are considered (if he/she gets 40/70) and the result shall be declared as 'PASS'.
- The maximum marks for each Paper shall be 100.

Evaluation of a student is done by the following procedure for All II & III Year B.Sc. (MPCs) & B.Com. (C.A). For the Batch of Students Admitted from 2016-17.

Internal Assessment Examinations:
i)   Out of maximum 100 marks in each paper, 25 marks shall be allocated for internal assessment.
ii)   Out of these 25 marks, 20 marks are allocated for announced internal tests. Two announced internal tests will be conducted and average of these two tests shall be deemed as the marks obtained by the student, remaining 5 marks are allocated on the basis of candidate's percentage of attendance.

Semester-End Examinations:

i) The maximum marks for Semester-End examinations shall be 75 marks and duration of the examination shall be 3 Hours.

ii) Semester-End examinations shall be conducted in theory papers and the practical papers are conducted at the end of every Semester for II & III B.Sc. (MPCs) only.

iii) Odd semester practical end examinations are to be evaluated by Internal Examiners and Even semester practical end examinations are to be evaluated by External Examiners.

iv) V semester end **C** practical examination are to be evaluated by Internal Examiners and Even semester **Tally** Practical examinations are to be evaluated by External Examiner for III B.Com (Computers) students only.

Question paper guide lines for Practical Examinations at the end of Semesters III &IV
Two Practical Programs to be conducted out of 15 programs at the end of Semester III & IV
Practical Examination time 3Hrs and Maximum Marks 50
Scheme of valuation Semesters – II & IV B.Sc. (M.P.Cs), B.Com (Computers)

Computer Science Practical's - External (Time: 3 hrs.)   **Total Marks: 25M**

    1. Programs Writing (2) :   10 marks,
    2. Viva voice   :   5 marks
    3. Execution & Result :   10 marks

  Total Marks   ` :   25

Computer Science Practical's- Internal   **Total Marks: 25M**

   1. Attendance   :   5 marks
   2. Record   :   10 marks
   3. Day to day observation   :   5 marks
   4. Problem solving and Execution :   5 marks

    Total Marks   :   25
                    ----

1. Discussed and recommended for organizing Seminars, Guest lectures, Work-shops to upgrade the knowledge of students, for the approval of the Academic Council. Discussed and recommended to conduct certificate courses for Computer Science and Non-Computer Science students separately like TALLY ACCOUNTING PACKAGE, ADOBE PHOTOSHOP, DESKTOP PUBLISHING, COMPUTER HARDWARE AND NETWORKING, WEB DESIGNING, OPERATING SYSTEMS, ETC...

2. Discussed and empowered the HOD to suggest the panel of the paper setters and examiners to the controller of the examinations.

3. Nil.

Chairman